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Information technology –

Fibre Distributed Data Interface (FDDI) –

Part 25:

Abstract Test Suite for FDDI – Station Management Conformance Testing (SMT-ATS)

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FOREWORD

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 9314-25 was prepared by Joint Technical Committee ISO/IEC JTC 1 *Information technology*, Subcommittee SC 25, *Interconnection of information technology equipment.*

ISO/IEC 9314 consists of the following parts, under the general title *Information technology – Fibre Distributed Data Interface (FDDI):*

- *Part 1: Token Ring Physical Layer Protocol (PHY)*
- *Part 2: Token Ring Media Access Control (MAC)*
- *Part 3: Physical Layer Medium Dependent (PMD)*
- *Part 4: Single Mode Fibre Physical Layer Medium Dependent (SMF-PMD)*
- *Part 5: Hybrid Ring Control (HRC)*
- *Part 6: Station Management (SMT)*
- *Part 7: Physical Layer Protocol (PHY-2)*
- *Part 8: Media Access Control-2 (MAC-2)*
- *Part 9: Low-Cost Fibre – Physical Medium Dependent (LCF-PMD)*
- *Part 10: Token Ring Twisted Pair Physical layer Medium Dependent (TP-PMD)*
- *Part 13: Conformance Test Protocol Implementation Conformance Statement proforma (CT-PICS)*
- *Part 20: Physical Medium Dependent Conformance Testing (PMD-ATS)*
- *Part 21: Physical Layer Protocol Conformance Testing (PHY-ATS)*
- *Part 25: Abstract Test Suite for FDDI – Station Management Conformance Testing (SMT-ATS)*
- *Part 26: Media Access Control Conformance Testing (MAC-ATS)*

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INTRODUCTION

The International Organization for Standardization (ISO) has developed a standard to define the procedures required for Conformance Testing. These procedures are set forth in ISO 9646, Parts 1-7. Part 3 defines the language syntax to be used for writing Abstract Test Suites (ATS), that language is Tree and Tabular, Combined Notation (TTCN).

The Station Management (SMT) Abstract Test Suite (ATS) directly supports the FDDI Protocol Implementation Conformance Statement (PICS) Proforma and works in correlation with three other FDDI ATS standards.

This ATS for FDDI SMT provides the test procedures and test cases required to test the station management protocol described in the SMT standards. SMT specified the local portion of the system management application process for FDDI, including the control required for proper operation of an FDDI station in an FDDI ring. SMT provided services such as connection management, station insertion and removal, station initialization, configuration management, fault recovery, communication protocol for external authority, scheduling policies and the collection of statistics. SMT interact with PMD, PHY, and MAC for testing.

The three ATS standards when combined with SMT, that make up the complete Conformance Test for the FDDI Protocol are:

a) An ATS for FDDI Physical Medium Dependent (PMD) that provides a conformance test for FDDI PMD. PMD specifies the optical interface of FDDI stations. PMD is not a protocol standard and this ATS requires the measurement of physical quantities such as optical power, wavelength and signal jitter. The PMD ATS differs from the methodology of higher level protocol conformance tests written using the Tree and Tabular Combined Notation as specified by ISO 9643-3, because the TTCN notation does not provide a suitable vehicle for Physical Layer testing, where there is no concept of a protocol data unit and where physical quantities must be measured.

b) An ATS for the FDDI Physical Layer Protocol (PHY) that provides a conformance test for FDDI PHY. PHY specifies the upper sublayer of the Physical Layer for the FDDI, including the data encode/decode, framing and clocking, as well as the elasticity buffer, smoothing and repeat filter functions. FDDI PHY, however, does contain several state machines and implements a protocol at the level of FDDI code symbols. The only physical quantity that must be measured in this conformance test is frequency. The PHY ATS cannot use the TTCN notation. A unique notation is developed in the PHY ATS for specifying test patterns and expected results in terms of FDDI code symbol strings.

c) An ATS for FDDI Media Access Control (MAC) that provides a Conformance test for FDDI MAC. MAC specifies the lower sublayer of the Data Link Layer for FDDI. It specifies access to the medium, including addressing, data checking and data framing. MAC also specifies the receiver and transmitter state machines. Since MAC is a protocol that deals primarily with complete PDUs, the Tree and Tabular Combined Notation language specified in ISO 9643-3 is used to specify MAC protocol tests.

International Standard ISO/IEC 9314-25:1998, *Information technology - Fibre Distributed Data Interface (FDDI) - Station Management Conformance Testing (SMT-ATS)* was developed by ISO/IEC JTC 1/SC 25.

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INFORMATION TECHNOLOGY – FIBRE DISTRIBUTED DATA INTERFACE (FDDI) –

Part 25: Abstract Test Suite for FDDI – Station Management Conformance Testing (SMT ATS)

1 Scope

This part of ISO/IEC 9314 contains the Abstract Test Suites for the Fiber Distributed Data Interface (FDDI) token ring Station Management (SMT) layer protocol. The SMT Protocol is extensive and very complex. In the development process, the protocol was broken into six separate areas. Those areas dealt with Physical Connection Management (PCM), Entity Coordination Management (ECM) Ring Management (RMT), Configuration Management (CMT), Frame Based Management (FBM) and Management Information Base (MIB).

This SMT ATS is divided along the same boundaries, with the exception that PCM and ECM are combined. Those two concepts are tested together. The formal description language used for Abstract Test Suite (ATS) development is Tree and Tabular Combined Notational (TTCN) and is defined in ISO 9646Framework. TTCN is intended for higher layer protocol testing and requires the use of discreet Protocol Data Units (PDUs). The TTCN notation is used in the test cases for RMT, FBM and MIB. It cannot be used for PCM, ECM and CFM. These three protocols use line states as the method of conveying information.

The TTCN (P) is similar in structure to TTCN but changes the paradigm from PDUs to line states. A description of the concept of TTCN (P) can be found in the beginning of section 6, PCM.

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2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9314. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 9314 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 7498-1:1994, *Information technology – Open Systems Interconnection – Basic Reference Model: The Basic Model*

ISO/IEC 9314-1:1989, *Information processing systems – Fibre Distributed Data Interface (FDDI) – Part 1: Token Ring Physical Layer Protocol (PHY)*

ISO/IEC 9314-2:1989, *Information processing systems – Fibre Distributed Data Interface (FDDI) – Part 2: Token Ring Media Access Control (MAC)*

ISO/IEC 9314-3:1990, *Information processing systems – Fibre Distributed Data Interface (FDDI) – Part 3: Physical Layer Medium Dependent (PMD)*

ISO/IEC 9314-6:1998 *Information technology – Fibre Distributed Data Interface (FDDI) – Part 6: Station Management (SMT)*

ISO/IEC 9646 (all parts), *Information technology – Open Systems Interconnection – Conformance testing methodology and framework*

ISO/IEC 9646-1:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 1: General concepts*

ISO/IEC 9646-2:1994, *Information technology – Open Systems Interconnection – Conformance testing methodology and framework – Part 2: Abstract test suite specification*

3 Definitions

For the purposes of this part of ISO/IEC 9314, the following definitions apply.

3.1 **Abstract Test Suite (ATS):** An ATS is a document, defined in ISO 9646, that depicts the suite of tests to be run by the test implementor to define conformance to a governing standard.

3.2 **Frame Based Management (FBM):** FBM defines the frame formats and protocols used to manage FDDI stations on a ring in a peer-to-peer relationship.

3.3 **Management Information Base (MIB):** The MIB provides the specification and capabilities of management information and its relationships to systems management.

3.4 **Connection Management (CMT):** CMT controls the establishment and maintenance of an FDDI connection.

3.5 **Physical Connection Management (PCM):** PCM controls initializations of a Physical connection, maintenance of the connection and closing of the connection.

3.6 **Ring Management (RMT):** RMT monitors the MAC functions in an FDDI station and supports establishment and maintenance of an operational ring.

4 Convention and abbreviations

4.1 Conventions

4.2 Abbreviations

ATS:	Abstract Test Suite;
CFM:	Configuration Management;
F:	Fail (when used in the verdict column of the Dynamic Behavior tables);
I:	Inconclusive (when used in the verdict column of the Dynamic Behavior tables);
ILS:	Idle Line State;
IUT:	Implementation Under Test;
MAC:	Media Access Control;
MLS:	Master Line State;
P:	Pass (when used in the verdict column of the Dynamic Behaviour tables);
PCM:	Physical Connection Management;
PDU:	Protocol Data Unit defined in terms of SMT and MAC Frames;
PHY:	Physical Layer Protocol;
PICS:	Protocol Implementation Conformance Statement;
PIXIT:	Protocol Implementation extra Information for Testing;
TTCN:	Tree and Tabular Combined Notation;
TTCN(P):	Tree and Tabular Combined Notation for PCM & CFM;
QLS:	Quiet Line State;
ALS:	Active Line State;
HLS:	Halt Line State;
ERR:	Error;
RMT:	Ring Management;
MIB:	Management Information Base.

5 Timer definition

A set of timers, as described below, is used in the test suite, their values must be initialized prior to the beginning of test, unless a default value is specified.

T_REQ: the Target Token Rotation Timer
(TTRT) is configured in the IUT's MAC in units of µs. This value will be converted to units of 80 ns for MAC claim process.

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T_REQ1: an alternate TTRT configured in the IUT's MAC in units of µs. This value will be converted to units of 80 ns for MAC claim process.

T_REQ2: an alternate TTRT configured in the Other's MAC in units of µs. This value will be converted to units of 80 ns for MAC claim process.

T_Max: the maximum token rotation time in µs.

D_Max: the maximum ring latency. The default value is 1773 µs.

T_Non_Op: time to allow ring recovery to occur before duplicate address conditions are examined. The default value is 1 s.

RM_React: maximum for the RMT state machine to recognize that transition conditions exist and to execute the appropriate transition. The default value is 83 ms.

T_Jam: time for which Jam Beacon is sent. The default value is 370 ms.

T_DBJ: time to start the second Beacon of the Double Beacon Jam after the first Beacon is sent. The default value is 82 ms.

T-Direct: time for which a Directed Beacon is sent before the Trace function is invoked. The default value is 370 ms.

T_Stuck: time to allow a Stuck Beacon to be sent, followed by the initiation of a Trace. The default value is 8 s.

T_Rmode: the maximum time allowable for Restricted Dialogue on the ring. The default value is zero seconds for Non-Used Restricted Dialogue.

T_Announce: the interval between sending Jam Beacons. The default value is 2 500 ms.

T_Limit: The rate-limiting interval for the Status Report Protocol. The default value is 2 s.

Topr: Time required for a test operator to initiate operation on the IUT, for example, triggering NIF request frame to be sent from the IUT. This is used in conjunction with the TTCN Implicit Send event for test coordination. This test suite uses a default value of 3 min.

The following are the expiration values of the timers used in PCM test cases. Whenever the name and the value correspond to ISO/IEC 9314-6 the reference is indicated.

TB_Min: Minimum Break time for link.

Range: TB_Min ≥ 4.823 ms with default values
Default: 5 ms (SMT PCM);

TB_Max: Break time before the BS_Flag is set. TB_Max shall be sufficiently large so that it will not be set inadvertently by noise generated by an optical bypass switch, which is bounded by MI_Max.

Range: TB_Max ≥ 30.0 ms with default values
Default: 50 ms (SMT PCM);

MI_Max: Maximum Optical Bypass media interruption time. The range and default value for MI_Max is specified in the PMD document.

Range: MI_Max ≤ 15.0 ms
Default: 15 ms (SMT PCM)

C_Min: Minimum time required to remain in the Connect State to ensure that the other end has recognized Halt Line State.

Range: C_Min ≥ 1.2 ms with default values
Default: 1.6 ms (SMT PCM);

C_Second: A timer used to check PCM wait for a change in the Connect State since it enters Connector State from Break State and has not yet received HLS.

Default: 1 s;

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PC_React: Maximum time for PCM to make a state transition to Break upon receiving QLS.

Range: PC_React ≤ 3.0 ms
Default: 3 ms (SMT PCM);

LS_Min: Length of time continuous reception of ILS is required to be used by PCM.
Range: 25 µs ≥ LS_Min ≥ 0.48 µs with default values
Default: 0.48 µs(SMT PCM);

LS_Max: Maximum time to reestablish the correct line state as specified in the PHY document.

Range: LS_Max ≤ 25 µs
Default: 25 µs (SMT PCM);

TL_Min: Minimum time to transmit a PHY line state before advancing to the Next PCM state. TL-Min is set to twice the time required for line state recognition(LS_Max).

Range: TL_Min ≥ 50 µs with default values
Default: 50 µs (SMT PCM);

N_Second: A Timer used to check PCM wait to receive ILS in Next State

Default: 1 s;

LS_Less: A timer which measures the amount of time that it take the IUT to make a correct Line State transition.

Default: 0.24 µs;

T_Out: Signaling timeout. The minimum time that a PCM State Machine will remain in a state awaiting a line state change. When a line state change is expected and no transition is made in T_Out time, a transition shall be made to the Break State.

Range: T_Out ≥ 100 ms
Default: 100 ms (SMT PCM);

LC_Short: Short Link Confidence Test Time

Range: LC_Short > 5*10(4) ns
Default: 50 ms (SMT PCM);

LC_Medium: Medium Link Confidence Test Time.

Range: LC_Medium ≥ 50 *10(LER_Cutoff) ns
Default: 500 ms (SMT PCM);

LC_Long: Long Link Confidence Test Time.

Range: LC_Long ≥ 500 * 10 (LER_ Cutoff) ns
Default: 5 s (SMT PCM);

LC_Extended: Extended Link Confidence Test Time.

Range: LC_Extended ≥ 50 s
Default: 50 s (SMT PCM);

T_Next(7): LC_Test, Time for Link Confidence Test (SMT PCM);

B_Second: A timer used to check when IUT detects Link Error Rate exceeds the LER_Cutoff threshold; it enters Break State and transmits QLS.

Default: 1 s;

T_Next(9): Time for the optional MAC Local Loop to prevent deadlock. This allows sufficient time for MAC recovery process completion and the exchange of neighbor information frames.

Range: T_Next(9) ≥200 ms
Default: 200 ms (SMT PCM).

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NS_Max: The maximum length of time that noise as measured by TNE, is allowed before a connection is broken down and restarted.

Range: 5.8 ms ≥ NS_Max ≥ 0.7255 ms
Default: 1.3 ms (SMT PCM);

Trace_Max: Maximum propagation time for a Trace on an FDDI topology. Trace_Max places a lower bound on the detection time for a nonrecovering ring (T_Stuck)

Range: Trace_Max ≥ 6.001773 s with default values
Default: 7.0 s

6 Physical Connection Management (PCM) & Entity Coordination Management (ECM) - Abstract Test Suites

6.1 Notation for PCM Tests

PCM is implemented as a complex state
machine and it is therefore highly desirable to use a formal notation to specify precisely conformance tests. One such formal notation is the Tree and Tabular Combined Notation (TTCN) as defined in ISO 9646-3. However PCM does not fit the TTCN paradigm well. The primary problem is that TTCN, which is intended for higher level protocol tests, requires that the protocol uses discrete Protocol Data Units (PDUs). It assumes that these PDUs are queued when received and that the TTCN "?" operator tests the PDU at the front of the receive queue. PCM signaling does not use PDUs but instead uses line states as the method of conveying information.

This document uses a notation called TTCN(P) to express the PCM tests. It is similar to TTCN, but changes the paradigm somewhat and simplifies the notation.
The key to understanding TTCN(P) is that the Implementation Under Test (IUT) is always considered to take on one of the following values:

- Quiet Line State (QLS)
- Idle Line State (ILS)
- Halt Line State (HLS)
- Master Line State (MLS)
- Active Line State (ALS)
- Noise Line State (NLS)
- Line State Unknown (LSU)

No other values can be set.

NLS is defined to be any condition which occurs in any of the other line states, which satisfies the conditions for termination of that state but does not satisfy the criteria for entry into any of the other line state. The tester never transmits NLS, and, in most cases the reception of NLS causes the IUT to fail the test.

The TTCN(P) "?" operator tests the contents of a received line state register in the tester, for example, the test ?ILS is satisfied if the current line state is ILS.

The tester is either transmitting a predefined MAC frame, repeating symbols received when its input is in ALS or is continuously transmitting one of the following:

- QLS
- ILS
- HLS
- MLS
- ERR
- Port_Type

ERR is a special pattern transmitted during the Link Confidence Test.

Port_Type is used to mean either HLS or MLS as appropriate. This notation is used to reduce the number of separate routines. In particular the port type, which is signaled in the Signal States when

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n=1 and n=2, is irrelevant to many test cases. Therefore the tests include subroutines, whose purpose is simply to step the IUT to the state where the actual test begins, use the Port_Type notation to allow the same routine to serve several port types.

A TTCN(P) test procedure consists of a sequence of event lines specifying an event or an action to take place at a given instant during the testing. The time progression is represented by the indentation number to the left of every event line in the form of [1], [2], etc. An event line may be one of the following: start transmitting line state symbols, check the current line state, start and test expiration of timers, invoke other test procedures (tree attachment), and a GOTO statement. These events are written in the format shown below:

```
  [n] !line-state       /* Start transmitting
line-state symbols as specified, e.g. HLS */
  [n] !Repeat           /* Repeat input symbols received while input is in ALS, starting with the J symbol
and stopping with the first V, I or H symbol. When V or H symbols are encountered the Repeat Filter
rules of PHY are observed */
  [n]!Packet            /* cause the tester to transmit a single MAC Packet; when transmission of the
packet is complete, the tester transmits ILS */
  [n] ?line-state       /* check if the current line state is in a specific state */
  [n] ?OTHERWISE        /* any line state */
  [n] START timer-name  /* start the timer with pre-specified duration */
  [n] ?TIMEOUT timer-name  /* test for
expiration for the specified timer */
  [n] +test-procedure-name   /* call another test procedure */
  [n] GOTO label            /* goto another event line with indicated label */
```

As in many programming languages, a comment is a character string of the following form:

/* Text of comment */

A label for an event line is denoted by a sequence of letters ending with a ":", and appears after the indentation level number, for example,

[3] L1:?TIMEOUT C_min.

The "!" Transmit event means that the tester begins sending the indicated line state and continues sending it until another "!" operator is encountered.

The START timer event may be combined with the Transmit (!) or Line state check (?) event lines. Multiple timers may be started on the same event. For example,

[1] !QLS START TB_Min, START TB_Max.

The event lines are evaluated starting from the first indentation level, [1]. There may be several event lines at each indentation level. These event lines represent a set of alternatives and the tester must wait for at least one of them to occur before proceeding to the next indentation level. If multiple events occur at the same time, the event line appearing first applies. A transmit event line (!) is considered to have occurred or completed when the transmission of the specified line state symbols is initiated. A line state check event (?) is satisfied when the current line state matches the specified state.

When an event line is satisfied, the tester moves on to the next indentation level following that event line. If there is no higher level event line, then the test is complete. If a completed event line contains a verdict specification, the test is also considered completed, even if there is a higher indentation level event line following.

The event lines, with the exception of GOTO, SEND and Tree Attachment Event, may assign one of these verdicts: PASS, FAIL, or INCONCLUSIVE.

A GOTO event can only specify the labels appearing on the first line of an indentation level that is lower or equal to the current indentation level.

An event line that invokes another procedure is considered not satisfied if none of the first level event lines in that procedure have occurred.

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Note that PCM is intended to operate in very noisy environments (perhaps as bad as a BER of 10^{-2} and does not generally react to brief noise events. We do not simulate noise in our PCM tests except for the Link Quality Tests; rather we expect that the IUT and the tester transmit nothing but clean line states without any errors. If the IUT transmits NLS or LSU it is always grounds for failure.

"TTCN(P) does not use the normal TTCN Constraints. This is because the Constraints section of TTCN uses PDUs rather than Line States to define Constraints.

An example illustrates the TTCN(P) notation. This example is the test case To_Next specified in 6.2.1.5:

Procedure:

```
[1]+Start_To_Connect
[2]  !HLS Start C_Min
[3]    A:?Timeout C_Min /*Comment*/
[4]      B:?HLS
[5]        Goto B
[4]      ?ILS                    Pass
[4]      ?Otherwise              Fail(2)
[3]    ?HLS
[4]      Goto A
[3]    ?Otherwise                Fail(1)
```

In **To_Next** the procedure **Start_To_Connect** is attached by the first statement:

[1]+Start_To_Connect, which is specified in 6.3.2, is:

Procedure:

```
[1]!QLS Start TB_Min
[2]  ?Timeout TB_Min
[3]    A:?QLS
[4]      Goto A
[3]    ?HLS       /*Comment*/
[3]    ?Otherwise                Inconclusive
```

The key to understanding the attachment is that the attaching test is attached to each of the terminal leaves of the attached routine. A terminal leaf is any statement other than a GOTO that has no lower layer and is not qualified with Pass, Fail or Inconclusive verdict. In **Start_To_Connect** there is one terminal leaf:

```
[3]    ?HLS
```

Each test has a specific purpose. The purpose of **To_Next** is to verify that the IUT remains in the Connect State for at least C_Min before going to the Next State. **Start_To_Connect** is used simply to bring the IUT to the Connect State. Therefore it is a simple routine to progress a correct IUT to the Connect State and does not attempt to test all the requirements of PCM to get to the Connect State; these are tested elsewhere in an incremental fashion.

The first statement of **Start_To_Connect**, and the only statement at level 1 is:

```
[1]!QLS Start TB_Min
```

This statement causes the tester to transmit QLS and to start the TB_Min timer.

Control falls to the next statement at level 2:

```
[2]  ?Timeout TB_Min
```

This statement causes the tester to wait, still sending QLS, until the timer TB_Min expires, since there is no alternative at this level. This should cause the IUT to go to the Break State. There are three alternatives at level 3:

```
[3]    A:?QLS
[3]    ?HLS
[3]    ?Otherwise                Inconclusive
```

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Alternatives at the same level are evaluated in order and then the evaluation is repeated until one of the alternatives becomes true. One of the alternatives is always true because of the otherwise statement. At this point the IUT should either be transmitting QLS or HLS; if not, something is wrong. However, because this is not the point of the test, we label the otherwise "Inconclusive" rather than "fail". If we receive QLS, then we fall down to the following statement at level 4:

```
[4]      Goto A
```

This statement just returns the tester to level 3 at A and we loop back and evaluate the same three alternatives. Eventually the IUT should transmit HLS (signifying that it has entered the Connect State, the second alternative became true, Start_To_Connect has reached a terminal leaf), and control passes to the attaching test routine **To_Next**.

When the Start_To_Connect completes control passes to level 2, where there is one alternative:

```
[2]  !HLS Start C_Min
```

This statement causes the tester to transmit HLS and to start the timer C_Min. Control then passes to level 3 and the following alternatives:

```
[3]    A:?Timeout C_Min /*Comment*/
.
.
[3]    ?HLS
[3]    ?Otherwise   Fail(1)
```

The test purpose is to see if the IUT remains in the Connect State for at least C_Min before going to the Next State, therefore if any signal other than HLS (signifying Connect State) is received before C_Min expires, the Otherwise statement causes the test to fail. The "(1)" is a parameter used to distinguish between possibly different failure points. As long as HLS is received control will fall to a GOTO at level 4, which loops control back to B:

```
[4]      Goto A
```

Finally, when C_Min times out, control falls to:

```
[4]    B:?HLS
[5]      Goto B
[4]    ?ILS                    Pass
[4]    ?Otherwise              Fail(2)
```

As long as HLS is received, the tester continues to loop back to level 4. If ILS is received, then the IUT has made the transition to the Next State after waiting for at least C_Min and this test is passed. If anything else is received, then the test is failed.

Note that we can expand the attachment of Start_To_Connect by To_Next and get the following equivalent test routine:

Procedure:

```
[1]!QLS Start TB_Min
[2]  ?Timeout TB_Min
[3]   A:?QLS
[4]     Goto A
[3]   ?HLS
[4]     !HLS Start C_Min
[5]     B:?Timeout C_Min /*Comment*/
[6]       C:?HLS
[7]         Goto C
[6]       ?ILS                  Pass
[6]       ?Otherwise            Fail(2)
[5]     ?HLS
[6]       Goto B
[5]     ?Otherwise              Fail(1)
[3]   ?Otherwise                Inconclusive
```

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6.2 Test Cases

6.2.1 Connection Initialization Test:

6.2.1.1 Case-ID: To_Connect_1

Purpose: Verify that IUT enters the Connect state after remaining in the Break state for at least TB_Min when it receives QLS.

Test Setup: See figure 1.

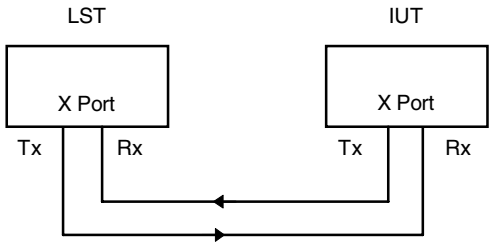

Figure 1 - Tester Configuration for Indicated Cases

Procedure:

```
[1]+Init              /*Comment(1)*/
[2]  !QLS Start TB_Min /*Comment(2)*/
[3]    A:?Timeout TB_Min
[4]     B:?QLS
[5]       Goto B
[4]     ?HLS                        Pass
[4]     ?Otherwise                  Fail(2)
[3]    ?QLS
[4]     Goto A
[3]    ?Otherwise                   Fail(1)
```

Extended Comments:
(1) The Init function (6.3.1 of this document) is called to let the IUT start from the Break State.
(2) In the Break State, the Tester transmits QLS, starts the timer TB_Min to ensure that the IUT remains in the Break State for at least TB_Min. (PC-13)

Reasons for Failure:
(1) Initially, the IUT is in the Break State while QLS is transmitted for at least TB_Min. If the IUT does not transmit QLS within TB_Min, then the IUT fails.
(2) The IUT transmits QLS while in the Break State and HLS when it enters the Connect State. Any other output is invalid.

6.2.1.2 Case-ID: To_Connect_2

Procedure:

```
[1]+Init/*Comment(1)*/
[2]  !HLS Start TB_Min /*Comment(2)*/
[3]    A:?Timeout TB_Min
[4]     B:?QLS
[5]       Goto B
[4]     ?HLS                        Pass
[4]     ?Otherwise                  Fail(2)
[3]    ?QLS
[4]     Goto A
[3]    ?Otherwise                   Fail(1)
```

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Extended Comments:
(1) The Init function (6.3.1 of this document) is called to let the IUT start from the Break state.
(2) In the Break state, the Tester transmits HLS, starts the timer TB_Min to ensure that the IUT remains in the Break state for at least TB_Min. (PC-13)

Reasons for Failure:
(1) IUT must transmit QLS for TB_Min at the beginning of this procedure. If it does not meet this requirement then the IUT fails.
(2) After remaining in the Break State for longer than TB_Min, the IUT may either stay in Break or change to Connect. If the IUT transmits any line state other than QLS or HLS, the test fails.

6.2.1.3 Case-ID: Wait_for_Connect

Purpose: Show that the IUT progresses to Connect from the Break State and remains in the Connect State until HLS is received.

Test Setup: See figure 1.

Procedure:

```
[1]+Init
[2]  !QLS
[3]    A:?QLS
[4]      Goto A
[3]    ?HLS /*Comment(1)*/
[4]      Start C_Second /*Comment(2)*/
[5]        B:?Timeout C_Second          Pass
[5]        ?HLS
[6]          Goto B
[5]        ?Otherwise                   Fail(2)
[3]    ?Otherwise                       Fail(1)
```

Extended Comments:
(1) IUT enters the Connect State from the Break State and transmit HLS. (Connect_Actions)
(2) In this step, the IUT is in the Connect State, it is going to receive a sequence of HLS to process to the Next State. At this point, The Tester keeps sending QLS to the IUT to see what happen on the IUT. (PC-33)

Reasons for Failure:
(1) IUT transmit QLS when it enters the Break State. After TB_Min, it must enter the Connect State and transmit HLS. If the IUT does not transmit QLS followed by HLS then the IUT fails.
(2) When the IUT enters the Connect state, it will enter the Next state after receiving sufficient HLS. The tester remains in the Break state which should cause the IUT to remain in the Connect state forever. If the IUT transmits other than HLS then it is failed.

6.2.1.4 Case-ID: Connect_Error

Purpose: Verify that the IUT enters the Break
State if the ILS is received before HLS is received in the Connect State.

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Connect /*Comment*/
[2]  !ILS  Start T_Out
[3]    A:?Timeout T_Out               Fail(1)
[3]    ?HLS
[4]      Goto A
[3]    ?QLS                           Pass
[3]    ?Otherwise                     Fail(2)
```

Extended Comments: The IUT is in the Connect State (see 6.3.2).

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Reasons for Failure:

(1) If the IUT does not enter the Break State within T_Out when ILS is received before HLS is received, the IUT fails. (PC-33, PC-31b)
(2) IUT may either be in the Connect State (not changed to Break State yet) or in the Break State otherwise it is failed.

6.2.1.5 Case-ID: To_Next

Purpose: Verify that the IUT remains in the Connect State for at least C_Min before entering the Next State.

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Connect
[2]  !HLS  Start C_Min
[3]    A:?Timeout C_Min /*Comment*/
[4]      B:?HLS
[5]        Goto B
[4]      ?ILS                          Pass
[4]      ?Otherwise                    Fail(2)
[3]    ?HLS
[4]      Goto A
[3]    ?Otherwise                      Fail(1)
```

Extended Comments:
IUT enters the Connect State from the Break State and must remain in the Connect State for at least C_Min. (PC-33, PC-34)

Reasons for Failure:
(1) When the IUT enters the Connect State, it remains for at least C_Min. If the C_Min timer does not timeout and the IUT does not transmit HLS then the IUT fails.
(2) After C_Min, the IUT may stay in the Connect State or enter the Next State. If the IUT transmits a Line State other than HLS or ILS then the IUT fails.

6.2.1.6 Case-ID: Next_0

Purpose: Verify that the IUT remains in the Next State for at least TL_Min.

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Next /*Comment*/
[2]  !ILS Start TL_Min
[3]    A:?Timeout TL_Min
[4]      B:?ILS
[5]        Goto B
[4]      ?MLS                          Pass
[4]      ?Otherwise                    Fail(2)
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                      Fail(1)
```

Extended Comments: IUT is in the Next State with n=0.

Reasons for Failure:
(1) Initially, the IUT is in the Next State, ILS is transmitted for at least TL_Min. After TL_Min, the IUT may remain in the Next or enter the Signal State. If the IUT does not transmit ILS and TL_Min is not expired, then the IUT fails. (PC-44b, Next_Actions)
(2) After TL_Min, the IUT may remain in the Next State or enter the Signal State. If the IUT does not transmit ILS or MLS, then the IUT fails.

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6.2.1.7 Case-ID: Wait_In_Next

Purpose: Verify that the IUT will not enter the Signal State until ILS is received for at least LS_Min.

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Next
[2]  !ILS Start LS_Less, Start N_Second
[3]    A:?Timeout LS_Less /*Comment(1)*/
[4]      !MLS /*Comment(2)*/
[5]        B:?Timeout N_Second        Pass
[5]        ?ILS /*Comment(3)*/
[6]          Goto B
[5]        ?QLS                       Pass
[5]        ?Otherwise                 Fail(2)
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                     Fail(1)
```

Extended Comments:
(1) LS_Less is a timer which is set to half the time required for LS_Min (the default value of LS_Less is 0.24 microseconds). It is to verify that the IUT will wait in the Next State without changing to the Signal State (the Tester sends ILS for 0.24 microseconds) unless it receives ILS for at least LS_Min. (0.48 microseconds)
(2) Tester continuously transmits MLS to the IUT.
(3) IUT will stay in the Next State, if ILS is not received for longer than LS_Min.
(PC-44a, PC-44b)

Reasons for Failure:
(1) IUT does not remain in the Next State to transmit ILS or LS_Less is not expired.
(2) If the IUT does not receive sufficient ILS, the IUT enters the Next State from the Connect State, it must wait to receive enough ILS. So, if the IUT does not transmit ILS (IUT may not remain in the Next State) and the N_Second timer is not expired then the IUT fails.
(PC-44a, PC-44b)

6.2.1.8 Case-ID: Next_Error1

Purpose: Verify that the IUT transitions from the Next state to Break, if QLS is received. (PC-41b)

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Next
[2]  !QLS  Start PC_React
[3]    A:?Timeout PC_React        Fail(2)
[3]    ?QLS                       Pass
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                 Fail(1)
```

Reasons for Failure:
(1) IUT does not transmit ILS, QLS and PC_React is not expired.
(2) IUT does not enter the Break State within PC_React when QLS is received. (PC-41b, Next_Error, Break_Actions)

6.2.1.9 Case-ID: Next_Error2

Purpose: Verify that the IUT transitions from the Next state to Break, if T_Out expires prior to the IUT receiving ILS, with n > zero. (PC-41b)

Test Setup: See figure 1.

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Procedure:

```
[1]+To_Next_0 /*Comment*/
[2]  !MLS  Start T_Out
[3]    A:?Timeout T_Out
[4]      ?QLS                    Pass
[4]      ?Otherwise              Fail(2)
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                Fail(1)
```

Extended Comments: The IUT enters the Next State with n=1.

Reasons for Failure:
(1) IUT does not transmit ILS or T_Out is not expired.
(2) IUT does not enter the Break State from Next because ILS has not been received for T_Out and n is greater than zero since entering the Next State. (Next_Error, Break_Actions)

6.2.1.10 Case-ID: Signal_Error1

Purpose: Verify that the IUT transitions from the Signal state to Break if QLS is received. (PC-51b)

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Next /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS /*Comment(2)*/
[4]      Goto A
[3]    ?MLS /*Comment(3)*/
[4]      !QLS  Start PC_React
[5]        B:?Timeout PC_React     Fail(2)
[5]        ?MLS
[6]          Goto B
[5]        ?QLS                    Pass
[5]        ?Otherwise              Fail(3)
[3]    ?Otherwise                  Fail(1)
```

Extended Comments:
(1) IUT is in Next State with n = 0.
(2) Tester keeps receiving ILS from the IUT until the IUT changes to the Signal State and transmits MLS.
(3) IUT enters the Signal State and transmits MLS. (PC-54, T_Val(0), Signal_Actions)

Reasons for Failure:
(1) Initially, the IUT is in the Next State, ILS is transmitted. After TL-Min, the IUT enters the Signal State. If the IUT does not transmit ILS, MLS then the IUT fails.
(2) IUT does not enter the Break State while QLS is received for PC_React in the Signal State. (PC-41b, Next_Error, Break_Actions)
(3) IUT does not transmit QLS, MLS or PC_React has not timed out.

6.2.1.11 Case-ID: Signal_Error2

Purpose: Verify that the IUT transitions from the Signal state to the Break state if the MLS or HLS has not been received for a period T_Out. (PC-51b)

Test Setup: See figure 1.

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Procedure:

```
[1]+Start_To_Next /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS /*Comment(2)*/
[4]      Goto A
[3]    ?MLS /*Comment(3)*/
[4]      Start T_Out
[5]        B:?Timeout T_Out
[6]          ?QLS                    Pass
[6]          ?Otherwise              Fail(3)
[5]        ?MLS
[6]          Goto B
[5]        ?Otherwise                Fail(2)
[3]    ?Otherwise                    Fail(1)
```

Extended Comments:

(1) IUT enters the Next State with n=0.
(2) Tester keeps receiving ILS until IUT enters the Signal State and transmits MLS.
(3) IUT enters the Signal State and transmits MLS. (PC-54, T_Val(0), Signal_Actions)

Reasons for Failure:

(1) Initially, the IUT is in the Next State transmitting ILS for at least TL_Min. The IUT enters the Signal State and transmits MLS. If the IUT does not transmit ILS or MLS, then the IUT fails.
(2) If the IUT does not transmit MLS, the test fails.
(3) If MLS is not received within T_Out, the IUT transitions to the Break State and transmits QLS. If the IUT does not transmit QLS, the test fails. This is a test of the break state response.
(PC-55a, PC-55b, PC-51b)

6.2.1.12 Case-ID: To_Pseudo_0

Purpose: In this procedure, the Tester enters the Signal State before the IUT does, and the IUT must enter the Signal State later.

Test Setup: See figure 1.

Procedure:

```
[1]+Start_To_Next
[2]  !ILS Start LS_Min
[3]    A:Timeout LS_Min
[4]      !MLS Start T_Out
[4]        B:?Timeout T_Out          Fail(3)
[5]        ?ILS
[6]         Goto B
[5]        ?MLS                      Pass
[5]        ?Otherwise                Fail(2)
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                    Fail(1)
```

Reasons for Failure:

(1) Initially, the Tester enters the Next State the same time as the IUT does. After ILS is transmitted for LS_Min, the Tester enters the Signal State without waiting for IUT change. The IUT must enter the Signal State later, if the IUT does not transmit ILS (IUT is not in the Next State) or LS_Min is not expired then the IUT fails. (PC-44a, PC-44b)
(2) IUT does not transmit ILS or MLS (IUT is in the Next State in the beginning of this procedure, then it will enter the Signal State and transmit MLS). (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)
(3) IUT stuck in the Next state.

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6.2.2 Port Dependent Tests:

6.2.2.1 Case-ID: A_Next_1

Purpose: Verify that the IUT transmits MLS when its port type is A with n=1.

Test Setup: See figure 2.

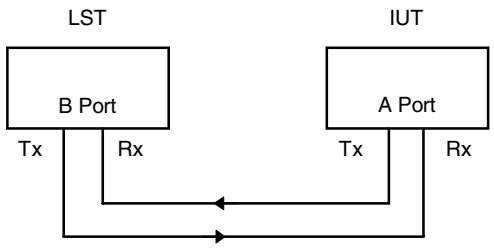

Figure 2 - Tester Configuration for Indicated Cases

Procedure:
1]+To_Next_0 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=1.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State and ILS is transmitted. Prior to T_OUT, the IUT transitions to the Signal State and transmits MLS to signal its port type is A or B. If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45) Next_Actions, Signal_Actions)

6.2.2.2 Case-ID: A_Next_2

Purpose: Verify that the IUT transmits MLS when its port type is A with n=2.

Test Setup: See figure 2.

Procedure:
[1]+To_Next_1 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=2.

Reasons for Failure:
The IUT signals MLS when n=2 and its port type is A. If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions).

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6.2.2.3 Case-ID: B_Next_1

Purpose: Verify that the IUT transmits MLS when its port type is B with n=1.

Test Setup: See figure 3.

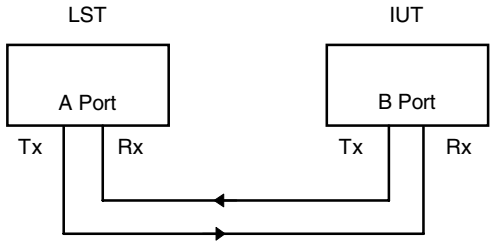

Figure 3 - Tester Configuration for Indicated Cases

Procedure:
[1]+To_Next_0 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=1.

Reasons for Failure:
Initially, the IUT is in the Next State with n=1 and ILS is transmitted, the IUT should enter the Signal State and transmit MLS (IUT's port type is B), if not, then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.2.4 Case-ID: B_Next_2

Purpose: Verify that the IUT transmits HLS when its port type is B with n=2.

Test Setup: See figure 3.

Procedure:
[1]+To_Next_1 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=2.

Reasons for Failure:
The IUT signals HLS when n=2 and its port is B. If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.2.5 Case-ID: S_Next_1

Purpose: Verify that the IUT transmits HLS when its port type is S with n=1.

Test Setup: See figure 4.

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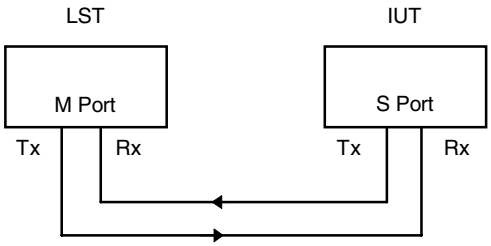

Figure 4 - Tester Configuration for Indicated Cases

Procedure:
[1]+To_Next_0 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=1.

Reasons for Failure:
Initially, the IUT is in the Next State and transmitting ILS. The IUT transitions to the Signal State and transmits HLS (IUT's port type is S). If the IUT does not transmit ILS or HLS, then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.2.6 Case-ID: S_Next_2

Purpose: Verify that the IUT transmits MLS when its port type is S with n=2.

Test Setup: See figure 4.

Procedure:
[1]+To_Next_1 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=2.

Reasons for Failure:
IUT must signal MLS when n=2 and its port type is S. If the IUT does not transmit ILS or MLS, then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

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6.2.2.7 Case-ID: M_Next_1

Purpose: Verify that the IUT transmits HLS when its port type is M with n=1.

Test Setup: See figure 5.

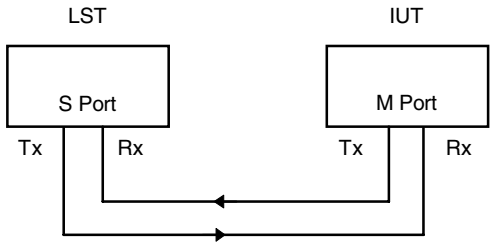

Figure 5 - Tester Configuration for Indicated Cases

Procedure:
[1]+To_Next_0 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=1.

Reasons for Failure:
Initially, the IUT is in the Next State and transmitting ILS. The IUT transitions to the Signal State and transmits HLS. If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.2.8 Case-ID: M_Next_2

Purpose: Verify that the IUT transmits HLS when its port type is M with n=2.

Test Setup: See figure 5.

Procedure:
[1]+To_Next_1 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=2.

Reasons for Failure:
IUT signals HLS when n=2 and its port type is M. If the IUT does not transmit ILS or HLS, then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.3 Connection Policy tests:

6.2.3.1 Case-ID: Valid_Connection

Purpose: Verify that the IUT transmits HLS to indicate the station has a policy which allows the connection for the configuration listed below.
Test Setup: A to A, A to B, A to S, B to A, B to B, B to S, S to A, S to B, S to S, S to M, M to A, M to B, M to S, A to M, B to M.

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Procedure:
[1]+To_Next_2 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=3.

Reasons for Failure:
Initially, the IUT is in the Next State with n=3 and ILS transmitting. PCM Pseudo Code initiates the transitions from Next_Action to Signal state and HLS is transmitted to signal the accepted connection (PC-45). If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.3.2 Case-ID: Undesirable_Connection

Purpose: Verify that the IUT transmits MLS to indicate the station has a policy which rejects the connection for the configuration listed below.
Test Setup: A to A, A to B, A to S, B to A, B to B, B to S, S to A, S to B, S to S, S to M, M to A, M to B, M to S, A to M, B to M.

Procedure:
[1]+To_Next_2 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=3.

Reasons for Failure:
Initially, the IUT is in the Next State with n=3 and ILS is transmitting. PCM Pseudo Code initiates the transitions from Next_Action to Signal state and MLS is transmitted to signal the un-accepted connection (PC-45). If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.3.3 Case-ID: Illegal_Connection

Purpose: Verify that the IUT transmits MLS to indicate an Illegal Connection when its port type is M, the Tester's port type is M and n = 3.

Procedure:
[1]+To_Next_2l /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=3.

Reasons for Failure:
Initially, the IUT is in the Next State with n=3 and transmitting ILS. MLS is transmitted to indicate that the Connection is illegal. If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

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6.2.4 Required Link Confidence Duration Tests

6.2.4.1 Short Link Confidence Test

6.2.4.1.1 Case-ID: SET_Duration_S1

Purpose: Verify that the IUT transmits MLS to indicate the Short, Medium LCT Duration or HLS to indicate a Long LCT Duration with n=4 for the configuration listed below.

Test Setup: All configurations except M to M.

Procedure:

```
[1]+To_Next_3 /*Comment*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS                Pass
[3]    ?HLS                Pass
[3]    ?Otherwise          Fail
```

Extended Comments: IUT is in the Next State with n=4.

Reasons for Failure:
Initially, the IUT is in the Next State with n=4 and ILS is transmitted. After a little while, PCM Pseudo Code is performed and MLS is signaled to indicate the Short or Medium LCT Duration, or HLS is signaled to indicate the Long LCT Duration. If the IUT does not transmit ILS, HLS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.4.1.2 Case-ID: SET_Duration_S2

Purpose: Verify that the IUT transmits MLS to indicate the Short, Medium LCT Duration or HLS to indicate a Long LCT Duration with n=5 for the configuration listed below.

Test Setup: All configurations except M to M.

Procedure:

```
[1]+To_Next_3 /*Comment 1*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment 2*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment 3*/
[6]          !ILS
[7]            C:?ILS
[8]              Goto C
[7]            ?MLS                Pass
[7]            ?HLS                Pass
[7]            ?Otherwise          Fail(4)
[5]          ?Otherwise            Fail(2)
[3]  ?HLS /*Comment 4*/
[4]      !HLS
[5]        D:?HLS
[6]          Goto D
[5]        ?ILS /*Comment 3*/
[6]          !ILS
[7]            E:?ILS
```

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```
[8]          Goto E
[7]        ?MLS                Pass
[7]        ?HLS                Pass
[7]        ?Otherwise          Fail(4)
[5]      ?Otherwise            Fail(3)
[3]   ?Otherwise               Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n=4.
(2) IUT transmits MLS to indicate Short or Medium LCT Duration.
(3) IUT ends in the Next State with n=5.
(4) IUT transmits HLS to indicate Long LCT Duration.

Reasons for Failure:
(1) Initially, the IUT is in the Next State with n equal 4 and transmitting ILS. After a little while, IUT enters Signal State, PCM Pseudo Code is performed and MLS is signaled to indicate the Short or Medium LCT Duration, or HLS is signaled to indicate a Long LCT Duration. So, if the IUT does not transmit ILS, HLS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)
(2) The legal Line States which IUT transmit are MLS (IUT remains in Signal State) or ILS (IUT enters Next State), if IUT does not transmit ILS or MLS then the IUT fails.
(3) The legal Line States which IUT transmit are ILS or HLS, if IUT does not transmit ILS or HLS, then the IUT fails.
(4) IUT does not transmit ILS or MLS.

6.2.4.2 Medium Link Confidence Test

6.2.4.2.1 Case-ID: SET_Duration_M1

Purpose: Verify that the IUT transmits MLS to indicate a Medium LCT Duration or HLS to indicate a Long LCT Duration with n = 4 for the configuration listed below.

Test Setup: All configurations except M to M.

Procedure:

```
[1]+Break_In_Next7 /*Comment(1)*/
[2] +To_Next3 /*Comment(2)*/
[3]   !ILS
[4]    A:?ILS
[5]      Goto A
[4]    ?MLS                    Pass
[4]    ?HLS                    Pass
[4]    ?Otherwise              Fail
```

Extended Comments:
(1) IUT enters the Break State while the last Link Confidence Test is failed, the PC_LCT_Fail is increased.
(2) IUT enters the Next State with n=4.

Reasons for Failure:
IUT has restarted from the last Link Confidence Test and retained the LCT failure history. So, when the IUT processes up to the Next State with n=4, it signals MLS to indicate the LCT Duration shall be Medium, or signals HLS to indicate the LCT Duration shall be Long. If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.4.2.2 Case-ID: Set_Duration_M2

Purpose: Verify that the IUT transmits HLS or MLS to indicate a Medium or Long Link Confidence Test Duration with n=5 for the configuration listed below.

Test Setup: All configurations except M to M.

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Procedure:

```
[1]+Break_In_Next7 /*Comment(1)*/
[2] +To_Next_3 /*Comment(2)*/
[3]  !ILS
[4]   A:?ILS
[5]    Goto A
[4]   ?MLS /*Comment(3)*/
[5]    !MLS
[6]     B:?MLS
[7]      Goto B
[6]     ?ILS /*Comment(4)*/
[7]      !ILS
[8]       C:?ILS
[9]        Goto C
[8]       ?HLS                    Pass
[8]       ?Otherwise              Fail(2)
[4]   ?HLS /*Comment(5)*/
[5]    !HLS
[6]     D:?HLS
[7]      Goto D
[6]     ?ILS /*Comment(3)*/
[7]      !ILS
[8]       E:?ILS
[9]        Goto E
[8]       ?MLS                    Pass
[8]       ?HLS                    Pass
[8]       ?Otherwise              Fail(4)
[6]    ?Otherwise                 Fail(3)
[4]   ?Otherwise          Fail(1)
```

Extended Comments:

(1) IUT enters the Break State while the Last Link Confidence Test is failed. The PC_LCT_Fail is increased.
(2) IUT is in the Next State with n=4.
(3) IUT transmits MLS to indicate Medium LCT Duration.
(4) IUT ends in the Next State with n=5.
(5) IUT transmits HLS to indicate Long LCT Duration.

Reasons for Failure:

(1) At the beginning of this procedure, the IUT is in the Next State with n = 4, ILS is transmitted. After a little while, IUT enters Signal State, PCM Pseudo is performed and MLS is signaled to indicate the LCT Duration is Medium or HLS is signaled to indicate the LCT Duration is Long. If the IUT does not transmit ILS, MLS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)
(2) The legal Line States which IUT transmit are HLS (IUT remains in Signal State) or ILS (IUT enters Next State). If IUT does not transmit ILS or HLS then the IUT fails.
(3) The legal Line States which IUT transmit are ILS or HLS, if IUT does not transmit ILS or HLS, then the IUT fails.
(4) IUT does not transmit ILS or MLS.

6.2.4.3 Long Link Confidence Test

6.2.4.3.1 Case-ID: Set_Duration_L1

Purpose: Verify that the IUT transmits HLS to indicate a Long LCT duration with n=4 for the configuration listed below.

Test Setup: All configurations except M to M.

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Procedure:
[1]+Break_In_Active /*Comment(1)*/
[2] +To_Next_3 /*Comment(2)*/
[3] !ILS
[4] A:?ILS
[5] Goto A
[4] ?HLS Pass
[4] ?Otherwise Fail

Extended Comments:
(1) IUT enters Break from Active and sets the LEM_Fail to indicate Link Error Rate is greater than LER_Cutoff.
(2) IUT is in the Next State with n=4.

Reasons for Failure:
IUT must signal HLS to indicate the Long LCT Duration. If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.4.3.2 Case-ID: Set_Duration_L2

Purpose: Verify that the IUT transmits MLS to indicate a Long LCT Duration with n=5 for the configuration listed below.

Test Setup: All configurations except M to M.

Procedure:
[1]+To_Next_4L/*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS Pass
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=5.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State with n=5 and ILS is transmitted. After a little while, PCM Pseudo Code is performed, a MLS is signaled to indicate the LCT Duration is Long. If the IUT does not transmit ILS, MLS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.4.4 Extended Link Confidence Test (Illegal Connections)

6.2.4.4.1 Case-ID: Set_Duration_E1

Purpose: Verify that the IUT transmits HLS indicating an Extended LCT Duration for illegal connections.

Test Setup: M to M.

Procedure:
[1]+To_Next_MM3 /*Comment*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS Pass
[3] ?Otherwise Fail

Extended Comments: IUT is in the Next State with n=4.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State with n=4 and ILS is transmitted. After a little while, PCM Pseudo Code is performed and HLS is signaled to indicate Extended LCT Duration. If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

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6.2.4.4.2 Case-ID: Set_Duration_E2

Purpose: Verify that the IUT transmits HLS indicating an Extended LCT Duration for illegal connections.

Test Setup: M to M.

Procedure:

[1]+To_Next_4E /*Comment*/		
[2] !ILS		
[3] A:?ILS		
[4] Goto A		
[3] ?HLS		Pass
[3] ?Otherwise		Fail

Extended Comments: IUT is in the Next State with n=5.

Reasons for Failure:
Initially, the IUT is in the Next State with n=5 and transmitting ILS. If the IUT does not transmit ILS or HLS then the IUT fails.

6.2.5 Link Confidence Tests:

6.2.5.1 Normal Case (Test Success):

6.2.5.1.1 Case-ID: In_Next_6

Perform test case 6.2.5.1.1.1, In_Next_6_With_MAC, only if IUT offers a MAC for the LCT as entered in the PICS/PIXIT entry. Perform test case 6.2.5.1.1.2, In_Next_6_Without_MAC, only if IUT does not offer a MAC for the LCT as entered in the PICS/PIXIT entry.

6.2.5.1.1.1 Case-ID:In_Next_6_With_MAC

Purpose: Verify that the IUT transmits HLS to indicate that its MAC is available for the LCT.

Test Setup: All configurations.

Procedure:

[1]+To_Next_5S /*Comment*/		
[2] !ILS		
[3] A:?ILS		
[4] Goto A		
[3] ?HLS		Pass
[3] ?Otherwise		Fail

Extended Comments:
IUT is in the Next State with n=6.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State with n=6 and ILS is transmitted. After a little while, PCM Pseudo Code is performed and HLS is signaled to indicate that its MAC is available for LCT. If the IUT does not transmit ILS or HLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.5.1.1.2 Case-ID: In_Next_6_Without_MAC

Purpose: Verify that the IUT transmits MLS to indicate that its MAC is not available for the LCT.

Test Setup: All configurations.

Procedure:

[1]+To_Next_5S /*Comment*/		
[2] !ILS		
[3] A:?ILS		
[4] Goto A		
[3] ?MLS		Pass
[3] ?Otherwise		Fail

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Extended Comments:
IUT is in the Next State with n=6.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State with n=6 and ILS is transmitted. After a little while, PCM Pseudo Code is performed and MLS is signaled to indicate that its MAC is not available for LCT. If the IUT does not transmit ILS or MLS then the IUT fails. (PC-44a, PC-44b, PC-45, Next_Actions, Signal_Actions)

6.2.5.1.2 Case-ID: Short_LCT_1

Purpose: Verify that the IUT performs the Short LCT with ILS, if neither IUT nor Tester has history of excessive link errors and PC_LCT_Fail = 0. (In this case, neither IUT nor Tester has a MAC available for the LCT)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+No_MAC_6S /*Comment(1)*/
[2]  !ILS Start TL_Min
[3]    A:?Timeout TL_Min /*Comment(2)*/
[4]     Start LC_Short
[5]       B:?Timeout LC_Short/*Comment(3)*/
[6]         C:?ILS
[7]          !ILS
[8]           Goto C
[6]         ?ALS
[7]          !Repeat /*See Note*/
[8]           Goto C
[6]         ?MLS                    Pass
[6]         ?HLS                    Inconclusive
[6]         ?Otherwise              Fail(3)
[5]       ?ILS
[6]        !ILS
[7]         Goto B
[5]       ?ALS
[6]        !Repeat
[7]         Goto B
[5]       ?Otherwise                Fail(2)
[3]   ?ILS
[4]    Goto A
[3]   ?Otherwise                    Fail(1)
```

Note: The !Repeat operation is the normal operation of PHY when it repeats symbols. PHY repeats symbols only when its input is in ALS. When the !Repeat statement is executed, the Tester transmits each symbol it receives while the input is in ALS until the input enters another state. Specifically, ALS begins with the symbol sequence JK, which is repeated. Following the JK any of the symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, T, R or S maintain the ALS and are repeated when received. The symbol pair JK, if received in the symbol sequence, also maintains ALS and is repeated. If an Idle symbol is received, ALS is terminated and the Idle is not repeated. If Halt, Quiet, any Violation symbol, a K symbol not preceded by a J symbol, or a J symbol not followed by a K are received, ALS is terminated, and the input is no longer repeated by the !Repeat operation, which then transmits four successive Halt symbols before terminating its operation.

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) The Receive Pseudo Code processing may start when the IUT stays in the Next State and ILS is received for at least TL_Min. (PC-44a, PC-44b)
(3) When the IUT performs Short LCT, ILS shall be sent for at least LC_Short. (PC-44b, PC-44c, PC-44d, PC_RCode(7)_Actions)

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Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS, ALS or LC_Short is not expired.
(3) IUT does not transmit ILS, ALS, MLS or HLS.

6.2.5.1.3 Case-ID: Short_LCT_2

Purpose: Verify that the IUT performs Short Link Confidence Test with PDUs, if there is no history of excessive link errors and PC_LCT_Fail = 0. (This case is performed only when the IUT has at least a MAC available for the LCT)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+IUT_MAC_6S        /*Comment(1)*/
[2]  !ILS Start T_Out /*Comment(2)*/
[3]    A:?Timeout T_Out              Fail(1)
[3]    ?ILS
[4]      Goto A
[3]    ?ALS    /*Comment(3)*/
[4]      Start LC_Short
[5]        !Repeat /*See Note*/
[6]          B:?Timeout LC_Short
[7]            C:?ALS
[8]              !Repeat
[9]                Goto C
[7]            ?ILS
[8]              !ILS
[9]                Goto C
[7]            ?MLS                  Pass
[7]            ?HLS                  Inconclusive
[7]            ?Otherwise            Fail(4)
[6]          ?ALS
[7]            !Repeat
[8]              Goto B
[6]          ?ILS
[7]            !ILS
[8]              Goto B
[6]          ?Otherwise              Fail(3)
[3]    ?Otherwise                    Fail(2)
```

Note: See note of 6.2.5.1.2.

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) Tester continuously transmits ILS and starts Timer T_Out. Because if n = 7, and the IUT remains in the Next State for longer than T_Out then the IUT fails. (Next_Errors)
(3) After ILS is received for at least TL_Min, the IUT must process PC_RCode(7)_Actions, sends out its PDUs (ALS) during the Link Confidence Test. (T_Val(6), PC_RCode(7)_Actions)

Reasons for Failure:
(1) The Link Confidence Test shall be performed after the IUT enters the Next State with n=7 and ILS is received for at least TL_Min but not longer than T_Out. (PC-44a, PC-44b, PC-44c, PC-41b)
(2) At the beginning of this procedure, the IUT is in the Next State, ILS is transmitted. After a little while, the IUT performs the Link Confidence Test, a sequence of PDU (ALS) is sent. If the IUT does not send ILS or ALS then the IUT fails.
(3) IUT must send PDUs (ALS) for at least LC_Short (default: 50 milliseconds). If the IUT does not send ILS or ALS within LC_Short then the IUT fails.
(4) IUT does not send ALS, ILS, MLS or HLS.

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6.2.5.1.4 Case-ID: Medium_LCT_1

Purpose: Verify that the IUT performs Medium LCT with ILS, when PC_LCT_Fail is greater than zero. (This case is performed only when neither IUT nor Tester has a MAC available for the LCT)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+No_MAC_6M /*Comment(1)*/
[2] !ILS Start TL_Min
[3]  A:?Timeout TL_Min /*Comment(2)*/
[4]   Start LC_Medium
[5]    B:?Timeout LC_Medium/*Comment(3)*/
[6]     C:?ILS
[7]      !ILS
[8]       Goto C
[6]     ?ALS
[7]      !Repeat /*See Note*/
[8]       Goto C
[6]     ?MLS                        Pass
[6]     ?HLS                        Inconclusive
[6]     ?Otherwise                  Fail(3)
[5]    ?ILS
[6]     !ILS
[7]      Goto B
[5]    ?ALS
[6]     !Repeat
[7]      Goto B
[5]    ?Otherwise                  Fail(2)
[3]  ?ILS
[4]   Goto A
[3]  ?Otherwise                    Fail(1)
```

Note: See note of 6.2.5.1.2.

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) The Received Pseudo Code is performed while the IUT stays in the Next State with ILS is received for at least TL_Min. (PC-44a, PC-44b)
(3) When the IUT performs Medium LCT, ILS shall be sent for at least LC_Medium. (PC-44b, PC-44c, PC-44d, PC_RCode(7)_Actions)

Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS, ALS or LC_Medium is not expired.
(3) IUT does not transmit ILS, ALS, MLS or HLS.

6.2.5.1.5 Case-ID: Medium_LCT_2

Purpose: Verify that the IUT performs Medium LCT with PDUs when PC_LCT_Fail is greater than zero. (This case is performed only when IUT has at least a MAC available for the LCT)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+IUT_MAC_6M /*Comment(1)*/
[2]  !ILS Start T_Out     /*Comment(2)*/
[3]    A:?Timeout T_Out              Fail(1)
[3]    ?ILS
[4]     Goto A
[3]    ?ALS    /*Comment(3)*/
[4]     Start LC_Medium
```

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```
[5]       !Repeat /*See Note*/
[6]         B:?Timeout LC_Medium
[7]           C:?ALS
[8]             !Repeat
[9]               Goto C
[7]           ?ILS
[8]             !ILS
[9]               Goto C
[7]           ?MLS                    Pass
[7]           ?HLS                    Inconclusive
[7]           ?Otherwise              Fail(4)
[6]         ?ALS
[7]           !Repeat
[8]             Goto B
[6]         ?ILS
[7]           !ILS
[8]             Goto B
[6]         ?Otherwise                Fail(3)
[3]   ?Otherwise                      Fail(2)
```

Note: See note of 6.2.5.1.2.

Extended Comments:
(1) This procedure is to test that the IUT performs the Medium LCT when PC_LCT_Fail is greater than zero. The function IUT_MAC_6M has included all the required steps from when the IUT was turned on, processed to the Link Confidence Test, restarted and went on until the Next State with n = 7. (Link Confidence Test Actions)
(2) IUT must not remain in the Next State for longer than T_Out. (PC-41b, PC-44a, PC-44b)
(3) IUT will transmit PDUs (ALS) in the Link
Confidence Test duration.

Reasons for Failure:
(1) The Link Confidence Test shall be performed after IUT enters the Next State with n=7 and ILS is received for at least TL_Min but not longer than T_Out. (PC-41b, PC-44a, PC-44b)
(2) At the beginning of this procedure, the IUT is in the Next State, ILS is transmitted. After a little while, the IUT performs the Link Confidence Test, PDUs (ALS) are transmitted. If the IUT does not transmit ALS or ILS then the IUT fails.
(3) IUT must perform the Link Confidence Test for at least LC_Medium, if the IUT does not transmit ALS, ILS or LC_Medium is not expired then the IUT fails.
(4) IUT does not transmit ILS, ALS, MLS or HLS.

6.2.5.1.6 Case-ID: Long_LCT_1

Purpose: Verify that the IUT performs the Long LCT with ILS while a link has been rejected due to an excessive Link Error Rate. (This case is performed only when neither IUT nor Tester has a MAC available for the LCT).

Test Setup: All configurations except M to M.

Procedure:

```
[1]+No_MAC_6L /*Comment(1)*/
[2]  !ILS Start TL_Min
[3]    A:?Timeout TL_Min /*Comment(2)*/
[4]      Start LC_Long
[5]        B:?Timeout LC_Long /*Comment(3)*/
[6]          C:?ILS
[7]           !ILS
[8]             Goto C
[6]         ?ALS
[7]           !Repeat /*See Note*/
[8]             Goto C
[6]         ?MLS                      Pass
```

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```
[6]       ?HLS                    Inconclusive
[6]       ?Otherwise              Fail(3)
[5]     ?ILS
[6]       !ILS
[7]       Goto B
[5]     ?ALS
[6]       !Repeat
[7]       Goto B
[5]     ?Otherwise                Fail(2)
[3]   ?ILS
[4]     Goto A
[3]   ?Otherwise                  Fail(1)
```

Note: See note 6.2.5.1.2.

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) The Received Pseudo Code is performed while IUT stays in the Next State with ILS is received for at least TL_Min. (PC-44a, PC-44b)
(3) When the IUT performs Long LCT, ILS shall be sent for at least LC_Long. (PC-44b, PC-44c, PC-44d, PC_RCode(7)_Actions)

Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS, ALS or LC_Long is not expired.
(3) IUT does not transmit ILS, ALS, MLS or HLS.

6.2.5.1.7 Case-ID: Long_LCT_2

Purpose: Verify that the IUT performs the Long LCT with PDUs when a link has been rejected due to an excessive Link Error Rate. (This case is performed only when IUT has at least a MAC available for the LCT)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+IUT_MAC_6L /*Comment(1)*/
[2]  !ILS Start T_Out /*Comment(2)*/
[3]    A:?Timeout T_Out           Fail(1)
[3]    ?ILS
[4]      Goto A
[3]    ?ALS /*Comment(3)*/
[4]      Start LC_Long
[5]        !Repeat /*See Note*/
[6]          B:?Timeout LC_Long
[7]            C:?ALS
[8]              !Repeat
[9]                Goto C
[7]            ?ILS
[8]              !ILS
[9]                Goto C
[7]            ?MLS                Pass
[7]            ?HLS                Inconclusive
[7]            ?Otherwise          Fail(4)
[6]          ?ALS
[7]            !Repeat
[8]              Goto B
[6]          ?ILS
[7]            !ILS
[8]              Goto B
[6]          ?Otherwise            Fail(3)
[3]    ?Otherwise                  Fail(2)
```

Note: See note of 6.2.5.1.2.

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Extended Comments:
(1) This procedure is to test that the IUT performs the Long LCT when the link has been rejected due to an excessive Link Error Rate. The function IUT_MAC_6L has included all the steps from when the IUT was turned on, processed to the Active State, restarted when an excessive Link Error Rate was occurred and went on until the Next State with n=7.
(2) IUT must not remain in the Next State for longer than T_Out. (PC-41b, PC-44a, PC-44b)
(3) IUT will transmit PDUs (ALS) in the Link Confidence Test procedure.

Reasons for Failure:
(1) The Link Confidence Test must be performed after the IUT enters the Next State with n=7 and ILS is received for at least TL_Min but not longer than T_Out. (PC-41b, PC-44a, PC-44b)
(2) At the beginning of this procedure, the IUT is in the Next State, ILS is transmitted. After a little while, IUT performs the Link Confidence Test, PDUs (ALS) are transmitted. If the IUT does not transmit ALS or ILS then the IUT fails.
(3) IUT must perform the Link Confidence Test for at least LC_Long, if the IUT does not transmit ALS, ILS or LC_Long is not expired then the IUT fails.
(4) IUT does not transmit ILS, MLS, ALS or HLS.

6.2.5.1.8 Case-ID: Extended_LCT_1

Purpose: Verify that the IUT performs the Extended LCT with ILS and signals MLS to indicate the test is passed. (This case is used when neither IUT nor Tester has a MAC available for the LCT.)

Test Setup: M to M.

Procedure:

```
[1]+No_MAC_6E
[2]  !ILS Start TL_Min
[3]   A:?Timeout TL_Min
[4]    Start LC_Extended
[5]     B:?Timeout LC_Extended
[6]      C:?ILS
[7]       !ILS
[8]        Goto C
[6]      ?ALS
[7]       !Repeat /*See Note*/
[8]        Goto C
[6]      ?MLS                        Pass
[6]      ?HLSInconclusive
[6]      ?Otherwise                  Fail(3)
[5]     ?ILS
[6]      !ILS
[7]       Goto B
[5]     ?ALS
[6]      !Repeat
[7]       Goto B
[5]     ?Otherwise                  Fail(2)
[3]   ?ILS
[4]    Goto A
[3]   ?Otherwise                    Fail(1)
```

Note: See note of 6.2.5.1.2.

Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS, ALS or LC_Extended is not expired.
(3) IUT does not transmit ILS, ALS, MLS or HLS.

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6.2.5.1.9 Case-ID: Extended_LCT_2

Purpose: Verify that the IUT performs Extended Link Confidence Test with PDUs and signals MLS to indicate the LCT test is passed. (This case is performed only when IUT has at least a MAC available for the LCT)

Test Setup: M to M.

Procedure:

```
[1]+IUT_MAC_6E
[2] !ILS Start T_Out
[3]  A:?Timeout T_Out                Fail(1)
[3]  ?ILS
[4]   Goto A
[3]  ?ALS
[4]   Start LC_Extended
[5]    !Repeat /*See Note*/
[6]     B:?Timeout LC_Extended
[7]      C:?ILS
[8]       !ILS
[9]        Goto C
[7]      ?ALS
[8]       !Repeat
[9]        Goto C
[7]      ?MLS                        Pass
[7]      ?HLS                        Inconclusive
[7]      ?Otherwise                  Fail(4)
[6]     ?ALS
[7]      !Repeat
[8]       Goto B
[6]     ?ILS
[7]      !ILS
[8]       Goto B
[6]     ?Otherwise                   Fail(3)
[3]  ?Otherwise                      Fail(2)
```

Note: See note of 6.2.5.1.2.

Reasons of Failure:
(1) The Link Confidence Test shall be performed after the IUT enters the Next State with n=7 and ILS is received for at least TL_Min but not longer than T_Out.
(2) At the beginning of this state, the IUT is in the Next State, ILS is transmitted. After a little while, the IUT performs Link Confidence Test, a sequence of PDUs (ALS) is sent. If the IUT does not send ILS or ALS then the IUT fails.
(3) IUT must send PDUs (ALS) for at least LC_Extended, if the IUT does not send ILS, ALS or LC_-Extended is not expired then the IUT fails.
(4) IUT does not transmit ILS, ALS, MLS or HLS.

6.2.5.2 Abnormal Case (Test Failed):

6.2.5.2.1 Case-ID: LCT_Fail_1

Purpose: Verify that the IUT performs Short LCT with ERR and transmits HLS to indicate the LCT fail. (This case is performed only when neither IUT nor Tester has a MAC available for the LCT.)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+No_MAC_6S          /*Comment(1)*/
[2]  !ILS Start TL_Min
[3]    A:?Timeout TL_Min /*Comment(2)*/
[4]     !ERR Start LC_Short, LC_Long
          /*Comment(3)*/
[5]       B:?Timeout LC_Short
```

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```
[6]        C:?Timeout LC_Long          Fail(3)
[6]        ?ILS
[7]          Goto C
[6]        ?ALS
[7]          Goto C
[6]        ?HLS                        Pass
[6]        ?Otherwise                  Fail(4)
[5]      ?ILS
[6]        Goto B
[5]      ?ALS
[6]        Goto B
[5]      ?Otherwise                    Fail(2)
[3]   ?ILS
[4]     Goto A
[3]   ?Otherwise                       Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) The Receive Pseudo Code processing may start when the IUT stays in the Next State and receives ILS for at least TL_Min. (PC-44a, PC-44b)
(3) Tester continuously transmits Error Line State for the LCT.

Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS or LC_Short is not expired.
(3) IUT shall not perform Short LCT longer than LC_Long.
(4) IUT does not transmit ILS, HLS or LC_Long is not expired.

6.2.5.2.2 Case-ID: LCT_Fail_2

Purpose: Verify that the Tester performs the Link Confidence Test with BADPDUs, the IUT must signal HLS to indicate the LCT fail. (This case is performed only when the IUT has at least a MAC available for the LCT.)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+IUT_MAC_6S /*Comment(1)*/
[2]  !ILS Start TL_Min /*Comment(2)*/
[3]   A:?ILS
[4]     Goto A
[3]   ?Timeout TL_Min
[4]     !ILS
[5]       B:?ILS
[6]         Goto B
[5]       ?ALS /*Comment(3)*/
[6]         Start LC_Short, LC_Long
[7]           !BADPDU /*Comment(4)*/
[8]             C:?Timeout LC_Short
[9]               D:?Timeout LC_Long      Fail(4)
[9]             ?ALS
[10]              !BADPDU
[11]                Goto D
[9]             ?ILS
[10]              !ILS /*Comment(5)*/
[11]                Goto D
[9]             ?HLS                      Pass
[9]             ?Otherwise                Fail(5)
[8]           ?ALS
[9]             !BADPDU
[10]              Goto C
[8]           ?ILS
```

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```
[9]              !ILS
[10]               Goto C
[8]            ?Otherwise                    Fail(3)
[5]         ?Otherwise                       Fail(2)
[3]    ?Otherwise                            Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n = 7.
(2) The Receive Pseudo Code processing may start when the IUT received ILS for at least TL_Min in the Next State.
(3) IUT transmits PDUs (ALS) for the Duration of the LCT.
(4) Tester changes the FCS of IUT's frame to be the incorrect FCS. (In this case, the Tester shall prepare a bad FCS pattern in the buffer in order to use later. It repeats every symbol received from IUT until the reception of FCS. If the FCS is received, the Tester transmits the bad FCS pattern instead of repeating IUT's FCS, then the End Delimiter and the Frame Status are repeated.)

Reasons for Failure:
(1) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS, ALS.
(3) IUT does not transmit ILS, ALS or LC_Short is not expired.
(4) IUT performs Short LCT for longer than LC_Long.
(5) IUT does not transmit ILS, ALS, HLS or LC_Long is not expired.

6.2.5.2.3 Case-ID: Restart_LCT_Fail1

Purpose: Verify that the IUT goes to the Break State and transmits QLS when the Link Error Rate is greater than LER_Cutoff. (This case is performed only when neither IUT nor Tester has a MAC for the LCT.)

Test Setup: All configurations except M to M.

Procedure:

```
[1]+To_Next7_ERR /*Comment(1)*/
[2]  !HLS /*Comment(2)*/
[3]    A:?HLS
[4]      Goto A
[3]    ?ILS
[4]      !ILS Start T_Out
[5]        B:?Timeout T_Out          Fail(2)
[5]        ?ILS
[6]          Goto B
[5]        ?QLS                      Pass
[5]        ?Otherwise                Fail(3)
[3]    ?Otherwise                    Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) Tester transmits HLS indicating the LCT Fail. (PC_TCode(7)_Actions)

Reasons for Failure:
(1) IUT does not transmit HLS or ILS.
(2) IUT does not enter the Break State within T_Out. (PC_RCode(8)_Actions, PC-51b)
(3) IUT does not transmit ILS, QLS or T_Out is not expired.

6.2.5.2.4 Case-ID: Restart_LCT_Fail2

Purpose: Verify that the IUT goes to the Break State and transmits QLS when the Link Error Rate is greater than LER_Cutoff. (This case is performed only when the IUT has at least a MAC available for the LCT).

Test Setup: All configurations except M to M.

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Procedure:

```
[1]+To_Next7_BADPDU
[2]  !HLS
[3]    A:?HLS
[4]      Goto A
[3]    ?ILS
[4]      !ILS Start T_Out
[5]        B:?Timeout T_Out              Fail(2)
[5]        ?ILS
[6]          Goto B
[5]        ?QLS                          Pass
[6]        ?Otherwise                    Fail(3)
[3]    ?Otherwise                        Fail(1)
```

Reasons for Failure:
(1) IUT does not transmit HLS or ILS.
(2) IUT does not enter the Break State within T_Out.
(3) IUT does not transmit ILS, QLS or T_Out is not expired.

6.2.6 MAC Local Loop Tests

6.2.6.1 Case-ID: In_Next_8

Purpose: Verify that the IUT will transmit HLS to indicate its MAC is available for the MAC Local Loop or MLS to indicate that its MAC is not available for the Local Loop.

Test Setup: All configurations.

Procedure:

```
[1]+To_Next_7 /*Comment*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS                              Pass
[3]    ?MLS                              Pass
[3]    ?Otherwise                        Fail
```

Extended Comments:
IUT is in the Next State with n=8.

Reasons for Failure:
At the beginning of this procedure, the IUT is in the Next State while ILS is transmitted continuously. After a little while, the IUT changes to the Signal State, an HLS is transmitted to indicate its MAC is available, or a MLS is transmitted to indicate its MAC is not available. If the IUT does not transmit ILS, HLS or MLS then the IUT fails.

6.2.6.2 Case-ID: MAC_LocalLoop_Next9

Purpose: Verify that the IUT performs the Local Loop using PDUs and transmits HLS to indicate its MAC output is to be connected to PHY in PCM (CFM) Active State.

Note: This case is performed only if the IUT places a MAC on the output port for Local Loop testing.

Test Setup: All configurations.

Procedure:

```
[1]+To_Next_8 /*Comment(1)*/
[2]  !ILS Start T_Out /*Comment(2)*/
[3]    A:?Timeout T_Out                Fail(2)
[3]    ?ILS
[4]      Goto A
[3]    ?ALS /*Comment(3)*/
[4]      Start T_Next_9 /*Comment(4)*/
[5]        !Repeat /*Note*/
```

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```
[6]       B:?Timeout T_Next_9
[7]         C:?ILS /*Comment(5)*/
[8]           !ILS
[9]             Goto C
[7]         ?ALS /*Comment(5)*/
[8]           !Repeat
[9]             Goto C
[7]         ?HLS                        Pass
[7]         ?Otherwise                  Fail(4)
[6]       ?ILS
[7]         !ILS
[8]           Goto B
[6]       ?ALS
[7]         !Repeat
[8]           Goto B
[6]       ?Otherwise                    Fail(3)
[3]   ?Otherwise                        Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n=9.
(2) Tester starts a timer T_Out to make sure that the IUT performs the Local Loop within T_Out.
(3) IUT performs the Local Loop using PDUs. (ALS)
(4) IUT must perform the Local Loop for at least T_Next_9. (T_Next(9), PC-44d)
(5) After T_Next(9), the IUT may either perform Local Loop or signal HLS to indicate its MAC output will connect to PHY in PCM (CFM) Active State.

Note: At this point, the tester repeats any PDUs (ALS) received from the IUT for the Local Loop test. The Loopback ends when the IUT signals HLS or MLS.

Reasons for Failure:
(1) At the beginning of this procedure, the IUT is in the Next State, a sequence of ILS is transmitted. After a little while, the IUT performs the Local Loop, PDUs (ALS) are transmitted, if the IUT does not transmit ILS or ALS then the IUT fails.
(2) IUT remains in the Next State for longer than T_Out.
(3) IUT performs the Local Loop, PDUs are transmitted. If the Tester does not receive ILS (preamble), ALS (from the Start Delimiter of the frame until the End Delimiter of the frame), or T_Next_9 is not expired, then the IUT fails.
(4) After the IUT performs Local Loop for T_Next_9, it may perform either the Local Loop (transmit ILS, ALS) or signal HLS. If the IUT does not transmit ILS, ALS or HLS then the IUT fails.

6.2.6.3 Case-ID: No_MAC_LocalLoop_Next9

Purpose: Verify that the IUT performs the Local Loop Test when it doesn't have a MAC available for the Local Loop Test and the Tester does have a MAC available by repeating packets sent by the Tester during the LocalLoop Test.
Note: This case is performed only if the IUT does not places a MAC on the output port for Local Loop Testing.

Test Setup: All configurations except M to M.

Procedure:

```
[1]+To_Next8_N /*Comment(1)*/
[2]  !ILS Start TL_Min /*Comment(2)*/
[3]    A:?Timeout TL_Min
[4]     !Packet Start T_Next_9
              /*Comment(3)*/
[5]       B:?ALS /*Comment(4)*/
[6]         Goto B
[5]       ?ILS
[6]         Goto B
[5]       ?Timeout T_Next_9
[6]         C:?ILS
[7]           Goto C
```

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```
[6]       ?ALS
[7]         Goto C
[6]       ?MLS                    Pass
[6]       ?Otherwise              Fail(3)
[5]     ?Otherwise                Fail(2)
[3]   ?ILS
[4]     Goto A
[3]   ?Otherwise                  Fail(1)
```

Extended Comments:
(1) IUT is in the Next State with n=9 and has signaled that it does not have a MAC available for Local Loop Test.
(2) Tester starts a timer TL_Min to ensure that it sends ILS for the minimum required time.
(3) Tester starts a timer T_Next_9 to ensure that the IUT loops back the packet it received for at least T_Next_9. (T_Next(9))
(4) IUT is now repeating the Tester's packet.

Reasons for failure:
(1) IUT does not transmit ILS, or TL_Min is not timeout.
(2) IUT does not transmit ILS, ALS or T_Next_9 is not timeout.
(3) IUT does not transmit ILS, MLS or ALS.

6.2.6.4 Case-ID: Restart_Illegal_Connection1

Purpose: Verify that the IUT will enter the Break State and transmits QLS after Local Loop due to the illegal connection (Port M to Port M).

Note: This case is performed only when the IUT has at least a MAC available.

Test Setup: M to M.

Procedure:

```
[1]+To_Next_8E
[2]  !ILS Start T_Out
[3]   A:?Timeout T_Out            Fail(2)
[3]   ?ILS
[4]     Goto A
[3]   ?ALS
[4]     Start T_Next_9
[5]       !Repeat
[6]         B:?Timeout T_Next_9
[7]           C:?ILS
[8]             !ILS
[9]               Goto C
[7]           ?ALS
[8]             !Repeat
[9]               Goto C
[7]           ?QLS                Pass
[5]           ?Otherwise          Fail(4)
[6]         ?ILS
[7]           !ILS
[8]             Goto B
[6]         ?ALS
[7]           !Repeat
[8]             Goto B
[6]         ?Otherwise            Fail(3)
[3]   ?Otherwise                  Fail(1)
```

Reasons for Failure:
(1) IUT does not transmit ILS, ALS or T_Out is not expired.
(2) IUT remains in the Next State for longer than T_Out.
(3) IUT does not transmit ILS, ALS or T_Next_9 is not expired.
(4) IUT does not transmit ILS, ALS or QLS.

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6.2.7 Join to Active Tests

6.2.7.1 Case-ID: To_Join

Purpose: Verify that the IUT remains in the Join State for TL_Min but not longer than T_Out.

Test Setup: All Configurations.

Procedure:
[1]+IN_Join /*Comment(1)*/
[2] !HLS Start T_Out, Start TL_Min /*Comment(2)/
[3] A:?Timeout TL_Min
[4] B:?Timeout T_Out Fail(2)
[4] ?HLS
[5] Goto B
[4] ?MLS Pass
[4] ?Otherwise Fail(3)
[3] ?HLS
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Join State.
(2) Tester transmits HLS and starts timers TL_Min and T_Out to figure out that the IUT remains in the Join State for at least TL_Min but not longer than T_out. (PC-67, Join_Error)

Reasons for Failure:
(1) IUT does not transmit HLS or TL_Min is not expired.
(2) IUT remains in the Join State for longer than T_Out. (PC-61b)
(3) IUT does not transmit HLS, MLS or T_Out is not expired.

6.2.7.2 Case-ID: Join_Error1

Purpose: Verify that the IUT enters the Break State if HLS has not been received for a period T_Out since it entered the Join State.

Test Setup: All Configurations.

Procedure:
[1]+IN_Join /*Comment(1)*/
[2] !MLS Start T_Out /*Comment(2)*/
[3] A:?Timeout T_Out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?HLS /*Comment(3)*/
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Join State.
(2) Tester transmits wrong Line State (MLS) to force IUT to enter the Break State (PC-61b, Join_Error).
(3) IUT transmits HLS while in the Join State.

Reasons for Failure:
(1) IUT does not transmit HLS or T_Out is not expired.
(2) IUT does not transmit QLS. (PC-61b)

6.2.7.3 Case-ID: Join_Error2

Purpose: Verify that the IUT enters the Break State when QLS is received in the Join State.

Test Setup: All Configurations.

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Procedure:
[1]+IN_Join /*Comment(1)*/
[2] !QLS Start PC_React /*Comment(2)*/
[3] A:?Timeout PC_React Fail(2)
[3] ?HLS
[4] Goto A
[4] ?QLS Pass
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Join State.
(2) Tester transmits Quiet Line State to force IUT to enter the Break State. (PC-61b)

Reasons for Failure:
(1) IUT does not transmit HLS,QLS or PC_React is not expired.
(2) IUT does not enter the Break State when QLS is received for longer than PC_React. (PC-61b)

6.2.7.4 Case-ID: Join_Error3

Purpose: Verify that the IUT enters the Break State when it remains in the Join State for longer than T_Out.

Test Setup: All Configurations.

Procedure:
[1]+IN_Join /*Comment(1)*/
[2] Start T_Out
[3] A:?Timeout T_out /*Comment(2)*/
[4] B:?HLS
[5] Goto B
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?HLS
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Join State.
(2) IUT remains in the Join State for T_Out.

Reason for Failure:
(1) IUT does not transmit HLS or T_out is not expired.
(2) IUT does not transmit QLS or HLS.

6.2.7.5 Case-ID: To_Verify

Purpose: Verify that the IUT remains in the Verify State for at least TL_Min but not longer than T_Out.

Test Setup: All Configurations.

Procedure:
[1]+IN_Verify /*Comment(1)*/
[2] !MLS Start T_Out, Start TL_Min
[3] A:?Timeout TL_Min /*Comment(2)*/
[4] B:?Timeout T_Out Fail(2)
[4] ?MLS
[5] Goto B
[4] ?ILS Pass
[4] ?Otherwise Fail(3)
[3] ?MLS /*Comment(3)*/
[4] Goto A
[3] ?Otherwise Fail(1)

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Extended Comments:
(1) IUT is in the Verify State.
(2) IUT must remain in the Verify State for at least TL_Min but not longer than T_Out. (PC-78)
(3) IUT transmits MLS while in the Verify State.(Verify_Actions)

Reasons for Failure:
(1) IUT does not transmit MLS or TL_Min is not expired.
(2) IUT remains in the Verify State for longer than T_Out. (PC-71b)
(3) IUT does not transmit MLS, ILS or T_Out is not expired.

6.2.7.6 Case-ID: Verify_Error1

Purpose: Verify that the IUT enters the Break State due to MLS has not been received for a period T_Out since it entered the Verify State.

Test Setup: All Configurations.

Procedure:
[1]+IN_Verify /*Comment(1)*/
[2] !ILS Start T_Out /*Comment(2)*/
[3] A:?Timeout T_Out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?MLS /*Comment(3)*/
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Verify State.
(2) Tester transmits wrong Line State (ILS) and starts a timer T_Out to figure out that the IUT will enter the Break State after T_Out. (PC-77, PC-71b)
(3) IUT transmits MLS while in the Verify State. (Verify_Actions)

Reasons for Failure:
(1) IUT does not transmit MLS or T_Out is not expired.
(2) IUT does not transmit QLS. (PC-71b)

6.2.7.7 Case-ID: Verify_Error2

Purpose: Verify that the IUT enters the Break State when QLS is received in the Verify State.

Test Setup: All Configurations.

Procedure:
[1]+IN_Verify /*Comment(1)*/
[2] !QLS Start PC_React /*Comment(2)*/
[3] A:?Timeout PC_React Fail(1)
[4] ?QLS Pass
[3] ?MLS
[4] Goto A
[3] ?Otherwise Fail(2)

Extended Comments:
(1) IUT is in the Verify State.
(2) IUT must enter the Break State while QLS is received within PC_React.

Reasons for Failure:
(1) IUT does not enter the Break State after QLS is received for PC_React. (PC-71b).
(2) IUT does not transmit QLS, MLS or PC_React is not expired.

6.2.7.8 Case-ID: Verify_Error3

Purpose: Verify that the IUT enters the Break state when HLS is received in the Verify state.

Test Setup: All Configurations.

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Procedure:
[1]+IN_Verify /*Comment(1)*/
[2] !HLS Start T_Out /*Comment(2)*/
[3] A:?Timeout T_Out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?MLS /*Comment(3)*/
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Verify state.
(2) Tester transmits wrong Line State (HLS) and starts a timer T_Out to figure out that the IUT will enter the Break state after T_Out. (PC-77, PC-71b)
(3) IUT transmits MLS while in the Verify state. (Verify_Actions)

Reason for Failure:
(1) IUT does not transmit MLS or T_Out is not expired.
(2) IUT does not transmit QLS. (PC-71b)

6.2.7.9 Case-ID: To_Active

Purpose: Verify that the IUT transmits ALS after ILS has been transmitted for a sufficient time in the Active State.

Test Setup: All Configuratins.

Procedure:
[1]+IN_Active /*Comment(1)*/
[2] !ILS Start TL_Min /*Comment(2)*/
[3] A:?Timeout TL_Min
[4] B:?ILS
[5] Goto B
[4] ?ALS Pass
[4] ?Otherwise Fail(2)
[3] ?ILS
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Active State.
(2) Tester transmits ILS and starts a timer TL_Min. (PC-88a, PC-88b)

Reasons for Failure:
(2) IUT does not transmit ILS or TL_Min is not expired.
(2) IUT does not transmit ILS or ALS in the Active State. (Active_Actions, PC-88a, PC-88b)

6.2.7.10 Case-ID: Active_Error1

Purpose: Verify that the IUT enters the Break State since HLS has been received for longer than T_Out in the Active State.

Test Setup: All Configurations.

Procedure:
[1]+IN_Active /*Comment(1)*/
[2] !HLS Start T_Out /*Comment(2)*/
[3] A:?Timeout T_out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?ILS
[4] Goto A
[3] ?ALS
[4] Goto A
[3] ?Otherwise Fail(1)

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Extended Comments:
(1) IUT is in the Active State.
(2) Tester transmits wrong Line State (HLS) for T_Out to force IUT to enter the Break State. (PC-81b)

Reasons for Failure:
(1) IUT does not transmit ILS, ALS or T_Out is not expired.
(2) IUT does not transmit QLS.

6.2.7.11 Case-ID: Active_Error2

Purpose: Verify that the IUT enters the Break State from the Active State while the Link Error Rate is greater than LER_Cutoff.

Test Setup: All Configurations.

Procedure:
[1]+IN_Active /*Comment(1)*/
[2] !ERR Start T_Out /*Comment(2)*/
[3] A:?Timeout T_Out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?ILS
[4] Goto A
[3] ?ALS
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Active State.
(2) Tester transmits Error Line State for T_Out to force the IUT to enter the Break State. (PC-81b)

Reasons for Failure:
(1) IUT does not transmit ILS, ALS or T_Out is not expired.
(2) IUT does not enter the Break State when ERR is received and the Link Error Rate is greater than LER_Cutoff for longer than T_Out. (PC-81b)

6.2.7.12 Case-ID: Active_Error3

Purpose: Verify that the IUT enters the Break state since QLS has been received for longer than T_Out in the Active state.

Test Setup: All configurations.

Procedure:
[1]+IN_Active /*Comment(1)*/
[2] !QLS Start T_Out /*Comment(2)*/
[3] A:?Timeout T_out
[4] ?QLS Pass
[4] ?Otherwise Fail(2)
[3] ?ILS
[4] Goto A
[3] ?ALS
[4] Goto A
[3] ?Otherwise Fail(1)

Extended Comments:
(1) IUT is in the Active state.
(2) Tester transmits wrong Line State (QLS) for T_Out to force IUT to enter the Break state. (PC-81b)

Reason for Failure:
(1) IUT does not transmit ILS, ALS or T_Out is not expired.
(2) IUT does not transmit QLS.

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6.3 Subroutines used for internal function call:

6.3.1 Init

Purpose: This routine starts with the IUT in an unknown State, brings it to the Break State, progresses it to be in the Next State, then returns it to the Break State. When the routine completes, the IUT has just entered the Break State.

Procedure:

```
[1] !QLS
[2]  A:?QLS /*Comment(1)*/
[3]   Goto A
[2]  ?HLS /*Comment(2)*/
[3]   !HLS /*Comment(3)*/
[4]    B:?HLS
[5]     Goto B
[4]    ?ILS /*Comment(4)*/
[5]     !QLS Start PC_React /*Comment(5)*/
[6]      C:?Timeout PC_React   Inconclusive(3)
[6]      ?ILS
[7]       Goto C
[6]      ?QLS /*Comment(6)*/
[6]      ?Otherwise            Inconclusive(4)
[4]    ?Otherwise              Inconclusive(2)
[2]  ?Otherwise                Inconclusive(1)
```

Extended Comments:
(1) IUT may stay in the Break State or the Off State.
(2) IUT enters the Connect State and transmits HLS. (PC-13, PC-33)
(3) Tester keeps transmitting HLS.
(4) IUT enters the Next State and transmits ILS. (PC-34)
(5) Tester transmits Quiet Line State when the IUT is in the Next State to force IUT to enter the Break State. (PC-41b)
(6) IUT ends with entering the Break State and transmitting Quiet Line State.

6.3.2 Start_To_Connect

Purpose: This procedure begins with the IUT in any state and ends with the entry of the IUT into the Connect State while the tester is sending QLS.

Procedure:

```
[1]!QLS Start TB_Min
[2]  B?Timeout TB_Min
[3]   A:?QLS
[4]    Goto A
[3]   ?HLS /*Comment*/
[3]   ?Otherwise              Inconclusive(2)
[2]  ?QLS
[3]   Goto B
[2]  ?Otherwise               Inconclusive(1)
```

Extended Comments: IUT ends in the Connect State and transmits HLS. (PC-13, PC-33)

6.3.3 Start_To_Next

Purpose: This procedure begins with the IUT in the Connect State and ends with the entry of the IUT into the Next State while the tester is sending HLS.

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Procedure:
[1]+Start_To_Connect /*Comment(1)*/
[2] !HLS
[3] A:?HLS /*Comment(2)*/
[4] Goto A
[3] ?ILS /*Comment(3)*/
[3] ?Otherwise Inconclusive

Extended Comments:
(1) IUT is in the Connect State.
(2) IUT stays in the Connect State.
(3) IUT ends in the Next State and transmits ILS. (PC-34)

6.3.4 To_Next_0

Purpose: This procedure begins when the IUT enters the Next State from the Connect State (n=0), goes through the Signal State and ends in the Next State with n=1.

Procedure:
[1]+Start_To_Next /*Comment(1)*/
[2] !ILS
[3] A:?ILS /*Comment(2)*/
[4] Goto A
[3] ?MLS /*Comment(3)*/
[4] !MLS
[5] B:?MLS /*Comment(4)*/
[6] Goto B
[5] ?ILS /*Comment(5)*/
[5] ?Otherwise Inconclusive(2)
[3] ?Otherwise Inconclusive(1)

Extended Comments:
(1) IUT is in the Next State.
(2) Tester waits for the IUT to perform PCM Pseudo Code with n=0. (PC-44a, PC-44b, PC_R-Code(0)_Actions)
(3) IUT enters the Signal State and transmit MLS. (T_Val(0), PC-45)
(4) Tester waits for the IUT to go back to the Next State from Signal State. (PC-55b)
(5) IUT ends in the Next State with n=1. (PC-54)

6.3.5 To_Next_1

Purpose: This procedure begins when the IUT enters the Next State with n=1, indicates its port type, and ends in the Next State with n=2.

Note: This procedure is used for all of the connections except port M to port M when n=1.

Procedure:
[1]+To_Next_0 /*Comment(1)*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?MLS
[4] !Port_Type /*Comment(2)*/
[5] B:?MLS
[6] Goto B
[5] ?ILS /*Comment(3)*/
[5] ?Otherwise Inconclusive(2)
[3] ?HLS
[4] !Port_Type /*Comment(2)*/
[5] C:?HLS
[6] Goto C
[5] ?ILS /*Comment(3)*/
[5] ?Otherwise Inconclusive(3)
[3] ?Otherwise Inconclusive(1)

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Extended Comments:
(1) IUT is in the Next State with n=1.
(2) Port_Type is the Line State which is transmitted continuously by the Tester in order to show the Tester's port type. If the Tester's port type is A or B, then MLS shall be transmitted here, otherwise, HLS shall be transmitted here.
(3) IUT ends in the Next State with n=2.

6.3.5.1 To_Next_1W

Purpose: This procdure begins as the IUT enters the Next State with n=1 and ends with n=2.

Note: This procedure is called by the connection of port A to port M or port B to port M.

Procedure:
```
[1]+To_Next_0
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(1)*/
[4]      !HLS /*Comment(2)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise                Inconclusive(2)
[3]    ?Otherwise                    Inconclusive(1)
```

Extended Comments:
(1) IUT transmits MLS to indicate its port type is A or B. (T_Val(1))
(2) Tester transmits HLS to indicate its port type is M or S. (T_Val(1))
(3) IUT ends in the Next State with n=2. (PC-54)

6.3.5.2 To_Next_1I

Purpose: This procedure begins when the IUT enters the Next State with n=1 and ends with n=2.

Note: This procedure is called by the connection of port M to port M only.

Procedure:
```
[1]+To_Next_0
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(1)*/
[4]      !HLS /*Comment(2)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS
[5]        ?Otherwise                Inconclusive(2)
[3]    ?Otherwise                    Inconclusive(1)
```

Extended Comments:
(1) IUT transmits HLS to indicate its port type is M or S. (T_Val(1))
(2) Tester transmits HLS to indicate its port type is M or S. (T_Val(1))
(3) IUT ends in the Next State with n=2.

6.3.6 To_Next_2

Purpose: This procedure begins when the IUT enters the Next State with n=2, signals the second PC_Type bit and ends with the IUT in the Next State with n=3.
Note: This procedure is called by all of the configurations except for port M to port M.

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Procedure:

```
[1]+To_Next_1
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS
[4]      !Port_Type /*Comment(1)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(2)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?HLS
[4]      !Port_Type /*Comment(1)*/
[5]        C:?HLS
[6]          Goto C
[5]        ?ILS /*Comment(2)*/
[5]        ?Otherwise              Inconclusive(3)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) At this point, if the Tester's port type is A or S then MLS shall be transmitted; if the Tester's port type is B or M then HLS shall be transmitted.
(2) IUT ends in the Next State with n=3.

6.3.6.1 To_Next_2W

Purpose: This procedure begins when the IUT enters Next State with n=2 and ends with n=3.
Note: This procedure is called by the configuration of port A to port M or port B to port M.

Procedure:

```
[1]+To_Next_1W
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(1)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?HLS /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        C:?HLS
[6]          Goto C
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise              Inconclusive(3)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT transmits MLS to indicate its port type is A(IUT has transmited MLS when n=1). (T_Val(2))
(2) IUT transmits HLS to indicate its port type is B (IUT has transmitted MLS when n=1). (T_Val(2))
(3) Tester transmits HLS to indicate its port type is M. (Tester has transmited HLS when n=1) (T_Val-(2))
(4) IUT ends in the Next State with n=3. (PC-54)

6.3.6.2 To_Next_2I

Purpose: This procedure begins when the IUT enters the Next State with n=2 and ends with n=3.
Note: This procedure is used for the connection of M port to M port only.

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Procedure:

```
[1]+To_Next_1I
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(1)*/
[4]      !HLS /*Comment(2)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT transmits HLS to indicate its port type is M. (IUT has transmitted HLS when n=1). (T_Val(2))
(2) Tester transmits HLS to indicate its port type is M. (Tester has transmitted HLS when n=1). (T_Val(2))
(3) IUT ends in the Next State with n=3. (PC-54)

6.3.7 To_Next_3

Purpose: This procedure begins when the IUT enters the Next State (n=3), checks its connection policy and ends in the Next State with n=4.

Procedure:

```
[1]+To_Next_2 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=3.
(2) (IUT checks the Tester's Port type according to the values from the Tester's R_Val(1) and R_Val(2) bits and decides the connection policy is valid. (PC_RCode(3)_Actions, PC_TCode(3)_Actions)
(3) Tester transmits HLS to indicate the Valid Connection, IUT must memorize this information in order to use it later.
(4) IUT ends in the Next State with n=4. (PC-54)

Purpose: This procedure begins when the IUT enters Next State (n=3), transmits MLS to indicate its policy is illegal for the connection of M Port to M Port, and ends with n=4.

Procedure:

```
[1]+To_Next_2I
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(1)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(2)*/
[5]        ?Otherwise          Inconclusive(2)
[3]    ?Otherwise              Inconclusive(1)
```

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Extended Comments:
(1) IUT checks the Tester's Port type according to the received bits of R_Val(1) and R_Val(2) and decides that the connection is Illegal. (M port to M port)
(2) IUT ends in the Next State with n=4.

6.3.8 To_Next_4S

Purpose: This procedure begins when the IUT enters the Next State (n=4), sets the Short (Medium or Long) Link Confidence Test Duration and ends in the Next State with n=5.

Procedure:

```
[1]+To_Next_3 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS /*Comment(4)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(6)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?HLS /*Comment(3)*/
[4]      !HLS /*Comment(5)*/
[5]        C:?HLS
[6]          Goto C
[5]        ?ILS /*Comment(6)*/
[5]        ?Otherwise              Inconclusive(3)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n=4.
(2) IUT transmits MLS to indicate the Duration of LCT is Short or Medium. (T_Val(4))
(3) IUT transmits HLS to indicate the Duration of LCT is Long. (T_Val(4) note)
(4) Tester transmits MLS to indicate Short or Medium LCT Duration.
(5) Tester transmits HLS to indicate Long LCT Duration.
(6) IUT ends in the Next State with n=5. (PC-54)

6.3.9 To_Next_4M

Purpose: IUT transmits MLS to indicate a Medium (Long) Link Confidence Test Duration with n=4 and PC_LCT_Fail > 0.

Procedure:

```
[1]+Break_In_Next7 /*Comment(1)*/
[2] +To_Next_3 /*Comment(2)*/
[3]  !ILS
[4]    A:?ILS
[5]      Goto A
[4]    ?MLS /*Comment(3)*/
[5]      !MLS
[6]        B:?MLS
[7]          Goto B
[6]        ?ILS /*Comment(5)*/
[6]        ?Otherwise              Inconclusive(2)
[4]    ?HLS /*Comment(4)*/
[5]      !HLS
[6]        C:?HLS
[7]          Goto C
[6]        ?ILS /*Comment(5)*/
[6]        ?Otherwise              Inconclusive(3)
[4]    ?Otherwise                  Inconclusive(1)
```

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Extended Comments:
(1) IUT enters the Break State and increases the PC_LCT_Fail value.
(2) IUT is in the Next State with n=4.
(3) IUT transmits MLS to indicate a Short or Medium LCT Duration. (T_Val(4))
(4) IUT transmits HLS to indicate a Long LCT Duration. (T_Val(4) Note)
(5) IUT ends in the Next State with n=5. (PC-54)

6.3.10 To_Next_4L

Purpose: IUT transmits HLS to indicate a Long Link Confidence Test Duration while its LEM_Fail is set because the link error rate is greater than LER_Cutoff in the last Active State.

Procedure:
```
[1]+Break_In_Active /*Comment(1)*/
[2] +To_Next_3 /*Comment(2)*/
[3]   !ILS
[4]    A:?ILS
[5]      Goto A
[4]    ?HLS /*Comment(3)*/
[5]      !HLS
[6]        B:?HLS
[7]          Goto B
[6]        ?ILS /*Comment(4)*/
[6]        ?Otherwise              Inconclusive(2)
[4]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) IUT enters the Break State and set the
LEM_Fail because the Link Error Rate is greater than LER_Cutoff.
(2) IUT is in the Next State with n=4.
(3) IUT transmits HLS indicating a Long or Extended LCT Duration. (T_Val(4))
(4) IUT ends in the Next State with n=5. (PC-54)

6.3.11 To_Next_4E

Purpose: This procedure begins when the IUT enters Next State (n=4), sets the Extended Link Confidence Test Duration and ends in the Next State with n=5.
Note: This procedure is used for the configuration of M port to M port only.

Procedure:
```
[1]+To_Next_MM3 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n=4.
(2) IUT transmits HLS to indicate the Duration of LCT is Long or Extended. (T_Val(4))
(3) Tester transmits HLS to indicate Long or Extended Duration.
(4) IUT ends in the Next State with n=5. (PC-54)

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6.3.12 To_Next_5S

Purpose: This procedure begins when the IUT enters the Next State, sets the Short (Medium, Long) LCT Duration (n=4, 5) and ends in the Next State with n=6.

Procedure:

```
[1]+To_Next_3 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[6]          !ILS
[7]            C:?ILS
[8]              Goto C
[7]            ?MLS /*Comment(4)*/
[8]              !MLS
[9]                D:?MLS
[10]                 Goto D
[9]                ?ILS /*Comment(6)*/
[9]                ?Otherwise          Inconclusive(5)
[7]            ?HLS /*Comment(5)*/
[8]              !HLS
[9]                E:?HLS
[10]                 Goto E
[9]                ?ILS /*Comment(6)*/
[9]                ?Otherwise          Inconclusive(6)
[7]            ?Otherwise              Inconclusive(3)
[5]        ?Otherwise                  Inconclusive(2)
[3]    ?HLS /*Comment(2)*/
[4]      !HLS
[5]        F:?HLS
[6]          Goto F
[5]        ?ILS /*Comment(3)*/
[6]          !ILS
[7]            G:?ILS
[8]              Goto G
[7]            ?MLS /*Comment(7)*/
[8]              !MLS
[9]                H:?MLS
[10]                 Goto H
[9]                ?ILS /*Comment(6)*/
[9]                ?Otherwise          Inconclusive(7)
[7]            ?Otherwise              Inconclusive(4)
[5]        ?Otherwise                  Inconclusive(2)
[3]    ?Otherwise                      Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=4.
(2) IUT transmits MLS to indicate the Duration of LCT is Short or HLS to indicate the Duration of LCT is Long. (T_Val(4))
(3) IUT ends in the Next State with n=5.
(4) IUT transmits MLS to indicate the Short LCT Duration. (T_Val(5))
(5) IUT transmits HLS to indicate the Medium LCT Duration. (T_Val(5))
(6) IUT ends in Next State with n=6.
(7) IUT transmits MLS to indicate the Long LCT Duration. (T_Val(5))

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6.3.13 To_Next_5M

Purpose: This procedure begins when the IUT enters the Next State, sets the Medium (Long) Link Confidence Test Duration (n=4, 5) and ends in Next State with n=6.

Procedure:

```
[1]+To_Next_3 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[6]          !ILS
[7]            C:?ILS
[8]              Goto C
[7]            ?HLS /*Comment(4)*/
[8]              !HLS
[9]                D:?HLS
[10]                 Goto D
[9]              ?ILS /*Comment(5)*/
[9]              ?Otherwise          Inconclusive(5)
[7]            ?Otherwise            Inconclusive(3)
[5]        ?Otherwise                Inconclusive(2)
[3]    ?HLS /*Comment(2)*/
[4]      !HLS
[5]        E:?HLS
[6]          Goto E
[5]        ?ILS /*Comment(3)*/
[6]          !ILS
[7]            F:?ILS
[8]              Goto F
[7]            ?MLS /*Comment(6)*/
[8]              !MLS
[9]                G:?MLS
[10]                 Goto G
[9]              ?ILS /*Comment(5)*/
[9]              ?Otherwise          Inconclusive(6)
[7]            ?Otherwise            Inconclusive(4)
[5]        ?Otherwise                Inconclusive(2)
[3]    ?Otherwise                    Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=4.
(2) IUT transmits MLS to indicate a Medium LCT Duration or HLS to indicate a Long LCT. (T_Val(4)).
(3) IUT ends in the Next State with n=5.
(4) IUT transmits HLS to indicate a Medium LCT Duration.
(5) IUT ends in the Next State with n=6.
(6) IUT transmits MLS to indicate a Long LCT Duration.

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6.3.14 To_Next_5L

Purpose: IUT transmits MLS to indicate a Long Link Confidence Test Duration. (n=5)

Procedure:
```
[1]+To_Next_4L /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS    /*Comment(2)*/
[4]      !MLS  /*Comment(3)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n=5.
(2) IUT transmits MLS indicating a Long LCT Duration. (T_Val(4,5))
(3) Tester transmits MLS indicating a Long LCT Duration.
(4) IUT ends in the Next State with n=6. (PC-54)

6.3.15 To_Next_5E

Purpose: This procedure begins when the IUT enters the Next State (n=5), sets the Extended Link Confidence Test Duration and ends in the Next State with n=6.

Procedure:
```
[1]+To_Next_4E /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS   /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n=5.
(2) IUT transmits HLS to indicate the Duration of LCT is Extended. (T_Val(4,5))
(3) Tester transmits HLS to indicate the Extended Duration.
(4) IUT ends in the Next State with n=6. (PC-54)

6.3.16 No_MAC_6S

Purpose: This procedure begins when the IUT enters the Next State with n=6, transmits MLS to indicate its MAC is not available for the Short LCT and ends in the Next State with n=7.

Procedure:
```
[1]+To_Next_5S /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS /*Comment(3)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

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Extended Comments:
(1) IUT is in the Next State with n = 6.
(2) IUT transmits MLS to inidicate its MAC is not available for the LCT. (PC_TCode(6)_Actions)
(3) Tester's MAC is not available for the LCT.
(4) IUT ends in the Next State with n=7. (PC-54)

6.3.17 IUT_MAC_6S

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits HLS to indicate its MAC is available for the Short LCT.

Procedure:
```
[1]+To_Next_5S
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(1)*/
[4]      !MLS /*Comment(2)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise          Inconclusive(2)
[3]    ?Otherwise              Inconclusive(1)
```

Extended Comments:
(1) IUT transmits HLS to indicate its MAC is available for the Short Link Confidence Test.
(2) Tester transmits MLS to indicate its MAC is not available for the Short Link Confidence Test.
(3) IUT ends in the Next State with n = 7.

6.3.18 No_MAC_6M

Purpose: This procedure begins when the IUT enters Next State with n=6, transmits MLS to indicate its MAC is not available for the Medium LCT and ends in the Next State with n = 7**.**

Procedure:
```
[1]+To_Next_5M /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise          Inconclusive(2)
[3]    ?Otherwise              Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n = 6.
(2) IUT transmits MLS to indicate its MAC is not available for the Medium LCT.
(3) IUT ends in the Next State with n = 7.

6.3.19 IUT_MAC_6M

Purpose: This procedure begins when the IUT enters the Next State, n=6, transmits HLS to indicate its MAC is available for the Medium LCT and ends in the Next State with n=7.

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Procedure:

```
[1]+To_Next_5M
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(1)*/
[4]      !MLS
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(2)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

Extended Comments:

(1) IUT transmits HLS to indicate its MAC is available for the Medium LCT.
(2) IUT ends in the Next State with n = 7.

6.3.20 No_MAC_6L

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits MLS to indicate its MAC is not available for the Long LCT, and ends in the Next State with n=7.

Procedure:

```
[1]+To_Next_5L /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n = 6.
(2) IUT transmits MLS to indicate its MAC is not available for the Long LCT.
(3) IUT ends in the Next State with n = 7.

6.3.21 IUT_MAC_6L

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits HLS to indicate its MAC is available for the Long LCT and ends in the Next State with n = 7.

Procedure:

```
[1]+To_Next_5L /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !MLS
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n = 6.
(2) IUT transmits HLS to indicate its MAC is available for the Long LCT.
(3) IUT ends in the Next State with n = 7.

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6.3.22 No_MAC_6E

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits MLS to indicate its MAC is not available for the Extended LCT, and ends in the Next State with n=7.

Procedure:

```
[1]+To_Next_5E /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n = 6.
(2) IUT transmits MLS to indicate its MAC is not available for the Extended LCT.
(3) IUT ends in the Next State with n = 7.

6.3.23 IUT_MAC_6E

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits HLS to indicate its MAC is available for the Extended LCT, ends in the Next State with n=7.

Procedure:

```
[1]+To_Next_5E /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !MLS
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(3)*/
[5]        ?Otherwise          Inconclusive(2)
[3]    ?Otherwise              Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n = 6.
(2) IUT transmits HLS to indicate its MAC is available for the Extended LCT.
(3) IUT ends in the Next State with n = 7.

6.3.24 To_Next_7

Purpose: This procedure begins when the IUT enters the Next State with n=6 and transmits HLS (MLS) to indicate its MAC is available for LCT or not, returns the Next State, increases n value then performs LCT using ILS or PDUs (if at least a MAC available for the LCT) and returns to the Next State with n=8.

Procedure:

```
[1]+To_Next_5S
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(1)*/
```

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```
[4]     !MLS /*Comment(3)*/
[5]       B:?MLS
[6]         Goto B
[5]       ?ILS /*Comment(4)*/
[6]         !ILS
[7]           C:?ILS
[8]             Goto C
[7]           ?MLS /*Comment(7)*/
[8]             !MLS /*Comment(8)*/
[9]               D:?MLS
[10]                Goto D
[9]               ?ILS /*Comment(9)*/
[9]               ?Otherwise          Inconclusive(6)
[7]           ?Otherwise              Inconclusive(4)
[5]       ?Otherwise                  Inconclusive(2)
[3]   ?HLS /*Comment(2)*/
[4]     !MLS
[5]       E:?HLS
[6]         Goto E
[5]       ?ILS /*Comment(4)*/
[6]         !ILS
[7]           F:?ILS
[8]             Goto F
[7]           ?ALS /*Comment(5)*/
[8]             !Repeat /*Comment(6)*/
[9]               G:?ALS
[10]                !Repeat
[11]                  Goto G
[9]               ?ILS
[10]                !ILS
[11]                  Goto G
[9]               ?MLS /*Comment(7)*/
[10]                !MLS /*Comment(8)*/
[11]                  H:?MLS
[12]                    Goto H
[11]                  ?ILS /*Comment(9)*/
[11]                  ?Otherwise        Inconclusive(8)
[9]               ?Otherwise            Inconclusive(7)
[7]           ?Otherwise                Inconclusive(5)
[5]       ?Otherwise                    Inconclusive(3)
[3]     ?Otherwise                      Inconclusive(1)
```

Extended Comments:
(1) IUT transmits MLS to indicate its MAC is not available for the Link Confidence Test. (PC_TCode(6)_Actions)
(2) IUT transmits HLS to indicate its MAC is available for the Link Confidence Test.
(3) Tester transmits MLS to indicate its MAC is not available for the LCT.
(4) IUT returns the Next State from the Signal State with n=7.
(5) IUT transmits PDUs for the Short Link Confidence Test.
(6) The !Repeat operation is the normal operation of PHY when it repeats symbols. PHY repeats symbols only when its input is in ALS.
(7) IUT transmits MLS to indicate its LCT is passed.
(8) Tester transmits MLS to indicate its LCT is passed.
(9) IUT ends in the Next State with n=8.

6.3.24.1 To_Next_7E

Purpose: This procedure begins when the IUT enters the Next State (n=6), transmits MLS to indicate its MAC is not available or HLS to indicate its MAC is available for LCT. Then goes back to Next State, increases n value and performs the LCT using ILS (if MAC not available) or PDUs (if at least a MAC available) and passes the LCT, ends in the Next State with n=8.

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Procedure:

```
[1]+To_Next_5E
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(1)*/
[4]      !MLS /*Comment(3)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[6]          !ILS
[7]            C:?ILS
[8]              Goto C
[7]            ?MLS /*Comment(7)*/
[8]              !MLS /*Comment(8)*/
[9]                D:?MLS
[10]                 Goto D
[9]                ?ILS /*Comment(9)*/
[9]                ?Otherwise          Inconclusive(6)
[7]            ?Otherwise              Inconclusive(4)
[5]        ?Otherwise                  Inconclusive(2)
[3]    ?HLS /*Comment(2)*/
[4]      !MLS
[5]        E:?HLS
[6]          Goto E
[5]        ?ILS /*Comment(4)*/
[6]          !ILS
[7]            F:?ILS
[8]              Goto F
[7]            ?ALS /*Comment(5)*/
[8]              !Repeat /*Comment(6)*/
[9]                G:?ALS
[10]                 !Repeat
[11]                   Goto G
[9]                ?ILS
[10]                 !ILS
[11]                   Goto G
[9]                ?MLS /*Comment(7)*/
[10]                 !MLS /*Comment(8)*/
[11]                   H:?MLS
[12]                     Goto H
[11]                   ?ILS /*Comment(9)*/
[11]                   ?Otherwise        Inconclusive(8)
[9]                ?Otherwise            Inconclusive(7)
[7]            ?Otherwise                Inconclusive(5)
[5]        ?Otherwise                    Inconclusive(3)
[3]    ?Otherwise                        Inconclusive(1)
```

Extended Comments:

(1) IUT transmits MLS to indicate its MAC is not available for the Extended LCT.
(2) IUT transmits HLS to indicate its MAC is available for the Extended LCT.
(3) Tester transmits MLS to indicate its MAC is not available for the Extended LCT.
(4) IUT enters the Next State with n = 7.
(5) IUT transmits PDUs for the Extended LCT.
(6) The !Repeat operation is the normal opration of PHY when it repeats symbols. PHY repeats symbols only when its input is in ALS.
(7) IUT transmits MLS to indicate its LCT is passed.
(8) Tester transmits MLS to indicate its LCT is passed.
(9) IUT ends in the Next State with n = 8.

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6.3.24.2 To_Next7_ERR

Purpose: This procedure begins when the IUT enters Next State (n=7), performs the Link Confidence Test using ERR, and ends with transmitting HLS to indicate the LCT fail.

Note: This procedure is performed only when neither the IUT nor the Tester has a MAC.

Procedure:

```
[1]+No_MAC_6S /*Comment(1)*/
[2]  !ILS Start TL_Min
[3]    A:?Timeout TL_Min
[4]      !ERR /*Comment(2)*/
[5]        B:?ILS
[6]          Goto B
[5]        ?HLS /*Comment(3)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?ILS
[4]      Goto A
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) IUT is in the Next State with n=7.
(2) Tester transmits ERR for the LCT.
(3) IUT ends with transmitting HLS to indicate LCT_Fail > 0. (PC_TCode(7)_Actions)

6.3.24.3 To_Next7_BADPDU

Purpose: This procedure is performed when the IUT has at least 1 MAC for the Link Confidence Test with n=7.

Procedure:

```
[1]+IUT_MAC_6S
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?ALS
[4]      !BADPDU /*Comment(1)*/
[5]        B:?ALS
[6]          !BADPDU
[7]            Goto B
[5]        ?ILS
[6]          !ILS
[7]            Goto B
[5]        ?HLS /*Comment(2)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:
(1) Tester repeats the IUT's frame and changes the FCS to be the incorrect FCS.
(2) IUT ends with transmitting HLS to indicate LCT_Fail > 0. (PC_TCode(7)_Actions)

6.3.24.4 Break_In_Next7

Purpose: This procedure begins when the IUT transmits HLS to indicate LER > LER_Cutoff and ends in the Break State.

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Procedure:

```
[1]+To_Next7_ERR /*Comment(1)*/
[2]  !HLS /*Comment(2)*/
[3]    A:?HLS /*Comment(3)*/
[4]      Goto A
[3]    ?ILS /*Comment(4)*/
[4]      !ILS
[5]        B:?ILS
[6]          Goto B
[5]        ?QLS /*Comment(5)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Signal State with n=7.
(2) Tester transmits HLS to indicate LER > LER_Cutoff. (ISO/IEC 9314-6:1998)
(3) IUT transmits HLS to indicate LER > LER_Cutoff.
(4) IUT returns to the Next State with n=8. (PC-54)
(5) IUT ends with transmitting QLS to indicate it enters the Break State. (PC_RCode(8)_Actions)

6.3.25 To_Next_8

Purpose: This procedure begins when the IUT enters the Next State with n = 8, Tester transmits MLS indicating its MAC is not available for the Local Loop Test and ends in the Next State with n = 9.

Note: This function is used only when IUT has a MAC available for the Local Loop Test.

Procedure:

```
[1]+To_Next_7 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise              Inconclusive(2)
[3]    ?Otherwise                  Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=8.
(2) IUT transmits HLS to indicate its MAC is available for the Local Loop Test.
(PC_TCode(8)_Actions)
(3) Tester transmits HLS to indicate its MAC is available for the Local Loop Test.
(4) IUT ends in the Next State with n=9. (PC-54)

6.3.25.1 To_Next8_N

Purpose: This procedure is used to setup the Local Loop Test when the IUT does not make a MAC available. This procedure begins when the IUT enters the Next State (n=8), The Tester transmits HLS to indicate its MAC is available for the Local Loop Test. The IUT signals MLS to indicate its MAC is not available for Local Loop and returns to the Next State with n=9.

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Procedure:

```
[1]+To_Next_7 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !HLS /*Comment(3)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(4)*/
[5]        ?Otherwise        Inconclusive(2)
[3]    ?Otherwise            Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=8.
(2) IUT transmits MLS to indicate its MAC is not available. (PC_TCode(8)_Actions)
(3) Tester transmits HLS to indicate its MAC is available for the Local Loop.
(4) IUT ends in the Next State with n=9. (PC-54)

6.3.25.2 To_Next_8E

Purpose: This procedure begins when the IUT enters the Next State (n=8), transmits HLS (MLS) to indicate its MAC is available for the Local Loop Test or not, then ends in the Next State with n=9.

Procedure:

```
[1]+To_Next_7E /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?MLS /*Comment(2)*/
[4]      !MLS /*Comment(4)*/
[5]        B:?MLS
[6]          Goto B
[5]        ?ILS /*Comment(6)*/
[5]        ?Otherwise                Inconclusive(2)
[3]    ?HLS /*Comment(3)*/
[4]      !MLS /*Comment(4)*/
[5]        C:?HLS
[6]          Goto C
[5]        ?ILS /*Comment(5)*/
[5]        ?Otherwise                Inconclusive(3)
[3]    ?Otherwise                    Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=8.
(2) IUT transmits MLS to indicate its MAC is not available for the Local Loop Test.
(3) IUT transmits HLS to indicate its MAC is available for the Local Loop test.
(4) Tester transmits MLS to indicate its MAC is not available for the Local Loop Test.
(5) IUT ends in the Next State with n=9.

6.3.26 To_Next_9

Purpose: This procedure begins when the IUT enters the Next State (n=8), transmits HLS (MLS) to indicate its MAC is available for the Local Loop Test or not. Goes back to the Next State with n = 9, performs the Local loop and ends with transmitting HLS to indicate the IUT's MAC is to be connected to PHY or MLS to indicate the IUT's MAC is not to be connected to PHY.

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Procedure:

```
[1]+To_Next_7 /*Comment(1)*/
[2]  !ILS
[3]    A:?ILS
[4]      Goto A
[3]    ?HLS /*Comment(2)*/
[4]      !MLS /*Comment(4)*/
[5]        B:?HLS
[6]          Goto B
[5]        ?ILS /*Comment(5)*/
[6]          !ILS
[7]            D:?ILS
[8]              Goto D
[7]            ?ALS /*Comment(6)*/
[8]              !Repeat /*Comment(8)*/
[9]                E:?ALS
[10]                 !Repeat
[11]                   Goto E
[9]                ?ILS
[10]                 !ILS
[11]                   Goto E
[9]                ?HLS /*Comment(9)*/
[9]                ?Otherwise          Inconclusive(6)
[7]            ?Otherwise              Inconclusive(4)
[6]        ?Otherwise                  Inconclusive(2)
[3]    ?MLS /*Comment(3)*/
[4]      !HLS /*Comment(4)*/
[5]        C:?MLS
[6]          Goto C
[5]        ?ILS /*Comment(5)*/
[6]          !ILS
[7]            H:?ILS
[8]              Goto H
[7]            ?MLS /*Comment(7)*/
[7]            ?Otherwise              Inconclusive(5)
[5]        ?Otherwise                  Inconclusive(3)
[3]    ?Otherwise                      Inconclusive(1)
```

Extended Comments:

(1) IUT is in the Next State with n=8.
(2) IUT transmits HLS to indicate its MAC is available for the Local Loop Test.
(3) IUT transmits MLS to indicate its MAC is not available for the Local Loop Test.
(4) A MLS is transmitted by Tester to indicate its MAC is not available for the Local Loop Test, an HLS is transmitted by Tester to indicate its MAC is available for the Local Loop Test.
(5) IUT returns to the Next State from the Signal State with n=9.
(6) IUT performs Local Loop Test with transmitting PDUs. (ALS)
(7) IUT ends with transmitting MLS to indicate its MAC output not to be connected to PHY. (PC_TCode(9)_Actions)
(8) At this point, the tester repeats any PDUs (ALS) received from the IUT for the Local Loop Test. The Loopback ends, then the IUT signals HLS or MLS.
(9) IUT ends with transmitting HLS to indicate its MAC output to be connected to PHY. (PC_RCode(9)_Actions)

6.3.27 To_Next_10

Purpose: This procedure begins when the IUT signals HLS to indicate its MAC output to be connected to PHY or MLS to indicate its MAC output not to be connected to PHY, ends in the Next State with n = 10.

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Procedure:
[1]+To_Next_9
[2] A:?MLS /*Comment(1)*/
[3] !MLS
[4] Goto A
[2] B:?HLS /*Comment(2)*/
[3] !HLS
[4] Goto B
[2] ?ILS /*Comment(3)*/
[2] ?Otherwise Inconclusive

Extended Comments:
(1) IUT transmits MLS to indicate its MAC output is not to be connected to PHY in PCM (CFM) Active State.
(2) IUT transmits HLS to indicate its MAC output is to be connected to PHY in PCM (CFM) Active State.
(3) IUT ends in the Next State with n = 10.

6.3.28 IN_Join

Purpose: This procedure begins when the IUT enters the Next State with n=10 and ends in the Join State.

Procedure:
[1]+To_Next_10 /*Comment(1)*/
[2] !ILS
[3] A:?ILS
[4] Goto A
[3] ?HLS /*Comment(2)*/
[3] ?Otherwise Inconclusive

Extended Comments:
(1) IUT is in Next State with n=10.
(2) IUT ends in the Join State. (PC-46)

6.3.29 IN_Verify

Purpose: This procedure begins when the IUT enters the Join State and ends in the Verify State.

Procedure:
[1]+IN_Join /*Comment(1)*/
[2] !HLS
[3] A:?HLS
[4] Goto A
[3] ?MLS /*Comment(2)*/
[3] ?Otherwise Inconclusive

Extended Comments:
(1) IUT is in the Join State.
(2) IUT ends in the Verify State. (PC-67)

6.3.30 IN_Active

Purpose: This procedure begins when the IUT enters the Verify State and ends in the Active State.

Procedure:
[1]+IN_Verify /*Comment(1)*/
[2] !MLS
[3] A:?MLS
[4] Goto A
[3] ?ILS /*Comment(2)*/
[3] ?Otherwise Inconclusive

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Extended Comments:
(1) IUT is in the Verify State.
(2) IUT ends in the Active State. (PC-78)

6.3.31 Break_In_Active

Purpose: IUT starts in the Active State, keeps monitoring the incoming Line State and ends with entering the Break State when LER is greater than LER_Cutoff.

Procedure:

```
[1]+IN_Active /*Comment(1)*/
[2]  !ERR /*Comment(2)*/
[3]    A:?ILS
[4]      Goto A
[3]    ?ALS
[4]      Goto A
[3]    ?QLS /*Comment(3)*/
[3]    ?Otherwise                    Inconclusive
```

Extended Comments:
(1) IUT is in the Active State.
(2) Tester transmits Error Line State to force IUT returns the Break State.
(3) IUT ends up with entering the Break State. (PC-81b)

6.4 ECM Abstract Test Suite

6.4.1 Scope

Entity Coordination Management (ECM) performs five distinct functions described as states in the ECM state machine. These ECM functions are:
(1) Connect/Disconnect PCM,
(2) Insert/Deinsert optical bypass switch,
(3) Propagate/Terminate Trace,
(4) Initiate Path Test, and
(5) Participate in Hold Policy.
Most of these functions cannot be directly observed because they occur while PCM is in the OFF state. In fact, the only ECM states which cause observable PCM behavior are the IN(EC1) and TRACE(EC2) states - which means that these are the only ECM states which can be directly observed by a remote tester. In addition, it may be possible to indirectly observe the actions of the INSERT(EC5) and DEINSERT(EC7) states by monitoring the disruption on the physical medium caused by the bypass switch.
This Abstract Test Suite is designed to test only ECM observable functions using the same notation as the PCM notation written in the PCM test suite above.
To perform the connect or insert function, ECM responds to signals from other management entities by sending the PC_Start signal to PCM. Since ECM primarily passes the information on to PCM, it seems that any PCM which can be made to go through its initialization sequence can also be considered to have performed this ECM connect or insert sequence. On the other hand, this sequence cannot be forced by a remote tester, since the IUT has to be connected before it can receive the appropriate PMF_SET_REQ(Connect) frame. Therefore, the ECM connect and insert tests are considered covered by the PCM Connection Initialization Test in the PCM ATS above and not separately tested.
Test cases for the ECM disconnect, deinsert, and Trace propagate and terminate functions are developed below to satisfy the conformance testing of the FDDI ECM. The IN_Active subroutine in section 6.3.30 of the PCM ATS above is re-used in these test cases.

Note: These test cases can be performed only if the Parameter Management Protocol, PMF_SET, is implemented.

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6.4.2 Test Cases

6.4.2.1 ECM Disconnect Test

6.4.2.1.1 Case-ID: ECM_Disconnect

Purpose: Verify that IUT enters the Out state when it receives a Disconnect signal while in the In state.

Procedure:

```
[1]+IN_Active /*Comment(1)*/
[2]    !ILS Start TL_Min
[3]     A:?Timeout TL_Min
                    /*Comment(2)*/
[4]      B:?ILS
[5]       Goto B
[4]      ?ALS       /*Comment(3)*/
[5]       C:!PMF_SET_REQ
                    /*Comment(4)*/
[6]        Start PC_React
[7]         ?QLS   /*Comment(5)*/
[8]          !QLS Start TD_Min
[9]           D:?Timeout TD_Min        Pass
                    /*Comment(6)*/
[9]           ?QLS
[10]           Goto D
[9]           ?Otherwise               Fail(4)
[7]         ?ALS
[8]          Goto C
[7]         ?Otherwise                Fail(3)
[7]         ?Timeout PC_React         Fail(3)
[4]     ?Otherwise                    Fail(2)
[3]    ?ILS
[4]     Goto A
[3]    ?Otherwise                     Fail(1)
```

Extended Comments:

(1) IUT's PCM is in the Active state. (PC8)
(2) IUT's PCM has been transmitting ILS for TL_Min in the Active state.
(3) IUT's PCM transmits ALS in the Active state after TL_Min expires. IUT is in the In state. (PC88b, EC1)
(4) Tester sends a Disconnect request signal to cause IUT to change its state. (In this case, Tester shall prepare a PMF SET Request frame containing the fddiSMTStationAction of Disconnect to be invoked. It sends this frame to force IUT to enter the Leave state (IUT's PCM to enter the Off state) and waits for the IUT to respond. (EC13))
(5) IUT's PCM is in the Off state. IUT is in the Leave state. (PC0, EC3)
(6) TD_Min expires. IUT enters the Out state and waits for Connect request signal. (EC30, PC0)

Reasons for Failure:

(1) IUT's PCM does not transmit ILS in the Active state or TL_Min is not expired.
(2) IUT's PCM does not transmit ILS or ALS in the Active state.
(3) IUT's PCM is not in the Active state or the Off state or PC_React expires
(4) IUT's PCM does not transmit QLS while IUT in the Leave state or TD_Min is not expired.

6.4.2.2 ECM Deinsert Test

6.4.2.2.1 Case-ID: ECM_Deinsert

Purpose: Verify that IUT deinserts the bypass switch and enters the Out state when it receives a Disconnect signal while in the In state.

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Procedure:

```
[1]+IN_Active        /*Comment(1)*/
[2]    !ILS Start TL_Min
[3]     A:?Timeout TL_Min
                     /*Comment(2)*/
[4]      B:?ILS
[5]       Goto B
[4]      ?ALS        /*Comment(3)*/
[5]       C:!PMF_SET_REQ
                     /*Comment(4)*/
[6]        Start PC_React
[7]         ?QLS     /*Comment(5)*/
[8]          !QLS Start TD_Min
[9]           D:?Timeout TD_Min
                     /*Comment(6)*/
[10]           Start I_Max
[11]            ?Timeout I_Max
                     /*Comment(7)*/
[12]             !SMT_DATA
                     /*Comment(8)*/
[13]              Start D_Max
[14]               ?SMT_DATA          Pass
                     /*Comment(9)*/
[14]               ?Otherwise         Fail(6)
[14]               ?Timeout D_Max     Fail(6)
[11]            ?Otherwise            Fail(5)
[9]           ?QLS
[10]           Goto D
[9]           ?Otherwise             Fail(4)
[7]         ?ALS
[8]          Goto C
[7]         ?Otherwise              Fail(3)
[7]         ?Timeout PC_React       Fail(3)
[4]      ?Otherwise                 Fail(2)
[3]     ?ILS
[4]      Goto A
[3]     ?Otherwise                  Fail(1)
```

Extended Comments:

(1) IUT's PCM is in the Active state. (PC8)
(2) IUT's PCM has been transmitting ILS for TL_Min in the Active state.
(3) IUT's PCM transmits ALS in the Active state after TL_Min expires. IUT is in the In state. (PC88b, EC1)
(4) Tester sends a Disconnect request signal to cause IUT to change its state. (In this case, Tester shall prepare a PMF SET Request frame containing the fddiSMTStationAction of Disconnect to be invoked. It sends this frame to force IUT to enter the Leave state (IUT's PCM to enter the Off state) and waits for the IUT to respond. (EC13))
(5) IUT's PCM is in the Off state. IUT is in the Leave state. (PC0, EC3)
(6) TD_Min expires. IUT enters the Deinsert state. (EC37, EC7)
(7) I_Max expires. IUT enters the Out state. Now IUT is in the bypass mode (IUT withdraws itself from the ring). (EC70, PC0)
(8) Tester sends a SMT_DATA frame to check the continuity of the restored ring. (In this case, Tester shall prepare a SMT frame containing its own data. It sends this frame on the restored ring and waits for the frame to come back.)
(9) The SMT_DATA frame comes back to the tester. The continuity of the ring is restored.

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Reasons for Failure:
(1) IUT's PCM does not transmit ILS in the Active state or TL_Min is not expired.
(2) IUT's PCM does not transmit ILS or ALS in the Active state.
(3) PC_React expires or IUT's PCM does not enter the Off state. IUT does not enter the Leave state.
(4) IUT's PCM does not transmit QLS or TD_Min is not expired.
(5) I_Max is not expired.
(6) D_Max expires but the SMT_DATA frame does not come back to the tester. The ring is not restored.

6.4.2.3 ECM Trace Tests:

In this series of test, there will be two defined quantities for Trace_Max. The first is Trace_Max_Hi, which will be longer than the normal default timer of 7 seconds. The other, Trace_Max_Lo, will be shorter than the normal default timer. Both quantities will be set by the tester depending on the test purpose. Since two Points of Control and Observation (PCOs) are needed when conducting test cases 6.4.2.3.4 - 6.4.2.3.12, for classification reason, a PCO for an event line is denoted by sequence of capital letters, which indicates a tester post, appears between the indentation level number and the label, for example:

[4]TB A: ?ALS

Where TB is denoted tester port B.

6.4.2.3.1 Case-ID: Trace_Max

Purpose: Verify that the IUT remains in the Trace state for Trace_Max. This test case is applicable to a station containing at least one MAC and has one port connected to the tester.

Test Setup: See figure 6.

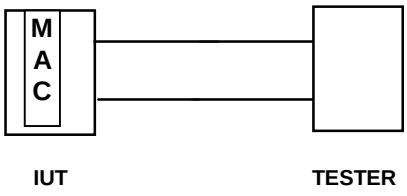

Figure 6 - Tester Configuration for Indicated Cases

Procedure:
[1]+IN_Trace /*Comment(1)*/
[2] Start Trace_Max_Lo
[3] A:?MLS
[4] Goto A
[3] ?Timeout Trace_Max_Lo Pass
/*Comment(2)*/
[3] ?Otherwise Fail

Extended Comments:
(1) IUT is in the Trace state.
(2) IUT maintains in the Trace state for Trace_Max.

Reason for Failure:
IUT does not repeat MLS for Trace_Max.

6.4.2.3.2 Case-ID: Trace_Term

Purpose: Verify that the IUT terminates the Trace process when a QLS is received. This test case is applicable to a station containing at least one MAC and has one port connected to the tester.

Test Setup: See figure 6.

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Procedure:

```
[1]+IN_Trace  /*Comment(1)*/
[2]    Start Trace_Max_Hi
[3]     ?MLS
[4]      !QLS Start Trace_React
                 /*Comment(2)*/
[5]       A:?MLS
[6]        Goto A
[5]       ?QLS                        Pass
                 /*Comment(3)*/
[5]       ?Otherwise                  Fail(2)
[5]       ?Timeout Trace_React        Fail(2)
[3]    ?Otherwise                     Fail(1)
[3]    ?Timeout Trace_Max_Hi          Inconclusive
```

Extended Comments:
(1) IUT is in the Trace state.
(2) Tester continuously sends QLS to force IUT to terminate the Trace.
(3) Tester receives QLS from IUT indicating the IUT has terminated Trace before Trace_React timed out.

Reason for Failure:
(1) IUT does not transmit MLS.
(2) IUT does not transmit MLS or QLS or Trace_React has expired.

6.4.2.3.3 Case-ID: To_Leave

Purpose: Verify that IUT transition to the Leave state when it remains in the Trace state for longer than Trace_Max. This test case is applied to station containing at least one MAC and one port connected to the Tester.

Test Setup: See figure 6.

Procedure:

```
[1]+IN_Trace  /*Comment(1)*/
[2]    Start Trace_Max_Hi
[3]     A:?MLS
[4]      Goto A
[3]     ?Timeout Trace_Max_Hi
                 /*Comment(2)*/
[4]      B:?MLS
[5]       Goto B
[4]      ?QLS                        Pass
                 /*Comment(3)*/
[4]      ?Otherwise                  Fail(2)
[3]     ?Otherwise                   Fail(1)
```

Extended Comments:
(1) IUT is in the Trace state.
(2) Trace_Max expires. IUT has been in the Trace state for Trace_Max.
(3) IUT terminates the Trace. Receive QLS.

Reason for Failure:
(1) IUT does not transmit MLS.
(2) IUT does not transmit MLS or QLS.

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6.4.2.3.4 Case-ID: Trace_Mac_Prop

Purpose: Verify that IUT terminates the Trace process when it receives MLS on its port which is connected to a MAC (within a station). This test case is applied to a single port station or an B port of SM-DAS Thru configuration (figure 7) or an A or B port of DM-DAS Thru configuration (figure 8).

Test Setup: See figure 7 and figure 8.

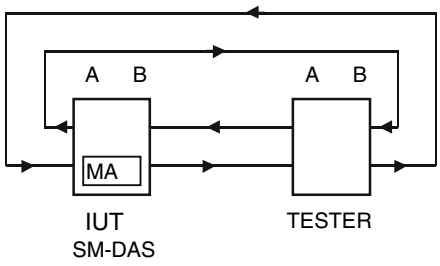

Figure 7 - Tester Configuration for Indicated Cases

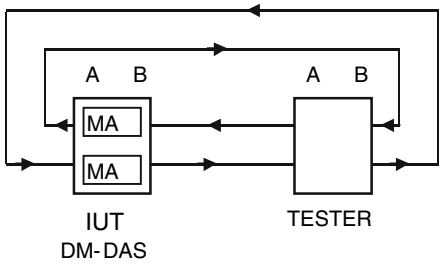

Figure 8 - Tester Configuration for Indicated Cases

Procedure:

```
[1]TA       +IN_Active_PDR
[2]TB        +IN_Active_PDR
[3]TA          !MLS Start Trace_React
[4]TB    A:     ?ALS
[5]               Goto A
[4]TB            ?ILS
[5]               Goto A
[4]TB            ?QLS                    Pass
                       /*Comment*/
[4]TB            ?Otherwise              Fail(1)
[4]TA            ?QLS                    Pass
                       /*Comment*/
[4]TA            ?Otherwise              Fail(1)
[4]              ?Timeout Trace_React    Fail(1)
```

Extended Comments:
IUT propagates the Trace from its B port to its MAC (figure 7) or from its A or B port to its MAC (figure 8) and terminates the Trace by transmitting QLS. Receive QLS on Tester B and A ports (figure 7 or 8).

Reason for Failure:
(1) IUT does not transmit ALS, ILS or QLS or Trace_React has expired.

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6.4.2.3.5 Case-ID: Trace_Prop_Max 1

Purpose: Verify that IUT propagates the Trace from its A port to the upstream B port by generating MLS for Trace_Max. This test case is applied to a SM-DAS Thru configuration on the secondary ring.

Test Setup: See figure 7.

Procedure:

```
[1]TA              +IN_Active_PDR
[2]TB       +IN_Active_PDR
[3]TB   A:    !MLS Start Trace_React
[4]TA           ?MLS
[5]               Start Trace_Max_Lo
[6]TA   B:        ?MLS
[7]                 Goto B
[6]               ?Timeout Trace_Max_Lo  Pass
                     /*Comment*/
[6]TA             ?Otherwise                Fail(2)
[4]TA           ?ILS
[5]               Goto A
[4]TA           ?ALS
[5]               Goto A
[4]TA           ?Otherwise                Fail(1)
[4]             ?Timeout Trace_React      Fail(1)
```

Extended Comments:
Trace_Max expires. IUT has propagated the Trace for Trace_Max.

Reason for Failure:
(1) IUT does not transmit ILS, ALS or MLS or Trace_React has expired.
(2) IUT does not transmit MLS.

6.4.2.3.6 Case-ID: Trace_Ack1

Purpose: Verify that IUT acknowledges the termination of Trace when it receives QLS while propagating the Trace from its A port to the upstream B port. This test case is applicable to a SM-DAS Thru configuration on the secondary ring.

Test Setup: See figure 7.

Procedure:

```
[1]TA       +IN_Active_PDR
[2]TB        +IN_Active_PDR
[3]TB    A:    !MLS Start Trace_React
[4]TA           ?MLS
[5]TA            !QLS Start Trace_React
[6]TA    B:      ?MLS
[7]                Goto B
[6]TA             ?QLS                    Pass
                        /*Comment*/
[6]TA             ?Otherwise              Fail(2)
[6]               ?Timeout Trace_React    Fail(2)
[6]TB             ?QLS                    Pass
                        /*Comment*/
[6]TB             ?Otherwise              Fail(2)
[4]TA           ?ALS
[5]               Goto A
[4]TA           ?ILS
[5]               Goto A
[4]TA           ?Otherwise                Fail(1)
[4]             ?Timeout Trace_React      Fail(1)
```

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Extended Comments:
IUT transmits QLS to acknowledge the termination of Trace. Receive QLS on both tester ports.

Reason for Failure:
(1) IUT does not transmit MLS, ALS, ILS or Trace_React is expired.
(2) IUT does not transmit MLS, QLS or Trace_React is expired.

6.4.2.3.7 Case-ID: Trace_Prop_Max2

Purpose: Verify that IUT propagates the Trace from an M Port to an upstream M Port (within a station) for Trace_Max. This test is applicable when there is no MAC in the internal token path between active M ports.

Test Setup: See figure 9. (Assume M1 and M4 are inserted into the primary path)

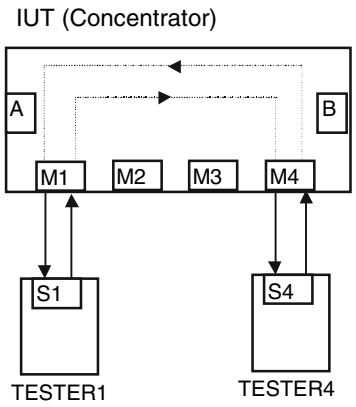

Figure 9 - Tester Configuration for Indicated Cases

Procedure:

```
[1]TS1    +IN_Active_PDR
[2]TS4     +IN_Active_PDR
[3]TS4  A:   !MLS Start Trace_React
[4]TS1          ?MLS
[5]TS1           Start Trace_Max_Lo
[6]TS1  B:       ?MLS
[7]                Goto B
[6]TS1           ?Timeout Trace_Max_Lo  Pass
                    /*Comment*/
[6]TS1           ?Otherwise             Fail(2)
[4]TS1          ?ILS
[5]               Goto A
[4]TS1          ?ALS
[5]               Goto A
[4]TS1          ?Otherwise             Fail(1)
[4]TS4          ?Timeout Trace_React   Fail(1)
```

Extended Comments:
Trace_Max expires. IUT has propagated the Trace for Trace_Max.

Reason for Failure:
(1) IUT does not transmit ILS, MLS or ALS or Trace_React has expired.
(2) IUT does not transmit MLS.

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6.4.2.3.8 Case-ID: Trace_Ack2

Purpose: Verify that IUT acknowledges the termination of Trace when it receives QLS while propagating the Trace from an M port to an upstream M port (within a station). This test is applicable when there is no MAC in the internal token path between active M ports.

Test Setup: See figure 9. (Assume M1 and M4 are inserted into primary path)

Procedure:

```
[1]TS1      +IN_Active_PDR
[2]TS4      +IN_Active_PDR
[3]TS4   A:  !MLS Start_Trace_React
[4]TS1        ?MLS
[5]TS4         !QLS Start Trace_React
[6]TS1   B:    ?MLS
[7]             Goto B
[6]TS1         ?QLS                    Pass
                    /*Comment*/
[6]TS1         ?Otherwise              Fail(2)
[6]TS4         ?QLS                    Pass
                    /*Comment*/
[6]TS4         ?Otherwise              Fail(2)
[6]TS4         ?Timeout Trace_React    Fail(2)
[4]TS1        ?ALS
[5]            Goto A
[4]TS1        ?ILS
[5]            Goto A
[4]TS1        ?Otherwise              Fail(1)
[4]TS4        ?Timeout Trace_React    Fail(1)
```

Extended Comments:
IUT transmits QLS to acknowledge the termination of Trace. Receive QLS on both testers.

Reason for Failure:
(1) IUT does not transmit MLS, ALS or ILS or Trace_React is expired.
(3) IUT does not transmit MLS or QLS or Trace_React is expired.

6.4.2.3.9 Case-ID: Trace_Prop_Max3

Purpose: Verify that IUT propagates the Trace from the A Port to the M Port internally, for Trace_Max. This test is applicable for any station (concentrator) that does not have a MAC in the token path.

Test Setup: See figure 10. (Assume M4 is inserted into the primary path)

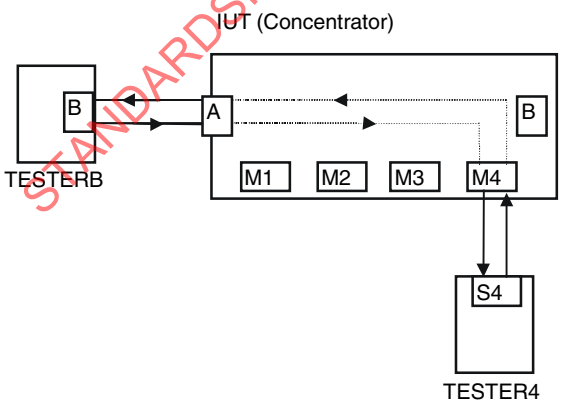

Figure 10 - Tester Configuration for Indicated Cases

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Procedure:

```
[1]TB      +IN_Active_PDR
[2]TS4      +IN_Active_PDR
[3]TS4  A:   !MLS Start Trace_React
[4]TB          ?MLS
[5]TB           Start Trace_Max_Lo
[6]TB    B:      ?MLS
[7]                Goto B
[6]TB              ?Timeout Trace_Max_Lo  Pass
                       /*Comment*/
[6]TB              ?Otherwise             Fail(2)
[4]TB          ?ALS
[5]             Goto A
[4]TB          ?ILS
[5]             Goto A
[4]TB          ?Otherwise                 Fail(1)
[4]TS4         ?Timeout Trace_React       Fail(1)
```

Extended Comments:
IUT has propagated the Trace for Trace_Max.

Reason for Failure:
(1) IUT does not transmit MLS, ALS or ILS or Trace_React is expired.
(2) IUT does not transmit MLS.

6.4.2.3.10 Case-ID: Trace_Ack3

Purpose: Verify that IUT acknowledges the termination of Trace when it receives QLS while propogating the Trace from an A Port to the upstream M Port (within a station). This test is applicable for any station (concentrator) that does not have a MAC in the token path.

Test Setup: See figure 10. (Assume M4 is inserted in the primary path).

Procedure:

```
[1]TB      +IN_Active_PDR
[2]TS4      +IN_Active_PDR
[3]TS4  A:   !MLS Start Trace_React
[4]TB          ?MLS
[5]TB           !QLS Start Trace_React
[6]TS4  B:      ?MLS
[7]                Goto B
[6]TS4             ?QLS                   Pass
                       /*Comment*/
[6]TS4             ?Otherwise             Fail(2)
[6]TS4             ?Timeout Trace_React   Fail(2)
[4]TB          ?ALS
[5]             Goto A
[4]TB          ?ILS
[5]             Goto A
[4]TB          ?Otherwise                 Fail(1)
[4]TB          ?Timeout Trace_React       Fail(1)
```

Extended Comments:
IUT transmits QLS to acknowledge the termination of Trace.

Reason for Failure:
(1) IUT does not transmit MLS, ALS or ILS or Trace_React has expired.
(2) IUT does not transmit MLS or QLS or Trace_React expired.

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6.4.2.3.11 Case-ID: Trace_Prop_Max4

Purpose: Verify that the IUT propogates Trace from the B Port, internally, to the M1 Port, by generating MLS for Trace_Max_Hi. This test is applicable to stations that do not have a MAC in the Trace Path.

Test Setup: See figure 11. (Assume M1 is inserted into the primary ring).

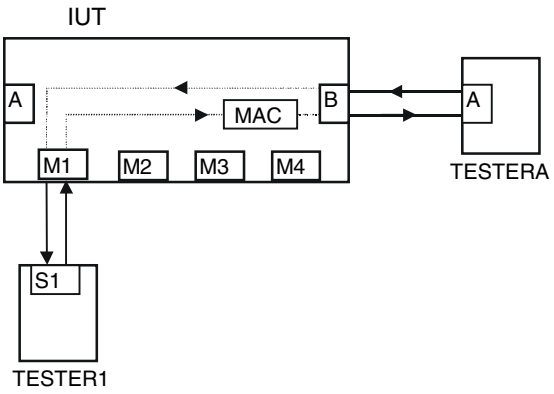

Figure 11 - Tester Configuration for Indicated Cases

Procedure:

```
[1]TS1  +IN_Active_PDR
[2]TA      +IN_Active_PDR
[3]TA   A:  !MLS Start Trace_React
[4]TS1      ?MLS
[5]TS1       Start Trace_Max_Lo
[6]TS1 B:     ?MLS
[7]             Goto B
[6]TS1        ?Timeout Trace_Max_Lo   Pass
                /*Comment*/
[6]TS1        ?Otherwise              Fail(2)
[4]TS1      ?ALS
[5]           Goto A
[4]TS1      ?ILS
[5]           Goto A
[4]TS1      ?Otherwise              Fail(1)
[4]TS4      ?Timeout Trace_React    Fail(1)
```

Extended Comments:
IUT propagates the Trace for Trace_Max.

Reason for Failure:
(1) IUT does not transmit MLS.
(2) IUT does not transmit ALS, ILS or MLS or Trace_React has expired.

6.4.2.3.12 Case-ID: Trace_Ack4

Purpose: Verify that IUT acknowledges the termination of Trace when it receives QLS while propagating the Trace from its B port to the upstream M1 port (within a station). This test case is applicable to stations that do not have a MAC in the Trace path.

Test Setup: See figure 11. (Assume M1 is inserted into the primary ring).

Procedure:

```
[1]TS1     +IN_Active_PDR
[2]TA        +IN_Active_PDR
[3]TA    A:    !MLS Start Trace_React
[4]TS1           ?MLS
[5]TA             !QLS Start Trace_React
```

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```
[6]TS1    B:      ?MLS
[7]                Goto B
[6]TS1             ?QLS                    Pass
                       /*Comment*/
[6]TS1             ?Otherwise              Fail(2)
[6]TA              ?Timeout Trace_React    Fail(2)
[4]TS1           ?ALS
[5]               Goto A
[4]TS1           ?ILS
[5]               Goto A
[4]TS1           ?Otherwise                Fail(1)
[6]TA            ?Timeout Trace_React      Fail(1)
```

Extended Comments:
IUT transmits QLS to acknowledge the termination of Trace.

Reason for Failure:
(1) IUT does not transmit MLS, ALS or ILS or Trace_React has expired.
(2) IUT does not transmit MLS or QLS or Trace_React has expired.

6.4.3 Subroutine used for internal function call:

6.4.3.1 IN_Trace

Purpose: Force IUT to enter the Trace state.

Procedure:

```
[1]+IN_Active /*Comment(1)*/
[2]   !ILS
[3]    A:?ILS
[4]     Goto A
[3]    ?ALS
[4]     !Lower_Claim Start T_Non_Op
              /*Comment(2)*/
[5]      B:?IUT_Claim /*Comment(3)*/
[6]       Goto B
[5]      ?Timeout T_Non_Op
              /*Comment(4)*/
[6]       !ILS /*Comment(5)*/
[7]        C:?IUT_Beacon /*Comment(6)*/
[8]         Goto C
[7]        ?IUT_D_Beacon
              /*Comment(7)*/
[8]         Goto C
[7]        ?MLS /*Comment(8)*/
[7]        ?Otherwise              Inconclusive
[5]      ?ALS
[6]       !Lower_Claim
[7]        Goto B
[5]      ?Otherwise                Inconclusive
[3]   ?Otherwise                   Inconclusive
```

6.4.3.2 IN_Active_PDR

Purpose: This subroutine is used in the ECM Trace action to ensure that the IUT has completed PC(88b) and transmitting ALS.

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Procedure:

```
[1]  +IN_Active
[2]      !ILS
[3]          A:?ILS
[4]              Goto A
[3]          ?ALS
[3]          ?Otherwise    Inconclusive
```

7 CFM conformance tests

ISO/IEC 9314-6:1998 specifies the configuration Management (CFM) rules for ports, paths and MACs for each of the following types of FDDI Nodes:

- Dual Attachment Station (DAS);
- Single Attachment Station (SAS);
- Dual Attachment Concentrator (DAC);
- Single Attachment Concentrator (SAC).

This clause specifies four test groups, each of which tests a particular type of FDDI node.

7.1 Test purpose

Each test group in this clause verifies the correct operation of Configuration Management (CFM) for a particular type of FDDI node.

7.1.1 Path configuration

The following test groups verify that the IUT configures its ports, MACs and paths as specified in ISO/IEC 9314-6:1998, when its ports are connected to various combinations of tester A, B, S and M ports. Each test case is accompanied by a configuration drawing, showing the connections between the IUT and the Tester or Testers, and the internal paths through the IUT. At the bottom of the figure for each test case is a figure of the ring maps for the test configuration, showing the order of the MACs on each ring. Note that the relative order of MACs is significant, but the map can start with any MAC.

Whenever a DAS Tester is needed it is a dual MAC station. In the configuration and ring map figures that accompany each test case, the tester MAC associatd with the primary path (i.e., the MAC on the primary path when the Tester is in the thru CF_State) is labeled "B" and the Tester MAC associated with secondary path is labeled "A."

For single MAC test case figures, the IUT MAC is labeled "1". For the dual MAC test cases, the IUT MAC located on the primary ring in the thru CF_State is labeled "1", and the IUT MAC located on the secondary ring in the thru CF_State is labeled "2".

The correct IUT configuration for each configuration test case shall be verified by direct observation of the token paths through the IUT using the normal NIF procedures to construct logical ring maps. Because each active IUT port is connected to a Tester port (or not connected to any other port), there is complete visibility of where each path enters and exits the IUT.

The neighbor notification protocol may take some time to complete after a ring is initialized. The NIF protocol used to form ring maps is defined in ISO/IEC 9314-6:1998. The completion of the ring map can be determined when the set of MAC addresses and upstream neighbor MAC addresses listed in the NIF frames forms a consistent closed ring. The tester used to form the ring map shall be capable of determining when the complete ring is known.

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7.1.2 MIB

The test groups of this clause verify that the configuration relevant IUT MIB attributes are set to values consistent with the configuration. The values of the specified attributes shall be verified with PMF Get Request and Response frames. The CF-State attribute shall be verified for each test case. The following port attributes shall be verified for each port and test case:

- CurrentPathType;
- MyTypeType;
- NeighborTypeType;
- RequestedPathsType;

7.1.3 Events and conditions

While this CFM test will not provide a detailed test of the Status Report Protocol or of SRF frames, it does provide a reasonably detailed test of the configuration relevant aspects of status reporting. The only additional test actions required to accomplish this are to verify the generation of the appropriate SRF frames by the IUT after each configuration change. Note that SRF events depend upon the sequence of the configuration changes.

Each test group in this clause verifies that appropriate SRF frames are generated for the following events and conditions:

- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

7.2 Test constraints

The following constraints apply to the tests specified in this clause.

7.2.1 Permitted path bits

The conformance tests in this clause verify conformance of FDDI CMT for those stations using the default values of the CFM PermittedPath bits for Ports and MACs. They do not test CFM for cases where PermittedPath bits are set to values other than their default values, nor for implementations that choose to restrict the MAC path choices for alternate bits as allowed by ISO/IEC 9314-6:1998. Note that with default values, the Requested - Paths for Port Resources never rely upon the alternate bits to determine the RequestedPaths.

7.2.2 Order of test cases

Each test group is an ordered set of test cases. The test cases of each test group specified in this clause shall be executed in the order specified. This is necessary to verify events, which are a product of the specific configuration change, rather than the final configuration state.

7.3 Test equipment

The tester for CMT conformance tests consists of a conforming FDDI station with a general FDDI ring management capability. The tester shall be capable of being configured to simultaneously provide any combination of two A, B, S and M ports with a MAC associated with each A, B or S exit port and appropriate management software to:

- issue PMF Get Request Frames for the specified attributes and record and display or verify the response frame of the IUT;

- record and display or verify the SRF frames generated by the IUT;

- construct a logical ring map showing the logical paths through the IUT and the location of MACs in the IUT. This shall be done by direct observation of frames entering and exiting the IUT (rather than by relying on the values of the IUTs MIB) and by operation of the NIF protocol.

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In each case the connection policy of the tester shall be to accept all connection types except the illegal M-to-M connection.

It is desirable that the tester be one station that is capable of dynamically configuring its ports in accordance to a test script (so that manual recabling is not required) and of either recording IUT responses for later analysis or of verifying them in real time and recording the test verdict for each case, to automate the testing process. However it is possible to run the entire test suite using several management stations that between them provide 2 ports of each kind (A, B, M and S) by manually recabling at each test step and manually recording the test results from the management displays maintained by the tester stations.

7.4 DAS CFM Conformance Test Group

This test group verifies the conformance of Configuration Management (CFM) for Dual Attachment Stations (DAS). It consists of 24 ordered test cases that exhaustively test each of the 25 possible configuration states of a DAS, except for the isolated case, which is not externally testable. The test group tests a representative but not exhaustive set of configuration state transitions. Table 1 summarizes the 24 configuration state test cases.

Note that both the single and dual MAC DAS are verified with the same test group. In each case the test actions are identical for single and dual MAC DAS, however the pass_fail criteria are different. Therefore each test case includes separate pass-fail criteria for the single and dual MAC DAS tests.

The correct value of the following MIB parameters shall be verified using PMF Get Request Frames for each test case configuration except case number 1 (isolated):

- CF-State;
- A:CurrentPathType;
- A:MyTypeType;
- A:NeighborTypeType;
- A:RequestedPathsType;
- B:CurrentPathType;
- B:MyTypeType;
- B:NeighborTypeType;
- B:RequestedPathsType.

The SRF verification portion of the test requires that the test cases be executed in the order specified. In DAS test cases, DAS-1 through DAS_16, the generation of appropriate SRF frames for each configuration test step shall be verified for the following events and conditions:

- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

In test cases DAS_17 through DAS_24 two separate configuration events occur between each case. The order and timing of these events is not specified in this test, therefore the precise sequence of events generated is also not specified and is not verified in the Pass_Fail criteria. Conditions, however, are not dependent upon the order of the configuration changes and appropriate SRF announcement of the Peer Wrap Condition is a Pass_Fail criterion for test cases DAS_1 through DAS_24.

Each test case identifies a figure that shows the test configuration for that case, and the logical ring maps for that case. There are separate figures for single and dual MAC cases.

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7.4.1 Case-ID: DAS_1

Test Purpose: Test configuration when IUT A is connected to a B port and IUT B is not connected.

Initial Condition: IUT A and B not connected. The IUT is isolated.

Test Actions: Connect IUT A to Tester B port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12.
MIB:
- SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathsType = none.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 15. The MIB and SRF Report are the same as for a Single MAC Station.

7.4.2 Case-ID: DAS_2

Test Purpose: Test configuration when IUT A is connected to a B port and IUT B is connected to an A port.

Initial Condition: IUT A port is connected to Tester B port.

Test Actions: Connect IUT B to Tester A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12. MAC 1 is on the primary ring (the ring that exits through the B port).
MIB:
- SMT.CF-State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = Peer.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 15. MAC 1 is the MAC on the primary ring (the ring that exits through the B port), while MAC 2 is on the secondary Ring. The MIB and SRF Report are the same as for a Single MAC Station.

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7.4.3 Case-ID: DAS_3

Test Purpose: Test configuration when IUT B is connected to an A port and IUT A is not connected.

Initial Condition: IUT A port is connected to Tester B port, IUT B port is connected to Tester A port.

Test Actions: Disconnect IUT A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12
MIB:
- SMT.CF-State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC station
IUT configuration: see figure 15. MAC 1 remains the B port exit MAC. The MIB and SRF Report are the same as for a Single MAC Station.

7.4.4 Case-ID: DAS_4

Test purpose: Test configuration when IUT A is connected to a M port and IUT B is connected to an A port.

Initial condition: IUT B port is connected to Tester A port.

Test actions: Connect IUT A to Tester M port.

Pass_Fail criteria:

a. Single MAC Station
IUT configuration: see figure 12.
MIB:
- SMT.CF-State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition.

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b. Dual MAC Station
IUT configuration: see figure 15.
MIB:
- SMT.CF-State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = Peer.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event;
- Peer Wrap Condition.

7.4.5 Case-ID: DAS_5

Test Purpose: Test configuration when A is connected to a M port and IUT B is not connected.

Initial Condition: IUT A port is connected to Tester M port, IUT B port is connected to Tester A port.

Test Actions: Disconnect IUT B port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12.
MIB:
SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighbotTypeType = none;
- B:RequestedPathsType = none.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 15.
MIB:
- Same as Single MAC Station.

7.4.6 Case-ID: DAS_6

Test Purpose: Test configuration when IUT A is connected to a M port and IUT B is connected to a B port.

Initial Condition: IUT A port is connected to Tester M port.

Test Actions: Connect IUT B to Tester B port.

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Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure12
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- Undesirable Connection Event;
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 15.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

7.4.7 Case-ID: DAS_7

Test Purpose: Test configuration when IUT B is connected to a B port and IUT A is not connected.

Initial Conditions: IUT A port is connected to Tester M port, IUT B port is connected to Tester B port.

Test Actions: Disconnect IUT A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12.
MIB:
- SMT.CF-State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition.

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b. Dual MAC Station
IUT configuration: see figure 15.
MIB:
- SMT.CF-State = c_wrap_b;
- A:CurrentPathType = isolated.
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

7.4.8 Case-ID: DAS_8

Test Purpose: Test configuration when IUT A is connected to an S port and IUT B is connected to a B port.

Initial Conditions: IUT B is connected to Tester B port and IUT A is not connected.

Test Actions: Connect IUT A to Tester S port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 12.
MIB:
- SMT.CF-State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathsType = Peer.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

b. Dual MAC Station
IUT configuration: see figure 15
MIB:
- Same as Single MAC Station.

7.4.9 Case-ID: DAS_9

Test Purpose: Test configuration when IUT A is connected to an S port and IUT B is not connected.

Initial Condition: IUT A port is connected to Tester S port and IUT B port is connected to Tester B port.

Test Actions: Disconnect IUT B port.

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Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13.
MIB:
- SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathsType = none.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 16
MIB:
- Same as Single MAC Station.

7.4.10 Case-ID: DAS_10

Test Purpose: Test configuration when IUT A is connected to an S port and IUT B is connected to a M port.

Initial Condition: IUT A is connected to Tester S port.

Test Actions: Connect IUT B to Tester M port

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 16
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = primary;
- B:MyTypeType = b;

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- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:

- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

7.4.11 Case-ID: DAS_11

Test Purpose: Test configuration when IUT B is connected to an M port and IUT A is not connected.

Initial Condition: IUT A port is connected to Tester S port and IUT B port is connected to Tester M port.

Test Actions: Disconnect IUT A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13.
MIB:

- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedTypeType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:

- None.

b. Dual MAC Station
IUT configuration: see figure 16
MIB:

- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedTypeType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event.

7.4.12 Case-ID: DAS_12

Test Purpose: Test **c**onfiguration when IUT A is connected to an A port and IUT B is connected to a M port.

Initial Condition: IUT B is connected to Tester M port.

Test Actions: Connect IUT A to Tester A port.

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Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13.
MIB:
- SMT.CF_State = c_wrap_b.
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:
- None.

b. Dual MAC Station
IUT configuration: see figure 16
MIB:
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

7.4.13 Case-ID: DAS_13

Test Purpose: Test configuration when IUT A is connected to an A port and IUT B is not connected.

Initial Condition: IUT A is connected to Tester A port and IUT B is connected to Tester M port.

Test Actions: Disconnect IUT B port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13
MIB:
- SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathType = none.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

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b. Dual MAC Station
IUT Configuration: see figure 16.
MIB:
- Same as Single MAC Station.

7.4.14 Case-ID: DAS_14

Test Purpose: Test configuration when IUT A is connected to Tester A port and B is connected to Tester S port.

Initial Condition: IUT A port is connected to Tester A port and IUT B port is not connected.

Test Actions: Connect IUT B to Tester S port.

a. Single MAC Station
IUT configuration: see figure 13.
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

b. Dual MAC Station
IUT configuration: see figure 16.
MIB:
- Same as Single MAC Station.

7.4.15 Case-ID: DAS_15

Test Purpose: Test configuration when IUT B is connected to an S port and IUT A is not connected.

Initial Condition: IUT A port is connected to Tester A port and IUT B port is connected to Tester S port.

Test Actions: Disconnect IUT A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = none;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

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b. Dual MAC Station
IUT configuration: see figure 16
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = none;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

SRF Report:
- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event.

7.4.16 Case-ID: DAS_16

Test Purpose: Test configuration when IUT A is connected to a B port and IUT B is connected to an S port.

Initial Condition: IUT B is connected to Tester S port and IUT A is not connected.

Test Actions: Connect IUT A to Tester B port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 13.
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

SRF Report:
- MAC Path Change Event;
- Port Path Change Event.

b. Dual MAC Station
IUT configuration: see figure 16
MIB:
- Same as Single MAC Station.

7.4.17 Case-ID: DAS_17

Test Purpose: Test configuration when IUT A is connected to a B port and IUT B is connected to a B port.

Initial Condition: IUT A port is connected to Tester B port and IUT B port is connected to Tester S port.

Test Actions: Disconnect IUT B port and Connect IUT B port to Tester B port.

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Pass_Fail Criteria:
Note: Because two configuration changes occur in cases 18 through 25, events are not included in the Pass_Fail Criteria.

a. Single MAC Station
IUT configuration: see figure 14
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathsType = Peer.

b. Dual MAC Station
IUT Configuration: see figure 17
MIB:
- Same as Single MAC Station.

7.4.18 Case-ID: DAS_18

Test Purpose: Test configuration when IUT A is connected to a B port and IUT B is connected to a M port.

Initial Condition: IUT A is connected to Tester B port and IUT B is connected to Tester B port.

Test Actions: Disconnect IUT B port and Connect IUT B port to Tester M port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14.
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

b. Dual MAC Station
IUT configuration: see figure 17.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

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7.4.19 Case-ID: DAS_19

Test Purpose: Test configuration when IUT A is connected to a M port and IUT B is connected to a M port.

Initial Condition: IUT A is connected to Tester B port and IUT B is connected to Tester M port.

Test Actions: Disconnect IUT A port and Connect IUT A port to Tester M port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

b. Dual MAC Station
IUT configuration: see figure 17.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = Tree.

7.4.20 Case-ID: DAS_20

Test Purpose: Test configuration when IUT A is connected to a M port and IUT B is connected to an S port.

Initial Condition: IUT A is connected to Tester M port and IUT B is connected to Tester M port.

Test Action: Disconnect IUT B port and Connect IUT B to Tester S port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14.
MIB:
SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

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b. Dual MAC Station
IUT configuration: see figure 17.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = Tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

7.4.21 Case-ID: DAS_21

Test Purpose: Test configuration when IUT A is connected to an S port and IUT B is connected to an S port.

Initial Condition: IUT A is connected to Tester M port and IUT B is connected to Tester S port.

Test Actions: Disconnect IUT A port and Connect IUT A port to Tester S port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14.
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = s;
- B:RequestedPathsType = Peer.

b. Dual MAC Station
IUT configuration: see figure 17.
MIB:
- Same as Single MAC Station.

7.4.22 Case-ID: DAS_22

Test Purpose: Test configuration when IUT A is connected to a S port and IUT B is connected to an A port.

Initial Condition: IUT A is connected to Tester S port and IUT B is connected to Tester S port.

Test Actions: Disconnect IUT B port and Connect IUT B port to Tester A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14.
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = s;
- A:RequestedPathsType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;

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- B:NeighborTypeType = a;
- B:RequestedPathsType = Peer.

b. Dual MAC Station
IUT configuration: see figure 17
MIB:
- Same as Single MAC Station.

7.4.23 Case-ID: DAS_23

Test Purpose: Test configuration when IUT A is connected to an S port and IUT B is connected to an A port.

Initial Condition: IUT A is connected to Tester S port and IUT B is connected to Tester A port.

Test Actions: Disconnect IUT A port and Connect IUT A port to Tester A port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathsType = Peer.
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathType = Peer.

b. Dual MAC Station
IUT configuration: see figure 17.
MIB:
- Same as Single MAC Station.

7.4.24 Case-ID: DAS_24

Test Purpose: Test configuration when IUT A is connected to an A port and IUT B is connected to a B port.

Initial Condition: IUT A is connected to Tester A port and IUT B is connected to Tester A port.

Test Actions: Disconnect IUT B port and Connect IUT B port to Tester B port.

Pass_Fail Criteria:

a. Single MAC Station
IUT configuration: see figure 14
MIB:
SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = a;
- A:RequestedPathType = Peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = b;
- B:RequestedPathType = Peer.

b. Dual MAC Station
IUT configuration: see figure 17
MIB:
- Same as Single MAC Station.

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7.5 Test Description Dual Attachment Concentrator

This test group verifies the conformance of Configuration Management (CFM) for Dual Attachment Concentrators (DAC). A DAC is also a DAS and a DAC shall first be tested as a DAS using the test procedure specified in 7.4 above with none of its M ports connected. Table 2 summarized this test group.

This test group consists of 10 additional test cases that test concentrator functionality, that is Master ports. The assumptions of the Pass_Fail Criteria specified in this test group are that:

- the implementation's M port PermittedPath bits follow the default settings given in ISO/IEC 9314-6:1998;
- the implementation performs path selection based solely on the rules specified in ISO/IEC 9314-6:1998 for the M port alternate PermittedPath bits;
- the implementation does not further restrict the choice among the various alternates based on implementator defined conditions.

The detailed Pass_Fail Criteria specified below in this subclause are applicable to such implementations only. Note that item 6 of the Selection criteria in ISO/IEC 9314-6:1998 does specifically permit further restriction of the choice among various alternatives based on implementor defined conditions. This test group may also be used to test such concentrators. However, for conformance tests of such implementations the Pass_Fail Criteria are limited to the following:

- The MIB attributes listed below are consistent with the configuration of the station as determined by the ring maps constructed by the tester;
- Any active M port is inserted in either the primary or secondary path;
- No wrap conditions exist where a MAC is not placed on the wrapped path. That is the IUT withholds connections with its A or B port whenever the result of the connection would be a wrap with no MAC on the path.

Note that both single and dual MAC DACs are verified with the same test group. In each case the test actions are identical for single and dual MAC DACs, however the pass_fail criteria are different. Therefore each test case includes separate pass-fail criteria for single and dual MAC DAC.

The functionality of 2 concentrator M ports is tested in this test group. These are labeled M1 and M2 and can be any two arbitrarily selected M ports.

The correct value of the following MIB parameters shall be verified using PMF Get Request Frames for each test case configuration:

- CF-State;
- A:CurrentPathType;
- A:MayTypeType;
- A:NeighborTypeType;
- A:RequestedPathsType;
- B:CurrentPathType;
- B:MyTypeType;
- B:NeighborTypeType
- B:RequestedPathsType
- M1:CurrentPathType;
- M1:MyTypeType;
- M1:NeighborTypeType;
- M1:RequestedPathsType;
- M2:CurrentPathType;
- M2:MyTypeType;
- M2:NeighborTypeType;
- M2:RequestedPathsType.

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The SRF verification portion of the test requires that the test cases be executed in the order specified. The generation of appropriate SRF frames for each configuration test step shall be verified for the following events and conditions:

- Peer Wrap Condition;
- MAC Path Change Event;
- Port Path Change Event;
- Undesirable Connection Event.

7.5.1 Case-ID: DAC_1

Test Purpose: Test configuration when IUT M1 port is connected to an S port.

Initial Condition: IUT A, B, M1 and M2 ports not connected. The IUT is isolated

Test Actions: Connect IUT M1 port to Tester S port.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuation: see figure 18.
MIB:
- SMT.CF_State = isolated;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A;RequestedPathsType = none;
- B:CurrentPathsType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathType = none;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree
- M2:CurrentPathType = isolated;
- M2:MyTypeType = m;
- M2:RequestedPathType = none.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 20 The MIB and SRF Reports are the same as for the Single MAC Concentrator.

7.5.2 Case-ID: DAC_2

Test Purpose: Test configuration when IUT M1, M2 ports are connected to S ports.

Initial Condition: IUT M1 port is connected to Tester S port.

Test Actions: Connect IUT M2 port to Tester S port.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 18.
MIB:
- SMT.CF_State = isolated;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;

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- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathsType = none;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator

IUT configuration: see figure 20. The MIB and SRF Reports are the same as for the Single MAC Concentrator.

7.5.3 Case-ID: DAC_3

Test Purpose: Test configuration when IUT A port is connected to a B port, M1, M2 ports are connected to S ports.

Initial Condition: IUT M1, M2 ports are connected to Tester S ports.

Test Actions: Connect IUT A port to Tester B port.

Pass_Fail Criteria:

a. Single MAC Concentrator

IUT configuration: see figure 18. The IUT MAC is placed after the M ports on the A port exit.

MIB:

- SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = peer;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathsType = none;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event;
- Peer Wrap Condition.

b. Dual MAC Concentrator

IUT configuration: see figure 20. The MIB and SRF Reports are the same as for the Single MAC Concentrator.

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7.5.4 Case-ID: DAC_4

Test Purpose: Test configuration when IUT A port is connected to a B port, B port is connected to an A port and M1, M2 ports are connected to S ports.

Initial Condition: IUT A port is connected to Tester B port, M1, M2 ports are connected to Tester S ports.

Test Actions: Connect IUT B port to Tester A port.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 18. The IUT MAC is placed after the M ports on the B port exit.
MIB:
- SMT.CF_State = thru;
- A:CurrentPathType = thru;
- A:MyTypeType = a;
- A:NeighborTypeType = b;
- A:RequestedPathsType = peer;
- B:CurrentPathType = thru;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = peer;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 20. The MIB and SRF Reports are the same as for the Single MAC Concentrator.

7.5.5 Case-ID: DAC_5

Test Purpose: Test configuration when IUT B port is connected to an A port and M1, M2 ports are connected to S ports.

Initial Condition: IUT A port is connected to Tester B port, B port is connected to Tester A port and M1, M2 ports are connected to Tester S ports.

Test Actions: Disconnect IUT A port.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 18.
MIB:
SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = none;
- A:RequestedPathsType = none;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = a;

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- B:RequestedPathsType = peer;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event;
- Peer Wrap Condition.

b. Dual MAC Concentrator

IUT configuration: see figure 20. The MIB and SRF Reports are the same as for the Single MAC Concentrator.

7.5.6 Case-ID: DAC_6

Test Purpose: Test configuration when IUT B port is connected to an A port, IUT A port is connected to an M port and M1, M2 ports are connected to S ports.

Initial Condition: IUT B port is connected to Tester A port and M1, M2 ports are connected to Tester S ports.

Test Actions: Connect IUT A port to Tester M port.

Pass_Fail Criteria:

a. Single MAC Concentrator

IUT configuration: see figure 18.

MIB:

- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = peer;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Peer Wrap Condition.

b. Dual MAC Concentrator

IUT configuration: see figure 20.

MIB:

- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = primary;

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- B:MyTypeType = b;
- B:NeighborTypeType = a;
- B:RequestedPathsType = peer;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Peer Wrap Condition;
- Port Path Change Event;
- MAC Path Change Event.

7.5.7 Case-ID: DAC_7

Test Purpose: Test configuration when IUT A port is connected to an M port and M1, M2 ports are connected to S ports.

Initial Condition: IUT B port is connected to Tester A port, A port is connected to Tester M port and M1, M2 ports are connected to Tester S ports.

Test Actions: Disconnect IUT B port.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 19. The IUT MAC is after the M ports next to the A port exit.
MIB:

- SMT.CF_State = c_wrap_a;
- A:CurrentPathType = concatenated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = isolated;
- B:MyTypeType = b;
- B:NeighborTypeType = none;
- B:RequestedPathsType = none;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 21. The MIB and SRF Reports are the same as for the Single MAC Concentrator.

7.5.8 Case-ID: DAC_8

Test Purpose: Test configuration when IUT A port, B port are connected to M ports and M1, M2 ports are connected to S ports.

Initial Condition: IUT A port is connected to Tester M port and M1, M2 ports are connected to Tester S ports.

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Test Actions: Connect IUT B port to Tester Mport.

Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 19.
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 21.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = primary;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

7.5.9 Case-ID: DAC_9

Test Purpose: Test configuration when IUT A port, B port are connected to M ports and M2 port is connected to an S port.

Initial Condition: IUT A, B ports are connected to Tester M ports and M1, M2 ports are connected to Tester S ports.

Test Actions: Disconnect IUT M1 port.

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Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 19.
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 21.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = primary;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

7.5.10 Case-ID: DAC_10

Test Purpose: Test configuration when IUT A port, B port are connected to M ports.

Initial Condition: IUT A, B ports are connected to Tester M ports and M2 port is connected to Tester S port.

Test Actions: Disconnect IUT M2 port.

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Pass_Fail Criteria:

a. Single MAC Concentrator
IUT configuration: see figure 19.
MIB:
- SMT.CF_State = c_wrap_b;
- A:CurrentPathType = isolated;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = concatenated;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = isolated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = none;
- M2:RequestedPathsType = none.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

b. Dual MAC Concentrator
IUT configuration: see figure 21.
MIB:
- SMT.CF_State = wrap_ab;
- A:CurrentPathType = secondary;
- A:MyTypeType = a;
- A:NeighborTypeType = m;
- A:RequestedPathsType = tree;
- B:CurrentPathType = primary;
- B:MyTypeType = b;
- B:NeighborTypeType = m;
- B:RequestedPathsType = tree;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = isolated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = none;
- M2:RequestedPathsType = none.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

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7.6 Test Description Single Attachment Station

This test group verifies the conformance of CFM for Single Attachment Stations (SAS). It consists of four test cases. The test cases may be executed in any order. All test cases begin with the station isolated. Table 3 summarized this text group.

The correct value of the following MIB parameters shall be verified using PMF Get Request Frames for each test case configuration:

- CF-State;
- S:CurrentPathType;
- S:MyTypeType;
- S:NeighborTypeType;
- S:RequestedPathsType;

The generation of appropriate SRF frames for each configuration test step shall be verified for the following events and conditions:

- MAC Path Change Event;
- Port Path Change Event;
- Peer Wrap Condition.

7.6.1 Case-ID: SAS_1

Test Purpose: Test configuration when IUT S port is connected to an M port.

Initial Condition: IUT S, port is not connected. The IUT is isolated.

Test Actions: Connect IUT S port to Tester M port.

Pass_Fail Criteria:

The connection is accepted by the IUT and the IUT's MAC is inserted on the ring. See figure 22.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = m;
- S:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

7.6.2 Case-ID: SAS_2

Test Purpose: Test configuration when IUT S port is connected to an A port.

Initial Condition: IUT S, port is not connected. The IUT is isolated.

Test Actions: Connect IUT S port to Tester A port.

Pass_Fail Criteria:

The connection is accepted by the IUT and the IUT's MAC is inserted on the ring. See figure 22.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = a;
- S:RequestedPathsType = peer.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event;
- Peer Wrap Condition.

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7.6.3 Case-ID: SAS_3

Test Purpose: Test configuration when IUT S port is connected to an A port.

Initial Condition: IUT S, port is not connected. The IUT is isolated.

Test Actions: Connect IUT S port to Tester A port.

Pass_Fail Criteria:

The connection is accepted by the IUT and the IUT's MAC is inserted on the ring. See figure 22.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = b;
- S:RequestedPathsType = peer.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event;
- Peer Wrap Condition.

7.6.4 Case-ID: SAS_4

Test Purpose: Test configuration when IUT S port is connected to an S port.

Initial Condition: IUT S port is not connected. The IUT is isolated.

Test Actions: Connect IUT S port to Tester S port.

Pass_Fail Criteria:

The connection is accepted by the IUT and the IUT's MAC is inserted on the ring. See figure 22.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = s;
- S:RequestedPathsType = peer.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event;
- Peer Wrap Condition.

7.7 Single Attachment Concentrator

This test group verifies the conformance of CFM for Single Attachment Concentrators (SAC). It consists of five ordered test cases that test concentrator functionality. Table 4 summarizes this test group.

An SAC may or may not have a MAC. An SAC with a MAC is also an SAS. An SAS with a MAC shall first be verified as an SAS using the test procedures specified in 7.6 above. All concentrator M ports shall be isolated during this test.

This test group consists of 5 test cases that test concentrator functionality. The assumptions of the Pass_Fail Criteria specified in this test group are that:

- the implementation's M port PermittedPath bits follow the default settings given in ISO/IEC 9314-6:1998;
- the implementation performs path selection based solely on the rules specified in ISO/IEC 9314-6:1998 for the M port alternate PermittedPath bits;
- the implementation does not further restrict the choice among the various alternates based on implementator defined conditions.

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The detailed Pass_Fail Criteria specified below in this subclause are applicable to such implementations only. Note that item 6 of the Selection criteria in ISO/IEC 9314-6:1998 does specifically permit further restriction of the choice among various alternatives based on implementor defined conditions. This test group may also be used to test such concentrators. However, for conformance tests of such implementations the Pass_Fail Criteria are limited to the following:

- The MIB attributes listed below are consistent with the configuration of the station as determined by the ring maps constructed by the tester (note that MIB attributes cannot be checked in concentrators with no MAC);
- Any active M port is inserted in either the primary or secondary path;
- No wrap conditions exist where a MAC is not placed on the wrapped path. That is the IUT withholds connections with its S port whenever the result of the connection would be a wrap with no MAC on the path.

An SAC may have a MAC, or it may have no MAC. Both kinds of SACs may be verified with this test group. In each case the test actions are identical for SACs with and without a MAC, however the pass_fail criteria are different. Therefore each test case includes separate pass-fail criteria for SACs with a MAC and SACs with no MAC.

The functionality of two concentrator M ports is tested in this test group. These are labeled M1 and M2 and can be any two arbitrarily selected M ports.

For concentrators with a MAC, the correct value of the following MIB parameters shall be verified using PMF Get Request Frames for each test case configuration:

- CF-State;
- S:CurrentPathType;
- S:MyTypeType;
- S:NeighborTypeType;
- S:RequestedPathsType;
- M1:CurrentPathType;
- M1:MyTypeType;
- M1:NeighborTypeType;
- M1:RequestedPathsType;
- M2:CurrentPathType;
- M2:MyTypeType;
- M2:NeighborTypeType;
- M2:RequestedPathsType.

For concentrators with a MAC, the SRF verification portion of the test requires that the test cases be executed in the order specified. The generation of appropriate SRF frames for each configuration test step shall be verified for the following events and conditions:

- MAC Path Change Event;
- Port Path Change Event.

In the case of no MAC concentrators the Pass_Fail Criteria are only the ring maps, since with no MAC the MIB is not accessible and events are not reported.

7.7.1 Case-ID: SAC_1

Test Purpose: Test configuration when IUT S port is connected to an M port.

Initial Condition: IUT S, M1 and M2 ports not connected. The IUT is isolated.

Test Actions: Connect IUT S port to Tester M port.

Pass_Fail Criteria:

a. No MAC concentrator
The IUT passes if the connection between the tester and the IUT S port is withheld. The IUT fails if the connection between the tester and the IUT s port is established. See figure 23.

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b. Concentrator with MAC
IUT configuration: see figure 24.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = m;
- S:RequestedPathsType = tree;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = isolated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = none;
- M2:RequestedPathsType = none.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

7.7.2 Case-ID: SAC_2

Test Purpose: Test configuration when IUT S port is connected to an M port, IUT M1 port is connected to Tester S port.

Initial Condition: IUT S port is connected to Tester M port.

Test Actions: Connect IUT M1 port to Tester S port.

Pass_Fail Criteria:

a. No MAC Concentrator

The IUT passes if a ring is established through the concentrator joining the two testers in one ring. The IUT fails if a ring joining the two testers is not established. See figure 23.

b. Concentrator with MAC
IUT configuration: see figure 24.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = m;
- S:RequestedPathsType = tree;
- M1:CurrentPathType = primary or concatenated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = isolated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = none;
- M2:RequestedPathsType = none.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

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7.7.3 Case-ID: SAC_3

Test Purpose: Test configuration when IUT S port is connected to an M port, IUT M1 and M2 ports are connected to Tester S ports.

Initial Condition: IUT S port is connected to Tester M port and IUT M1 port is connected to Tester S port.

Test Actions: Connect IUT M2 port to Tester S port.

Pass_Fail Criteria:

a. No MAC Concentrator
The IUT passes if a ring is established through the concentrator joining the three testers in one ring. The IUT fails if a ring joining the three testers is not established. See figure 23.

b. Concentrator with MAC
IUT configuration: see figure 24.
MIB:
- SMT.CF_State = wrap_s or c_wrap_s;
- S:CurrentPathType = primary or concatenated;
- S:MyTypeType = s;
- S:NeighborTypeType = m;
- S:RequestedPathsType = tree;
- M1:CurrentPathType = primary or concatenated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;
- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary or concatenated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:
- Port Path Change Event;
- MAC Path Change Event.

7.7.4 Case-ID: SAC_4

Test Purpose: Test configuration when IUT S port is isolated while IUT M1 and M2 ports are connected to Tester S ports.

Initial Condition: IUT S port is connected to Tester M port and IUT M1, M2 ports are connected to Tester S ports.

Test Actions: Disconnect IUT S port.

Pass_Fail Criteria:

a. No MAC Concentrator
The IUT passes if a ring is established through the concentrator joining the two testers in one ring. The IUT fails if a ring joining the two testers is not established. See figure 23.

b. Concentrator with MAC
IUT configuration: see figure 24.
MIB:
- SMT.CF_State = isolated;
- S:CurrentPathType = isolated;
- S:MyTypeType = s;
- S:NeighborTypeType = none;
- S:RequestedPathsType = none;
- M1:CurrentPathType = primary or concatenated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = s;

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- M1:RequestedPathsType = tree;
- M2:CurrentPathType = primary or concatenated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event.

7.7.5 Case-ID: SAC_5

Test Purpose: Test configuration when IUT S port is isolated, and one IUT M port is connected to an S port.

Initial Condition: IUT S port is isolated and IUT M1 and M2 are connected to Tester S ports.

Test Actions: Disconnect IUT M1 port.

Pass_Fail Criteria:

a. No MAC Concentrator
The IUT passes if the connection between the IUT M2 port and the tester S port is rejected. The IUT fails if the connection between the tester S port and the IUT M1 port is not rejected. See figure 23.

b. Concentrator with MAC
IUT configuration: see figure 24.
MIB:

- SMT.CF_State = isolated;
- S:CurrentPathType = isolated;
- S:MyTypeType = s;
- S:NeighborTypeType = none;
- S:RequestedPathsType = none;
- M1:CurrentPathType = isolated;
- M1:MyTypeType = m;
- M1:NeighborTypeType = none;
- M1:RequestedPathsType = none;
- M2:CurrentPathType = primary or concatenated;
- M2:MyTypeType = m;
- M2:NeighborTypeType = s;
- M2:RequestedPathsType = tree.

SRF Report:

- Port Path Change Event;
- MAC Path Change Event.

7.8 M port Permitted Path option

An implementation may optionally have the capability to allow the Permitted Path bits for MACs and ports to be set to values other than the default values specified in ISO/IEC 9314-6:1998. This test group applies to dual attachment concentrators that implement the capability for users to set the secondary-preferred and primary-preferred permitted path bits of M ports. Users may wish to control the setting of M port permitted path bits for load balancing and to establish certain redundant configurations.

There are five test cases which shall be executed in order. The pass criteria are the sequence of ring maps. MIB parameters and SRF conditions and events are not examined in this test group. The test steps for single MAC and dual MAC DACs are identical, however the pass_fail criteria are different.

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For this test group two IUT M ports are used. One of these, labeled Mp, shall have its Tree mode Permitted Path bits set to:

local
secondary-alternate
primary-alternate
-
primary-preferred

The other M port, labeled Ms, shall have its Tree mode Permitted Path bits set to:

local
secondary-alternate
primary-alternate
secondary-preferred
-

7.8.1 Case-ID: PP_1

Test Purpose: Establish initial configuration with IUT in wrap state and all master ports isolated.

Initial Condition: The IUT is isolated.

Test Actions: Connect IUT A port to Tester B port and the IUT B port to the Tester M port.

Pass_Fail Criteria:

a. Single MAC DAC
The IUT enters the c_wrap_b CF_State with the IUT A to Tester B connection withheld. One ring with 3 MACs exists. See figure 25.

b. Dual MAC DAC
The IUT enters the wrap_ab CF_State. One ring exists with 4 MACs. See figure 26.

7.8.2 Case-ID: PP_2

Test Purpose: Test configuration when an S port is connected to IUT Mp port.

Initial Condition: The IUT A port is connected to the Tester B port and the IUT B port is connected to the Tester M port.

Test Actions: Connect IUT Mp port to Tester S port.

Pass_Fail Criteria:

a. Single MAC DAC
The IUT remains in the c_wrap_b CF_State with the IUT A to Tester B connection withheld. The IUT Mp port is included in the concatenated path and one ring with 4 MACs exists. See figure 25

b. Dual MAC DAC
The IUT remains in the wrap_ab CF_State. The IUT Mp port is included in the primary path and one ring exists with 5 MACs. See figure 26.

7.8.3 Case-ID: PP_3

Test Purpose: Test configuration when an S port is connected to the IUT Ms port. This case also tests the "tree pruning" algorithm for the single MAC concentrator, since a MAC becomes available on the secondary path when the Ms port is connected to an S port.

Initial Condition: The IUT is A port is connected to the Tester B port and the IUT B port is connected to the Tester M port. A Tester S port is connected to the IUT Mp port.

Test Actions: Connect IUT Ms port to Tester S port.

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Pass_Fail Criteria:

a. Single MAC DAC
The connection between the Tester B port and the IUT A port is initialized and the IUT goes to the wrap_ab CF_State. The IUT Ms port is included in the secondary path and one ring with 5 MACs exists. See figure 25.

b. Dual MAC DAC
The IUT remains in the wrap_ab CF_State. The IUT Ms port is included in the secondary path and one ring exists with 6 MACs. See figure 26.

7.8.4 Case-ID: PP_4

Test Purpose: Test configuration when the IUT B port is disconnected from the Tester M port.

Initial Condition: The IUT A port is connected to the Tester B port and the IUT B port is connected to the Tester M port. Tester S ports are connected to the IUT Mp and Ms ports.

Test Actions: Disconnect the Tester M port and IUT B ports.

Pass_Fail Criteria:

a. Single MAC DAC
The IUT enters the c_wrap_a CF_State. One ring with 5 MACs exists. See figure 25.

b. Dual MAC DAC
The IUT enters the c_wrap_a CF_State and one ring exists with 6 MACs. See figure 26.

7.8.5 Case-ID: PP_5

Test Purpose: Test configuration when the IUT B port is connected to the Tester A port, allowing a dual ring to be established.

Initial Condition: The IUT is A port is connected to the Tester B. Tester S ports are connected to the IUT Mp and Ms ports.

Test Actions: Connect the IUT B port to the Tester A port.

Pass_Fail Criteria:

a. Single MAC DAC
The IUT enters the thru CF_state and a dual ring exists. The primary ring has 3 MACs and the secondary ring has 2 MACs. See figure 25.

b. Dual MAC DAC
The IUT enters the thru CF_State and a dual ring exists. Both the primary and secondary rings have 3 MACs. See figure 26.

7.9 Test Description Ring Hold Option

This test group applies to dual attachment stations that implement the Ring Hold Option. These are dual attachment stations subject to the provisions of 7.4. To perform these tests both the IUT and the Tester are DAS that implement the Ring Hold Option. This option is evident in CFM only when one of the two links in a peer connection is interrupted. Therefore a test cable assembly is required in which one of the two links can be interrupted.

There are three test cases which shall be executed in order. The pass criteria are the sequence of ring maps. MIB parameters are not examined in this test group.

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7.9.1 Case-ID: RH_1

Test Purpose: Initialize IUT in a dual ring.

Initial Condition: The IUT is isolated.

Test Actions: Connect IUT A port to Tester B port and the IUT B port to the Tester A port.

Pass_Fail Criteria:

A dual ring is formed with two token paths, as shown in figure 27.

7.9.2 Case-ID: RH_2

Test Purpose: Test configuration when one of two links is interrupted.

Initial Condition: IUT A port is connected to Tester B port and IUT B port is connected to Tester A port. A normal dual ring is in effect.

Test Actions: Interrupt the link exiting from the Tester A port, so that the input to the IUT B port is dark.

Pass_Fail Criteria:

The IUT remains in the thru CF_State and does not wrap. The primary ring remains operational as shown in figure 27.

Case-ID: RH_3

Test Purpose: Test configuration when the complete connection is removed, causing both the primary and secondary rings to become nonoperational.

Initial Condition: The link exiting the Tester A port and entering the IUT B port is interrupted, interrupting the secondary ring. The primary ring remains held operational and the IUT is in the thru state due to the Ring Hold option.

Test Actions: Disconnect the cable linking the Tester A port and the IUT B port. This breaks both rings.

Pass_Fail Criteria:
IUT wraps as shown in figure 27 and a single wrapped ring is formed. Note that the recovery process is complex and results from the fact that both rings become nonoperational. Several seconds may be needed before the reconfiguration to a wrapped ring is complete.

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Table 1 - DAS Configuration Test Case Summary

		IUT Port		Pass Criteria IUT Final State	
No.	**Test Action**	**A**	**B**	**single MAC**	**Dual MAC**
1	plug tester B to IUT A	B	-	c_wrap_a	c_wrap_a
2	plug tester A to IUT B	B	A	thru	thru
3	unplug IUT A	-	A	c_wrap_b	c_wrap_b
4	plug tester M to IUT A	M	A	c_wrap_b	wrap_ab
5	unplug IUT B	M	-	c_wrap_a	c_wrap_a
6	plug tester B to IUT B	M	B	c_wrap_b	c_wrap_ab
7	unplug IUT A	-	B	c_wrap_b	c_wrap_b
8	plug tester S to IUT A	S	B	thru	thru
9	unplug IUT B	S	-	c_wrap_a	c_wrap_a
10	plug tester M to IUT B	S	M	c_wrap_b	wrap_ab
11	unplug IUT A	-	M	c_wrap_b	c_wrap_b
12	plug tester A to IUT A	A	M	c_wrap_b	wrap_ab
13	unplug IUT B	A	-	c_wrap_a	c_wrap_a
14	plug tester S to IUT B	A	S	thru	thru
15	unplug IUT A	-	S	c_wrap_b	c_wrap_b
16	plug tester B to IUT A	B	S	thru	thru
17	unplug IUT B	B	B	thru	thru
18	unplug IUT B	B	M	c_wrap_b	wrap_ab
19	unplug IUT A	M	M	c_wrap_b	wrap_ab
20	unplug IUT B	M	S	c_wrap_b	wrap_ab
21	unplug IUT A	S	S	thru	thru
22	unplug IUT B	S	A	thru	thru
23	unplug IUT A	A	A	thru	thru
24	unplug IUT B plug tester to IUT B	A	B	thru	thru

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Table 2 - DAC Configuration Test Case Summary

No.	Test Action	Current_Path_Type		CF_State	
		Port M1	Port M2	single MAC	dual MAC
1	connect IUT M1 to tester S	primary	isolated	isolated	isolated
2	connect IUT M2 to tester S	primary	primary	isolated	isolated
3	connect IUT A to tester B	primary	primary	c_wrap_a	c_wrap_a
4	connect IUT B to tester A	primary	primary	thru	thru
5	disconnect IUT A	primary	primary	c_wrap_b	c_wrap_b
6	connect IUT A to tester M	primary	primary	c_wrap_b	wrap_ab
7	disconnect IUT B	primary	primary	c_wrap_a	c_wrap_a
8	connect IUT B to tester M	primary	primary	c_wrap_b	wrap_ab
9	disconnect IUT M1	isolated	primary	c_wrap_b	wrap_ab
10	disconnect IUT M2	isolated	isolated	c_wrap_b	wrap_ab

Table 3 - SAS Configuration Test Summary

No.	Test Action	CF_State
1	connect IUT S to Tester M	wrap_s or c_wrap_s
2	connect IUT S to Tester A	wrap_s or c_wrap_s
3	connect IUT S to Tester B	wrap_s or c_wrap_s
4	connect IUT S to Tester S	wrap_s or c_wrap_s

Table 4 - SAC Configuration Test Case Summary

No.	Test Action	Current_Path_Type		CF_State	
		Port M1	Port M2	No MAC	with MAC
1	connect IUT S to tester M	isolated	isolated	isolated	c_wrap_s
2	connect IUT M1 to tester S	primary	isolated	wrap_s	c_wrap_s
3	connect IUT M2 to tester S	primary	primary	wrap_s	c_wrap_s
4	disconnect IUT S	primary	isolated	isolated	isolated
5	disconnect IUT M1	isolated	isolated	isolated	isolated

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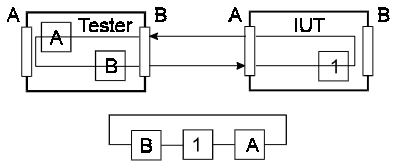
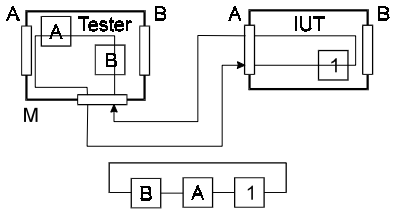
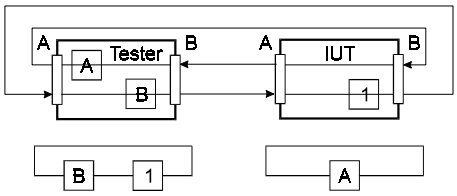


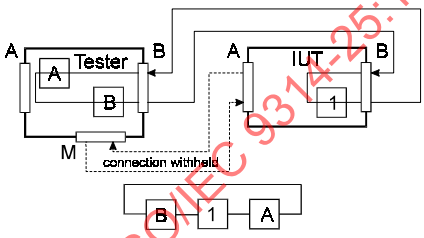
DAS_1 (wrap_a)



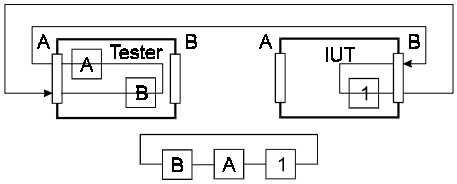
DAS_5 (wrap_a)



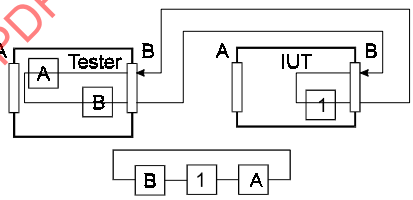
DAS_2 (thru)



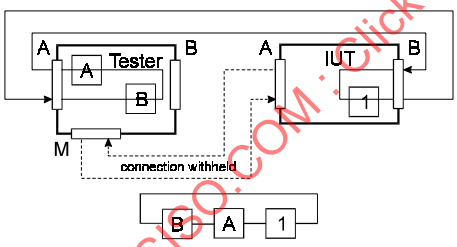
DAS_6 (c_wrap_b)



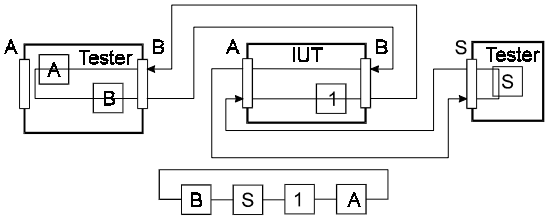
DAS_3 (c_wrap_b)



DAS_7 (c_wrap_b)



DAS_4 (c_wrap_b)



DAS_8 (thru)

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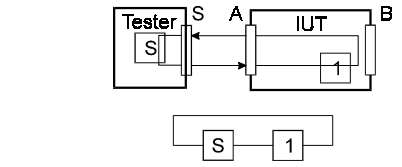
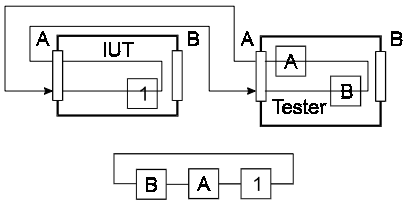
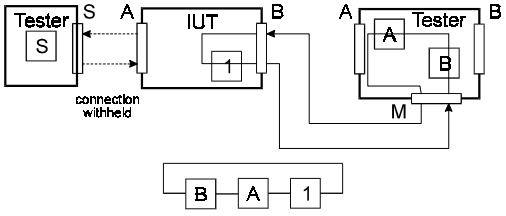
Figure 12 - Single MAC DAS Test Configurations (1 of 3)



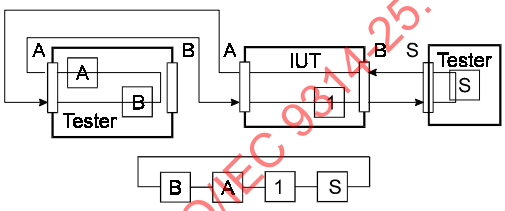
DAS_9 (c_wrap_a)



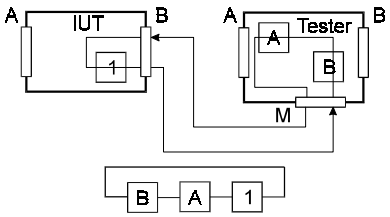
DAS_13 (c_wrap_a)



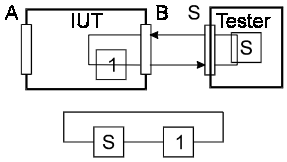
DAS_10 (c_wrap_b)



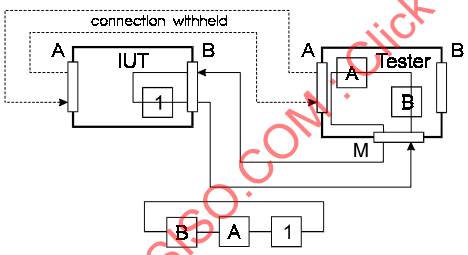
DAS_14 (thru)



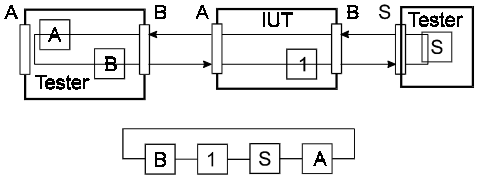
DAS_11 (c_wrap_b)



DAS_15 (c_wrap_b)



DAS_12 (c_wrap_b)



DAS_16 (thru)

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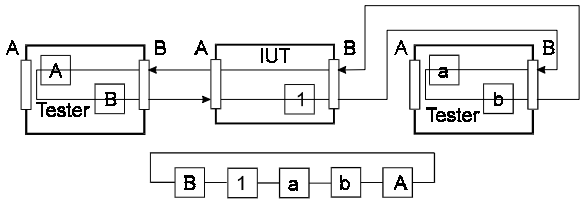
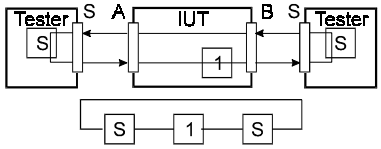
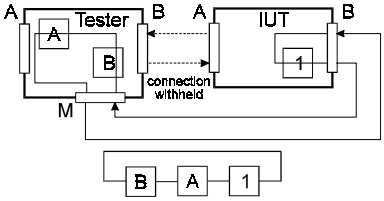
Figure 13 - Single MAC DAS Test Configurations (2 of 3)



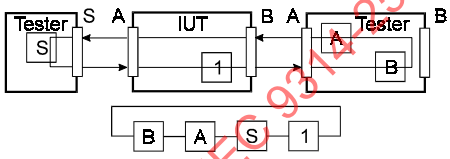
DAS_17 (thru)



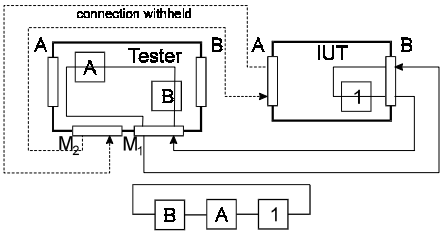
DAS_21 (thru)



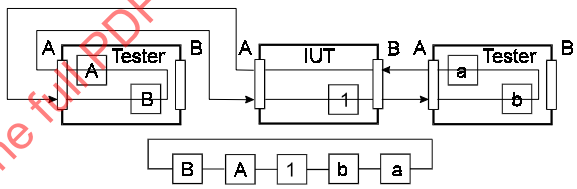
DAS_18 (c_wrap_b)



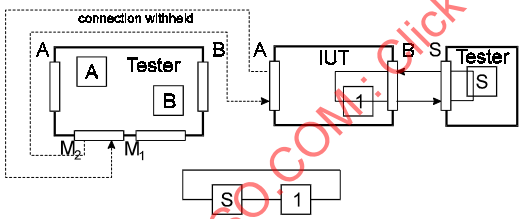
DAS_22 (thru)



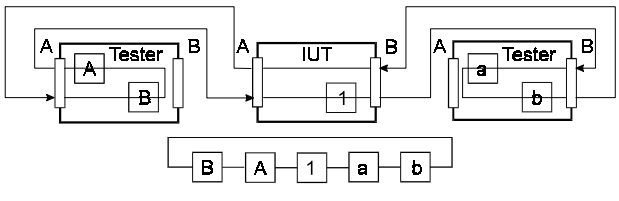
DAS_19 (c_wrap_b)



DAS_23 (thru)



DAS_20 (c_wrap_b)



DAS_24 (thru)

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Figure 14 - Single MAC DAS Test Configurations (3 of 3)

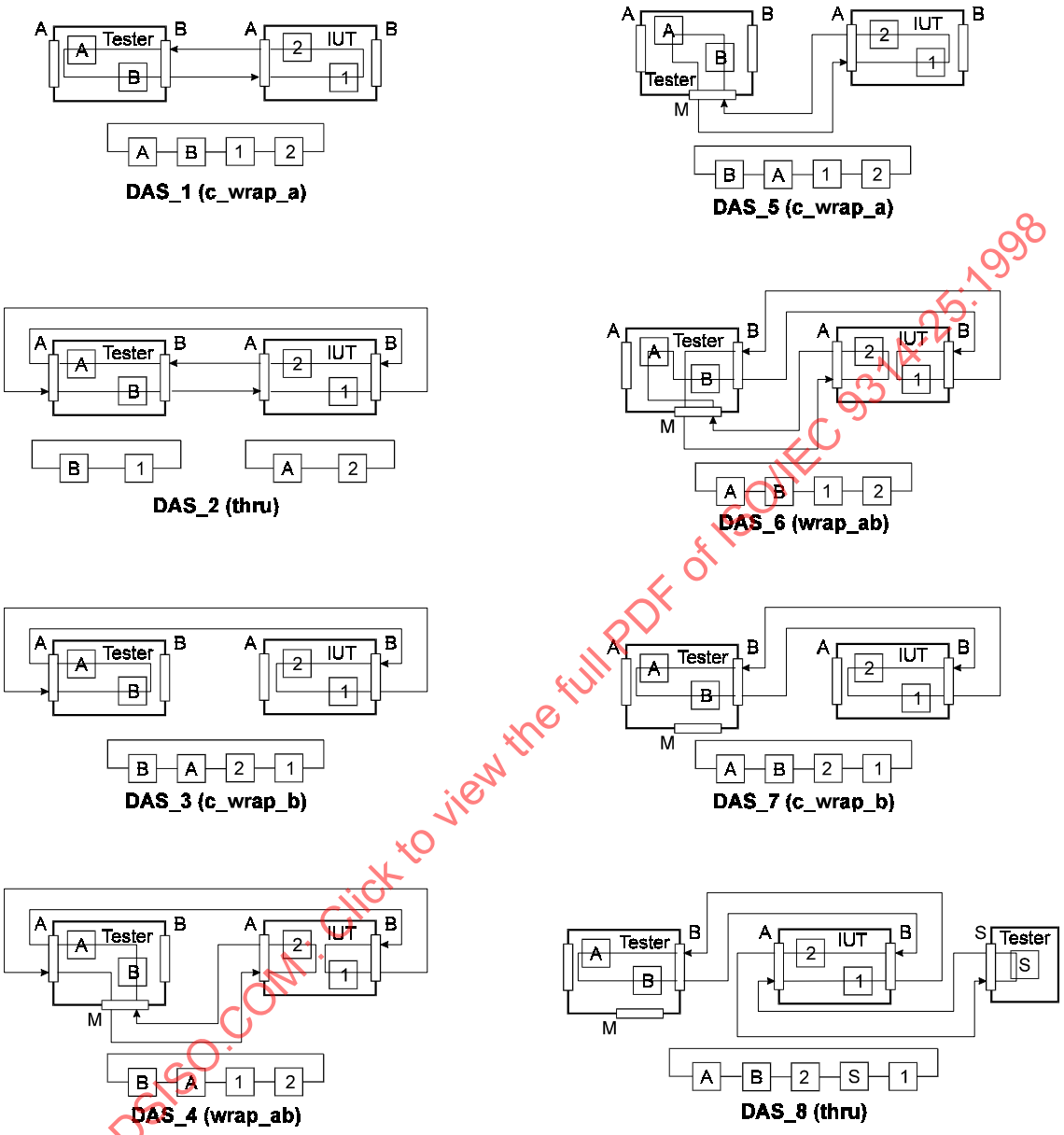

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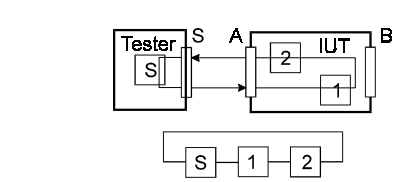
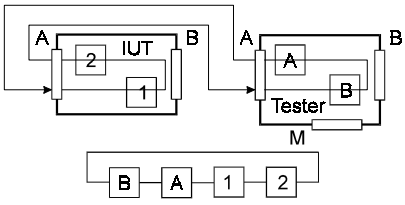
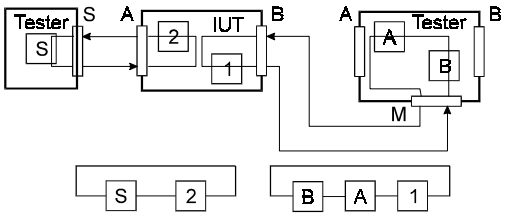
Figure 15 - Dual MAC DAS Test Configurations (1 of 3)



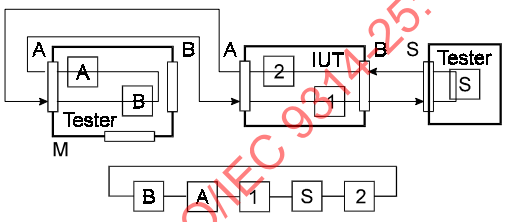
DAS_9 (c_wrap_a)



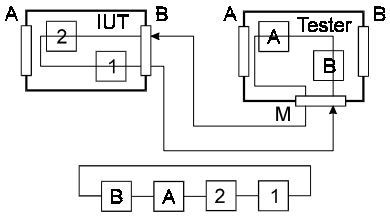
DAS_13 (c_wrap_a)



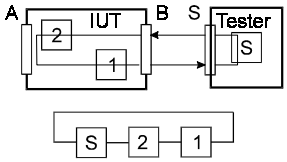
DAS_10 (wrap_ab)



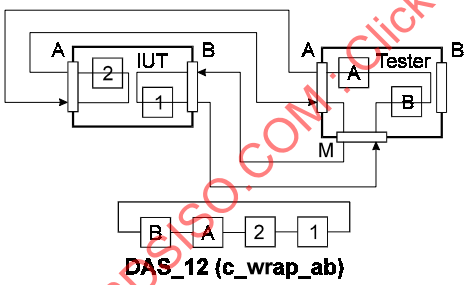
DAS_14 (thru)



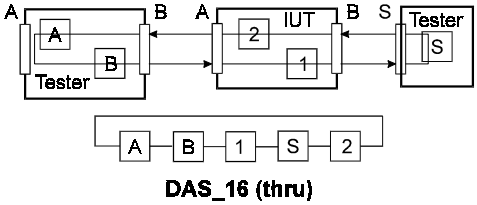
DAS_11 (c_wrap_b)



DAS_15 (c_wrap_b)



DAS_12 (c_wrap_ab)



DAS_16 (thru)

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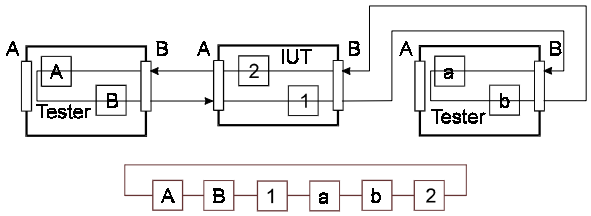
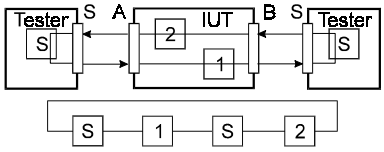
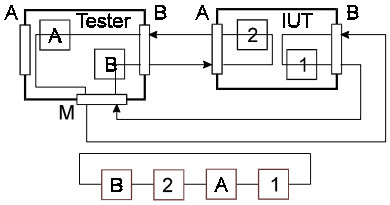
Figure 16 - Dual MAC DAS Test Configurations (2 of 3)



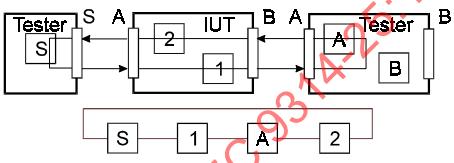
DAS_17 (thru)



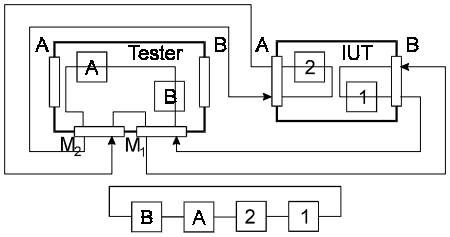
DAS_21 (thru)



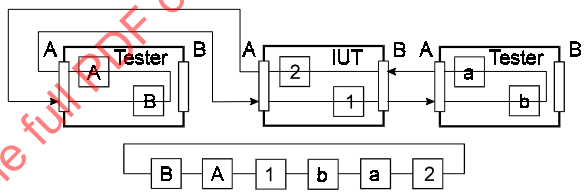
DAS_18 (wrap_ab)



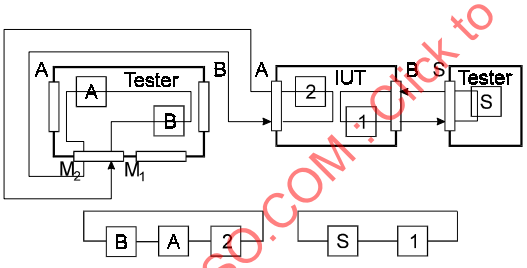
DAS_22 (thru)



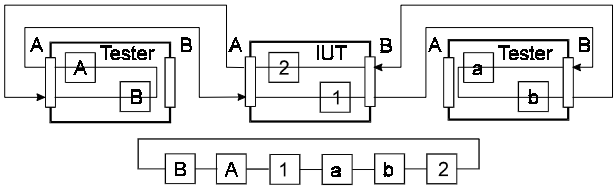
DAS_19 (wrap_ab)



DAS_23 (thru)



DAS_20 (wrap_ab)



DAS_24 (thru)

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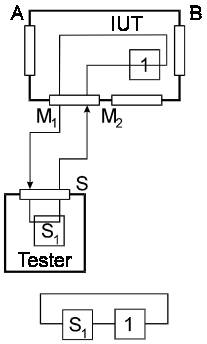
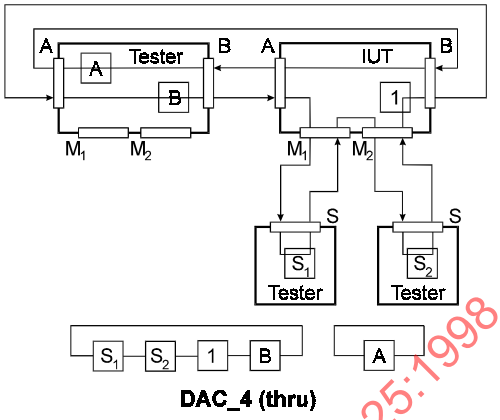
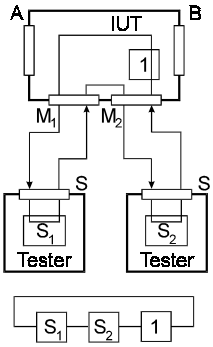
Figure 17 - Dual MAC DAS Test Configurations (3 of 3)



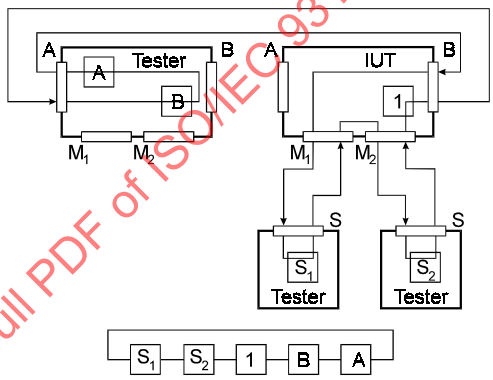
DAC_1 (isolated)



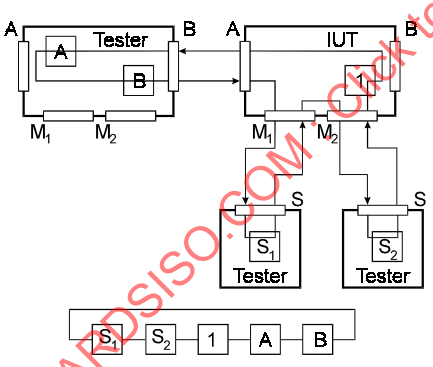
DAC_4 (thru)



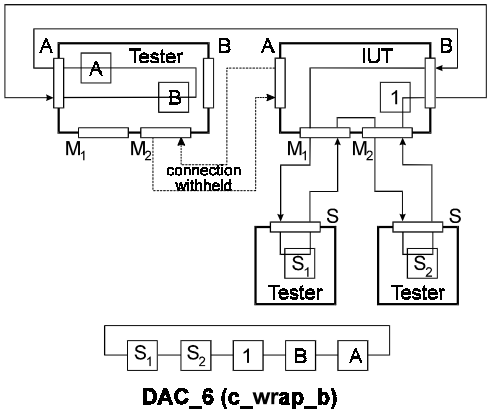
DAC_2 (isolated)



DAC_5 (c_wrap_b)



DAC_3 (c_wrap_a)



DAC_6 (c_wrap_b)

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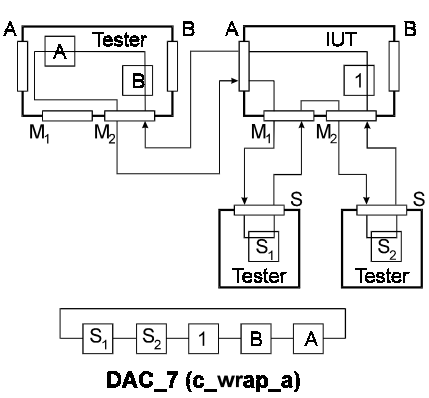
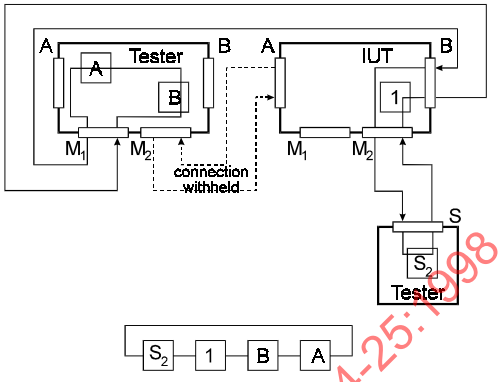
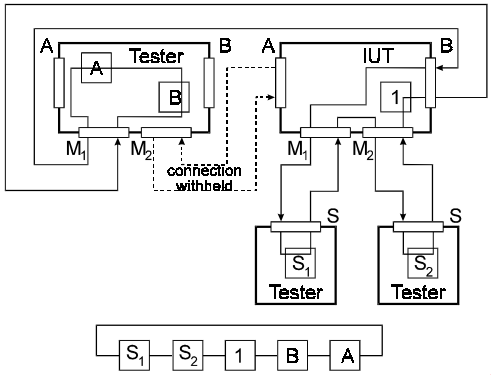
Figure 18 - Single MAC DAC Test Configurations (1 of 2)



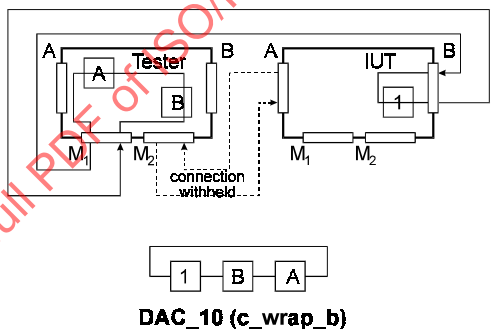
DAC_7 (c_wrap_a)



DAC_9 (c_wrap_b)



DAC_8 (c_wrap_b)



DAC_10 (c_wrap_b)

Figure 19 - Single MAC DAC Test Configurations (2 of 2)

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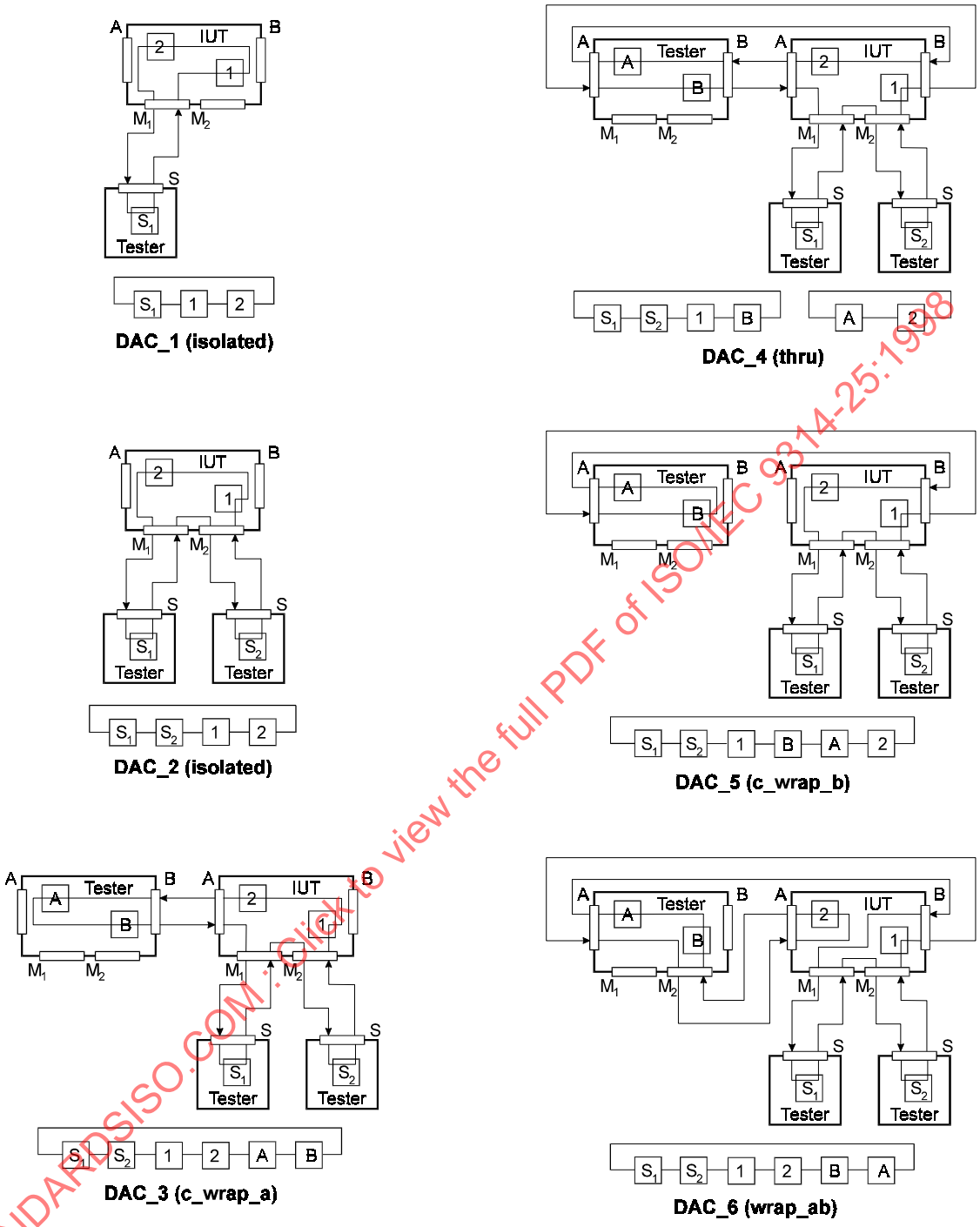

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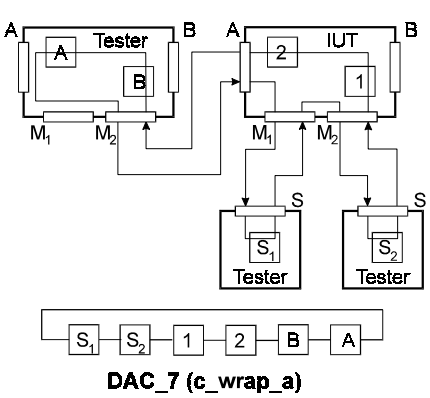
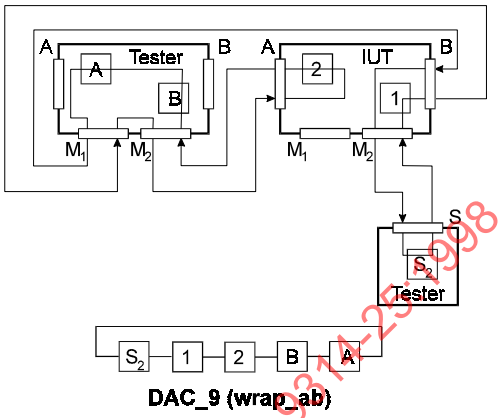
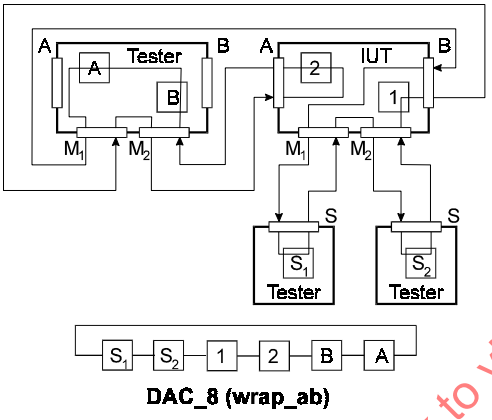
Figure 20 - Dual MAC DAC Test Configurations (1 of 2)



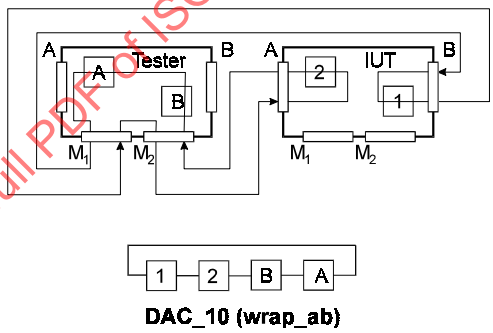
DAC_7 (c_wrap_a)



DAC_9 (wrap_ab)



DAC_8 (wrap_ab)



DAC_10 (wrap_ab)

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Figure 21 - Dual MAC DAC Test Configurations (2 of 2)

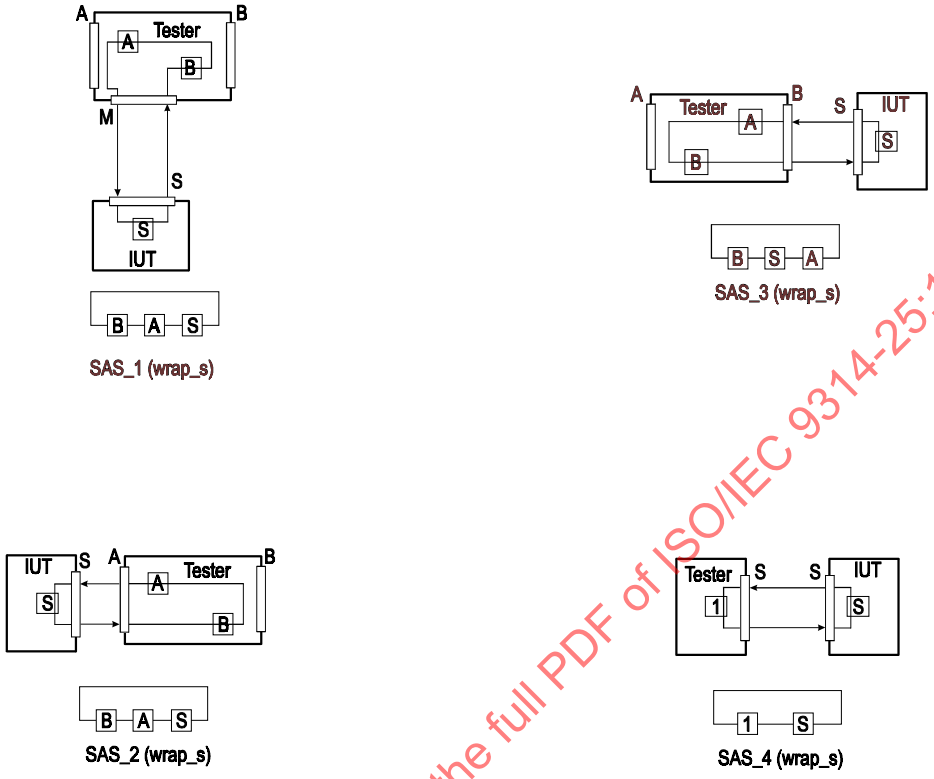

Figure 22 - SAS Test Configurations

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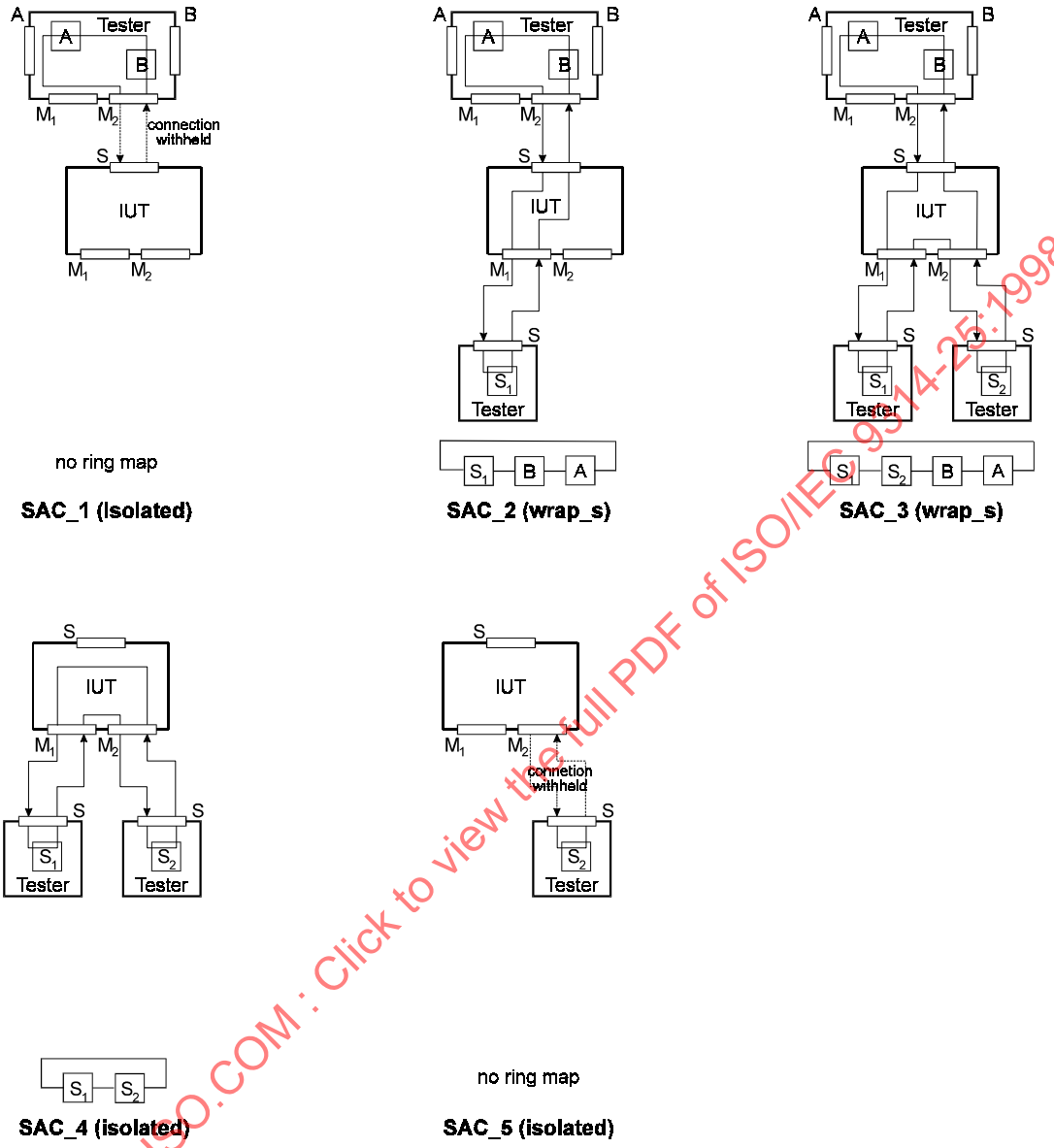

Figure 23 - No MAC SAC Test Configurations

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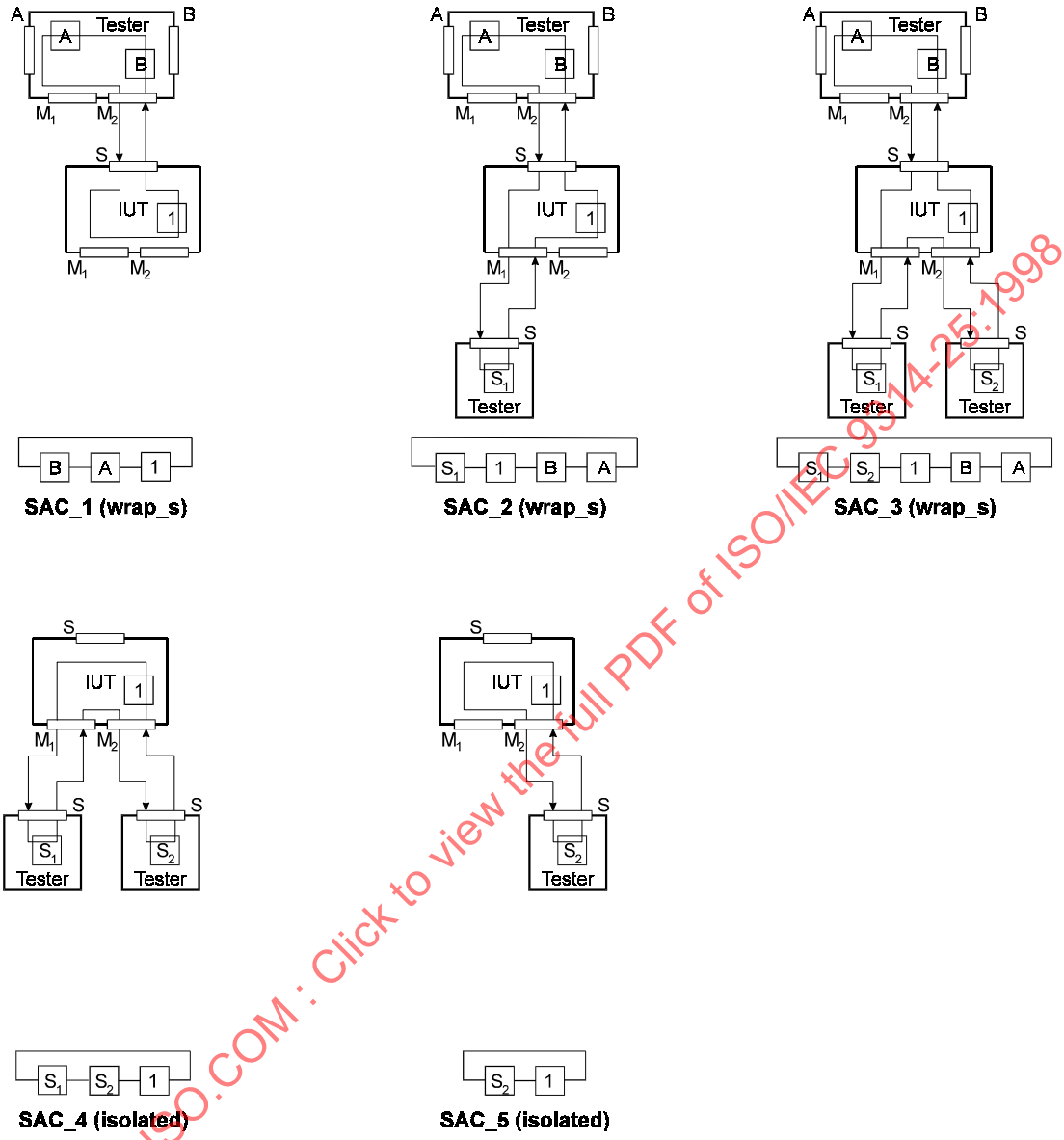

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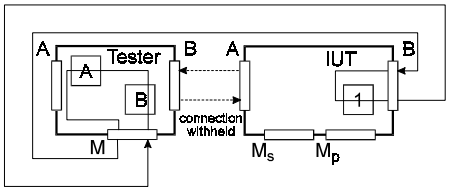
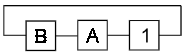
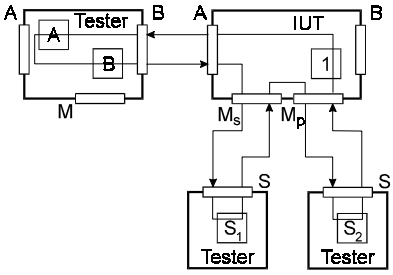
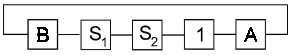
Figure 24 - Single MAC SAC Test Configurations



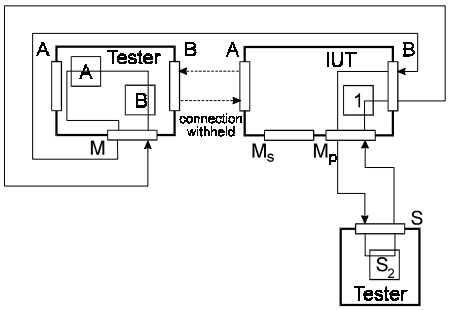


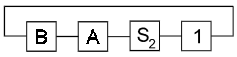
PP_1 (c_wrap_b)



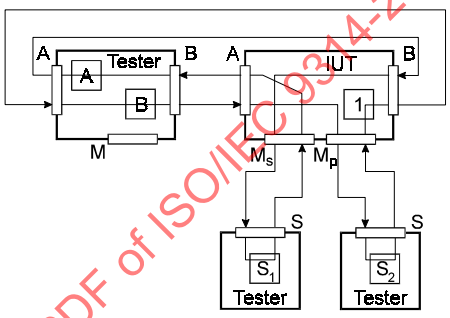


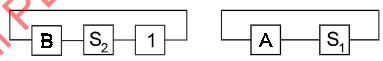
PP_4 (c_wrap_a)



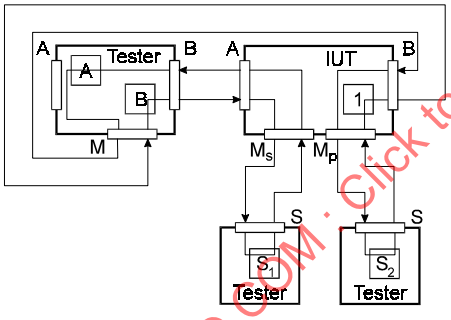


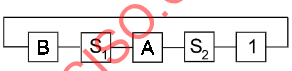
PP_2 (c_wrap_b)





PP_5 (thru)





PP_3 (wrap_ab)

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Figure 25 - Optional Master Port Permitted Path Single MAC DAC Test Configurations

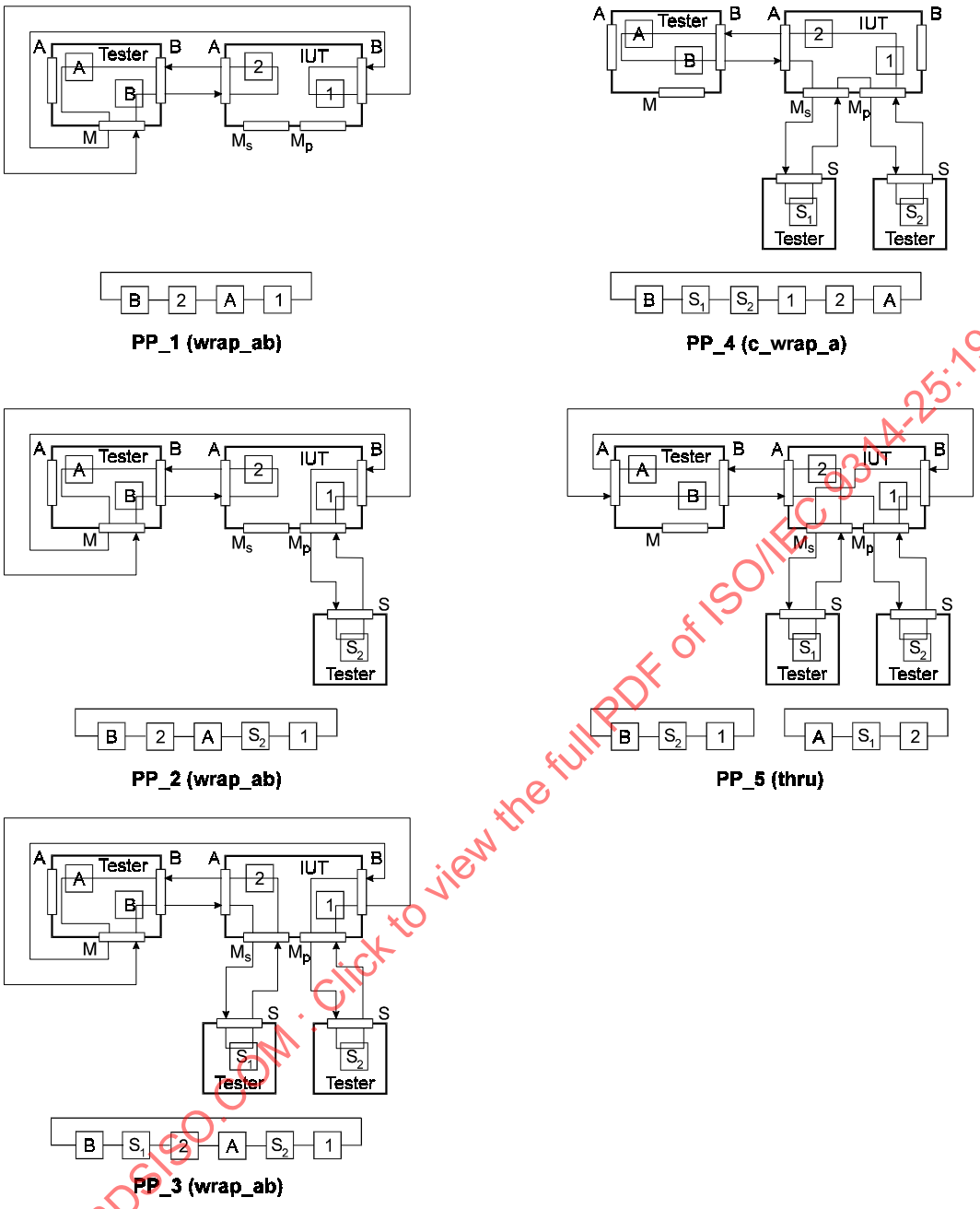

Figure 26 - Optional Master Port Permitted Path Dual MAC DAC Test Configurations

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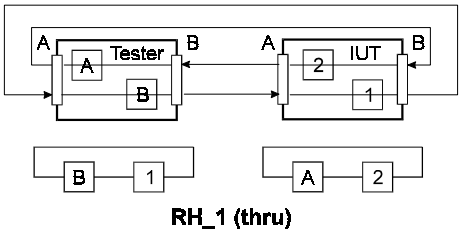

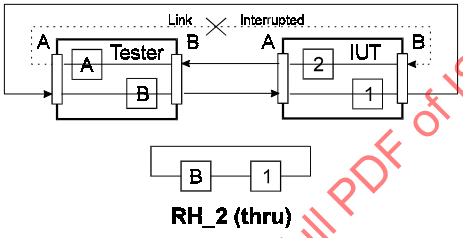

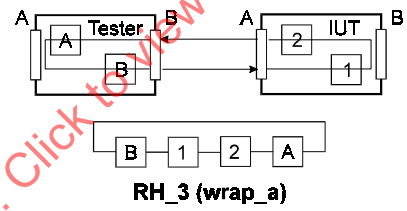

Figure 27 - Ring Hold Option DAS Test Configurations

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8 Ring Management (RMT) - Abstract Test Suite

8.1 Test Suite Overview

Test Suite Overview			
Suite Name : FDDI_RMT **Standards ref** : ISO/IEC 9314-6:1998. **PICS proforma ref** : ISO/IEC 9314-13:1997. **PIXIT proforma ref** : Annex A of this standard. **PICS/PIXIT use** : Test case selection and test suite parameters. **Test Method(s)** : Remote Single Layer. **Comments** :			
Test Case Identifier	**Test Case Reference**	**Page**	**Description**
My_Claim1	FDDI_RMT/DUP_ADD_-RESOL/TX_TOKEN/My_Claim1	143	Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Local Address after not Claiming or Beaconing for longer than 2 (D_Max).
My_Claim2	FDDI_RMT/DUP_ADD_-RESOL/BEACONING/-My_Claim2	145	Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Local Address while Beaconing for longer than 2 (D_Max).
My_Beacon	FDDI_RMT/DUP_ADD_-RESOL/My_Beacon	146	Verify that IUT resolves a duplicate address condition on the ring when it receives its own Beacon frame with Local Address while Claiming for longer than 2 (D_Max).
My_Claim_Diff_T_-Bid	FDDI_RMT/DUP_ADD_-RESOL/My_Claim_Diff_T_Bid	147	Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Universal Address and T_Bid<>T_Req and the time since T_Req changes is greater than 2(D_Max)
T_Ann	FDDI_RMT/DUP_ADD_-RESOL/T_Ann	149	Verify that IUT resolves a duplicate address condition on the ring when TRM>T_Announce. Note: IUT's MAC Address is Local Address
Directed_Beacon1	FDDI_RMT/STUCK_-BEACONING/NO_DUP_ADD/Directed_Beacon1	151	Verify that IUT transmits Directed Beacon frame when its MAC has Beaconed for longer than T_Stuck and there is no duplicate address on the ring.

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Test Case Identifier	Test Case Reference	Page	Description
Directed_Beacon2	FDDI_RMT/STUCK_-BEACONING/DUP_ADD/Directed_Beacon2	152	Verify that IUT transmits Directed Beacon frame when its MAC has Beaconed for longer than T_Stuck and there is a duplicate address on the ring.
Ring_Op	FDDI_RMT/REST_-DIALOG/Ring_Op	155	Verify that IUT terminates a Restricted Dialog that has persisted on the ring for longer than T_Rmode. Note: This test case is optional.
Ring_Op_Dup	FDDI_RMT/REST_-DIALOG/Ring_Op_Dup	156	Verify that IUT terminates a Restricted Dialog that has persisted on the ring for longer than T_Rmode and there is a duplicate address on the ring. Note: This Test case is optional.
Trace	FDDI_RMT/TRACE_-FUNCTION/Trace	158	Verify that IUT initiates the Trace function when its MAC has transmitted Directed Beacon frames for longer than T_Direct.
INIT_RING	FDDI_RMT/LIBRARY/-INIT_RING	159	Initiate the ring. At the end of initialization, the second Token would have circulated back to the tester.
INIT_BID	FDDI_RMT/LIBRARY/-INIT_BID	160	To initiate the T_Bid.
DUP_ADD_DETECT	FDDI_RMT/LIBRARY/-DUP_ADD_DETECT	161	Force IUT to detect a duplicate address condition on the ring.
DUP_ADD_DETECT1	FDDI_RMT/LIBRARY/-DUP_ADD_DETECT1	162	Force IUT to detect a duplicate address condition on the ring. Note: IUT's MAC Address is Local Address.
DUP_ADD_DETECT2	FDDI_RMT/LIBRARY/-DUP_ADD_DETECT2	163	Force IUT to detect a duplicate address condition on the ring. Note: IUT's MAC Address is Universal Address.
JAM_A1	FDDI_RMT/LIBRARY/-JAM_A1	164	IUT blocks its MACinput and sources Jam Beacon frames. Note: IUT's MAC Address is Local Address.
JAM_A2	FDDI_RMT/LIBRARY/-JAM_A2	165	IUT blocks its MAC input and sources Jam Beacon frames. Note: IUT's MAC Address is Universal Address.
JAM_ACTION1	FDDI_RMT/LIBRARY/-JAM_ACTION1	166	Verify that IUT performs Jam_Action by blocking its MAC input and sourcing Jam Beacon frames. Note: IUT's MAC Address is Local Address.

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Test Step Identifier	Test Step Reference	Page	Description
JAM_ACTION2	FDDI_RMT/LIBRARY/-JAM_ACTION2	167	Verify that IUT performs Jam_Action by blocking its MAC input and sourcing Jam Beacon frames. Note: IUT's MAC Address is Universal Address.
JAM_B1	FDDI_RMT/LIBRARY/-JAM_B1	168	IUT initiates the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Local Address.
JAM_B2	FDDI_RMT/LIBRARY/-JAM_B2	169	IUT initiates the Jam Beacon process twice while its MAC input is not blocked. Note:IUT's MAC Address is Universal Address.
DBJ_ACTION1	FDDI_RMT/LIBRARY/-DBJ_ACTION1	170	Verify that IUT performs Double Beacon Jam Action by initiating the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Local Address.
DBJ_ACTION2	FDDI_RMT/LIBRARY/-DBJ_ACTION2	171	Verify that IUT performs Double Beacon Jam Action by initiating the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Universal Address.
CHANGE_ADD	FDDI_RMT/LIBRARY/-CHANGE_ADD	172	IUT changes its MAC Local Address to Universal Address.
CHANGE_MAC_ADD	FDDI_RMT/LIBRARY/-CHANGE_MAC_ADD	172	Verify that IUTchanges its MAC Local Address to Universal Address.
TX_D_BEACON	FDDI_RMT/LIBRARY/-TX_D_BEACON	173	Verify that IUT transmits Directed Beacon frames after its MAC has Beaconed for longer than T_Stuck.
Default Identifier	**Default Reference**	**Page**	**Description**

8.2 User Type Definition

User Type Definitions			
Name	**Base Type**	**Definition**	**Comments**
SYMBOL		BITSTRING [5]	

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8.3 User Operation Definition

User Operation Definition
Operation Name : TWOS_COM (NUM:INTEGER) **Result Type** : INTEGER
Description
This operator will convert the integer NUM into two's complement format.

User Operation Definition
Operation Name : LINE_STATE_ILS **Result Type** : BOOLEAN
Description
This operator is equal "true" when the current line state is Idle Line State, "false" otherwise.

User Operation Definition
Operation Name : SEC_LINE_STATE_MLS **Result Type** : BOOLEAN
Description
This operator is equal "true" when the current line state on the secondary ring is Master Line State, "false" otherwise.

User Operation Definition
Operation Name : LINE_STATE_QLS **Result Type** : BOOLEAN
Description
This operator is equal "true" when the current line state is Quiet Line State, "false" otherwise.

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8.4 Test Suite Parameters

Test Suite Parameters			
Name	**Type**	**PICS/PIXIT Ref.**	**Comments**
IUT_ADDRESS	OCTETSTRING[6]	Annex A, 1.1	48_bit address assigned to IUT's MAC. MSB on the left.
IUT_L_ADD	OCTETSTRING[6]	Annex A, 1.2	48_bit Local Address assigned to IUT's MAC. MSB on the left.
IUT_U_ADD	OCTETSTRING[6]	Annex A, 1.3	48_bit Universal Address assigned to IUT's MAC. MSB on the left.
TESTER_ADDRESS	OCTETSTRING[6]	Annex A, 1.4	48_bit address assigned to Tester's MAC. MSB on the left.
OTHER_ADDRESS	OCTETSTRING[6]	Annex A, 1.5	48_bit address assigned to Other's MAC. MSB on the left.
T_REQ	INTEGER	Annex A, 4.1.1	Value of TTRT on IUT's MAC (in usec). The upper bound of this value is T_Max_LB.
T_REQ1	INTEGER	Annex A, 4.1.2	Another value of TTRT on IUT's MAC (in usec). The upper bound of this value is T_Max_LB.
T_REQ2	INTEGER	Annex A, 4.1.3	Value of TTRT on Other's MAC (in usec). The upper bound of this value is T_Max_LB
T_Max	INTEGER	Annex A, 4.2	Maximum TRT value (in usec).
T_Rmode_Value	INTEGER	Annex A, 4.3	T_Rmode value (in sec) for restricted dialog on the ring.

8.5 Test suite Constant

Test Suite Constants			
Name	**Type**	**Value**	**Comments**
JK	SYMBOL[2]	'1100010001'B	J and K SYMBOLS.
TT	SYMBOL[2]	'0110101101'B	Token's ED.
T	SYMBOL	'01101'B	T SYMBOL.
M	INTEGER	'1000000'B	Factor of multiplication for timers.
DELTA	INTEGER	1000	Timer adjustment factor, in usec.
SET	SYMBOL	'11001'B	SET symbol.
RESET	SYMBOL	'00111'B	RESET symbol.
SMT_SRF_DA	OCTETSTRING[6]	'800143008008'H	SRF Multicast Address.
SMT_Directed_Beacon_DA	OCTETSTRING[6]	'800143008000'H	SMT_Directed_Beacon Destination Address.

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8.6 Test Suite Variables

Test Suite Variables			
Name	**Type**	**Value**	**Comments**
T_NEG	INTEGER		TRT value in unit of usec, after the Claim process.
HIGHER_T_BID	INTEGER		Bid value higher than IUT's bid, in unit of 80 ns, in 2's complement.
LOWER_T_BID	INTEGER		Bid value lower than IUT's bid, in unit of 80ns, in 2's complement.
IUT_T_BID	INTEGER		IUT's bid, in unit of 80 ns in 2's complement.
DIFF_T_BID	INTEGER		Another IUT's bid, in unit of 80ns in 2's complement.
OTHER_T_BID	INTEGER		Other's bid, in unit of 80ns in 2's complement.
T1	INTEGER		Variable for temporary values.

8.7 Timer Declarations

Timer Declarations			
Timer Name	**Duration**	**Units**	**Comments**
D_Max	1773	us	Maximum Ring Latency time.
Twice_D_Max	3546	us	2(D_Max).
Timer_TRM	T_Max	us	Ring Management Timer. A timer used by RMT to monitor the MAC operation.
T_Non_Op	1	sec	Time to allow ring recovery to occur before duplicate address conditions are examined.
RM_React	83	ms	Maximum time for the RMT state machine to recognize that transition conditions exist and to execute the appropriate transition.
T_Jam	370	ms	Time for which Jam Beacon is sent.
T_DBJ	82	ms	Time to start second Beacon of Double Beacon Jam after the first Beacon is sent.
T_Direct	370	ms	Time for which Directed Beacon is sent before the Trace function is invoked.
T_Stuck	8	sec	Time to allow a Stuck Beacon condition before a Directed Beacon is sent, followed shortly by the initiation of a Trace.
T_Rmode	T_Rmode_-Value	sec	Time for which a Restricted Dialog may persist on the ring before being terminated by this MAC. Default value is 0 sec.
T_Announce	2500	ms	Default time for intervals between sending Jam Beacons.
T_Limit	2	sec	The rate-limiting interval for Status Report Protocol.
Topr	180	sec	Operator Timer (in seconds).

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8.8 PDU Type Declarations

8.8.1 PDU Declaration of Token

PDU Type Declaration		
PDU Name: TOKEN	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[1]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
ED	SYMBOL[2]	End Delimiter

8.8.2 PDU Declaration of Claim

PDU Type Declaration		
PDU Name: CLAIM	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
INFO	OCTETSTRING[1]	T_Bid Value
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

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8.8.3 PDU Declaration of Beacon

PDU Type Declaration		
PDU Name: BEACON	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
INFO1	OCTETSTRING[1]	First byte of Info
INFO2	OCTETSTRING[3]	Last three bytes of Info
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

8.8.4 PDU Declaration of Directed Beacon

PDU Type Declaration		
PDU Name: D_BEACON	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
BEACON_INFO	GROUP	
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

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8.8.5 PDU Declaration of Jam Beacon

PDU Type Declaration		
PDU Name: J_BEACON	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
BEACON_INFO	GROUP	
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

8.8.6 PDU Declaration of Status Report Frame

PDU Type Declaration		
PDU Name: SRF_FRAME	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
INFO_SRF	GROUP	Text of SRF frame
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

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8.8.7 PDU Declaration of Neighbour Information Frame

PDU Type Declaration		
PDU Name: NIF_FRAME	**PCO Type:**	**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
SD	SYMBOL[2]	Start Delimiter
FC	OCTETSTRING[1]	Frame Control
DA	OCTETSTRING[6]	Destination Address
SA	OCTETSTRING[6]	Source Address
INFO_NIF	GROUP	Text of NIF frames
FCS	OCTETSTRING[4]	Frame Check Sequence
ED	SYMBOL[1]	End Delimiter
FS_E	SYMBOL[1]	Control Indicator E (Error)
FS_A	SYMBOL[1]	Control Indicator A (Address)
FS_C	SYMBOL[1]	Control Indicator C (Copy)
FS_2	SYMBOL[0..4]	Additional Control Indicators
FS_T	SYMBOL[1]	Symbol T

8.9 PDU Field Group Type Declarations

8.9.1 BEACON_INFO

PDU Field Group Type Declaration		
Field Group Name: BEACON_INFO		**Comments:**
PDU Field Information		
Field Name	**Type**	**Comments**
BEACON_TYPE	OCTETSTRING[1]	
PAD	OCTETSTRING[3]	
UNA	OCTETSTRING[6]	

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8.9.2 INFO_SRF

PDU Field Group Type Declaration		
Field Group Name: INFO_SRF	**Comments:**	
PDU Field Information		
Field Name	**Type**	**Comments**
FRAME_CLASS	OCTETSTRING[1]	SRF (Status Report Frame)
FRAME_TYPE	OCTETSTRING[1]	Announcement=01
VERSION_ID	OCTETSTRING[2]	
TRANSACTION_ID	OCTETSTRING[4]	
STATION_ID1	OCTETSTRING[2]	
STATION_ID2	OCTETSTRING[6]	
PAD	OCTETSTRING[2]	
INFO_FIELD_LENGTH	OCTETSTRING[2]	
PARAMETER_TYPE1	OCTETSTRING[2]	X'1033', fddiSMTTimeStamp
PARAMETER_LENGTH1	OCTETSTRING[2]	
SRF_DATA1	OCTETSTRING[8]	
PARAMETER_TYPE2	OCTETSTRING[2]	X'1034', fddiSMTTransitionTimeStamp
PARAMETER_LENGTH2	OCTETSTRING[2]	
SRF_DATA2	OCTETSTRING[8]	
PARAMETER_TYPE3	OCTETSTRING[2]	X'208C', fddiMACDuplicateAddressCondition
PARAMETER_LENGTH3	OCTETSTRING[2]	
RESOURCE_INDEX	OCTETSTRING[4]	
PAD31	OCTETSTRING[3]	
SRF_DATA31	OCTETSTRING[1]	ConditionState: True=1;False=0
PAD32	OCTETSTRING[2]	
SRF_DATA32	OCTETSTRING[2]	DupCondition: mydup='0000'H (DA_Flag=SET); unadup='0001'H (UNDA_Flag=SET)
SRF_DATA33	OCTETSTRING[6]	My_Long_Address
SRF_DATA34	OCTETSTRING[6]	UNA_Long_Address

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8.9.3 INFO_NIF

PDU Field Group Type Declaration		
Field Group Name: INFO_NIF	**Comments:**	
PDU Field Information		
Field Name	**Type**	**Comments**
FRAME_CLASS	OCTETSTRING[1]	NIF (Neighbor Information Frame)
FRAME_TYPE	OCTETSTRING[1]	Ann=01, Req=02, Resp=03
VERSION_ID	OCTETSTRING[2]	
TRANSACTION_ID	OCTETSTRING[4]	
STATION_ID1	OCTETSTRING[2]	
STATION_ID2	OCTETSTRING[6]	
PAD	OCTETSTRING[2]	
INFO_FIELD_LENGTH	OCTETSTRING[2]	
PARAMETER_TYPE	OCTETSTRING[2]	X'0001', Upstream Neighbor Address (UNA)
PARAMETER_LENGTH	OCTETSTRING[2]	
NIF_DATA1	OCTETSTRING[2]	
NIF DATA2	OCTETSTRING[0..32]	

8.10 PDU Constraint Declarations

8.10.1 PDU Constraint Declaration of Unrestricted Token

PDU Constraint Declaration	
PDU Name: TOKEN	**Constraint Name:** TOKEN_UR
Field Name	**Value**
SD	JK
FC	'80'H
ED	TT
Comments:	

8.10.2 PDU Constraint Declaration of Restricted Token

PDU Constraint Declaration	
PDU Name: TOKEN	**Constraint Name:** TOKEN_R
Field Name	**Value**
SD	JK
FC	'C0'H
ED	TT
Comments:	

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8.10.3 PDU Constraint Declaration of IUT's Claim

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_IUT(BID: integer)
Field Name	**Value**
SD	JK
FC	'C3'H
DA	IUT_ADDRESS
SA	IUT_ADDRESS
INFO	BID
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments: IUT Claim frame, BID contains the Value of T_Req.	

8.10.4 PDU Constraint Declaration of IUT's Claim Using Local Address

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_IUT1(BID: integer)
Field Name	**Value**
SD	JK
FC	'C3'H
DA	IUT_L_ADD
SA	IUT_L_ADD
INFO	BID
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments: IUT Claim frame, BID contains the Value of T_Req.	

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8.10.5 PDU Constraint Declaration of IUT's Claim Using Universal Address

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_IUT2(BID: integer)
Field Name	**Value**
SD	JK
FC	'C3'H
DA	IUT_U_ADD
SA	IUT_U_ADD
INFO	BID
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments: UT Claim frame, BID contains the Value of T_Req.	

8.10.6 PDU Constraint Declaration of Tester's Claim

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_TESTER(BID: integer)
Field Name	**Value**
SD	JK
FC	'C3'H
DA	TESTER_ADDRESS
SA	TESTER_ADDRESS
INFO	BID
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments: Tester Claim frame, BID contains the Value of T_Req.	

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8.10.7 PDU Constraint Declaration of Other Claim

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_OTHER(BID: integer)
Field Name	**Value**
SD	JK
FC	'C3'H
DA	OTHER_ADDRESS
SA	OTHER_ADDRESS
INFO	BID
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments: Other Claim frame, BID contains the Value of T_Req.	

8.10.8 PDU Constraint Declaration of Stripped Claim

PDU Constraint Declaration	
PDU Name: CLAIM	**Constraint Name:** CLAIM_STRIP
Field Name	**Value**
SD	JK
FC	'C3'H
DA	IUT_L_ADD
SA	IUT_L_ADD
INFO	-
FCS	-
ED	-
FS_E	-
FS_A	-
FS_C	-
FS_2	-
FS_T	-
Comments:	

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8.10.9 PDU Constraint Declaration of IUT's Beacon

PDU Constraint Declaration	
PDU Name: BEACON	**Constraint Name:** BEACON_IUT
Field Name	**Value**
SD	JK
FC	'C2'H
DA	'000000000000'H
SA	IUT_ADDRESS
INFO1	'00'H
INFO2	'000000'H
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

8.10.10 PDU Constraint Declaration of IUT's Beacon Using Local Address

PDU Constraint Declaration	
PDU Name: BEACON	**Constraint Name:** BEACON_IUT1
Field Name	**Value**
SD	JK
FC	'C2'H
DA	'000000000000'H
SA	IUT_L_ADD
INFO1	'00'H
INFO2	'000000'H
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.10.11 PDU Constraint Declaration of IUT's Beacon Using Universal Address

PDU Constraint Declaration	
PDU Name: BEACON	**Constraint Name:** BEACON_IUT2
Field Name	**Value**
SD	JK
FC	'C2'H
DA	'000000000000'H
SA	IUT_U_ADD
INFO1	'00'H
INFO2	'0000'H
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

8.10.12 PDU Constraint Declaration of Tester's Beacon

PDU Constraint Declaration	
PDU Name: BEACON	**Constraint Name:** BEACON_TESTER
Field Name	**Value**
SD	JK
FC	'C2'H
DA	'000000000000'H
SA	TESTER_ADDRESS
INFO1	'00'H
INFO2	'000000'H
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.10.13 PDU Constraint Declaration of Stripped Beacon

PDU Constraint Declaration	
PDU Name: BEACON	**Constraint Name:** BEACON_STRIP
Field Name	**Value**
SD	JK
FC	'C2'H
DA	'000000000000'H
SA	IUT_L_ADD
INFO1	-
INFO2	-
FCS	-
ED	-
FS_E	-
FS_A	-
FS_C	-
FS_2	-
FS_T	-
Comments:	

8.10.14 PDU Constraint Declaration of IUT's Directed Beacon

PDU Constraint Declaration	
PDU Name: D_BEACON	**Constraint Name:** D_BEACON_IUT
Field Name	**Value**
SD	JK
FC	'C2'H
DA	SMT_Directed_Beacon_DA
SA	IUT_ADDRESS
BEACON_INFO	DIRECTED_INFO
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.10.15 PDU Constraint Declaration of IUT's Directed Beacon Using Universal Address

PDU Constraint Declaration	
PDU Name: D_BEACON	**Constraint Name:** D_BEACON_IUT2
Field Name	**Value**
SD	JK
FC	'C2'H
DA	SMT_Directed_Beacon_DA
SA	IUT_U_ADD
BEACON_INFO	DIRECTED_INFO
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

8.10.16 PDU Constraint Declaration of IUT's Directed Beacon Using Local Address

PDU Constraint Declaration	
PDU Name: J_BEACON	**Constraint Name:** J_BEACON_IUT1
Field Name	**Value**
SD	JK
FC	'C2'H
DA	IUT_L_ADD
SA	IUT_L_ADD
BEACON_INFO	JAM_INFO
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.10.17 PDU Constraint Declaration of IUT's Jammed Beacon Using Universal Address

PDU Constraint Declaration	
PDU Name: J_BEACON	**Constraint Name:** J_BEACON_IUT2
Field Name	**Value**
SD	JK
FC	'C2'H
DA	IUT_U_ADD
SA	IUT_U_ADD
BEACON_INFO	JAM_INFO
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

8.10.18 PDU Constraint Declaration of IUT's Status Report Frame

PDU Constraint Declaration	
PDU Name: SRF_FRAME	**Constraint Name:** SRF_ANN
Field Name	**Value**
SD	JK
FC	'41'H
DA	SMT_SRF_DA
SA	IUT_ADDRESS
INFO_SRF	INFO_SRF_ANN
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.10.19 PDU Constraint Declaration of IUT's NIF Request Frame

PDU Constraint Declaration	
PDU Name: NIF_FRAME	**Constraint Name:** NIF_REQ
Field Name	**Value**
SD	JK
FC	'4F'H
DA	'FFFFFFFFFFFF'H
SA	IUT_ADDRESS
INFO_NIF	INFO_NIF_REQ
FCS	?
ED	T
FS_E	RESET
FS_A	RESET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

8.10.20 PDU Constraint Declaration of IUT's NIF Response Frame

PDU Constraint Declaration	
PDU Name: NIF_FRAME	**Constraint Name:** NIF_RESP
Field Name	**Value**
SD	JK
FC	'41'H
DA	IUT_ADDRESS
SA	TESTER_ADDRESS
INFO_NIF	INFO_NIF_RESP
FCS	?
ED	T
FS_E	RESET
FS_A	SET
FS_C	RESET
FS_2	-
FS_T	T
Comments:	

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8.11 PDU Field Group Constraint Declarations

8.11.1 PDU Field Group Constraint Declaration of Directed BEACON_INFO

PDU Field Group Constraint Declaration	
Field Group Name: BEACON_INFO	**Constraint Name:** DIRECTED_INFO
Field Name	**Value**
BEACON_TYPE PAD UNA	‘01'H ‘000000'H ?
Comments:	

8.11.2 PDU Field Group Constraint Declaration of Jammed BEACON_INFO

PDU Field Group Constraint Declaration	
Field Group Name: BEACON_INFO	**Constraint Name:** JAM_INFO
Field Name	**Value**
BEACON_TYPE PAD UNA	‘02'H ‘000000'H ?
Comments:	

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8.11.3 PDU Field Group Constraint Declaration of SRF_INFO

PDU Field Group Constraint Declaration	
Field Group Name: INFO_SRF	**Constraint Name:** INFO_SRF_ANN
Field Name	**Value**
FRAME_CLASS	'07'H
FRAME_TYPE	'01'H
VERSION_ID	'0002'H
TRANSACTION_ID	'00000002'H
STATION_ID1	0000'H
STATION_ID2	IUT_ADDRESS
PAD	0000'H
INFO_FIELD_LENGTH	'0034'H
PARAMETER_TYPE1	'1033'H
PARAMETER_LENGTH1	'0008'H
SRF_DATA1	?
PARAMETER_TYPE2	'1034'H
PARAMETER_LENGTH2	'0008'H
SRF_DATA2	?
PARAMETER_TYPE3	'208C'H
PARAMETER_LENGTH3	'0018'H
RESOURCE_INDEX	?
PAD31	'000000'H
SRF_DATA31	'01'H
PAD32	'0000'H
SRF_DATA32	'0000'H
SRF_DATA33	IUT_ADDRESS
SRF_DATA34	?
Comments:	

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8.11.4 PDU Field Group Constraint Declaration of Requested NIF_INFO

PDU Field Group Constraint Declaration	
Field Group Name: INFO_NIF	**Constraint Name:** INFO_NIF_REQ
Field Name	**Value**
FRAME_CLASS	‘01'H
FRAME_TYPE	‘02'H
VERSION_ID	‘0001'H
TRANSACTION_ID	‘00000001'H
STATION_ID1	‘0000'H
STATION_ID2	IUT_ADDRESS
PAD	‘0000'H
INFO_FIELD_LENGTH	‘000C'H
PARAMETER_TYPE	‘0001'H
PARAMETER_LENGTH	‘0008'H
NIF_DATA1	‘0000'H
NIF_DATA2	IUT_ADDRESS[6]
Comments:	

8.11.5 PDU Field Group Constraint Declaration of Responded NIF_INFO

PDU Field Group Constraint Declaration	
Field Group Name: INFO_NIF	**Constraint Name:** INFO_NIF_RESP
Field Name	**Value**
FRAME_CLASS	‘01'H
FRAME_TYPE	‘03'H
VERSION_ID	‘0001'H
TRANSACTION_ID	‘00000001'H
STATION_ID1	‘0000'H
STATION_ID2	TESTER_ADDRESS
PAD	‘0000'H
INFO_FIELD_LENGTH	‘000C'H
PARAMETER_TYPE	‘0001'H
PARAMETER_LENGTH	‘0008'H
NIF_DATA1	‘0000'H
NIF_DATA2	IUT_ADDRESS[6]
Comments:	

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8.12 Test Case Dynamic Behavior

8.12.1 My_Claim1

Test Case Dynamic Behavior				
Reference : FDDI_RMT/DUP_ADD_RESOL/TX_TOKEN/My_Claim1 **Identifier** : My_Claim1 **Purpose** : Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Local Address after not Claiming or Beaconing for longer than 2(D_Max). **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT1				(1)
!BEACON START D_Max		BEACON_IUT1		
?CLAIM	L0	CLAIM_IUT1(IUT_T_BID)		(2)
!CLAIM START D_Max		CLAIM_IUT1(IUT_T_BID)		
?TOKEN	L1	TOKEN_UR		(3)
START Twice_D_Max				
!TOKEN	L2	TOKEN_UR		
?TOKEN		TOKEN_UR		
GOTO L2				
?TIMEOUT Twice_D_Max				(4)
!CLAIM (T_NEG:=T_REQ)	L3	CLAIM_IUT1(IUT_T_BID)		(5)
!CLAIM (T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(6)
START RM_React				
?CLAIM		CLAIM_STRIP	(P)	(7)
+CHANGE_MAC_ADD				(8)
?CLAIM		CLAIM_OTHER(OTHER_T_BID)	(P)	(9)
+JAM_ACTION1				(10)
+DBJ_ACTION1				(11)
[LINE_STATE_QLS=TRUE]			P	(12)
?TOKEN		TOKEN_UR		
GOTO L3				
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
?CLAIM		CLAIM_IUT1(IUT_T_BID)		
!CLAIM		CLAIM_IUT1(IUT_T_BID)		
GOTO L1				
?OTHERWISE			F	
?TIMEOUT D_Max			F	
?BEACON		BEACON_IUT1		
!BEACON		BEACON_IUT1		
GOTO L0				

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Behavior Description	Label	Constraints Reference	V	Comments
?OTHERWISE			F	
?TIMEOUT D_Max			F	

Extended Comments:

(1) IUT starts to detect a duplicate address condition on the ring.
(2) IUT's MAC is in the Claim process.
(3) IUT's MAC transmits a Token.
(4) 2(D_Max) expires. IUT's MAC has transmitted Token for 2(D_Max).
(5) IUT receives its own Claim frame with Local Address after not Claiming or Beaconing for longer than 2(D_Max).
(6) IUT receives other Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB.
(7) IUT scrubs its own Claim frame using its Local Address.
(8) IUT changes its Local Address to UniversalAddress.
(9) IUT configures its MAC to yield in the Claim process to the other MAC.
(10) IUT performs Jam Action.
(11) IUT performs Double Jam Beacon Action.
(12) IUT disconnects the signal (removes its MAC from the ring).

RM(34a)

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8.12.2 My_Claim2

Test Case Dynamic Behavior				
Reference : FDDI_RMT/DUP_ADD_RESOL/BEACONING/My_Claim2 **Identifier** : My_Claim2 **Purpose** : Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Local Address while Beaconing for longer than 2(D_Max). **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT1				(1)
START Twice_D_Max				
?BEACON	L0	BEACON_IUT1		(2)
GOTO L0				
?TIMEOUT Twice_D_Max				(3)
!CLAIM(T_NEG:=T_REQ)	L1	CLAIM_IUT1(IUT_T_BID)		(4)
!CLAIM(T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(5)
START RM_React				
?CLAIM		CLAIM_STRIP	(P)	(6)
+CHANGE_MAC_ADD				(7)
?CLAIM		CLAIM_OTHER(OTHER_T_BID)	(P)	(8)
+JAM_ACTION1				(9)
+DBJ_ACTION1				(10)
[LINE_STATE_QLS=TRUE]			P	(11)
?BEACON		BEACON_IUT1		
GOTO L1				
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
Extended Comments: (1) IUT starts to detect a duplicate address condition on the ring. (2) IUT's MAC is in the Beacon process. (3) 2(D_Max) expires. IUT's MAC has been Beaconing for 2(D_Max). (4) IUT receives its own Claim frame with Local Address while Beaconing for longer than 2(D_Max). (5) IUT receives other Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB. (6) IUT scrubs its own Claim frame using its Local Address. (7) IUT changes its MAC Local Address to Universal Address. (8) IUT configures its MAC to yield in the Claim process to the other MAC. (9) IUT performs Jam Action. (10) IUT performs Double Beacon Jam Action. (11) IUT disconnects the signal (removes its MAC from the ring). RM(34a)				

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8.12.3 My_Beacon

Test Case Dynamic Behavior

Reference : FDDI_RMT/DUP_ADD_RESOL/My_Beacon
Identifier : My_Beacon
Purpose : Verify that IUT resolves a duplicate address condition on the ring when it receives its own Beacon frame with Local Address while Claiming for longer than 2(D_Max).
Default :

Behavior Description	Label	Constraints Reference	V	Comments
+DUP_ADD_DETECT1				(1)
!BEACON		BEACON_IUT1		(2)
START D_Max				
?CLAIM	L0	CLAIM_IUT1(IUT_T_BID)		(3)
START Twice_D_Max				
!CLAIM(T_NEG:=T_REQ+DELTA)	L1	CLAIM_TESTER(LOWER_T_BID)		
?CLAIM		CLAIM_IUT1(IUT_T_BID)		
GOTO L1				
?TIMEOUT Twice_D_Max				(4)
!BEACON	L2	BEACON_IUT1		(5)
!CLAIM(T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(6)
START RM_React				
?BEACON		BEACON_STRIP	(P)	(7)
+CHANGE_MAC_ADD				(8)
?CLAIM		CLAIM_OTHER(OTHER_T_BID)	(P)	(9)
+JAM_ACTION1				(10)
+DBJ_ACTION1				(11)
[LINE_STATE_QLS=TRUE]			P	(12)
?CLAIM		CLAIM_IUT1(IUT_T_BID)		
GOTO L2				
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
?BEACON		BEACON_IUT1		
!BEACON		BEACON_IUT1		
GOTO L0				
?OTHERWISE			F	
?TIMEOUT D_Max			F	

Extended Comments:

(1) IUT starts to detect a duplicate address condition on the ring.
(2) Force IUT's MAC to enter the Claim process.
(3) IUT's MAC is in the Claim process.
(4) 2(D_Max) expires. IUT's MAC has Claimed for 2(D_Max).
(5) IUT receives its own Beacon frame with Local Address while Claiming for longer than 2(D_Max).
(6) IUT receives other Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB.
(7) IUT scrubs its own Claim frame using its Local Address.
(8) IUT changes its MAC Local Address to Universal Address.
(9) IUT configures its MAC to yield in the Claim process to the other MAC.
(10) IUT performs Jam Action.
(11) IUT performs Double Beacon Jam Action.
(12) IUT disconnects the signal (removes its MAC from the ring).

RM(34b)

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8.12.4 My_Claim_Diff_T_Bid

Test Case Dynamic Behavior				
Reference : FDDI_RMT/DUP_ADD_RESOL/My_Claim_Diff_T_Bid **Identifier** : My_Claim_Diff_T_Bid **Purpose** : Verify that IUT resolves a duplicate address condition on the ring when it receives its own Claim frame with Universal Address and T_Bid<>T_Req and the time since T_Req changes is greater than 2(D_Max). **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT2				(1)
!BEACON		BEACON_IUT2		(2)
START D_Max				
?CLAIM	L0	CLAIM_IUT2(IUT_T_BID)		(3)
START Twice_D_Max				
!CLAIM(T_NEG:=T_REQ+DELTA)	L1	CLAIM_TESTER(LOWER_T_BID)		
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
GOTO L1				
?TIMEOUT Twice_D_Max				(4)
!CLAIM(T_NEG:=T_REQ1)	L2	CLAIM_IUT2(DIFF_T_BID)		(5)
!CLAIM(T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(6)
START RM_React				
?CLAIM		CLAIM_OTHER(OTHER_T_BID)	(P)	(7)
+JAM_ACTION2				(8)
+DBJ_ACTION2				(9)
[LINE_STATE_QLS=TRUE]			P	(10)
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
GOTO L2				
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
?BEACON		BEACON_IUT2		
!BEACON		BEACON_IUT2		
GOTO L0				
?OTHERWISE			F	
?TIMEOUT D_Max			F	
Extended Comments: (1) IUT starts to detect a duplicate address condition on the ring. (2) Force IUT's MAC to enter the Claim process. (3) IUT's MAC is in the Claim process. (4) 2(D_Max) expires. IUT's MAC has Claimed for 2(D_Max). (5) IUT receives its own Claim frame with T_Bid<>T_Req and the time since T_Req changes is greater than 2(D_Max). (6) IUT receives other Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB. (7) IUT configures its MAC to yield in the Claim process to the other MAC. (8) IUT performs Jam Action. (9) IUT performs Double Beacon Jam Action. (10) IUT disconnects the signal (removes its MAC from the ring). RM(34c)				

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8.12.5 T_Ann

Test Case Dynamic Behavior				
Reference : FDDI_RMT/DUP_ADD_RESOL/T_Ann **Identifier** : T_Ann **Purpose** : Verify that IUT resolves a duplicate address condition on the ring when TRM>T_Announce. Note: IUT's MAC Address is Local Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT1				(1)
!BEACON		BEACON_IUT1		(2)
START D_Max				
?CLAIM	L0	CLAIM_IUT1(IUT_T_BID)		(3)
START Twice_D_Max				
!CLAIM(T_NEG:=T_REQ+DELTA)	L1	CLAIM_TESTER(LOWER_T_BID)		
?CLAIM		CLAIM_IUT1(IUT_T_BID)		
GOTO L1				
?TIMEOUT Twice_D_Max				(4)
!BEACON	L2	BEACON_IUT1		(5)
!CLAIM(T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(6)
START RM_React				
?BEACON		BEACON_STRIP		(7)
+CHANGE_ADD				(8)
START T_Announce				
?TIMEOUT T_Announce	L3			(9)
!BEACON		BEACON_IUT1		(5)
		CLAIM_OTHER(OTHER_T_BID)		(6)
!CLAIM(T_NEG:=T_REQ2)				
START RM_React				
?BEACON		BEACON_STRIP	(P)	(7)
				(8)
+CHANGE_MAC_ADD				
?CLAIM		CLAIM_OTHER(OTHER_T_BID)	(P)	(10)
				(11)
+JAM_ACTION1				
				(12)
+DBJ_ACTION1				
			P	(13)
[LINE_STATE_QLS=TRUE]				
?OTHERWISE			F	
?TIMEOUT			F	
RM_React				
?CLAIM		CLAIM_OTHER(OTHER_T_BID)		(10)
+JAM_A1				(11)
START T_Announce				
?TIMEOUT T_Announce	L4			(9)
START RM_React				
[LINE_STATE_ILS=TRUE]				
GOTO L4				
+JAM_ACTION1				(11)
+DBJ_ACTION1				(12)
?OTHERWISE			F	
?TIMEOUT			F	
RM_React				
+JAM_B1				(12)

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Behavior Description	Label	Constraints Reference	V	Comments
START T_Announce ?TIMEOUT T_Announce START RM_React	L5			(9)
[LINE_STATE_ILS=TRUE] GOTO L5 +JAM_ACTION1 +DBJ_ACTION1 ?OTHERWISE ?TIMEOUT RM_React			 F F	 (11) (12)
[LINE_STATE_QLS=TRUE] START T_Announce ?TIMEOUT T_Announce START RM_React	L6			(13) (9)
[LINE_STATE_QLS=TRUE] ?OTHERWISE ?TIMEOUT RM_React ?CLAIM GOTO L2 ?OTHERWISE ?TIMEOUT RM_React ?OTHERWISE ?BEACON !BEACON GOTO L0 ?OTHERWISE ?TIMEOUT D_Max		CLAIM_IUT1(IUT_T_BID) BEACON_IUT1 BEACON_IUT1 	P F F F F F F F	(13)

Extended Comments:

(1) IUT starts to detect a duplicate address condition on the ring.
(2) Force IUT's MAC to enter the Claim process.
(3) IUT's MAC is in the Claim process.
(4) 2(D Max) expires. IUT's MAC has Claimed for 2(D_Max).
(5) IUT receives its own Beacon frame while Claiming for longer than 2(D_Max).
(6) IUT receives other Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB.
(7) IUT scrubs its own Beacon frame using its Local Address.
(8) IUT changes its MAC Local Address to Universal Address.
(9) T_Announce expires.
(10) IUT configures its MAC to yield in the Claim process to the other MAC.
(11) IUT performs Jam Action.
(12) IUT performs Double Beacon Jam Action.
(13) IUT disconnects the signal (removes its MAC from the ring).

RM (44c)

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8.12.6 Directed_Beacon1

Test Case Dynamic Behavior				
Reference : FDDI_RMT/STUCK_BEACONING/NO_DUP_ADD/Directed_Beacon1 **Identifier** : Directed_Beacon1 **Purpose** : Verify that IUT transmits Directed Beacon frame when its MAC has Beaconed for longer than T_Stuck and there is no duplicate address on the ring. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT				(1)
START T_Stuck				
?BEACON	L0	BEACON_IUT		(2)
GOTO L0				
?TIMEOUT T_Stuck				(3)
START RM_React				
?BEACON	L1	BEACON_IUT		
GOTO L1				
[LINE_STATE_ILS=TRUE]			(P)	(4)
?D_BEACON		D_BEACON_IUT	P	(5)
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
Extended Comments: (1) IUT starts to detect a duplicate address condition on the ring. (2) IUT's MAC is Beaconing. (3) T_Stuck expires. (4) IUT resets its MAC. Receives ILS. (5) IUT transmits Directed Beacon frame. RM3, RM(33b), RM(36) & RM6				

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8.12.7 Directed_Beacon2

Test Case Dynamic Behavior				
Reference : FDDI_RMT/STUCK_BEACONING/DUP_ADD/Directed_Beacon2 **Identifier** : Directed_Beacon2 **Purpose** : Verify that IUT transmits Directed Beacon frame when its MAC has Beaconed for longer than T_Stuck and there is a duplicate address on the ring. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT2				(1)
!BEACON		BEACON_IUT2		(2)
START D_Max				
?BEACON	L0	BEACON_IUT2		
!BEACON		BEACON_IUT2		
GOTO L0				
?CLAIM		CLAIM_IUT2(IUT_T_BID)		(3)
START Twice_D_Max				
!CLAIM(T_NEG:=T_REQ+DELTA)	L1	CLAIM_TESTER(LOWER_T_BID)		
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
GOTO L1				
?TIMEOUT Twice_D_Max				(4)
!CLAIM(T_NEG:=T_REQ1)	L2	CLAIM_IUT2(DIFF_T_BID)		(5)
!CLAIM(T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(6)
START RM_React				
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
GOTO L2				
?CLAIM		CLAIM_OTHER(OTHER_T_BID)		(7)
+JAM_A2				(8)
		CLAIM_TESTER(LOWER_T_BID)		
!CLAIM(T_NEG:=T_REQ+DELTA)				
START Timer_TRM(T_Max)				
[LINE_STATE_ILS=TRUE]	L3			
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L3				
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L3				
?TIMEOUT Timer_TRM				(9)
?CLAIM	L4	CLAIM_IUT2(IUT_T_BID)		
GOTO L4				
?BEACON		BEACON_IUT2		(10)
+TX_D_BEACON				(11)
?OTHERWISE			F	
?OTHERWISE			F	
+JAM_B2				(12)
		CLAIM_TESTER(LOWER_T_BID)		
!CLAIM(T_NEG:=T_REQ+DELTA)				
START Timer_TRM(T_Max)				
[LINE_STATE_ILS=TRUE]	L5			
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L5				

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Behavior Description	Label	Constraints Reference	V	Comments
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L5				
?TIMEOUT Timer_TRM				(9)
?CLAIM	L6	CLAIM_IUT2(IUT_T_BID)		
GOTO L6				
?BEACON		BEACON_IUT2		(10)
+TX_D_BEACON				(11)
?OTHERWISE			F	
?OTHERWISE			F	
[LINE_STATE_QLS=TRUE]				(13)
+IN_Active				(14)
		CLAIM_TESTER(LOWER_T_BID)		
!CLAIM(T_NEG:=T_REQ+DELTA)				
START Timer_TRM(T_Max)				
[LINE_STATE_ILS=TRUE]	L7			
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L7				
?CLAIM		CLAIM_IUT2(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L7				
?TIMEOUT Timer_TRM				(9)
?CLAIM	L8	CLAIM_IUT2(IUT_T_BID)		
GOTO L8				
?BEACON		BEACON_IUT2		(10)
+TX_D_BEACON				(11)
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT D_Max			F	

Extended Comments:

(1) IUT detects a duplicate address condition on the ring.
(2) Forward IUT's Beacon frame.
(3) IUT enters the Claim process.
(4) IUT has Claimed for 2 (D_Max).
(5) IUT receives its own Claim frame with different T_Bid. There is a duplicate address on the ring.
(6) IUT receives other MAC's Claim frame with nonzero address not detected as duplicate and T_Req<=T_Max_LB.
(7) IUT configures its MAC to yield in the Claim process to other MAC.
(8) IUT performs Jam Action.
(9) Keep IUT in the Claim process for T_Max.
(10) IUT enters the Beacon process.
(11) IUT transmits Directed Beacon frame after its MAC has Beaconed for longer than T_Stuck.
(12) IUT performs Double Beacon Jam Action.
(13) IUT disconnects the signal (removes its MAC).
(14) Perform "IN_Active" subroutine in PCM ATS to reconnect IUT's MAC to the ring (RM_Join=SET).

RM3, RM(34c), RM6, RM(44b) & RM(46)

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8.12.8 Ring_Op

Test Case Dynamic Behavior				
Reference : FDDI_RMT/REST_DIALOG/Ring_Op **Identifier** : Ring_Op **Purpose** : Verify that IUT terminates a Restricted Dialog that has persisted on the ring for longer than T_Rmode. Note: This test case is optional. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+INIT_RING				(1)
!TOKEN		TOKEN_R		(2)
START T_Rmode				
?TOKEN	L1	TOKEN_R		(3)
!TOKEN		TOKEN_R		
GOTO L1				
?TIMEOUT T_Rmode				(4)
START RM_React				
?TOKEN	L2	TOKEN_R		
GOTO L2				
[LINE_STATE_ILS=TRUE]			(P)	(5)
?CLAIM		CLAIM_IUT(IUT_T_BID)	P	(6)
?BEACON		BEACON_IUT	P	(7)
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?TOKEN		TOKEN_UR		(8)
!TOKEN		TOKEN_R		
GOTO L1				
?OTHERWISE			F	
Extended Comments: (1) The ring is operational. (2) Force IUT to monitor a Restricted Dialog on the ring. (3) IUT is monitoring the Restricted Dialog on the ring. (4) T_Rmode expires. (5) IUT resets its MAC. Receives ILS. (6) IUT enters the Claim process. (7) IUT enters the Beacon process. (8) Some unrestricted Token is still on the ring. RM(21b)				

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8.12.9 Ring_Op_Dup

Test Case Dynamic Behavior				
Reference : FDDI_RMT/REST_DIALOG/Ring_Op_Dup **Identifier** : Ring_Op_Dup **Purpose** : Verify that IUT terminates a Restricted Dialog that has persisted on the ring for longer than T_Rmode and there is a duplicate address on the ring. Note: This test case is optional. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+INIT_RING				(1)
<IUT!NIF_FRAME>		NIF_REQ		(2)
START Topr				(3)
!TOKEN		TOKEN_UR		
?NIF_FRAME	L0	NIF_REQ		(4)
!NIF_FRAME		NIF_RESP		(5)
START RM_React				
?TIMEOUT RM_React	L1			(6)
!TOKEN		TOKEN_UR		
START T_Limit				
?SRF_FRAME	L2	SRF_ANN		(7)
!TOKEN		TOKEN_R		(8)
START T_Rmode				
?TOKEN	L3	TOKEN_R		(9)
!TOKEN		TOKEN_R		
GOTO L3				
?TIMEOUT T_Rmode				(10)
START RM_React				
?TOKEN	L4	TOKEN_R		
GOTO L4				
[LINE_STATE_ILS=TRUE]			(P)	(11)
?CLAIM		CLAIM_IUT(IUT_T_BID)	P	(12)
?BEACON		BEACON_IUT	P	(13)
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?SRF_FRAME		SRF_ANN		
!TOKEN		TOKEN_R		
GOTO L3				
?OTHERWISE			F	
?TOKEN		TOKEN_UR		
!TOKEN		TOKEN_UR		
GOTO L2				
?OTHERWISE			F	
?TIMEOUT T_Limit			I	
?NIF_FRAME		NIF_REQ		
!NIF_FRAME		NIF_RESP		
GOTO L1				
?OTHERWISE			F	
?TOKEN		TOKEN_UR		

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Behavior Description	Label	Constraints Reference	V	Comments
!TOKEN GOTO L0 ?OTHERWISE ?TIMEOUT Topr		TOKEN_UR	 F I	

Extended Comments:

(1) The ring is operational.
(2) Force IUT to transmit a NIF request frame.
(3) Wait for operator to send the request frame.
(4) Receives NIF request frame.
(5) Tester sends a NIF response frame with the A bit SET (Dup_Addr_Test=Fail) to simulate a duplicate address condition on the ring.
(6) Wait for RM_React expires. IUT sets DA_Flag, clears MAC_Avail & Loop_Avail.
(7) Receive SRF Announcement frame with DupCondition=mydup (DA_Flag=SET) to indicate that IUT's MAC address has the same address as another MAC on the ring. The ring is operational.
(8) Force IUT to monitor a Restricted Dialog on the ring.
(9) IUT is monitoring the Restricted Dialog on the ring.
(10) T_Rmode expires.
(11) IUT resets its MAC. Receive ILS.
(12) IUT enters the Claim process.
(13) IUT enters the Beacon process.

RM(25), RM5, RM(55) & RM (54b)

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8.12.10 Trace

Test Case Dynamic Behavior				
Reference : FDDI_RMT/TRACE_FUNCTION/Trace **Identifier** : Trace **Purpose** : Verify that IUT initiates the Trace function when its MAC has transmitted Directed Beacon frames for longer than T_Direct. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
+DUP_ADD_DETECT				(1)
START T_Stuck				
?BEACON	L0	BEACON_IUT		(2)
GOTO L0				
?TIMEOUT T_Stuck				(3)
START RM_React				
?BEACON	L1	BEACON_IUT		
GOTO L1				
[LINE_STATE_ILS=TRUE]				(4)
?D_BEACON		D_BEACON_IUT		(5)
START T_Direct				
?D_BEACON	L2	D_BEACON_IUT		
GOTO L2				
?TIMEOUT T_Direct				(6)
START RM_React				
?D_BEACON	L3	D_BEACON_IUT		
GOTO L3				
[SEC_LINE_STATE_MLS=TRUE]			P	(7)
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
Extended Comments: (1) The primary ring is not operational for longer than T_Non_Op. IUT detects a duplicate address condition on the ring. (2) IUT is in the Beacon process. (3) T_Stuck expires. (4) IUT resets its MAC. Receive ILS. (5) IUT transmits Directed Beacon frames. (6) T_Direct expires. (7) IUT initiates the Trace function. Receives MLS on the secondary ring. PC2, RM(67) & RM7				

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8.13 Test Step Dynamic Behavior

8.13.1 INIT_RING

Test Step Dynamic Behavior

Reference : FDDI_RMT/LIBRARY/INIT_RING
Identifier : INIT_RING
Objective : Initiate the ring. At the end of initialization, the second Token would have circulated back to the tester.
Default :

Behavior Description	Label	Constraints Reference	V	Comments
+INIT_BID				
!BEACON		BEACON_TESTER		
START Timer_TRM (T_Max)				
?BEACON	L0	BEACON_TESTER		(1)
!CLAIM(T_NEG:=T_NEG-DELTA)		CLAIM_TESTER(HIGHER_T_BID)		(2)
START Timer_TRM (T_Max)				
?CLAIM	L1	CLAIM_TESTER(HIGHER_T_BID)		(3)
!TOKEN		TOKEN_UR		(4)
START Timer_TRM (T_NEG)				
?TOKEN	L2	TOKEN_UR		
!TOKEN		TOKEN_UR		(5)
START Timer_TRM (T_NEG)				
?TOKEN		TOKEN_UR		
?OTHERWISE			I	
?TIMEOUT Timer_TRM			I	
?CLAIM		CLAIM_TESTER(HIGHER_T_BID)		
GOTO L2				
?OTHERWISE			I	
?TIMEOUT Timer_TRM			I	
?BEACON		BEACON_TESTER		
!CLAIM		CLAIM_TESTER(HIGHER_T_BID)		(6)
GOTO L1				
?OTHERWISE			I	
?TIMEOUT Timer_TRM			I	
?OTHERWISE				
!BEACON		BEACON_TESTER		(6)
GOTO L0				
?TIMEOUT Timer_TRM			I	

Extended Comments:

(1) Beacon process is finished.
(2) Start the Claim process.
(3) The Claim frame is back.
(4) Tester issues the first Token.
(5) Tester issues the second Token.
(6) Keep sending.

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8.13.2 INIT_BID

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/INIT_BID **Identifier** : INIT_BID **Objective** : To initiate the T_Bid. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
(T1:=(T_REQ-DELTA)*M/80, HIGHER_T_BID:=TWOS_COM(T1), T1:=(T_REQ+DELTA)*M/80, LOWER_T_BID:=TWOS_COM(T1), T1:=T_REQ*M/80, IUT_T_BID:=TWOS_COM(T1), T1:=T_REQ1*M/80, DIFF_T_BID:=TWOS_COM(T1), T1:=T_REQ2*M/80, OTHER_T_BID:=TWOS_COM(T1))				
Extended Comments:				

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8.13.3 DUP_ADD_DETECT

Test Step Dynamic Behavior

Reference : FDDI_RMT/LIBRARY/DUP_ADD_DETECT
Identifier : DUP_ADD_DETECT
Objective : Force IUT to detect a duplicate address condition on the ring.
Default :

Behavior Description	Label	Constraints Reference	V	Comments
+INIT_BID				(1)
!CLAIM(T_NEG:=T_REQ+DELTA)		CLAIM_TESTER(LOWER_T_BID)		(2)
START Timer_TRM(T_Max)				
?CLAIM	L0	CLAIM_IUT(IUT_T_BID)		(3)
START T_Non_Op				(4)
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
START Timer_TRM(T_Max)				
?CLAIM	L1	CLAIM_IUT(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L1				
?TIMEOUT Timer_TRM				(5)
?CLAIM	L2	CLAIM_IUT(IUT_T_BID)		(6)
GOTO L2				
?BEACON		BEACON_IUT		(7)
?BEACON	L3	BEACON_IUT		
GOTO L3				
?TIMEOUT T_Non_Op				(8)
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE				
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L0				
?TIMEOUT Timer_TRM			I	

Extended Comments:

(1) Initiate the bids.
(2) Force IUT to enter the Non_Op state.
(3) IUT enters the Non_Op state. IUT's MAC enters the Claim process.
(4) IUT resets timer TRM.
(5) T_Max expires in the Claim process.
(6) Some Claim frame is still on the ring.
(7) IUT's MAC enters the Beacon process.
(8) T_Non_Op expires. IUT enters the Detect state and starts to detect a duplicate address condition on the ring.

RM(13)

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8.13.4 DUP_ADD_DETECT1

Test Step Dynamic Behavior

Reference : FDDI_RMT/LIBRARY/DUP_ADD_DETECT1
Identifier : DUP_ADD_DETECT1
Objective : Force IUT to detect a duplicate address condition on the ring. Note: IUT's MAC Address is a Local Address.
Default :

Behavior Description	Label	Constraints Reference	V	Comments
+INIT_BID				(1)
!CLAIM(T_NEG:=T_REQ+DELTA)		CLAIM_TESTER(LOWER_T_BID)		(2)
START Timer_TRM(T_Max)				
?CLAIM	L0	CLAIM_IUT1(IUT_T_BID)		(3)
START T_Non_Op				(4)
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
START Timer_TRM(T_Max)				
?CLAIM	L1	CLAIM_IUT1(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L1				
?TIMEOUT Timer_TRM				(5)
?CLAIM	L2	CLAIM_IUT1(IUT_T_BID)		(6)
GOTO L2				
?BEACON		BEACON_IUT1		(7)
?BEACON	L3	BEACON_IUT1		
GOTO L3				
?TIMEOUT T_Non_Op				(8)
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE				
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L0				
?TIMEOUT Timer_TRM			I	

Extended Comments:

(1) Initiate the bids.
(2) Force IUT to enter the Non_Op state.
(3) IUT enters the Non_Op state. IUT's MAC enters the Claim process.
(4) IUT resets timer TRM.
(5) T_Max expires in the Claim process.
(6) Some Claim frame is still on the ring.
(7) IUT's MAC enters the Beacon process.
(8) T_Non_Op expires. IUT enters the Detect state and starts to detect a duplicate address condition on the ring.

RM(13)

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8.13.5 DUP_ADD_DETECT2

Test Step Dynamic Behavior

Reference : FDDI_RMT/LIBRARY/DUP_ADD_DETECT2
Identifier : DUP_ADD_DETECT2
Objective : Force IUT to detect a duplicate address condition on the ring.Note: IUT's MAC Address is Universal Address.
Default :

Behavior Description	Label	Constraints Reference	V	Comments
+INIT_BID				(1)
!CLAIM(T_NEG:=T_REQ+DELTA)		CLAIM_TESTER(LOWER_T_BID)		(2)
START Timer_TRM(T_Max)				
?CLAIM	L0	CLAIM_IUT2(IUT_T_BID)		(3)
START T_Non_Op				(4)
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
START Timer_TRM(T_Max)				
?CLAIM	L1	CLAIM_IUT2(IUT_T_BID)		
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L1				
?TIMEOUT Timer_TRM				(5)
?CLAIM	L2	CLAIM_IUT2(IUT_T_BID)		(6)
GOTO L2				
?BEACON		BEACON_IUT2		(7)
?BEACON	L3	BEACON_IUT2		
GOTO L3				
?TIMEOUT T_Non_Op				(8)
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE				
!CLAIM		CLAIM_TESTER(LOWER_T_BID)		
GOTO L0				
?TIMEOUT Timer_TRM			I	

Extended Comments:

(1) Initiate the bids.
(2) Force IUT to enter the Non_Op state.
(3) IUT enters the Non_Op state. IUT's MAC enters the Claim process.
(4) IUT resets timer TRM.
(5) T_Max expires in the Claim process.
(6) Some Claim frame is still on the ring.
(7) IUT's MAC enters the Beacon process.
(8) T_Non_Op expires. IUT enters the Detect state and starts to detect a duplicate address condition on the ring.

RM(13)

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8.13.6 JAM_A1

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_A1 **Identifier** : JAM_A1 **Objective** : IUT blocks its MAC input and sources Jam Beacon frames. Note: IUT's MAC Address is Local Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM (T_NEG:=T_REQ2) [LINE_STATE_ILS=TRUE] ?J_BEACON START T_Jam ?J_BEACON GOTO L0 ?TIMEOUT T_Jam ?J_BEACON GOTO L1 [LINE_STATE_ILS=TRUE] ?OTHERWISE ?OTHERWISE ?OTHERWISE ?OTHERWISE	 L0 L1 	CLAIM_OTHER(OTHER_T_BID) J_BEACON_IUT1 J_BEACON_IUT1 J_BEACON_IUT1 	 I I I I	(1) (2) (3) (4) (5)
Extended Comments: (1) Tester sends a Claim frame to check if IUT's MAC input is blocked. (2) IUT blocks its MAC input, disconnects MAC PHY_DATA.indication, and resets its MAC. Receives ILS. (3) IUT is sourcing Jam Beacon frames. (4) IUT has sourced Jam Beacon frames for T_Jam. (5) IUT reconnects MAC PHY_DATA.indication and resets its MAC again. Receive ILS.				

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8.13.7 JAM_A2

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_A2 **Identifier** : JAM_A2 **Objective** : IUT blocks its MAC input and sources Jam Beacon frames. Note: IUT's MAC Address is Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM (T_NEG:=T_REQ2) [LINE_STATE_ILS=TRUE] ?J_BEACON START T_Jam ?J_BEACON GOTO L0 ?TIMEOUT T_Jam ?J_BEACON GOTO L1 [LINE_STATE_ILS=TRUE] ?OTHERWISE ?OTHERWISE ?OTHERWISE ?OTHERWISE	 L0 L1 	CLAIM_OTHER(OTHER_T_BID) J_BEACON_IUT2 J_BEACON_IUT2 J_BEACON_IUT2 	 I I I I	(1) (2) (3) (4) (5)
Extended Comments: (1) Tester sends a Claim frame to check if IUT's MAC input is blocked. (2) IUT blocks its MAC input,disconnects MAC PHY_DATA.indication, and resets its MAC. Receives ILS. (3) IUT is sourcing Jam Beacon frames. (4) IUT has sourced Jam Beacon frames forT_Jam. (5) IUT reconnects MAC PHY_DATA.indication and resets its MAC again. Receive ILS.				

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8.13.8 JAM_ACTION1

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_ACTION1 **Identifier** : JAM_ACTION1 **Objective** : Verify that IUT performs Jam_Action by blocking its MAC input and sourcing Jam Beacon frames. Note: IUT's MAC Address is Local Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM (T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(1)
[LINE_STATE_ILS=TRUE]			P	(2)
?J_BEACON		J_BEACON_IUT1	P	(3)
START T_Jam				
?J_BEACON	L0	J_BEACON_IUT1		
GOTO L0				
?TIMEOUT T_Jam				(4)
?J_BEACON	L1	J_BEACON_IUT1		
GOTO L1				
[LINE_STATE_ILS=TRUE]			P	(5)
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
Extended Comments: (1) Tester sends a Claim frame to check if IUT's MAC input is blocked. (2) IUT blocks its MAC input, disconnects MAC PHY_DATA.indication, and resets its MAC. Receives ILS. (3) IUT is sourcing Jam Beacon frames. (4) IUT has sourced Jam Beacon frames forT_Jam. (5) IUT reconnects MAC PHY_DATA.indication and resets its MAC again. Receive ILS.				

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8.13.9 JAM_ACTION2

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_ACTION2 **Identifier** : JAM_ACTION2 **Objective** : Verify that IUT performs Jam_Action by blocking its MAC input and sourcing Jam Beacon frames. Note: IUT's MAC Address is Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM (T_NEG:=T_REQ2)		CLAIM_OTHER(OTHER_T_BID)		(1)
[LINE_STATE_ILS=TRUE]			(P)	(2)
?J_BEACON		J_BEACON_IUT2	(P)	(3)
START T_Jam				
?J_BEACON	L0	J_BEACON_IUT2		
GOTO L0				
?TIMEOUT T_Jam				(4)
?J_BEACON	L1	J_BEACON_IUT2		
GOTO L1				
[LINE_STATE_ILS=TRUE]			P	(5)
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
Extended Comments: (1) Tester sends a Claim frame to check if IUT's MAC input is blocked. (2) IUT blocks its MAC input, disconnects MAC PHY_DATA.indication, and resets its MAC. Receives ILS. (3) IUT is sourcing Jam Beacon frames. (4) IUT has sourced Jam Beacon frames for T_Jam. (5) IUT reconnects MAC PHY_DATA.indication and resets its MAC again. Receive ILS.				

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8.13.10 JAM_B1

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_B1 **Identifier** : JAM_B1 **Objective** : IUT initiates the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Local Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
[LINE_STATE_ILS=TRUE]				(1)
?J_BEACON		J_BEACON_IUT1		(2)
START T_Jam, START T_DBJ				
?J_BEACON	L0	J_BEACON_IUT1		
GOTO L0				
?TIMEOUT T_DBJ				(3)
?J_BEACON	L1	J_BEACON_IUT1		
GOTO L1				
[LINE_STATE_ILS=TRUE]				(1)
?J_BEACON	L2	J_BEACON_IUT1		(4)
GOTO L2				
?TIMEOUT T_Jam				(5)
?J_BEACON	L3	J_BEACON_IUT1		
GOTO L3				
[LINE_STATE_ILS=TRUE]				(1)
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?TIMEOUT T_Jam			I	
?OTHERWISE			I	
?OTHERWISE			I	
Extended Comments: (1) IUT resets its MAC. Receive ILS. (2) IUT initiates the 1st Jam Beacon process. Receive Jam Beacon frame. (3) T_DBJ expires. (4) IUT initiates the 2nd Jam Beacon process. Receive Jam Beacon frame. (5) T Jam expires.				

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8.13.11 JAM_B2

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/JAM_B2 **Identifier** : JAM_B2 **Objective** : IUT initiates the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
[LINE_STATE_ILS=TRUE]				(1)
?J_BEACON		J_BEACON_IUT2		(2)
START T_Jam, START T_DBJ				
?J_BEACON	L0	J_BEACON_IUT2		
GOTO L0				
?TIMEOUT T_DBJ				(3)
?J_BEACON	L1	J_BEACON_IUT2		
GOTO L1				
[LINE_STATE_ILS=TRUE]				(1)
?J_BEACON	L2	J_BEACON_IUT2		(4)
GOTO L2				
?TIMEOUT T_Jam				(5)
?J_BEACON	L3	J_BEACON_IUT2		
GOTO L3				
[LINE_STATE_ILS=TRUE]				(1)
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?OTHERWISE			I	
?TIMEOUT T_Jam			I	
?OTHERWISE			I	
?OTHERWISE			I	
Extended Comments: (1) IUT resets its MAC. Receive ILS. (2) IUT initiates the 1st Jam Beacon process. Receive Jam Beacon frame. (3) T_DBJ expires. (4) IUT initiates the 2nd Jam Beacon process. Receive Jam Beacon frame. (5) T_Jam expires.				

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8.13.12 DBJ_ACTION1

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/DBJ_ACTION1 **Identifier** : DBJ_ACTION1 **Objective** : Verify that IUT performs Double Beacon Jam Action by initiating the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Local Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
[LINE_STATE_ILS=TRUE]			(P)	(1)
?J_BEACON		J_BEACON_IUT1	(P)	(2)
START T_Jam, START T_DBJ				
?J_BEACON	L0	J_BEACON_IUT1		
GOTO L0				
?TIMEOUT T_DBJ				(3)
?J_BEACON	L1	J_BEACON_IUT1		
GOTO L1				
[LINE_STATE_ILS=TRUE]			(P)	(1)
?J_BEACON	L2	J_BEACON_IUT1	(P)	(4)
GOTO L2				
?TIMEOUT T_Jam				(5)
?J_BEACON	L3	J_BEACON_IUT1		
GOTO L3				
[LINE_STATE_ILS=TRUE]			P	(1)
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT T_Jam			F	
?OTHERWISE			F	
?OTHERWISE			F	
Extended Comments: (1) IUT resets its MAC. Receive ILS. (2) IUT initiates the 1st Jam Beacon process. Receive Jam Beacon frame. (3) T_DBJ expires. (4) IUT initiates the 2nd Jam Beacon process. Receive Jam BEACON frame. (5) T_Jam expires.				

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8.13.13 DBJ_ACTION2

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/DBJ_ACTION2 **Identifier** : DBJ_ACTION2 **Objective** : Verify that IUT performs Double Beacon Jam Action by initiating the Jam Beacon process twice while its MAC input is not blocked. Note: IUT's MAC Address is Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
[LINE_STATE_ILS=TRUE]			(P)	(1)
?J_BEACON		J_BEACON_IUT2	(P)	(2)
START T_Jam, START T_DBJ				
?J_BEACON	L0	J_BEACON_IUT2		
GOTO L0				
?TIMEOUT T_DBJ				(3)
?J_BEACON	L1	J_BEACON_IUT2		
GOTO L1				
[LINE_STATE_ILS=TRUE]			(P)	(1)
?J_BEACON	L2	J_BEACON_IUT2	(P)	(4)
GOTO L2				
?TIMEOUT T_Jam				(5)
?J_BEACON	L3	J_BEACON_IUT2		
GOTO L3				
[LINE_STATE_ILS=TRUE]			P	(1)
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT T_Jam			F	
?OTHERWISE			F	
?OTHERWISE			F	
Extended Comments: (1) IUT resets its MAC. Receive ILS. (2) IUT initiates the 1st Jam Beacon process. Receive Jam Beacon frame. (3) T_DBJ expires. (4) IUT initiates the 2nd Jam Beacon process. Receive Jam BEACON frame. (5) T Jam expires.				

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8.13.14 CHANGE_ADD

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/CHANGE_ADD **Identifier** : CHANGE_ADD **Objective** : IUT changes its MAC Local Address to Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM(T_NEG:=T_REQ+DELTA) START Timer_TRM(T_Max) ?CLAIM !CLAIM GOTO L0 ?CLAIM ?OTHERWISE ?TIMEOUT Timer_TRM	 L0 	CLAIM_TESTER(LOWER_T_BID) CLAIM_IUT1(IUT_T_BID) CLAIM_TESTER(LOWER_T_BID) CLAIM_IUT2(IUT_T_BID)	 I I	(1) (2) (3)
Extended Comments: (1) Force IUT's MAC to enter the Claim process to check its MAC address. (2) IUT may not change its MAC address yet. (3) IUT changes its MAC Local Address to Universal Address.				

8.13.15 CHANGE_MAC_ADD

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/CHANGE_MAC_ADD **Identifier** : CHANGE_MAC_ADD **Objective** : Verify that IUT changes its MAC Local Address to Universal Address. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
!CLAIM(T_NEG:=T_REQ+DELTA) START Timer_TRM(T_Max) ?CLAIM !CLAIM GOTO L0 ?CLAIM ?OTHERWISE ?TIMEOUT Timer_TRM	 L0 	CLAIM_TESTER(LOWER_T_BID) CLAIM_IUT1(IUT_T_BID) CLAIM_TESTER(LOWER_T_BID) CLAIM_IUT2(IUT_T_BID)	 P F F	(1) (2) (3)
Extended Comments: (1) Force IUT's MAC to enter the Claim process to check its MAC address. (2) IUT may not change its MAC address yet. (3) IUT changes its MAC Local Address to Universal Address.				

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8.13.16 TX_D_BEACON

Test Step Dynamic Behavior				
Reference : FDDI_RMT/LIBRARY/TX_D_BEACON **Identifier** : TX_D_BEACON **Objective** : Verify that IUT transmits Directed Beacon frames after its MAC has Beaconed for longer than T_Stuck. **Default** :				
Behavior Description	**Label**	**Constraints Reference**	**V**	**Comments**
START T_Stuck				
?BEACON	L0	BEACON_IUT2		(1)
GOTO L0				
?TIMEOUT T_Stuck				(2)
START RM_React				
?BEACON	L1	BEACON_IUT2		
GOTO L1				
[LINE_STATE_ILS=TRUE]			P	(3)
?D_BEACON		D_BEACON_IUT2	P	(4)
?OTHERWISE			F	
?OTHERWISE			F	
?TIMEOUT RM_React			F	
?OTHERWISE			F	
Extended Comments: (1) IUT is in Beacon process. (2) T_Stuck expires. (3) IUT resets its MAC. Receive ILS. (4) IUT transmits Directed Beacon frames.				

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9 Frame Base Management (FBM) - Abstract Test Suite

9.1 Test Suite Overview

9.1.1 Test Suite Structure

Test Suite Structure			
Suite Name : FDDI_FBM **Standards ref.** : ISO/IEC 9314-6:1998 **PICS proforma ref.** : ISO/IEC 9314-13:1998 **PIXIT proforma ref.** : **PICS/PIXIT use** : **Test Method(s)** : Remote Single Layer Method **Comments** :			
Test Group Reference	**Selection Ref.**	**Test Group Objective**	**Page**
NIF		Test Neighbor Notification process	271
SIF			271
ECF			272
RAF			272
ESF			273
PMF			274

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9.1.2 Test Case Index

Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page**
FDDI/FBM/NIF/announce	NIF_Announce1	OPTION_01	optional implementation	501
FDDI/FBM/NIF/request	NIF_Request1 Invalid_UNA	SELECT_00 SELECT_00	testing neighbor notification testing neighbor notification	501
FDDI/FBM/PMF/GET/Response	Valid_DNA Invalid_DNA Old_UNA Old_DNA	SELECT_00 SELECT_00 SELECT_00 SELECT_00	testing a valid DNA testing neighbor notification testing neighbor notification testing neighbor notification	503
FDDI/FBM/SIF/CONF/request	SIFC_Request1	SELECT_00	testing SIF Configuration Request	507
FDDI/FBM/SIF/CONF/response	SIFC_Resp1 SIFC_Resp2	SELECT_00 SELECT_00	Testing SIF Configuration Response	507
FDDI/FBM/SIF/OPER/request	SIFO_Request1	SELECT_00	Testing SIF Operation Request	508
FDDI/FBM/SIF/OPER/response	SIFO_Oper_-Response1 SIFO_Oper_-Response2	SELECT_00 SELECT_00	Testing SIF Operation Response	509
FDDI/FBM/ECHO/request	ECHO_Request1	SELECT_00	Testing ECF Request	510
FDDI/FBM/ECHO/response	ECHO_Receive1 ECHO_Receive2	SELECT_00 SELECT_00	Testing ECHO Response	510
FDDI/FBM/RAF/ALLOC/request	SBA_REQ_Req1	SELECT_00	Testing SBA AllocationRequest Request	512
FDDI/FBM/RAF/ALLOC/response	SBA_REQ_Resp1	SELECT_00	Testing SBA AllocationRequest Response	513
FDDI/FBM/RAF/REPORT/request	SBA_REP_Req1	SELECT_00	Testing SBA AllocationReport Request	513
FDDI/FBM/RAF/REPORT/-response	SBA_REP_Resp1	SELECT_00	Testing SBA AllocationReport Response	514
FDDI/FBM/RAF/CHANGE/request	SBA_CHG_Req1	SELECT_00	Testing SBA AllocatiionChange Request	515

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page**
FDDI/FBM/RAF/CHANGE/-response	SBA_CHG_Resp1	SELECT_00	Testing SBA AllicationChange Response	515
FDDI/FBM/ESF/request	ESF_Request1	SELECT_00		516
FDDI/FBM/SRF/announce	SRF_announce	SELECT_00		517
FDDI/FBM/PMF/GET/request	SingleAttribute_TX	SELECT_00		518
	MultipleAttribute_TX			
	MultipleGroup-Attributes_TX			
FDDI/FBM/PMF/GET/response	SingleAttribute_RX			519
	MultipleAttribute_RX			
	MultipleGroup-Attributes_RX			
	InvalidMultipleGroup-Attributes_RX			

9.1.3 Test Step Index

Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page**
NIF/Transmit	NIF_Announce1			501
	NIF_Request1			502
SIF/SIF_CONF/transmit	SIFC_Request1			507
SIF/SIF_CONF/receive	SIFC_Resp1			507
SIF/SIF_OPER/transmit	SIFO_Request1			508
SIF/SIF_OPER/receive	SIF_Oper_Response1			509

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Test Group Reference	Test Case Id	Selection Ref	Description	Page
ECHO/transmit	ECHO_Request1			510
ECHO/receive	ECHO_Receive1			510
ECHO/receive	ECHO_Receive2			511
RAF/SBA_ALLOC/transmit	SBA_REQ_Request1			512
RAF/SBA_ALLOC/receive	SBA_REQ_Resp1			513
RAF/SBA_REPORT/transmit	SBA_REP_Req1			513
RAF/SBA_REPORT/receive	SBA_REP_Resp1			514
RAF/SBA_CHANGE/transmit	SBA_CHG_Req1			515
RAF/SBA_CHANGE/receive	SBA_CHG_Resp1			515
SRF/transmit	SRF_Announce1			517
ESF/transmit	ESF_Request1			516

9.2 Declaration Part

9.2.1 Definitions

9.2.1.1 ASN.1 Type Definitions for SMT Attributes

ASN.1 Type Definition		
Type Name : SMTMIBGRP_Group **Comments :**		
Type Definition		
CHOICE	{smtstationIdgrp	SMTStationId_Group,
	smtstationconfiggrp	SMTStationConfig_Group,
	smtstatusgrp	SMTStatus_Group,
	smtmiboperationgrp	SMTMIBOperation_Group,
	maccapabilitiesgrp	MACCapabilities_Group,
	macconfiggrp	MACConfig_Group,
	macaddressgrp	MACAddress_Group,
	macoperationgrp	MACOperation_Group,
	maccountersgrp	MACCounters_Group,
	macframeerrorconditiongrp	MACFrameErrorCondition_Group,
	macnotcopiedconditiongrp	MACNotCopiedCondition_Group,
	macstatusgrp	MACStatus_Group,
	pathconfiggrp	PATHConfig_Group,
	portlergrp	PORTLer_Group,
	portoperationgrp	PORTOperation_Group,
	porterrorctrsgrp	PORTErrorCtrs_Group,
	portlergrp	PORTLer_Group,
	portstatusgrp	PORTStatus_Group
	}	

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ASN.1 Type Definition
Type Name : ValidMultiple_Attributes **Comments :**
Type Definition
SET {stationid SMTStationId, opversionid SMTOpVersionId }

ASN.1 Type Definition
Type Name : InvalidMultiple_Attributes **Comments :**
Type Definition
SET {stationid SMTStationId, framestatusfunctions MACFrameStatusFunctions }

ASN.1 Type Definition
Type Name : ValidMultiple_Group **Comments :**
Type Definition
SET {smtstationIdgrp SMTStationId_Group, smtstationconfiggrp SMTStationConfig_Group }

ASN.1 Type Definition
Type Name : InvalidMultiple_Group **Comments :**
Type Definition
SET {smtstationIdgrp SMTStationId_Group, capabilitiesgrp MACCapabilities_Group}

ASN.1 Type Definition
Type Name : SYMBOL **Comments :**
Type Definition
SEQUENCE OF BITSTRING(SIZE(5..5))

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ASN.1 Type Definition			
Type Name : UNA_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD una	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACUpstreamNbrType	}

ASN.1 Type Definition			
Type Name : StationDescriptor_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Type Node_Class Macct NonMaster_Ct Master_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1))	}
-- When one of more Ports of MACs physically instantiated in the MIB are not physically present, -- the Macct, NonMaster_Ct, and Master_Ct will differ from the corresponding MIB attributes.			

ASN.1 Type Definition			
Type Name : StationState_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD Topology DuplAddress	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), BITSTRING(SIZE(8..8)), BITSTRING(SIZE(8..8))	}

ASN.1 Type Definition			
Type Name : MsgTimeStamp_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length msgtimestamp	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(8)), SMTTimeStampType	}

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ASN.1 Type Definition			
Type Name : StationPolicies_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length configpolicy connectionpolicy	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTConfigPolicyType, SMTConnectionPolicyType	}

ASN.1 Type Definition			
Type Name : PathLatency_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PORTOutIndex PathLatencyRing1 PORTOutIndex PathLatencyRing2	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1)), OCTETSTRING(SIZE(1))	}
-- This is the latency contribution of the Paths within the station. It is not a MIB attribute and is -- optional. The latency is given in octet units. The Port indices are those used to form the Path -- descriptor SMT Parameter, X'0008'.			

ASN.1 Type Definition			
Type Name : MACNeighbors_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD mibindex macindex una dna	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6)), MACUpstreamNbrType, MACDownstreamNbrType	}

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ASN.1 Type Definition			
Type Name : PathDescriptor_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	mibindex	OCTETSTRING(SIZE(2)),	
	PortType	CMNPortType,	
	ConnectState	PORTConnectStateType,	
	RemotePORTType	CMNPortType,	
	RemoteMAC	PORTMACIndicatedType,	
	ConResourceIndex	OCTETSTRING(SIZE(4)),	
	MAC_Addr	OCTETSTRING(SIZE(6)),	
	ConResourceIndex	OCTETSTRING(SIZE(2))	}

ASN.1 Type Definition			
Type Name : MACStatus_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	mibindex	OCTETSTRING(SIZE(4)),	
	macindex	OCTETSTRING(SIZE(4)),	
	T_Req	MACTReqType,	
	T_Neg	MACTNegType,	
	T_Max	MACTMaxType,	
	TVXValue	MACTVXValueType,	
	T_Min	OCTETSTRING(SIZE(4)),	
	SBA	PATHSbaPayloadType,	
	Frame_Ct	MACFrame_CtType,	
	Error_Ct	MACError_CtType,	
	Lost_Ct	MACLost_CtType	}

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ASN.1 Type Definition		
Type Name : PortLEMStatus_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_TypeCMNCounter_Q	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	mibindex	OCTETSTRING(SIZE(2)),
	portindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	Ler_Cutoff	PORTLer_CutoffType,
	Ler_Alarm	PORTLer_AlarmType,
	Ler_Estimate	PORTLer_EstimateType,
	Lem_Reject_Ct	PORTLem_Reject_CtType,
	Lem_CT	PORTLem_CtType }

ASN.1 Type Definition		
Type Name : MACFrameCounters_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	mibindex	OCTETSTRING(SIZE(2)),
	macindex	OCTETSTRING(SIZE(2)),
	Copied_Ct	MACCopied_CtType,
	Transmit_Ct	MACTransmit_CtType }

ASN.1 Type Definition		
Type Name : MACFrameNotCopiedCount_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	mibindex	OCTETSTRING(SIZE(2)),
	macindex	OCTETSTRING(SIZE(2)),
	NotCopied_Ct	MACNotCopied_CtType }

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ASN.1 Type Definition		
Type Name : MACPriorityValues_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	mibindex	OCTETSTRING(SIZE(2)),
	macindex	OCTETSTRING(SIZE(2)),
	T_Pri0	MACT_Pri0Type,
	T_Pri1	MACT_Pri1Type,
	T_Pri2	MACT_Pri2Type,
	T_Pri3	MACT_Pri3Type,
	T_Pri4	MACT_Pri4Type,
	T_Pri5	MACT_Pri5Type,
	T_Pri6	MACT_Pri6Type }

ASN.1 Type Definition		
Type Name : PortElasticityBuffer_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	mibindex	OCTETSTRING(SIZE(2)),
	portindex	OCTETSTRING(SIZE(2)),
	EBErrorCt	PORTEBError_CtType }

ASN.1 Type Definition		
Type Name : ManufacturerField_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	menuf_data	SMTManufacturerDataType }

ASN.1 Type Definition		
Type Name : UserField_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	user_data	SMTUserDataType }

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ASN.1 Type Definition		
Type Name : ECHOData_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(1..3)) DEFAULT NULL,
	Echo_data	ECH_DATA(length:INTEGER) }

ASN.1 Type Definition		
Type Name : ReasonCode_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	reason	OCTETSTRING(SIZE(4)) }

ASN.1 Type Definition		
Type Name : RejectedFrame_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	RejectedFrameBeginning	OCTETSTRING(SIZE(?)) }

ASN.1 Type Definition		
Type Name : SMTSupportedVersions_GENERAL **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	numVersions	OCTETSTRING(SIZE(1)),
	indexOpVersion	OCTETSTRING(SIZE(1)),
	Version_1	OCTETSTRING(SIZE(2)),
	Version_2	OCTETSTRING(SIZE(2)) }

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ASN.1 Type Definition			
Type Name : ResourceType_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length ResourceType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

ASN.1 Type Definition			
Type Name : SBACommand_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length SbaCommand	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

ASN.1 Type Definition			
Type Name : SBAPayloadRequest_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length SbaRequest	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

ASN.1 Type Definition			
Type Name : SBAOverheadRequest_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length SbaOverheadReq	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

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ASN.1 Type Definition			
Type Name : SBAAllocationAddress_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD SbaAllocationAddr	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6))	}

ASN.1 Type Definition			
Type Name : SBACatagory_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Catagory	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2))	}

ASN.1 Type Definition			
Type Name : MaximumT_Neg_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length MaxTneg	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

ASN.1 Type Definition			
Type Name : MinimumSBASegment_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length MinSegment	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) DEFAULT {‘00000001’H}	}

ASN.1 Type Definition			
Type Name : SBAAllocatable_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length SbaAllocatable	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4))	}

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ASN.1 Type Definition			
Type Name : Authorization_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Authorization	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(?))	}

ASN.1 Type Definition			
Type Name : ESFID_GENERAL **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD ESF_ID	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6))	}

9.2.1.1.1 SMT Station ID Group Attributes

ASN.1 Type Definition			
Type Name : SMTStationId_Group **Comments :**			
Type Definition			
SET	{stationid opversionid hiversionid loversionid manufacturerdata userdata mibversionid	SMTStationId, SMTOpVersionId, SMTHiVersionId, SMTLoVersionId, SMTManufacturerData OPTIONAL, SMTUserData, SMTMIBVersionId	}

ASN.1 Type Definition			
Type Name : GroupAttribute **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2))	}

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ASN.1 Type Definition			
Type Name : SMTStationId **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length stationidtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTStationIdentifierType	}

ASN.1 Type Definition			
Type Name : SMTOpVersionId **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD opversionidtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTVersionType	}

ASN.1 Type Definition			
Type Name : SMTHiVersionId **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD hiversionidtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTVersionType	}

ASN.1 Type Definition			
Type Name : SMTLoVersionId **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD loversionidtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTVersionType	}

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ASN.1 Type Definition			
Type Name : SMTManufacturerData **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length manufacturerdatatype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTManufacturerDataType	}

ASN.1 Type Definition			
Type Name : SMTUserData **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length userdatatype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTUserDataType	}

ASN.1 Type Definition			
Type Name : SMTMIBVersionId **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD mibversionidtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTVersionType	}

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9.2.1.1.2 SMT Station Configuration Group Attributes

ASN.1 Type Definition		
Type Name : SMTStationConfig_Group **Comments :**		
Type Definition		
SET	{macct	SMTMac_Ct,
	nonmasterct	SMTNonMaster_Ct,
	masterct	SMTMaster_Ct,
	availablepaths	SMTAvailablePaths,
	configcapabilities	SMTConfigCapabilities,
	configpolicy	SMTConfigPolicy,
	connectionpolicy	SMTConnectionPolicy,
	tnotify	SMTT_Notify,
	statrptpolicy	SMTStatRptPolicy,
	tracemacexpiration	SMTTrace_MaxExpiration,
	portindexes	SMTPORTIndexes,
	macindexes	SMTMACIndexes,
	bypasspresent	SMTBypassPresent }

ASN.1 Type Definition		
Type Name : SMTMac_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	macctype	SMTMac_CtType }

ASN.1 Type Definition		
Type Name : SMTNonMaster_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	nonmastercttype	SMTNonMaster_CtType}

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ASN.1 Type Definition			
Type Name : SMTMaster_Ct **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD mastercttype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), SMTMaster_CtType	}

ASN.1 Type Definition				
Type Name : SMTAvailablePaths **Comments :**				
Type Definition				
SEQUENCE	{Parameter_Type Parameter_Length SEQUENCE	{PAD availablepathstype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), CMNAvailablePathsType	} }

ASN.1 Type Definition			
Type Name : SMTConfigCapabilities **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD configcapabilitiestype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTCapabilitiesType	}

ASN.1 Type Definition			
Type Name : SMTSMTConfigPolicy **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD configpolicytype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTConfigPolicyType	}

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ASN.1 Type Definition			
Type Name : SMTConnectionPolicy **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	connectionpolicytype	SMTConnectionPolicyType	}

ASN.1 Type Definition			
Type Name : SMTT_Notify **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	tnotifytype	SMTT_NotifyType	}

ASN.1 Type Definition			
Type Name : SMTStatRptPolicy **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(3)),	
	statrptpolicytype	CMNFlag DEFAULT TRUE	}

ASN.1 Type Definition			
Type Name : SMTTrace_MaxExpiration **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	tracemaxexpirationtype	CMNTime	}

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ASN.1 Type Definition		
Type Name : SMTPORTIndexes **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD portindexestype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SET OF CMNResourceIdType }

ASN.1 Type Definition		
Type Name : SMTMACIndexes **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD macindexestype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SET OF CMNResourceIdType }

ASN.1 Type Definition		
Type Name : SMTBypassPresent **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD bypasspresenttype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), CMNFlag DEFAULT TRUE }

9.2.1.1.3 SMT Status Group Attributes

ASN.1 Type Definition		
Type Name : SMTStatus_Group **Comments :**		
Type Definition		
SET	{ecmstate cfstate holdstate remotedisconnectflag stationstatus peerwrapflag	SMTECMState, SMTCF_State, SMTHoldState OPTIONAL, SMTRemoteDisconnectFlag, SMTStationStatus, SMTPeerWrapFlag }

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ASN.1 Type Definition			
Type Name : SMTECMState **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD ecmstatetype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTECMStateType	}

ASN.1 Type Definition			
Type Name : SMTCF_State **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD cfstatetype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTCF_StateType	}

ASN.1 Type Definition			
Type Name : SMTHoldState **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD holdstatetype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTHoldStateType	}

ASN.1 Type Definition			
Type Name : SMTRemoteDisconnectFlag **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD remotedisconnectflagtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), CMNFlag DEFAULT FALSE	}

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ASN.1 Type Definition		
Type Name : SMTStationStatus **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD stationstatustype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTStatus }

ASN.1 Type Definition		
Type Name : SMTPeerWrapFlag **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD peerwrapflagtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), CMNFlag DEFAULT FALSE }

9.2.1.1.4 SMT MIB Operation Group Attributes

ASN.1 Type Definition		
Type Name : SMTMIBOperation_Group **Comments :**		
Type Definition		
SET	{timestamp transitiontimestamp setcount lastsetstationid	SMTTimeStamp, SMTTransitionTimeStamp, SMTSetCount OPTIONAL, SMTLastSetStationId OPTIONAL }

ASN.1 Type Definition		
Type Name : SMTTimeStamp **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length timestamptype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTTimeStampType }

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ASN.1 Type Definition		
Type Name : SMTTransitionTimeStamp **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	transitiontimestamptype	CMNTimeStampType }

ASN.1 Type Definition		
Type Name : SMTSetCount **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	setcounttype	SMTSetCountType }

ASN.1 Type Definition		
Type Name : SMTLastSetStationId **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	lastsetstationidtype	SMTStationIdentifierType }

ASN.1 Type Definition		
Type Name : SMTVendorAttrib **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(?)),
	vendormibtype	CMNVendorMIBType }

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9.2.1.2 ASN.1 Type Definitions for MAC Attributes

9.2.1.2.1 MAC Capabilities Group Attributes

ASN.1 Type Definition		
Type Name : MACCapabilities_Group **Comments :**		
Type Definition		
SET {framestatusfunctions bridgefunctions tmaxcapability tvxcapability	MACFrameStatusFunctions, MACBridgeFunctions OPTIONAL, MACT_MaxCapability, MACTVXCapability }	

ASN.1 Type Definition		
Type Name : MACFrameStatusFunctions **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length PAD macindex PAD framestatusfunctionstype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACFS_Functions	}

ASN.1 Type Definition		
Type Name : MACBridgeFunctions **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length PAD macindex PAD bridgefunctionstype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACBridgeType	}

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ASN.1 Type Definition		
Type Name : MACT_MaxCapability **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type		OCTETSTRING(SIZE(2)),
Parameter_Length		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2))
macindex		OCTETSTRING(SIZE(2)),
tmaxcapabilitytype		CMNTwosComplementType }

ASN.1 Type Definition		
Type Name : MACTVXCapability **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type		OCTETSTRING(SIZE(2)),
Parameter_Length		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2))
macindex		OCTETSTRING(SIZE(2)),
tvxcapabilitytype		CMNTwosComplementType }

9.2.1.2.2 MAC Configuration Group Attributes

ASN.1 Type Definition		
Type Name : MACConfig_Group **Comments :**		
Type Definition		
SET {availablepaths		MACAvailablePaths,
currentpath		MACCurrentPath,
upstreamnbr		MACUpstreamNbr
downstreamnbr		MACDownstreamNbr,
oldupstreamnbr		MACOldUpstreamNbr,
olddownstreamnbr		MACOldDownstreamNbr,
dupaddresstest		MACDupAddressTest,
requestedpaths		MACRequestedPaths,
downstreamporttype		MACDownstreamPORTType,
macindex		MACIndex }

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ASN.1 Type Definition			
Type Name : MACAvailablePaths **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(3)),	
	availablepathstype	CMNAvailablePathsType	}

ASN.1 Type Definition			
Type Name : MACCurrentPath **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	currentpathtype	CMNCurrentPathType	}

ASN.1 Type Definition			
Type Name : MACUpstreamNbr **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	upstreamnbrtype	CMNLongAddressType	}

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ASN.1 Type Definition			
Type Name : MACDownstreamNbr **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	downstreamnbrtype	CMNLongAddressType	}

ASN.1 Type Definition			
Type Name : MACOldUpstreamNbr **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	oldupstreamnbrtype	CMNLongAddressType	}

ASN.1 Type Definition			
Type Name : MACOldDownstreamNbr **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	olddownstreamnbrtype	CMNLongAddressType	}

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ASN.1 Type Definition			
Type Name : MACDupAddressTest **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	dupaddresstesttype	MACDupAddressTestType	}

ASN.1 Type Definition			
Type Name : MACRequestedPaths **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(3)),	
	requestedpathstype	CMNPermittedPathsType	}

ASN.1 Type Definition			
Type Name : MACDownstreamPORTType **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	downstreamporttype	CMNPortType	}

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ASN.1 Type Definition			
Type Name : MACIndex **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	macindextype	CMNResourceIdType	}

9.2.1.2.3 MAC Address Group Attributes

ASN.1 Type Definition			
Type Name : MACAddress_Group **Comments :**			
Type Definition			
SET	{smtaddress	MACSMTAddress,	
	longgrpaddress	MACLongGrpAddress OPTIONAL,	
	shortgrpaddress	MACShortGrpAddress OPTIONAL	}

ASN.1 Type Definition			
Type Name : MACSMTAddress **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	smtaddresstype	CMNLongAddressType	}

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ASN.1 Type Definition		
Type Name : MACLongGrpAddress **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type	OCTETSTRING(SIZE(2)),	
Parameter_Length	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2))	
macindex	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2)),	
longgrpaddresstype	SET OF CMNLongAddressType	}

ASN.1 Type Definition		
Type Name : MACShortGrpAddress **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type	OCTETSTRING(SIZE(2)),	
Parameter_Length	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2))	
macindex	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2)),	
shortgrpaddresstype	SET OF MACShortAddressType}	

9.2.1.2.4 MAC Operation Group Attributes

ASN.1 Type Definition		
Type Name : MACOperation_Group **Comments :**		
Type Definition		
SET {treq	MACT_Req,	
tneg	MACT_Neg,	
tmax	MACT_Max,	
tvxvalue	MACTvxValue,	
tpri0	MACT_Pri0 OPTIONAL	
tpri1	MACT_Pri1 OPTIONAL	
tpri2	MACT_Pri2 OPTIONAL	
tpri3	MACT_Pri3 OPTIONAL	
tpri4	MACT_Pri4 OPTIONAL	
tpri5	MACT_Pri5 OPTIONAL	
tpri6	MACT_Pri6 OPTIONAL	}

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ASN.1 Type Definition		
Type Name : MACT_Req **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	treqtype	MACTReqType }

ASN.1 Type Definition		
Type Name : MACT_Neg **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tnegtype	MACT_NegType }

ASN.1 Type Definition		
Type Name : MACT_Max **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tmaxtype	MACTMaxType }

ASN.1 Type Definition		
Type Name : MACTvxValue **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tvxvaluetype	MACTVXValueType }

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ASN.1 Type Definition		
Type Name : MACT_Pri0 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri0type	MACT_Pri0Type }

ASN.1 Type Definition		
Type Name : MACT_Pri1 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri1type	MACT_Pri1Type }

ASN.1 Type Definition		
Type Name : MACT_Pri2 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri2type	MACT_Pri2Type }

ASN.1 Type Definition		
Type Name : MACT_Pri3 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri3type	MACT_Pri3Type }

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ASN.1 Type Definition		
Type Name : MACT_Pri4 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri4type	MACT_Pri4Type }

ASN.1 Type Definition		
Type Name : MACT_Pri5 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri5type	MACT_Pri5Type }

ASN.1 Type Definition		
Type Name : MACT_Pri6 **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tpri6type	MACT_Pri6Type }

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9.2.1.2.5 MAC Counters Group Attributes

ASN.1 Type Definition		
Type Name : MACCounters_Group **Comments :**		
Type Definition		
SET	{framect	MACFrame_Ct,
	copiedct	MACCopied_Ct,
	transmitct	MACTransmit_Ct,
	tokenct	MACToken_Ct OPTIONAL,
	errorct	MACError_Ct,
	lostct	MACLost_Ct,
	tvxespiredct	MACTvxExpired_Ct OPTIONAL,
	notcopiedct	MACNotCopied_Ct OPTIONAL,
	latect	MACLate_Ct OPTIONAL,
	ringopct	MACRingOp_Ct OPTIONAL }

ASN.1 Type Definition		
Type Name : MACFrame_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	framecttype	MACFrame_CtType }

ASN.1 Type Definition		
Type Name : MACCopied_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	copiedcttype	MACCopied_CtType }

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ASN.1 Type Definition		
Type Name : MACTransmit_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	transmitcttype	MACTransmit_CtType }

ASN.1 Type Definition		
Type Name : MACToken_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tokencttype	MACToken_CtType }

ASN.1 Type Definition		
Type Name : MACError_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	errorcttype	MACError_CtType }

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ASN.1 Type Definition		
Type Name : MACLost_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	lostcttype	MACLost_CtType }

ASN.1 Type Definition		
Type Name : MACTvxExpired_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	tvxexpiredcttype	MACTvxExpired_CtType }

ASN.1 Type Definition		
Type Name : MACNotCopied_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	notcopiedcttype	MACNotCopied_CtType }

ASN.1 Type Definition		
Type Name : MACLate_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	latecttype	MACLate_CtType }

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ASN.1 Type Definition		
Type Name : MACRingOp_Ct **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length PAD macindex ringopcttype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), MACRingOp_CtType }	

9.2.1.2.6 MAC Frame Error Condition Group Attributes

ASN.1 Type Definition		
Type Name : MACFrameErrorCondition_Group **Comments :**		
Type Definition		
SET {frameerrorthreshold frameerrorratio	MACFrameErrorThreshold, MACFrameErrorRatio }	

ASN.1 Type Definition		
Type Name : MACFrameErrorThreshold **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length PAD macindex PAD frameerrorthresholdtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACFrameErrorThresholdType	}

ASN.1 Type Definition		
Type Name : MACFrameErrorRatio **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length PAD macindex PAD frameerrorratiotype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACFrameErrorRatioType	}

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9.2.1.2.7 MAC Not Copied Condition Group Attributes

ASN.1 Type Definition			
Type Name : MACNotCopiedCondition_Group **Comments :**			
Type Definition			
SET	{macnotcopiedthreshold macnotcopiedratio	MACNotCopiedThreshold OPTIONAL, MACNotCopiedRatio OPTIONAL	}

ASN.1 Type Definition			
Type Name : MACNotCopiedThreshold **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD macindex PAD notcopiedthresholdtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACNotCopiedThresholdType	}

ASN.1 Type Definition			
Type Name : MACNotCopiedRatio **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD macindex PAD notcopiedratiotype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), MACNotCopiedRatioType	}

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9.2.1.2.8 MAC Status Group Attributes

ASN.1 Type Definition		
Type Name : MACStatus_Group **Comments :**		
Type Definition		
SET	{rmtstate	MACRMTState,
	daflag	MACDA_Flag,
	undaflag	MACUNDA_Flag,
	frameerrorflag	MACFrameErrorFlag,
	notcopiedflag	MACNotCopiedFlag OPTIONAL
	unitdataavailable	MACUnitDataAvailable,
	hardwarepresent	MACHardwarePresent,
	maunitdataavailable	MACMA_UnitdataEnable }

ASN.1 Type Definition		
Type Name : MACRMTState **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	rmtstatetype	MACRMTStateType }

ASN.1 Type Definition		
Type Name : MACDA_Flag **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	daflagtype	MACDA_FlagType DEFAULT FALSE }

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ASN.1 Type Definition		
Type Name : MACUNDA_Flag **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3))
	undaflagtype	MACUNDA_Flag DEFAULT FALSE }

ASN.1 Type Definition		
Type Name : MACFrameErrorFlag **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	frameerrorflagtype	MACFrameErrorFlagType DEFAULT FALSE }

ASN.1 Type Definition		
Type Name : MACNotCopiedFlag **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	notcopiedflagtype	MACNotCopiedFlagType DEFAULT FALSE }

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ASN.1 Type Definition		
Type Name : MACMA_UnitdataAvailable **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	maunitdataavailabletype	MACMA_UnitdataAvailableType DEFAULT FALSE }

ASN.1 Type Definition		
Type Name : MACHardwarePresent **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD_2	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	hwpresenttype	CMNPresent }

ASN.1 Type Definition		
Type Name : MACMA_UnitdataEnable **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	macindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(3)),
	maunitdataenabletype	MACMA_UnitdataEnableType DEFAULT FALSE }

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ASN.1 Type Definition		
Type Name : MACVendorAttrib **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type	OCTETSTRING(SIZE(2)),	
Parameter_Length	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2))	
macindex	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(1)),	
vendormibtype	CMNVendorMIBType	}

9.2.1.3 ASN.1 Type Definitions for PATH Attributes

ASN.1 Type Definition		
Type Name : PATHConfig_Group **Comments :**		
Type Definition		
SET {index	PATHIndex,	
ringlatency	PATHRingLatency OPTIONAL,	
tracestatus	PATHTraceStatus OPTIONAL,	
sbapayload	PATHSbaPayload OPTIONAL,	
sbaoverhead	PATHSbaOverhead OPTIONAL,	
configuration	PATHConfiguration,	
trmode	PATHT_Rmode OPTIONAL,	
sbaavailable	PATHSbaAvailable OPTIONAL,	
tvxlowerbound	PATHTVXLowerBound,	
tmaxlowerbound	PATHT_MaxLowerBound,	
maxtreq	PATHMaxT_Req	}

ASN.1 Type Definition		
Type Name : PATHIndex **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type	OCTETSTRING(SIZE(2)),	
Parameter_Length	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2))	
pathindex	OCTETSTRING(SIZE(2)),	
PAD	OCTETSTRING(SIZE(2)),	
indextype	PATHIndexType	}

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ASN.1 Type Definition			
Type Name : PATHRingLatency **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	pathindex	OCTETSTRING(SIZE(2)),	
	ringlatencytype	CMNTime	}

ASN.1 Type Definition			
Type Name : PATHTraceStatus **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	pathindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	tracestatustype	PATHTraceStatusType	}

ASN.1 Type Definition			
Type Name : PATHSbaPayload **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	pathindex	OCTETSTRING(SIZE(2)),	
	sbapayloadtype	PATHSbaPayloadType	}

ASN.1 Type Definition			
Type Name : PATHSbaOverhead **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	pathindex	OCTETSTRING(SIZE(2)),	
	sbaoverheadtype	PATHSbaOverheadType	}

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ASN.1 Type Definition		
Type Name : PATHConfiguration **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	pathindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	configurationtype	CMNPathConfig }

ASN.1 Type Definition		
Type Name : PATHT_Rmode **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	pathindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	trmodetype	CMNTime }

ASN.1 Type Definition		
Type Name : PATHSbaAvailable **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	pathindex	OCTETSTRING(SIZE(2)),
	sbaavailabletype	PATHSbaAvailableType }

ASN.1 Type Definition		
Type Name : PATHTVXLowerBound **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	pathindex	OCTETSTRING(SIZE(2)),
	tvxlowerboundtype	CMNTwosComplementType }

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ASN.1 Type Definition			
Type Name : PATHTT_MaxLowerBound **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length pathindex tmaxlowerboundtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), CMNTwosComplementType	}

ASN.1 Type Definition			
Type Name : PATHMaxT_Req **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD pathindex maxtreqtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), CMNTwosComplementType	}

ASN.1 Type Definition			
Type Name : PATHVendorAttrib **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD pathindex PAD vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(1)), CMNVendorMIBType	}

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9.2.1.4 ASN.1 Type Definitions for PORT Attributes

9.2.1.4.1 PORT Configuration Group Attributes

ASN.1 Type Definition	
Type Name : PORTConfig_Group **Comments :**	
Type Definition	
SET {mytype neighbortype connectionpolicies macindicated currentpath requestedpath macplacement availablepath macllooptime pmdclass connectioncapabilities index	PORTMy_Type, PORTNeighborType, PORTConnectionPolicies, PORTMACIndicated, PORTCurrentPath, PORTRequestedPaths, PORTMACPlacement, PORTAvailablePaths, PORTMACLoop_Time OPTIONAL, PORTPMDClass, PORTConnectionCapabilities, PORTIndex }

ASN.1 Type Definition	
Type Name : PORTMy_Type **Comments :**	
Type Definition	
SEQUENCE {Parameter_Type Parameter_Length PAD portindex PAD mytype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNPortType }

ASN.1 Type Definition	
Type Name : PORTNeighbor_Type **Comments :**	
Type Definition	
SEQUENCE {Parameter_Type Parameter_Length PAD portindex PAD neighbortype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNPortType }

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ASN.1 Type Definition			
Type Name : PORTConnectionPolicies **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	connectionpoliciestype	PORTConnectionPoliciesType	}

ASN.1 Type Definition			
Type Name : PORTMACIndicated **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(3))	
	macindicatedtype	PORTMACIndicatedType	}

ASN.1 Type Definition			
Type Name : PORTCurrentPath **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	currentpathtype	CMNCurrentPathType	}

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ASN.1 Type Definition			
Type Name : PORTRequestedPaths **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	requestedpathstype	PORTRequestedPathsType	}

ASN.1 Type Definition			
Type Name : PORTMACPlacement **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	macplacementtype	CMNResourceIdType	}

ASN.1 Type Definition			
Type Name : PORTAvailablePaths **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	availablepathstype	CMNAvailablePathsType	}

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ASN.1 Type Definition		
Type Name : PORTMACLoop_Time **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type		OCTETSTRING(SIZE(2)),
Parameter_Length		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2))
portindex		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2)),
maclooptimetype		CMNTime }

ASN.1 Type Definition		
Type Name : PORTPMDClass **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type		OCTETSTRING(SIZE(2)),
Parameter_Length		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2))
portindex		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2)),
pmdclasstype		PORTPMDClassType }

ASN.1 Type Definition		
Type Name : PORTConnectionCapabilities **Comments :**		
Type Definition		
SEQUENCE {Parameter_Type		OCTETSTRING(SIZE(2)),
Parameter_Length		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2))
portindex		OCTETSTRING(SIZE(2)),
PAD		OCTETSTRING(SIZE(2)),
connectioncapabilitiestype		PORTConnectionPoliciesType }

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ASN.1 Type Definition			
Type Name : PORTIndex **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD portindex PAD portindextype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNResourceIdType	}

9.2.1.4.2 PORT Operation Group Attributes

ASN.1 Type Definition			
Type Name : PORTOperation_Group **Comments :**			
Type Definition			
SET	{maintls bsflag pcls	PORTMaint_LS OPTIONAL, PORTBS_Flag, PORTPC_LS OPTIONAL	}

ASN.1 Type Definition			
Type Name : PORTMaint_LS **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD portindex PAD maintlstype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), PORTLineStateType	}

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ASN.1 Type Definition			
Type Name : PORTBS_Flag **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	bsflagtype	CMNFlag DEFAULT FALSE	}

ASN.1 Type Definition			
Type Name : PORTPC_LS **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	pclstype	PORTLineStateType	}

9.2.1.4.3 PORT Error Counters Group Attributes

ASN.1 Type Definition			
Type Name : PORTErrorCtrs_Group **Comments :**			
Type Definition			
SET	{eberrorct	PORTEBError_Ct OPTIONAL,	
	lctfailct	PORTLCTFail_Ct	}

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ASN.1 Type Definition		
Type Name : PORTEBError_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	portindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	eberrorcttype	CMNCounter }

ASN.1 Type Definition		
Type Name : PORTLCTFail_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	portindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	lctfailcttype	CMNCounter }

9.2.1.4.4 PORT LER Group Attributes

ASN.1 Type Definition		
Type Name : PORTLer_Group **Comments :**		
Type Definition		
SET	{lerestimate	PORTLer_Estimate,
	lemrejectct	PORTLem_Reject_Ct,
	lemct	PORTLem_Ct,
	lercutoff	PORTLer_Cutoff,
	leralarm	PORTLer_Alarm }

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ASN.1 Type Definition			
Type Name : PORTLer_Estimate **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(3)),	
	lerestimatetype	PORTLerExponentType	}

ASN.1 Type Definition			
Type Name : PORTLem_Reject_Ct **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	lemrejectcttype	CMNCounter	}

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ASN.1 Type Definition		
Type Name : PORTLem_Ct **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	portindex	OCTETSTRING(SIZE(2)),
	lemcttype	CMNCounter }

ASN.1 Type Definition		
Type Name : PORTLer_Cutoff **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	portindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	lercutofftype	PORTLerExponentType }

ASN.1 Type Definition		
Type Name : PORTLer_Alarm **Comments :**		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2))
	portindex	OCTETSTRING(SIZE(2)),
	PAD	OCTETSTRING(SIZE(2)),
	leralarmtype	PORTLerExponentType }

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9.2.1.4.5 PORT Status Group Attributes

ASN.1 Type Definition			
Type Name : PORTStatus_Group **Comments :**			
Type Definition			
SET	{connectionstate	PORTConnectState,	
	pcmstate	PORTPCMState,	
	pcwithhold	PORTPC_Withhold,	
	lerflag	PORTLerFlag,	
	hardwarepresent	PORTHardwarePresent	}

ASN.1 Type Definition			
Type Name : PORTConnectState **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	connectstatetype	PORTConnectStateType	}

ASN.1 Type Definition			
Type Name : PORTPCMState **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	pcmstatetype	PORTPCMStateType	}

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ASN.1 Type Definition			
Type Name : PORTPC_Withhold **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	pcwithholdtype	PORTPC_WithholdType	}

ASN.1 Type Definition			
Type Name : PORTLerFlag **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	lerflagtype	CMNFlag DEFAULT FALSE	}

ASN.1 Type Definition			
Type Name : PORTHardwarePresent **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	presenttype	CMNPresent	}

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ASN.1 Type Definition			
Type Name : PORTVendorAttrib **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD portindex PAD vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(1)), CMNVendorMIBType	}

9.2.1.5 ASN.1 Type Definitions for Actions and Notifications

9.2.1.5.1 Actions

ASN.1 Type Definition			
Type Name : SMTStationAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD actioninfo	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTActionInfoType	}

ASN.1 Type Definition			
Type Name : SMTVendorAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNVendorMIBType	}

ASN.1 Type Definition			
Type Name : MACVendorAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNVendorMIBType	}

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ASN.1 Type Definition			
Type Name : PATHVendorAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNVendorMIBType	}

ASN.1 Type Definition			
Type Name : PORTAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length actiontype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), PORTActionType	}

ASN.1 Type Definition			
Type Name : PORTVendorAction **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length vendormibtype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CMNVendorMIBType	}

9.2.1.5.2 Notifications

ASN.1 Type Definition			
Type Name : SMTHoldCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD holdconditiontype	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), SMTHoldConditionDataType	}

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ASN.1 Type Definition			
Type Name : SMTPeerWrapCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	cf_state	SMTCF_StateType	}

ASN.1 Type Definition			
Type Name : SMTVendorNotification **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(1))	
	vendormibtype	CMNVendorMIBType	}

ASN.1 Type Definition			
Type Name : MACDuplicateAddressCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	duplicateaddressconditiontype	MACDuplicateAddressDataType}	

ASN.1 Type Definition			
Type Name : MACFrameErrorCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	frameerrorconditiontype	MACFrameErrorDataType	}

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ASN.1 Type Definition			
Type Name : MACNotCopiedCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	notcopiedconditiontype	MACNotCopiedDataType	}

ASN.1 Type Definition			
Type Name : MACNeighborChangeEvent **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	neigborchangeeventtype	MACNeighborChangeDataType	}

ASN.1 Type Definition			
Type Name : MACPathChangeEvent **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	pathchangeeventtype	MACPathChangeDataType	}

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ASN.1 Type Definition			
Type Name : MACVendorNotification **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	macindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	vendornotificationtype	SET OF CMNVendorMIBType	}

ASN.1 Type Definition			
Type Name : PATHVendorNotification **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	pathindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	vendornotificationtype	SET OF CMNVendorMIBType	}

ASN.1 Type Definition			
Type Name : PORTLerCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	lerconditiontype	PORTLerDataType	}

ASN.1 Type Definition			
Type Name : PORTUndesiredConnectionAttemptEvent **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	undesiredconnectionattempteventtype	PORTUndesiredConnectionDataType	
}			

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ASN.1 Type Definition			
Type Name : PORTEBErrorCondition **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	eberrorconditiontype	PORTEBErrorDataType	}

ASN.1 Type Definition			
Type Name : PORTPathChangeEvent **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	pathchangeeventtype	PORTPathChangeDataType	}

ASN.1 Type Definition			
Type Name : PORTVendorNotification **Comments :**			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2))	
	portindex	OCTETSTRING(SIZE(2)),	
	PAD	OCTETSTRING(SIZE(2)),	
	vendornotificationtype	SET OF CMNVendorMIBType	}

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9.2.1.6 ASN.1 Type Definitions for SMT Definitions

9.2.1.6.1 Common Definitions

ASN.1 Type Definition
Type Name : CMNAvailablePathsType **Comments :**
Type Definition
[8] IMPLICIT BITSTRING {primary (0), secondary (1), local (2) } (SIZE(8))

ASN.1 Type Definition
Type Name : CMNCounter **Comments :**
Type Definition
Counter ::= INTEGER(0..4294967295) -- 4 octets

ASN.1 Type Definition
Type Name : CMNCurrentPathType **Comments :**
Type Definition
ENUMERATED {isolated (0), local (1), secondary (2), primary (3), concatenated (4), thru (5) }

ASN.1 Type Definition
Type Name : CMNFlag **Comments :**
Type Definition
IMPLICIT BITSTRING {false (0), true (1) } -- BOOLEAN

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ASN.1 Type Definition
Type Name : CMNLongAddressType **Comments :**
Type Definition
longgaddress ::= OCTETSTRING(SIZE(6))

ASN.1 Type Definition
Type Name : CMNPermittedPathsType **Comments :**
Type Definition
[8] IMPLICIT BITSTRING {local (0), secondary_alternate (1), primary_alternate (2), concatenate_alternate (3), secondary_prefered (4), primary_prefered (5), concatenated_prefered (6), thru (7) } (SIZE(8))

ASN.1 Type Definition
Type Name : CMNPortType **Comments :**
Type Definition
ENUMERATED {a (0), b (1), s (2), m (3), none (4) }

ASN.1 Type Definition
Type Name : CMNPresent **Comments :**
Type Definition
ENUMERATED {notpresent (0), present (1) }

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ASN.1 Type Definition
Type Name : CMNResourceIdType **Comments :**
Type Definition
resourceid ::= INTEGER(0..65535) -- 2octets

ASN.1 Type Definition
Type Name : CMNResourceTagType **Comments :**
Type Definition
SEQUENCE {resource_type CMNResourceType, resource_index CMNResourceIdType, current_port CMNCurrentPathType }

ASN.1 Type Definition
Type Name : CMNResourceType **Comments :**
Type Definition
ENUMERATED {mac (2), port (4) }

ASN.1 Type Definition
Type Name : :CMNTime **Comments :**
Type Definition
time ::= INTEGER(0..4294967295) -- 4 octets

ASN.1 Type Definition
Type Name : CMNTwosComplementType **Comments :**
Type Definition
timertwoscomplement ::= OCTETSTRING(SIZE(4))

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ASN.1 Type Definition
Type Name : CMNTimeStampType **Comments :**
Type Definition
timestamp ::= INTEGER(0..82446744073709551615) -- 8 octets

ASN.1 Type Definition
Type Name : CMNVendorMIBType **Comments :**
Type Definition
SEQUENCE {manufactureroui OCTETSTRING(SIZE(3)), vendoroctet OCTETSTRING(SIZE(1)), specificdata OCTETSTRING(SIZE(ANY)) }

9.2.1.6.2 SMT Definitions

ASN.1 Type Definition
Type Name : SMTActionInfoType **Comments :**
Type Definition
ENUMERATED {connect (0), disconnect (1), path_test (2), self_test (3), disable_a (4), disable_b (5), disable_m (6), ec7 (7) }

ASN.1 Type Definition
Type Name : SMTAvailablePathsType **Comments :**
Type Definition
availablepaths ::= CMNAvailablePathsTypes

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ASN.1 Type Definition
Type Name : SMTBypassPresentType **Comments :**
Type Definition
bypasspresent ::= CMNFlag

ASN.1 Type Definition
Type Name : SMTCapabilitiesType **Comments :**
Type Definition
[16] IMPLICIT BITSTRING {holdavailable (0), cf_wrap_ab (1) } (SIZE(16))

ASN.1 Type Definition
Type Name : SMTCF_StateType **Comments :**
Type Definition
ENUMERATED {isolated (0), local_a (1), local_b (2), local_ab (3), local_s (4), wrap_a (5), wrap_b (6), wrap_ab (7), wrap_s (8), c_wrap_a (9), c_wrap_b (10), c_wrap_s (11), thru (12) }

ASN.1 Type Definition
Type Name : SMTConfigCapabilitiesType **Comments :**
Type Definition
capabilities ::= SMTCapabilitiesType

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ASN.1 Type Definition
Type Name : SMTConfigPolicyType **Comments :**
Type Definition
[16] IMPLICIT BITSTRING {configurationhold (0) } (SIZE(16))

ASN.1 Type Definition
Type Name : SMTConnectionPolicyType **Comments :**
Type Definition
[16] IMPLECIT BITSTRING {rejectA_A (0), rejectA_B (1), rejectA_S (2), rejectA_M (3), rejectB_A (4), rejectB_B (5), rejectB_S (6), rejectB_M (7), rejectS_A (8), rejectS_B (9), rejectS_S (10), rejectS_M (11), rejectM_A (12), rejectM_B (13), rejectM_S (14), rejectM_M (15) } (SIZE(16))

ASN.1 Type Definition
Type Name : SMTECMStateType **Comments :**
Type Definition
ENUMERATED {ec0 (0), ec1 (1), ec2 (2), ec3 (3), ec4 (4), ec5 (5), ec6 (6), ec7 (7) }

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ASN.1 Type Definition
Type Name : SMTHiVersionIdType **Comments :**
Type Definition
hiversionid ::= SMTVersionType

ASN.1 Type Definition
Type Name : SMTHoldConditionDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, holdcondition SMTHoldStateType }

ASN.1 Type Definition
Type Name : SMTHoldStateType **Comments :**
Type Definition
ENUMERATED {not_holding (0), holding_prm (1), -- holding on primary holding_sec (2) } -- holding on secondary

ASN.1 Type Definition
Type Name : SMTLoVersionIdType **Comments :**
Type Definition
loversionid ::= SMTVersionType

ASN.1 Type Definition
Type Name : SMTMac_CtType **Comments :**
Type Definition
macct ::= INTEGER(0..255) -- 1 octet

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ASN.1 Type Definition
Type Name : SMTManufacturerDataType **Comments :**
Type Definition
SEQUENCE {manufactureroui OCTETSTRING(SIZE(3)), manufacturerdata OCTETSTRING(SIZE(29)) }

ASN.1 Type Definition
Type Name : SMTMaster_CtType **Comments :**
Type Definition
master_ct ::= INTEGER(0..255)

ASN.1 Type Definition
Type Name : SMTMIBVersionIdType **Comments :**
Type Definition
mibversionid ::= SMTVersionType

ASN.1 Type Definition
Type Name : SMTNonMaster_CtType **Comments :**
Type Definition
nonmaster_ct ::= INTEGER(0..255)

ASN.1 Type Definition
Type Name : SMTOpVersionIdType **Comments :**
Type Definition
opversionid ::= SMTVersionType

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ASN.1 Type Definition
Type Name : SMTPeerWrapConditionDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, peerwrapcondition SMTCF_StateType }

ASN.1 Type Definition
Type Name : SMTPeerWrapConditionType **Comments :**
Type Definition
cfstate ::= SMTCF_StateType

ASN.1 Type Definition
Type Name : SMTPeerWrapFlagType **Comments :**
Type Definition
peerwrapflag ::= CMNFlag

ASN.1 Type Definition
Type Name : SMTRemoteDisconnectFlagType **Comments :**
Type Definition
remotedisconnectflag ::= CMNFlag

ASN.1 Type Definition
Type Name : SMTSetCountType **Comments :**
Type Definition
SEQUENCE {count CMNCounter, settimestamp CMNTimeStampType }

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ASN.1 Type Definition
Type Name : SMTStationIdentifierType **Comments :**
Type Definition
SEQUENCE {implememteroctet OCTETSTRING(SIZE(2)), longaddress CMNLongAddressType }

ASN.1 Type Definition
Type Name : SMTStatusType **Comments :**
Type Definition
ENUMERATED {concatenated (0), separated (1), thru (2) }

ASN.1 Type Definition
Type Name : SMTStatRptPolicyType **Comments :**
Type Definition
flag ::= CMNFlag

ASN.1 Type Definition
Type Name : SMTT_NotifyType **Comments :**
Type Definition
t_notify ::= OCTETSTRING(SIZE(2))

ASN.1 Type Definition
Type Name : SMTTimeStampType **Comments :**
Type Definition
timestamp ::= CMNTimeStamp

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ASN.1 Type Definition
Type Name : SMTTrace_MaxExpirationType **Comments :**
Type Definition
tracemaxexpiration ::= CMNTime

ASN.1 Type Definition
Type Name : SMTTransitionTimeStampType **Comments :**
Type Definition
transitiontimestamp ::= CMNTimeStamp

ASN.1 Type Definition
Type Name : SMTUserDataType **Comments :**
Type Definition
userdata ::= OCTETSTRING(SIZE(32))

ASN.1 Type Definition
Type Name : SMTVersionType **Comments :**
Type Definition
versiontype ::= INTEGER(0..65535) -- 2 octets

9.2.1.6.3 MAC Definitions

ASN.1 Type Definition
Type Name : MACAvailablePathsType **Comments :**
Type Definition
availablepaths::= CMNAvaiablePaths

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ASN.1 Type Definition
Type Name : MACBridgeType **Comments :**
Type Definition
IMPLICIT BITSTRING {tb (0), sr (1), srt (2) } (SIZE(16))

ASN.1 Type Definition
Type Name : MACCopied_CtType **Comments :**
Type Definition
copiedct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACCurrentPathType **Comments :**
Type Definition
currentpath ::= CMNCurrentPaths

ASN.1 Type Definition
Type Name : MACDA_FlagType **Comments :**
Type Definition
daflag ::= CMNFlag

ASN.1 Type Definition
Type Name : MACDownstreanNbrType **Comments :**
Type Definition
longaddress ::= CMNLongAddressType

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ASN.1 Type Definition
Type Name : MACDownstreamPORTType **Comments :**
Type Definition
porttype ::= CMNPortType

ASN.1 Type Definition
Type Name : MACDupAddressTestType **Comments :**
Type Definition
ENUMERATED {none (0), pass (1), fail (2) }

ASN.1 Type Definition
Type Name : MACDupConditionType **Comments :**
Type Definition
IMPLICIT BITSTRING {mydup (0), unadup (1) } (SIZE(16))

ASN.1 Type Definition
Type Name : MACDuplicatedAddressDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, duplicatedaddresstype MACDuplicatedAddressType }

ASN.1 Type Definition
Type Name : MACDuplicatedAddressType **Comments :**
Type Definition
SEQUENCE {dupcondition MACDupConditionType, fddilong CMNLongAddressType, fddiunalong CMNLongAddressType }

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ASN.1 Type Definition
Type Name : MACError_CtType **Comments :**
Type Definition
errorct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACFrame_CtType **Comments :**
Type Definition
framect ::= CMNCounter

ASN.1 Type Definition
Type Name : MACFrameErrorDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, framect CMNCounter, errorct CMNCounter, lostct CMNCounter, frameerrorratio MACFrameErrorRatioType }

ASN.1 Type Definition
Type Name : MACFrameErrorRatioType **Comments :**
Type Definition
frameerrorratio::= INTEGER(0..65536) -- 2 octets

ASN.1 Type Definition
Type Name : MACFrameErrorThresholdType **Comments :**
Type Definition
frameerrorthreshold ::= INTEGER(0..65535) -- 2 octets

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ASN.1 Type Definition
Type Name : MACFS_Functions **Comments :**
Type Definition
IMPLICIT BITSTRING {fs_repeating (0), fs_setting (1), fs_clearing (2) } (SIZE(16))

ASN.1 Type Definition
Type Name : MACHWPresentType **Comments :**
Type Definition
present ::= CMNPresent

ASN.1 Type Definition
Type Name : MACLate_CtType **Comments :**
Type Definition
latect ::= CMNCounter

ASN.1 Type Definition
Type Name : MACLost_CtType **Comments :**
Type Definition
lostct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACMAUnitdataAvailableType **Comments :**
Type Definition
maunitdataavailable ::= CMNFlag

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ASN.1 Type Definition
Type Name : MACMAUnitdataEnableType **Comments :**
Type Definition
naunitdataenable ::= CMNFlag

ASN.1 Type Definition
Type Name : MACNAConditionType **Comments :**
Type Definition
IMPLICIT BITSTRING {unachang (0), dnachange (1) } (SIZE(8))

ASN.1 Type Definition
Type Name : MACNeighborChangeDataType **Comments :**
Type Definition
SEQUENCE {multipleoccurrence CMNFlag DEFAULT FALSE, neighborchangetype MACNeighborChangeType }

ASN.1 Type Definition
Type Name : MACNeighborChangeType **Comments :**
Type Definition
SEQUENCE {nacondition MACNAConditionType, old_una CMNLongAddressType, new_una CMNLongAddressType, old_dna CMNLongAddressType, new_dna CMNLongAddressType, currentpath CMNLongAddressType, smtaddress CMNLongAddressType }

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ASN.1 Type Definition
Type Name : MACNotCopied_CtType **Comments :**
Type Definition
notcopiedct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACNotCopiedFlagType **Comments :**
Type Definition
notcopiedflag ::= CMNFlag

ASN.1 Type Definition
Type Name : MACNotCopiedDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, notcopiedct CMNCounter, copiedct CMNCounter, notcopiedratio MACNotCopiedRatioType }

ASN.1 Type Definition
Type Name : MACNotCopiedRatioType **Comments :**
Type Definition
notcopiedratio ::= INTEGER(0..65536) -- 2 octets

ASN.1 Type Definition
Type Name : MACNotCopiedThresholdType **Comments :**
Type Definition
notcopiedthreshold ::= INTEGER(0..65536) -- 2 octets

ASN.1 Type Definition
Type Name : MACOldDownStreamNbrType **Comments :**
Type Definition
lonagddress ::= CMNLongaddressType

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ASN.1 Type Definition
Type Name : MACOldUpStreamNbrType **Comments :**
Type Definition
lonagddress ::= CMNLongaddressType

ASN.1 Type Definition
Type Name : MACPathChangeDataType **Comments :**
Type Definition
SEQUENCE {multipleoccurence CMNFlag, pathchangetype MACPathChangeType }

ASN.1 Type Definition
Type Name : MACPathChangeType **Comments :**
Type Definition
SEQUENCE {availablepath CMNAvailablePathsType, currentpath CMNCurrentPathType, requestedpath MACRequestedPathsType }

ASN.1 Type Definition
Type Name : MACRequestedPathsType **Comments :**
Type Definition
requestedpaths::= CMNPermittedPathsType

ASN.1 Type Definition
Type Name : MACRingOp_CtType **Comments :**
Type Definition
ringopct ::= CMNCounter

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ASN.1 Type Definition				
Type Name : MACRMTStateType **Comments :**				
Type Definition				
ENUMERATED	{rm0	(0),		-- Isolated
	rm1	(1),		-- Non_Op
	rm2	(2),		-- Ring_Op
	rm3	(3),		-- Detect
	rm4	(4),		-- Non_Op_Dup
	rm5	(5),		-- Ring_Op_Dup
	rm6	(6),		-- Directed
	rm7	(2)	}	-- Trace

ASN.1 Type Definition
Type Name : MACShortAddressType **Comments :**
Type Definition
shortaddress ::= OCTETSTRING(SIZE(2))

ASN.1 Type Definition
Type Name : MACSMTAddressType **Comments :**
Type Definition
smtaddress ::= CMNLongAddressType

ASN.1 Type Definition
Type Name : MACT_MaxCapabilityType **Comments :**
Type Definition
tmaxcapability ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri0Type **Comments :**
Type Definition
tpri0 ::= CMNTwosComplementType

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ASN.1 Type Definition
Type Name : MACT_Pri1Type **Comments :**
Type Definition
tpri1 ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri2Type **Comments :**
Type Definition
tpri2 ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri3Type **Comments :**
Type Definition
tpri3 ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri4Type **Comments :**
Type Definition
tpri4 ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri5Type **Comments :**
Type Definition
tpri5 ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACT_Pri6Type **Comments :**
Type Definition
tpri6 ::= CMNTwosComplementType

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ASN.1 Type Definition
Type Name : MACTMaxType **Comments :**
Type Definition
tmax ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACTNegType **Comments :**
Type Definition
tneg ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACToken_CtType **Comments :**
Type Definition
tokenct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACTransmit_CtType **Comments :**
Type Definition
transmitct ::= CMNCounter

ASN.1 Type Definition
Type Name : MACTReqType **Comments :**
Type Definition
treq ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACTVXCapabilityType **Comments :**
Type Definition
tvxcapability ::= CMNTwosComplementType

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ASN.1 Type Definition
Type Name : MACTvxExpired_CtType **Comments :**
Type Definition
tvxexpiredct ::= CMNCounter_Q

ASN.1 Type Definition
Type Name : MACTVXValueType **Comments :**
Type Definition
tvxvalue ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : MACUNDA_FlagType **Comments :**
Type Definition
undaflag ::= CMNFlag

ASN.1 Type Definition
Type Name : MACUpstreamNbrType **Comments :**
Type Definition
upstreamnbr ::= CMNLongAddressType

9.2.1.6.4 PATH Definitions

ASN.1 Type Definition
Type Name : PATHIndexType **Comments :**
Type Definition
INTEGER(0..65535) {primary (1), secondary (2) } --2 octets

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ASN.1 Type Definition
Type Name : PATHMaxT_ReqType **Comments :**
Type Definition
maxtreq ::= CMNTwosComplementType

ASN.1 Type Definition
Type Name : PATHRingLatencyType **Comments :**
Type Definition
ringlatency ::= CMNTime

ASN.1 Type Definition
Type Name : PATHSbaAvailableType **Comments :**
Type Definition
sbaavailable ::= INTEGER(0..4294967295) -- 4 octets

ASN.1 Type Definition
Type Name : PATHSbaPayloadType **Comments :**
Type Definition
sbapayload::= INTEGER(0..4294967295) -- 4 octets

ASN.1 Type Definition
Type Name : PATHSbaOverHeadType **Comments :**
Type Definition
sbaoverhead ::= INTEGER(0..4294967295) -- 4 octets

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ASN.1 Type Definition
Type Name : PATHT_MaxLowerBoundType **Comments :**
Type Definition
tmaxlowerboundCMNTwosComplementType

ASN.1 Type Definition
Type Name : PATHT_RmodeType **Comments :**
Type Definition
trmode ::= CMNTime

ASN.1 Type Definition
Type Name : PATHTraceStatusType **Comments :**
Type Definition
IMPLICIT BITSTRING {traceinitiated (0), tracepropagated (1), traceterminated (2), tracetimeout (3) }

ASN.1 Type Definition
Type Name : PATHTVXLowerBoundType **Comments :**
Type Definition
tvxlowerbound ::= CMNTwosComplementType

9.2.1.6.5 PORT Definitions

ASN.1 Type Definition				
Type Name : PORTActionType **Comments :**				
Type Definition				
ENUMERATED	{mainport	(0),		-- signal PC_Maint
	enableport	(1),		-- signal PC_Enable
	disableport	(2),		-- signal PC_Disable
	startport	(3),		-- signal PC_Start
	stopport	(4)	}	-- signal PC_Stop

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ASN.1 Type Definition
Type Name : PORTConnectionPoliciesType **Comments :**
Type Definition
IMPLICIT BITSTRING {pc_mac_lct (0), pc_mac_loop (1) } (SIZE(8))

ASN.1 Type Definition
Type Name : PORTConnectStateType **Comments :**
Type Definition
ENUMERATED {disabled (0), connected (1), standby (2), active (3) }

ASN.1 Type Definition
Type Name : PORTEBError_CtType **Comments :**
Type Definition
eberrorct ::= CMNCounter

ASN.1 Type Definition
Type Name : PORTEBErrorDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, eberrorcount CMNCounter }

ASN.1 Type Definition
Type Name : PORTHWPresentType **Comments :**
Type Definition
present ::= CMNFlag

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ASN.1 Type Definition
Type Name : PORTLCTFail_CtType **Comments :**
Type Definition
lctfailct ::= CMNCounter

ASN.1 Type Definition
Type Name : PORTLem_CtType **Comments :**
Type Definition
lemct ::= CMNCounter

ASN.1 Type Definition
Type Name : PORTLem_Reject_CtType **Comments :**
Type Definition
lemrejectct ::= CMNCounter

ASN.1 Type Definition
Type Name : PORTLerDataType **Comments :**
Type Definition
SEQUENCE {conditionstate CMNFlag DEFAULT FALSE, lertype PORTLerType }

ASN.1 Type Definition
Type Name : PORTLerExponentType **Comments :**
Type Definition
lerexponent ::= INTEGER(0..255) -- 1 octet

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ASN.1 Type Definition
Type Name : :PORTLerType **Comments :**
Type Definition
SEQUENCE {lercutoff PORTLerExponentType, leralarm PORTLerExponentType, lerestimate PORTLerExponentType, lerrejectct CMNCounter, lerct CMNCounter }

ASN.1 Type Definition			
Type Name : PORTLineStateType **Comments :**			
Type Definition			
ENUMERATED	{qls	(0),	-- quiet
	ils	(1),	-- idle
	mls	(2),	-- master
	hls	(3),	-- halt
	pdr	(4),	-- receive = active, transmit = PDR
	isu	(5),	-- receive = unknown
	nls	(6)}	-- receive = noise

ASN.1 Type Definition		
Type Name : PORTMACIndicatedType **Comments :**		
Type Definition		
SEQUENCE	{tval9	CMNFlag DEFAULT TRUE,
	rval9	CMNFlag DEFAULT TRUE }

ASN.1 Type Definition		
Type Name : PORTPathChangeDataType **Comments :**		
Type Definition		
SEQUENCE	{multipleoccurrence	CMNFlag DEFAULT FALSE,
	pathchangetype	PORTPathChangeType }

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ASN.1 Type Definition			
Type Name : PORTPathChangeType **Comments :**			
Type Definition			
SEQUENCE	{availablepaths	CMNAvailablePathsType,	
	currentpath	CMNCurrentPathType,	
	requestedpaths	PORTRequestedPathsType,	
	mytype	CMNPortType,	
	neighbortype	CMNPortType	}

ASN.1 Type Definition				
Type Name : PORTPCMStateType **Comments :**				
Type Definition				
ENUMERATED	{pc0	(0),		-- Off
	pc1	(1),		-- Break
	pc2	(2),		-- Trace
	pc3	(3),		-- Connect
	pc4	(4),		-- Next
	pc5	(5),		-- Signal
	pc6	(6),		-- Join
	pc7	(7),		-- Verify
	pc8	(8),		-- Active
	pc9	(9)	}	-- Maint

ASN.1 Type Definition			
Type Name : PORTPC_WithholdType **Comments :**			
Type Definition			
ENUMERATED	{none	(0),	
	mm	(1),	
	otherincompativle	(2),	
	pathnotavailable	(3)	}

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ASN.1 Type Definition			
Type Name : PORTPMDClassType **Comments :**			
Type Definition			
EMUNERATED	{multimode single_mode1 single_mode2 sonet low_cost_fiber twisted_pair unknown unspecified	(0), (1), (2), (3), (4), (5), (6), (7)	}

ASN.1 Type Definition			
Type Name : PORTRequestedPathsType **Comments :**			
Type Definition			
SEQUENCE	{none tree peer	CMNPermittedPathsType, CMNPermittedPathsType, CMNPermittedPathsType	}

ASN.1 Type Definition			
Type Name : PORTUndesiredConnectionDataType **Comments :**			
Type Definition			
SEQUENCE	{multipleoccurrence undesiredconnectiontype	CMNFlag DEFAULT FALSE, PORTUndesiredConnectionType	}

ASN.1 Type Definition			
Type Name : PORTUndesiredConnectionType **Comments :**			
Type Definition			
SEQUENCE	{porttype connectstate pcneighbor pcwithhold	CMNPortType, PORTConnectStateType, CMNPortType, PORTPC_WithholdType	}

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9.2.1.7 ASN.1 Type Definitions for SMT InfoField

9.2.1.7.1 NIF InfoField Type Definition

ASN.1 Type Definition		
Type Name : NIF_Info **Comments :**		
Type Definition		
SET	{UNA	UNA_GENERAL,
	stationdescriptor	StationDescriptor_GENERAL,
	stationstate	StationState_GENERAL,
	macframestatusfunctions	MACFrameStatusFunctions }

9.2.1.7.2 SIF InfoField Type Definition

ASN.1 Type Definition		
Type Name : SIFConf_Res **Comments :**		
Type Definition		
SET	{msgtimestamp	MsgTimeStamp_GENERAL,
	stationdescriptor	StationDescriptor_GENERAL,
	smtsupportedversions	SMTSupportedVersions_GENERAL,
	stationstatus	StationStatus_GENERAL,
	stationpolicies	StationPolicies_GENERAL,
	pathlatency	PathLatency_GENERAL OPTIONAL,
	macneighbors	MACNeighbors_GENERAL,
	pathdescriptor	PathDescriptor_GENERAL,
	smtsetcount	SMTSetCount OPTIONAL }

ASN.1 Type Definition		
Type Name : SIFOper_Res **Comments :**		
Type Definition		
SET	{msgtimestamp	MsgTimeStamp_GENERAL,
	macstatus	MACStatus_GENERAL,
	portlemstatus	PortLEMStatus_GENERAL,
	macframecount	MACFrameCount_GENERAL,
	macframenotcount	MACFrameNotCount_GENERAL OPTIONAL,
	macpriorityvalues	MACPriorityValues_GENERAL OPTIONAL,
	portebstatus	PortEBStatus_GENERAL OPTIONAL,
	manufacturerfield	ManufacturerField_GENERAL OPTIONAL,
	userfield	UserField_GENERAL,
	smtsetcount	SMTSetCount OPTIONAL }

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9.2.1.7.3 NO ECHO InfoField Type Definition is defined!!

9.2.1.7.4 RAF InfoField Type Definition

ASN.1 Type Definition		
Type Name : SBARequest_Info **Comments :**		
Type Definition		
SET	{pathtype	PATHIndex,
	sbapayload	SBAPayloadRequest_GENERAL,
	sbaoverhead	SBAOverheadRequest_GENERAL,
	currentsbapayload	PATHSbaPayload,
	currentsbaoverhead	PATHSbaOverhead,
	allocationaddress	SBAAllocationAddress_GENERAL,
	catagory	SBACatagory_GENERAL,
	maxtneg	MaximumT_Neg_GENERAL,
	minsbasegment	MinimumSBASegment_GENERAL
	}	

ASN.1 Type Definition		
Type Name : SBARequest_Response **Comments :**		
Type Definition		
SET	{reasoncode	ReasonCode_GENERAL,
	pathtype	PATHIndex,
	currentsbapayload	PATHSbaPayload,
	currentsbaoverhead	PATHSbaOverhead,
	allocationaddress	SBAAllocationAddress_GENERAL,
	catagory	SBACatagory_GENERAL,
	sbaallocatable	SBAAllocatable_GENERAL
	}	

ASN.1 Type Definition		
Type Name : SBAReport_Response **Comments :**		
Type Definition		
SET	{pathtype	PATHIndex,
	currentsbapayload	PATHSbaPayload,
	currentsbaoverhead	PATHSbaOverhead
	pathtype	PATHIndex OPTIONAL,
	currentsbapayload	PATHSbaPayload OPTIONAL,
	currentsbaoverhead	PATHSbaOverhead OPTIONAL
	}	

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ASN.1 Type Definition		
Type Name : SBAChange_Info **Comments :**		
Type Definition		
SET	{pathtype newsbapayload newsbaoverhead catagory }	PATHIndex, PATHSbaPayload, PATHSbaOverhead, SBACatagory_GENERAL

ASN.1 Type Definition		
Type Name : SBAChange_Response **Comments :**		
Type Definition		
SET	{pathtype currentsbapayload currentsbaoverhead catagory }	PATHIndex, PATHSbaPayload, PATHSbaOverhead, SBACatagory_GENERAL

9.2.1.7.5 RDF InfoField Type Definition

ASN.1 Type Definition		
Type Name : RDF_Info **Comments :**		
Type Definition		
SET	{reasoncode smtsupportedversions rejectedframe	ReasonCode_GENERAL, SMTSupportedVersions_GENERAL OPTIONAL, RejectedFrame_GENERAL OPTIONAL }

9.2.1.7.6 ESF InfoField Type Definition

ASN.1 Type Definition		
Type Name : ESF_Info **Comments :**		
Type Definition		
SET	{ESFID OTHER	ESFID_GENERAL, TBD}

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9.2.1.7.7 SRF InfoField Type Definition

ASN.1 Type Definition		
Type Name : SRF_Info **Comments :**		
Type Definition		
SET	{TimeStamp TransitionTimeStamp eventcondition	SMTTimeStamp, SMTTransitionTimeStamp, TBD }

9.2.1.7.8 PMF InfoField Type Definition

ASN.1 Type Definition		
Type Name : PMFGetResponse_INFO **Comments :**		
Type Definition		
SET	{reasoncode timestamp setcount lastsetstaionid getresponseinfo }	ReasonCode_GENERAL, SMTTimeStamp, SMTSetCount DEFAULT { }, SMTLastSetStationId DEFAULT { }, ANY -- requested parameter(s)

ASN.1 Type Definition		
Type Name : PMFSetRequest_INFO **Comments :**		
Type Definition		
SET	{authorization setcount setrequestinfo }	Authorization_GENERAL DEFAULT { }, SMTSetCount DEFAULT { }, ANY

ASN.1 Type Definition		
Type Name : PMFSetResponse_INFO **Comments :**		
Type Definition		
SET	{reasoncode timestamp setcount lastsetstationid setresponseinfo }	ReasonCode_GENERAL, SMTTimeStamp, SMTSetCount, SMTLastSetStationId, ANY

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9.2.1.8 Test Suite Operation Definition

Test Suite Operation Definition	
Operation Name	: ECH_DATA(length: INTEGER)
Result Type	: OCTETSTRING
Comments	:
Description	
ECH_DATA is an operator defined any length characters. For example: ECH_DATA(5) = “sgGer” ECH_DATA(21) = “Any Length Characters”	

9.2.2 Parameterizations and Selection of Test Cases

9.2.2.1 Test Suite Parameter Declarations

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
MIB_INDEX	OCTETSTRING	PIXIT x.x.x	
MAC_INDEX	OCTETSTRING	PIXIT x.x.x	
PATH_INDEX	OCTETSTRING	PIXIT x.x.x	
PORT_INDEX	OCTETSTRING	PIXIT x.x.x	
T_REQ		PIXIT x.x.x	
T_MAX		PIXIT x.x.x	
TVXValue		PIXIT x.x.x	
NodeClass	HEXSTRING	PICS x.x.x	‘00’..’01’H
Macct	HEXSTRING	PICS x.x.x	’00’..’FF’H
NonMaster_Ct	HEXSTRING	PICS x.x.x	’00’..’02’H
NodeMaster_Ct	HEXSTRING	PICS x.x.x	’00’..’FF’H

9.2.2.2 Test Case Selection Expressions

Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**

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9.2.2.3 Test Suite Constant Declaration

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
JK	SYMBOL[2]	'1100010001'B	Start Delimiter
TT	SYMBOL[2]	'0110101101'B	End Delimiter
T	SYMBOL	'01101'B	T Symbol
SET	SYMBOL	'11001'B	SET Symbol
RESET	SYMBOL	'00111'B	RESET Symbol
PAD_1	HEXADECIMAL	00	
PAD_2	HEXADECIMAL	0000	
PAD_3	HEXADECIMAL	000000	
SMT_Directed_Beacon_DA	HEXADECIMAL	800143008000	MSB Representation
SMT_SRF_DA	HEXADECIMAL	800143008008	MSB Representation
AllFDDIConcentratorMACs	HEXADECIMAL	800143008004	MSB Representation
SMT_SBA_DA	HEXADECIMAL	80014300800C	MSB Representation
SMT_Unknown_Address	HEXADECIMAL	00001F000000	MSB Representation
Broadcast	HEXADECIMAL	FFFFFFFFFFFF	MSB Representation

9.2.2.4 Test Suite Variable Declarations

Test Suite Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
TESTER_ADDRESS	OCTETSTRING(SIZE(6))		Canonical order in HEX value
TESTER_ADDRESS2	OCTETSTRING(SIZE(6))		Canonical order in HEX value
IUT_ADDRESS	OCTETSTRING(SIZE(6))		Canonical order in HEX value
OUI_REF	OCTETSTRING(SIZE(3))		Manufacturer OUI
VENDOR_OCTET	OCTETSTRING(SIZE(1))		Vendor octet
IMPLEMENT_OCTET	OCTETSTRING(SIZE(2))		Implementer octet
PORTINDEX_REF	OCTETSTRING(SIZE(2))	A: B: S: M:	Implementer shall list all PORT Indexes
PATHINDEX_REF	OCTETSTRING(SIZE(2))	primary: secondary: local:	Implementer shall list all PATH Indexes including primary, secondary, and local PATH (if appropriate)
MACINDEX_REF	OCTETSTRING(SIZE(2)) OCTETSTRING(SIZE(2))		Implementer shall list all MAC Indexes on the IUT

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9.2.3 Test Case Declarations and Definitions

9.2.3.1 Test Case Variable Declarations

Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**

9.2.3.2 Timer Declarations

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
TIMER30	30	sec	Tester timer for the interval between successive iterations of the Neighbor Notification Protocol.
TIMER228	228	sec	Tester timer for the maximum interval between successive NIF receptions from the upstream and downstream neighbors to maintain neighbor information validity.
T_Limit	2	sec	The Rate-limiting interval for the Status Report protocol.
TIMER60	60	sec	The interval of the test timer of which awaits the receiving a frame from the IUT
TRT	T_REQ	us	Token Rotation Timer
Timer_TVX	TVXvalue	sec	Valid Transmission Timer
D_MAX	1617	us	Maximum Ring Latency Timer
OPR_TIMER	180	sec	Operator Timer during testing when an implicit send event is required.

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9.2.3.3 ASN.1 PDU Type Definition

9.2.3.3.1 NIF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: NIF_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	NIF_Info,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1)) }

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9.2.3.3.2 SIF PDU Type Definition

ASN.1 PDU Type Definition			
PDU Name: SIF_Frame **PCO Type:** **Comments:**			
Type Definition			
SEQUENCE	{SD	SYMBOL(SIZE(2)),	
	FC	OCTETSTRING(SIZE(1)),	
	DA	OCTETSTRING(SIZE(6)),	
	SA	OCTETSTRING(SIZE(6)),	
	Frame_Class	OCTETSTRING(SIZE(1)),	
	Frame_Type	OCTETSTRING(SIZE(1)),	
	Version_ID	OCTETSTRING(SIZE(2)),	
	Transaction_ID	OCTETSTRING(SIZE(4)),	
	Station_ID1	OCTETSTRING(SIZE(2)),	
	Station_ID2	OCTETSTRING(SIZE(6)),	
	PAD	OCTETSTRING(SIZE(2)),	
	InfoField_Length	OCTETSTRING(SIZE(2)),	
	CHOICE	{sifrequest	NULL,
		configurationresponse	SIFConf_Res,
		operationresponse	SIFOper_Res }
	FCS	SYMBOL(SIZE(4)),	
	ED	SYMBOL(SIZE(1)),	
	FS_E	SYMBOL(SIZE(1)),	
	FS_A	SYMBOL(SIZE(1)),	
	FS_C	SYMBOL(SIZE(1)),	
	FS_2	SYMBOL(SIZE(0..4)),	
	FS_T	SYMBOL(SIZE(1)) }	

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9.2.3.3.3 ECHO PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: ECHO_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	ECHOData_GENERAL,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1)) }

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9.2.3.3.4 RAF PDU Type Definition

ASN.1 PDU Type Definition			
PDU Name: SBA_Frame **PCO Type:** **Comments:**			
Type Definition			
SEQUENCE	{SD	SYMBOL(SIZE(2)),	
	FC	OCTETSTRING(SIZE(1)),	
	DA	OCTETSTRING(SIZE(6)),	
	SA	OCTETSTRING(SIZE(6)),	
	Frame_Class	OCTETSTRING(SIZE(1)),	
	Frame_Type	OCTETSTRING(SIZE(1)),	
	Version_ID	OCTETSTRING(SIZE(2)),	
	Transaction_ID	OCTETSTRING(SIZE(4)),	
	Station_ID1	OCTETSTRING(SIZE(2)),	
	Station_ID2	OCTETSTRING(SIZE(6)),	
	PAD	OCTETSTRING(SIZE(2)),	
	InfoField_Length	OCTETSTRING(SIZE(2)),	
	resourcetype	ResourceType_GENERAL,	
	sbacommand	SBACommand_GENERAL,	
	CHOICE	{requestallocation	SBARequest_Info,
		reportallocation	NULL,
		changeallocation	SBAChange_Info,
		requestresponse	SBARequest_Response,
		reportresponse	SBAReport_Response,
		changeresponse	SBAChange_Response }
	FCS	SYMBOL(SIZE(4)),	
	ED	SYMBOL(SIZE(1)),	
	FS_E	SYMBOL(SIZE(1)),	
	FS_A	SYMBOL(SIZE(1)),	
	FS_C	SYMBOL(SIZE(1)),	
	FS_2	SYMBOL(SIZE(0..4)),	
	FS_T	SYMBOL(SIZE(1))	}

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9.2.3.3.5 RDF PDU Type Definitions

ASN.1 PDU Type Definition		
PDU Name: RDF_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	RDF_Info,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1)) }

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9.2.3.3.6 ESF PDU Type Definitions

ASN.1 PDU Type Definition		
PDU Name: ESF_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	ESF_Info,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1)) }

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9.2.3.3.7 SRF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: SRF_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	SRF_Info,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1)) }

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9.2.3.3.8 PMF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: PMFGetRequest_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	getrequest	ANY,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

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ASN.1 PDU Type Definition		
PDU Name: PMFGetResponse_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	getresponse	PMFGetResponse_INFO,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

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ASN.1 PDU Type Definition		
PDU Name: PMFSetRequest_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	setrequest	PMFSetRequest_INFO,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

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ASN.1 PDU Type Definition		
PDU Name: PMFSetResponse_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	setresponse	PMFSetResponse_INFO,
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

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9.2.3.3.9 ERROR PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: ERROR_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

9.2.3.3.10 Synchronous PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name: SYNC_Frame **PCO Type:** **Comments:**		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	INFO	OCTETSTRING(SIZE(2)),
	FCS	SYMBOL(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)),
	FS_T	SYMBOL(SIZE(1))
	}	

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9.3 Constraint Parts

9.3.1 ASN.1 Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMT73MIB_00
Structured Type	:	SMTMIBGRP_Group
Comments	:	

Constraint Value		
{	smtstationIdgrp	SMTStationId_Grp_00,
	smtstationconfiggrp	SMTStationConfig_Grp_00,
	smtstatusgrp	SMTStatus_Grp_00,
	smtmiboperationgrp	SMTMIBOperation_Grp_00,
	maccapabilitiesgrp	MACCapabilities_Grp_00,
	macconfiggrp	MACConfig_Grp_00,
	macaddressgrp	MACAddress_Grp_00,
	macoperationgrp	MACOperation_Grp_00,
	maccountersgrp	MACCounters_Grp_00,
	macframeerrorconditiongrp	MACFrameErrorCondition_Grp_00,
	macnotcopiedconditiongrp	MACNotCopiedCondition_Grp_00,
	macstatusgrp	MACStatus_Grp_00,
	pathconfiggrp	PATHConfig_Grp_00,
	portlergrp	PORTLer_Grp_00,
	portoperationgrp	PORTOperation_Grp_00,
	porterrorctrsgrp	PORTErrorCtrs_Grp_00,
	portlergrp	PORTLer_Grp_00,
	portstatusgrp	PORTStatus_Grp_00 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	ValidMultiple_PmfGet
Structure Type	:	ValidMultiple_Attributes
Derivation Path	:	
Comments	:	

Constraint Value		
{	stationid	SMTStationId_PmfGet,
	opversionid	SMTOpVersionId_PmfGet }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	ValidMultiple_Pmf_00
Structure Type	:	ValidMultiple_Attributes
Derivation Path	:	
Comments	:	
Constraint Value		
{ stationid opversionid		SMTStationId_01, SMTOpVersionId_01 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	InvalidMultiple_PmfGet
Structure Type	:	InvalidMultiple_Attributes
Derivation Path	:	
Comments	:	
Constraint Value		
{ stationid framestatusfunctions		SMTStationId_PmfGet, MACFrameStatusFunctions_PmfGet }

ASN.1 Type Constraint Declaration		
Constraint Name	:	InvalidMultiple_Pmf_00
Structure Type	:	InvalidMultiple_Attributes
Derivation Path	:	
Comments	:	
Constraint Value		
{ stationid framestatusfunctions		SMTStationId_Q, MACFrameStatusFunctions_PmfGet }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	ValidMultipleGrp_PmfGet
Structure Type	:	ValidMultiple_Group
Derivation Path	:	
Comments	:	

Constraint Value			
{	smtstationidgrp	SMTStationId_Grp_00,	
	smtstationconfiggrp	SMTStationConfig_Grp_00	}

ASN.1 Type Constraint Declaration		
Constraint Name	:	ValidMultipleGrp_Pmf_00
Structure Type	:	ValidMultiple_Group
Derivation Path	:	
Comments	:	

Constraint Value			
{	smtstationidgrp	SMTStationId_Grp_00,	
	smtstationconfiggrp	SMTStationConfig_Grp_00	}

ASN.1 Type Constraint Declaration		
Constraint Name	:	InvalidMultipleGrp_PmfGet
Structure Type	:	InvalidMultiple_Group
Derivation Path	:	
Comments	:	

Constraint Value			
{	smtstationidgrp	SMTStationId_Grp_00,	
	capabilitiesgrp	MACCapabilities_Grp_PmfGet	}

ASN.1 Type Constraint Declaration		
Constraint Name	:	InvalidMultipleGrp_Pmf_00
Structure Type	:	InvalidMultiple_Group
Derivation Path	:	
Comments	:	

Constraint Value			
{	smtstationidgrp	SMTStationId_Grp_00,	
	capabilitiesgrp	MACCapabilities_Grp_00	}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	UNA_UNKNOWN
Structure Type	:	UNA_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0001'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	una	SMT_Unknown_Address }

ASN.1 Type Constraint Declaration		
Constraint Name	:	StationDescriptor_Q
Structured Type	:	StationDescriptor_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0002'H,
	Parameter_Length	'0004'H,
	NodeClass	('00'H, '01'H),
	Macct	?
	NonMaster_Ct	('00'H, '01'H, '02'H),
	Master_Ct	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	StationState_Q
Structured Type	:	StationState_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0003'H,
	Parameter_Length	'0004'H,
	PAD	PAD_2,
	Topology	Topology_Q,
	DupAddress	DuplAddress_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MsgTimeStamp_Q
Structured Type	:	MsgTimeStamp_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0004’H,
	Parameter_Length	‘0008’H,
	msgtimestamp	SMTTimeStampType_Q}

ASN.1 Type Constraint Declaration		
Constraint Name	:	StationPolicies_Q
Structured Type	:	StationPolicies_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0005’H,
	Parameter_Length	‘0004’H,
	configpolicy	SMTConfigPolicyType_Q,
	connectionpolicy	SMTConnectionPolicyType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PathLatency_01
Structured Type	:	PathLatency_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value			
{	Parameter_Type	‘0006’H,	
	Parameter_Length	‘0008’H,	
	PORTOutIndex	?,	
	PathLatencyRing1	?,	
	PORTOutIndex	‘0000’H,	-- Single attach
	PathLatencyRing2	‘0000’H	-- Single attach }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNeighbors_Q
Structured Type	:	MACNeighbors_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0007'H,
	Parameter_Length	'0010'H,
	mibindex	MIBINDEX_REF,
	macindex	MACINDEX_REF,
	una	MACUpstreamNbrType_Q,
	dna	MACDownstreamNbrType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PathDescriptor_Q
Structured Type	:	PathDescriptor_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0008'H,
	Parameter_Length	?,
	mibindex	MIBINDEX_REF,
	PortType	CMNPortType_Q,
	ConnectState	PORTConnectStateType_Q,
	RemotePORTType	CMNPortType_Q,
	RemoteMAC	PORTMACIndicatedType_Q,
	ConResourceIndex	'0001'H..'FFFF'H,
	MAC_Addr	?,
	ConResourceIndex	'0001'H..'FFFF'H }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACStatus_Q
Structured Type	:	MACStatus_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0009’H,
	Parameter_Length	‘0028’H,
	mibindex	MIBINDEX_REF,
	macindex	MACINDEX_REF,
	T_Req	MACTReqType_Q,
	T_Neg	MACTNegType_Q,
	T_Max	MACTMaxType_Q,
	TVXValue	MACTVXValueType_Q,
	T_Min	CMNTwosComplementType_Q,
	SBA	PATHSbaPayloadType_Q,
	Frame_Ct	MACFrame_CtType_Q,
	Error_Ct	MACError_CtType_Q,
	Lost_Ct	MACLost_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PortLERStatus_Q
Structured Type	:	PortLERStatus_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000A’H,
	Parameter_Length	‘0010’H,
	mibindex	MIBINDEX_REF,
	portindex	PORTINDEX_REF,
	PAD	PAD_1,
	Ler_Cutoff	‘04’H..’0F’H,
	Ler_Alarm	‘04’H..’0F’H,
	Ler_Estimate	PORTLerExponentType_Q,
	Lem_Reject_Ct	PORTLem_Reject_CtType_Q,
	Lem_Ct	PORTLem_CtType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameCounters_Q
Structured Type	:	MACFrameCounters_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000B’H,
	Parameter_Length	‘000C’H,
	mibindex	MIBINDEX_REF,
	macindex	MACINDEX_REF,
	Copied_Ct	MACCopied_CtType_Q,
	Transmit_Ct	MACTransmit_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameNotCopiedCount_Q
Structured Type	:	MACFrameNotCopiedCount_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000C’H,
	Parameter_Length	‘0008’H,
	mibindex	MIBINDEX_REF,
	macindex	MACINDEX_REF,
	NotCopied_Ct	MACNotCopied_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACPriorityValues_Q
Structured Type	:	MACPriorityValues_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000D’H,
	Parameter_Length	‘0020’H,
	mibindex	MIBINDEX_REF,
	macindex	MACINDEX_REF,
	T_Pri0	MACT_Pri0Type_Q,
	T_Pri1	MACT_Pri1Type_Q,
	T_Pri2	MACT_Pri2Type_Q,
	T_Pri3	MACT_Pri3Type_Q,
	T_Pri4	MACT_Pri4Type_Q,
	T_Pri5	MACT_Pri5Type_Q,
	T_Pri6	MACT_Pri6Type_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PortElasticityBuffer_Q
Structured Type	:	PortElasticityBuffer_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000E’H,
	Parameter_Length	‘0008’H,
	mibindex	MIBINDEX_REF,
	portindex	PORTINDEX_REF,
	EbErrorCt	PORTEBError_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	ManufacturerField_Q
Structured Type	:	ManufacturerField_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘000F’H,
	Parameter_Length	‘0020’H,
	manuf_data	SMTManufacturerDataType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	UserField_Q
Structured Type	:	UserField_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0010’H,
	Parameter_Length	‘0020’H,
	user_data	SMTUserDataType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	ECHOData_MAX
Structured Type	:	ECHOData_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0011’H,
	Parameter_Length	’1166’H,
	echo_data	ECH_DATA(4454) } -- maximum length of ECHO data

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ASN.1 Type Constraint Declaration		
Constraint Name	:	ReasonCode_Q
Structured Type	:	ReasonCode_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0012’H,
	Parameter_Length	‘0004’H,
	reason	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	RejectedFrame_Q
Structured Type	:	RejectedFrame_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0013’H,
	Parameter_Length	?,
	PAD	PAD_2,
	rejected_frame_beginning	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTSupportedVersions_Q
Structured Type	:	SMTSupportedVersions_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0014’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2 OR NULL,
	numVersions	?,
	indexOpVersion	?,
	Version_1	?,
	Version_2	? }

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTSupportedVersions_73		
Structured Type	: SMTSupportedVersions_GENERAL		
Derivation Path	: SMTSupportedVersions_Q		
Comments	:		
Constraint Value			
REPLACE	PAD	BY	PAD_2,
REPLACE	numVersions	BY	‘02’H,
REPLACE	indexOpVersion	BY	‘02’H,
REPLACE	Version_1	BY	‘0001’H,
REPLACE	Version_2	BY	‘0002’H

ASN.1 Type Constraint Declaration		
Constraint Name	: ResourceType_01	
Structured Type	: ResourceType_GENERAL	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘0015’H,
	Parameter_Length	‘0004’H,
	Resource_Type	‘00000001’H }

ASN.1 Type Constraint Declaration		
Constraint Name	: SBACommand_Request	
Structured Type	: SBACommand_GENERAL	
Derivation Path	:	
Comments	: SBA Request Allocation Command	
Constraint Value		
{	Parameter_Type	‘0016’H,
	Parameter_Length	‘0004’H,
	SbaCommand	‘00000001’H }

ASN.1 Type Constraint Declaration			
Constraint Name	: SBACommand_Report		
Structured Type	: SBACommand_GENERAL		
Derivation Path	: SBACommand_Request		
Comments	: SBA Report Allocation Command		
Constraint Value			
REPLACE	SbaCommand	BY	‘00000002’H

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ASN.1 Type Constraint Declaration			
Constraint Name	: SBACommand_Change		
Structured Type	: SBACommand_GENERAL		
Derivation Path	: SBACommand_Request		
Comments	: SBA Change Allocation Command		
Constraint Value			
REPLACE	SbaCommand	BY	‘00000003’H

ASN.1 Type Constraint Declaration		
Constraint Name	: SBAPayloadRequest_Q	
Structured Type	: SBAPayloadRequest_GENERAL	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘0017’H,
	Parameter_Length	‘0004’H,
	SbaRequest	? }

ASN.1 Type Constraint Declaration		
Constraint Name	: SBAPayloadRequest_00	
Structured Type	: SBAPayloadRequest_GENERAL	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘0017’H,
	Parameter_Length	‘0004’H,
	SbaRequest	‘00000000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	: SBAOverheadRequest_Q	
Structured Type	: SBAOverheadRequest_GENERAL	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘0018’H,
	Parameter_Length	‘0004’H,
	SbaOverheadReq	? }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SBAOverheadRequest_00
Structured Type	:	SBAOverheadRequest_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0018’H,
	Parameter_Length	‘0004’H,
	SbaOverheadReq	‘00000000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SBAAllocationAddress_TESTER
Structured Type	:	SBAAllocationAddress_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘0019’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	SbaAllocationAddr	TESTER_ADDRESS }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SBAAllocationAddress_IUT
Structured Type	:	SBAAllocationAddress_GENERAL
Derivation Path	:	SBAAllocationAddress_TESTER
Comments	:	

Constraint Value			
REPLACE	SbaAllocationAddr	BY	IUT_ADDRESS

ASN.1 Type Constraint Declaration		
Constraint Name	:	SBACatagory_Q
Structured Type	:	SBACatagory_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘001A’H,
	Parameter_Length	‘0004’H,
	Catagory	? }

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ASN.1 Type Constraint Declaration			
Constraint Name	: SBACatagory_00		
Structured Type	: SBACatagory_GENERAL		
Derivation Path	: SBACatagory_Q		
Comments	: Catagory not supported or unknown		
Constraint Value			
REPLACE	Catagory	BY	‘00000000’H

ASN.1 Type Constraint Declaration			
Constraint Name	: SBACatagory_01		
Structured Type	: SBACatagory_GENERAL		
Derivation Path	: SBACatagory_Q		
Comments	: Static Allocation		
Constraint Value			
REPLACE	Catagory	BY	‘00000001’H

ASN.1 Type Constraint Declaration			
Constraint Name	: SBACatagory_02		
Structured Type	: SBACatagory_GENERAL		
Derivation Path	: SBACatagory_Q		
Comments	: Allocator defined classification for the bandwidth		
Constraint Value			
REPLACE	Catagory	BY	‘00000002’H..’FFFFFFFF’H

ASN.1 Type Constraint Declaration		
Constraint Name	: MaximumT_Neg_Q	
Structured Type	: MaximumT_Neg_GENERAL	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘001B’H,
	Parameter_Length	‘0004’H,
	MaxTneg	? }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MimimumSBASegment_Q
Structured Type	:	MinimumSBASegment_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'001C'H,
	Parameter_Length	'0004'H,
	MinSegment	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SBAAllocatable_Q
Structured Type	:	SBAAllocatable_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'001D'H,
	Parameter_Length	'0004'H,
	SbaAllocatable	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SBAAllocatable_00
Structured Type	:	SBAAllocatable_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'001D'H,
	Parameter_Length	'0004'H,
	SbaAllocatable	'00000000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	Authorization_Q
Structured Type	:	Authorization_GENERAL
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'0021'H,
	Parameter_Length	?,
	Authorization	? }

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ASN.1 Type Constraint Declaration	
Constraint Name	: ESFID_Q
Structured Type	: ESFID_GENERAL
Derivation Path	:
Comments	:

Constraint Value

```
{       Parameter_Type          'FFFF'H,
        Parameter_Length        '0008'H,
        PAD                     PAD_2,
        ESF_ID                  ?       }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_Q
Structured Type	: DuplAddressType
Derivation Path	:
Comments	:

Constraint Value

```
?
```

ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_00
Structured Type	: DuplAddressType
Derivation Path	:
Comments	: my duplicate -- fddiMACDA_Flag for this MAC

Constraint Value

```
'00000001'B,
```

ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_01
Structured Type	: DuplAddressType
Derivation Path	:
Comments	: my UNA duplicate -- fddiMACUNDA_Flag for this MAC

Constraint Value

```
'00000010'B,
```

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ASN.1 Type Constraint Declaration				
Constraint Name	: ECHOData_MIN			
Structured Type	: ECHOData_GENERAL			
Derivation Path	: ECHOData_MAX			
Comments	:			
Constraint Value				
REPLACE	Parameter_Length	BY	‘0000’H,	
REPLACE	echo_data	BY	NULL	-- null data

ASN.1 Type Constraint Declaration				
Constraint Name	: ECHOData_SMTMAX			
Structured Type	: ECHOData_GENERAL			
Derivation Path	: ECHOData_MAX			
Comments	: maximum length of SMT Infofield			
Constraint Value				
REPLACE	Parameter_Length	BY	‘117E’H,	
REPLACE	echo_data	BY	ECH_DATA(4458)	

ASN.1 Type Constraint Declaration				
Constraint Name	: ECHOData_INVALID			
Structured Type	: ECHOData_GENERAL			
Derivation Path	: ECHOData_MAX			
Comments	: maximum length of SMT Infofield			
Constraint Value				
REPLACE	Parameter_Length	BY	‘1194’H,	
REPLACE	echo_data	BY	ECH_DATA(4500)	

ASN.1 Type Constraint Declaration				
Constraint Name	: PathLatency_02			
Structured Type	: PathLatency_GENERAL			
Derivation Path	:			
Comments	:			
Constraint Value				
REPLACE	PORTOutIndex	BY	‘0001’..’FFFF’H,	-- Dual attach
REPLACE	PathLatencyRing2	BY	‘0001’..’FFFF’H	-- Dual attach

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ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_01 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : frame class not supported			
Constraint Value			
REPLACE	reason	BY	'00000001'H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_02 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : frame version not supported			
Constraint Value			
REPLACE	reason	BY	'00000002'H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_03 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : success			
Constraint Value			
REPLACE	reason	BY	'00000003'H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_04 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : bad set count			
Constraint Value			
REPLACE	reason	BY	'00000004'H

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ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_05 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : illegal operation			
Constraint Value			
REPLACE	reason	BY	‘00000005’H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_06 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : no parameter			
Constraint Value			
REPLACE	reason	BY	‘00000006’H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_08 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : out of range			
Constraint Value			
REPLACE	reason	BY	‘00000008’H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_09 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : not authorized			
Constraint Value			
REPLACE	reason	BY	‘00000009’H

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_0A **Structured Type** : ReasonCode_GENERAL **Derivation Path** : ReasonCode_Q **Comments** : length error			
Constraint Value			
REPLACE	reason	BY	‘0000000A’H

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ASN.1 Type Constraint Declaration			
Constraint Name	: ReasonCode_0B		
Structured Type	: ReasonCode_GENERAL		
Derivation Path	: ReasonCode_Q		
Comments	: frame too long		
Constraint Value			
REPLACE	reason	BY	‘0000000B’H

ASN.1 Type Constraint Declaration			
Constraint Name	: ReasonCode_0D		
Structured Type	: ReasonCode_GENERAL		
Derivation Path	: ReasonCode_Q		
Comments	: sba denied		
Constraint Value			
REPLACE	reason	BY	‘0000000D’H

ASN.1 Type Constraint Declaration			
Constraint Name	: StationDescriptor_01		
Structured Type	: StationDescriptor_GENERAL		
Derivation Path	: StationDescriptor_Q		
Comments	: tester description for a single MAC DAS FDDI Station		
Constraint Value			
REPLACE	NodeClass	BY	‘00’H,
REPLACE	Macct	BY	‘01’H,
REPLACE	NonMaster_Ct	BY	’02’H,
REPLACE	Master_Ct	BY	‘00’H

ASN.1 Type Constraint Declaration			
Constraint Name	: StationState_01		
Structured Type	: StationState_GENERAL		
Derivation Path	: StationState_Q		
Comments	: Normal FDDI Asynchronous operation		
Constraint Value			
REPLACE	Topology	BY	TopologyType_01,
REPLACE	DupAddress	BY	DuplAddress_Q

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ASN.1 Type Constraint Declaration	
Constraint Name	: Topology_Q
Structured Type	: TopologyType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: Topology_01
Structured Type	: TopologyType
Derivation Path	:
Comments	: Normal FDDI Asynchronous operation with SRF enabled by default
Constraint Value	
'00100000'B,	

ASN.1 Type Constraint Declaration	
Constraint Name	: Topology_02
Structured Type	: TopologyType
Derivation Path	:
Comments	: Synchronous service and SRF enabled.
Constraint Value	
'01100000'B,	

ASN.1 Type Constraint Declaration	
Constraint Name	: SbaPayloadType_Q
Structured Type	: SbaPayloadType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration			
Constraint Name	: SbaAvailableType_Q		
Structured Type	: SbaAvailableType		
Derivation Path	:		
Comments	:		
Constraint Value			
{	sbaavailable	0..12500	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTSupportedVersions_62		
Structured Type	: SMTSupportedVersions_GENERAL		
Derivation Path	:		
Comments	: Check if version 62 has this format!!		
Constraint Value			
REPLACE	numVersions	BY	‘01’H,
REPLACE	indexOpVersion	BY	‘01’H,
OMIT	Version_2		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTSupportedVersions_XX		
Structured Type	: SMTSupportedVersions_GENERAL		
Derivation Path	: SMTSupportedVersion_73		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	?,
REPLACE	PAD	BY	PAD_2,
REPLACE	numVersions	BY	‘01’H..’FF’H,
REPLACE	indexOpVersion	BY	‘01’H..’FF’H
REPLACE	Version_1	BY	‘0000’H..’FFFF’H,
REPLACE	Version_n	BY	‘0000’H..’FFFF’H,
REPLACE	PAD	BY	?

ASN.1 Type Constraint Declaration			
Constraint Name	: UNA_IUT		
Structure Type	: UNA_GENERAL		
Derivation Path	: UNA_UNKNOWN		
Comments	:		
Constraint Value			
REPLACE	una	BY	IUT_ADDRESS

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ASN.1 Type Constraint Declaration			
Constraint Name	: UNA_TESTER		
Structure Type	: UNA_GENERAL		
Derivation Path	: UNA_UNKNOWN		
Comments	:		
Constraint Value			
REPLACE	una	BY	TESTER_ADDRESS

ASN.1 Type Constraint Declaration			
Constraint Name	: UNA_TESTER2		
Structure Type	: UNA_GENERAL		
Derivation Path	: UNA_UNKNOWN		
Comments	:		
Constraint Value			
REPLACE	una	BY	TESTER_ADDRESS2

9.3.1.1 ASN.1 Type Constraint for SMT Attributes

9.3.1.1.1 SMT Station ID Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStationId_Grp_00		
Structured Type	: SMTStationId_Group		
Comments	:		
Constraint Value			
{	stationid	SMTStationId_01,	
	opversionid	SMTOpVersionId_01,	
	hiversionid	SMTHiVersionId_01,	
	loversionid	SMTLoVersionId_01,	
	manufacturerdata	SMTManufacturerData_01,	-- optional
	userdata	SMTUserData_01,	
	mibversionid	SMTMIBVersionId_01 }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStationIdGrp_PmfReq		
Structured Type	: GroupAttribute		
Comments	:		
Constraint Value			
{	ParameterType	‘100A’H,	
	Parameter_Length	‘0000’H }	

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStationId_01		
Structured Type	: SMTStationId		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘100A’H,	
	Parameter_Length	‘0008’H,	
	stationidtype	SMTStationIdentifierType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStationId_PmfReq		
Structured Type	: SMTStationId		
Derivation Path	: SMTStationId_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	stationidtype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTOpVersionId_01		
Structured Type	: SMTOpVersionId		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘100D’H,	
	Parameter_Length	‘0008’H,	
	PAD	PAD_2,	
	opversionidtype	‘0002’H }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTOpVersionId_PmfReq		
Structured Type	: SMTOpVersionId		
Derivation Path	: SMTOpVersionId_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	opversionidtype		

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHiVersionId_01
Structured Type	:	SMTHiVersionId
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘100D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	hiversionidtype	‘0002’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHiVersionId_PmfReq
Structured Type	:	SMTHiVersionId
Derivation Path	:	SMTHiVersionId_01
Comments	:	

Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	hiversionidtype		

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLoVersionId_01
Structured Type	:	SMTLoVersionId
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘100D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	loversionidtype	‘0001’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLoVersionId_PmfReq
Structured Type	:	SMTLoVersionId
Derivation Path	:	SMTLoVersionId_01
Comments	:	

Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	loversionidtype		

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTManufacturerData_01
Structured Type	:	SMTManufacturerData
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘1010’H,
	Parameter_Length	‘0032’H,
	manufacturerdatatype	SMTManufacturerDataType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTManufacturerData_PmfReq
Structured Type	:	SMTManufacturerData
Derivation Path	:	SMTManufacturerData_01
Comments	:	

Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	manufacturerdatatype		

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMIBVersionId_Q
Structured Type	:	SMTMIBVersionId
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘100D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	mibversionidtype	‘0002’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMIBVersionId_PmfReq
Structured Type	:	SMTMIBVersionId
Derivation Path	:	SMTMIBVersionId_Q
Comments	:	

Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	mibversionidtype		

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9.3.1.1.2 SMT Station Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name : SMTStationConfig_Grp_00 **Structured Type** : SMTStationConfig_Group **Comments** :		
Constraint Value		
{	macct	SMTMac_Ct_01,
	nonmasterct	SMTNonMaster_Ct_01,
	masterct	SMTMaster_Ct_01,
	availablepaths	SMTAvailablePaths_01,
	configcapabilities	SMTConfigCapabilities_01,
	configpolicy	SMTConfigPolicy_01,
	connectionpolicy	SMTConnectionPolicy_01,
	tnotify	SMTT_Notify_01,
	statrptpolicy	SMTStatRptPolicy_01,
	tracemacexpiration	SMTTrace_MaxExpiration_01,
	portindexes	SMTPORTIndexes_01,
	macindexes	SMTMACIndexes_01,
	bypasspresent	SMTBypassPresent_01 }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTStationConfigGrp_PmfReq **Structured Type** : GroupAttribute **Comments** :		
Constraint Value		
{	ParameterType	'10014'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTMac_Ct_01 **Structured Type** : SMTMac_Ct **Derivation Path** : **Comments** :		
Constraint Value		
{	Parameter_Type	'1015'H,
	Parameter_Length	'0004'H,
	PAD	PAD_2,
	maccttype	? }

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTMac_Ct_PmfReq		
Structured Type	: SMTMac_Ct		
Derivation Path	: SMTMac_Ct_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	maccttype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTNonMaster_Ct_01		
Structured Type	: SMTNonMaster_Ct		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘1016’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	nonmastercttype	?	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTNonMaster_Ct_PmfReq		
Structured Type	: SMTNonMaster_Ct		
Derivation Path	: SMTNonMaster_Ct_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	nonmastercttype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTMaster_Ct_01		
Structured Type	: SMTMaster_Ct		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘1017’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	mastercttype	?	}

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTMaster_Ct_PmfReq		
Structured Type	: SMTMaster_Ct		
Derivation Path	: SMTMaster_Ct_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	mastercttype		

ASN.1 Type Constraint Declaration					
Constraint Name	: SMTAvailablePaths_01				
Structured Type	: SMTAvailablePaths				
Derivation Path	:				
Comments	:				
Constraint Value					
{	Parameter_Type	‘1018’H,			
	Parameter_Length	‘0004’H,			
	{ PAD	PAD_1,			
	availablepathstype	CMNAvailablePathsType_Q	}	}	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTAvailablePaths_PmfReq		
Structured Type	: SMTAvailablePaths		
Derivation Path	: SMTAvailablePaths_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
REPLACE	PAD,		
REPLACE	availablepathstype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConfigCapabilities_01		
Structured Type	: SMTConfigCapabilities		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘1019’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	capabilitiestype	SMTCapabilitiesType_Q}	

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConfigCapabilities_PmfReq		
Structured Type	: SMTConfigCapabilities		
Derivation Path	: SMTConfigCapabilities_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	capabilitiestype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConfigPolicy_01		
Structured Type	: SMTConfigPolicy		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘100A’H,	
	Parameter_Length	‘0008’H,	
	PAD	PAD_2,	
	configpolicytype	SMTConfigPolicyType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConfigPolicy_PmfReq		
Structured Type	: SMTConfigPolicy		
Derivation Path	: SMTConfigPolicy_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	configpolicytype		

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConnectionPolicy_01		
Structured Type	: SMTConnectionPolicy		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘100B’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	connectionpolicytype	ConnectionPolicyType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTConnectionPolicy_PmfReq		
Structured Type	: SMTConnectionPolicy		
Derivation Path	: SMTConnectionPolicy_01		
Comments	:		
Constraint Value			
REPPACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	connectionpolicytype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTT_Notify_01		
Structured Type	: SMTT_Notify		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘101D’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	tnotifytype	SMTT_NotifyType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTT_Notify_PmfReq		
Structured Type	: SMTT_Notify		
Derivation Path	: SMTT_Notify_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	tnotifytype		

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStatRptPolicy_01		
Structured Type	: SMTStatRptPolicy		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘101E’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_1,	
	statrptpolicy	TRUE }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStatRptPolicy_PmfReq		
Structured Type	: SMTStatRptPolicy		
Derivation Path	: SMTStatRptPolicy_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	statrptpolicytype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTTrace_MaxExpiration_01		
Structured Type	: SMTTrace_MaxExpiration		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘101F’H,	
	Parameter_Length	‘0004’H,	
	tracemaxexpirationtype	CMNTime_Q }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTTrace_MaxExpiration_PmfReq		
Structured Type	: SMTTrace_MaxExpiration		
Derivation Path	: SMTTrace_MaxExpiration_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	tracemaxexpirationtype		

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTPORTIndexes_01		
Structured Type	: SMTPORTIndexes		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘1020’H,	
	Parameter_Length	?,	
	PAD	PAD_2 or NULL,	
	portindexestype	SET OF CMNResourceId_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTPORTIndexes_PmfReq		
Structured Type	: SMTPORTIndexes		
Derivation Path	: SMTPORTIndexes_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	portndexestype		

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTMACIndexes_01		
Structured Type	: SMTMACIndexes		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘1021’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_1,	
	macindexestype	SET OF CMNResourceId_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTMACIndexes_PmfReq		
Structured Type	: SMTMACIndexes		
Derivation Path	: SMTMACIndexes_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	macindexestype		

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTBypassPresent_01		
Structured Type	: SMTBypassPresent		
Derivation Path	:		
Comments	: IUT has a bypass switch		
Constraint Value			
{	Parameter_Type	‘1022’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_1,	
	bypassresenttype	TRUE }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTBypassPresent_PmfReq		
Structured Type	: SMTBypassPresent		
Derivation Path	: SMTBypassPresent_01		
Comments	: IUT has a bypass switch		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	bypasspresent		

9.3.1.1.3 SMT Status Group Attribute Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStatus_Grp_00		
Structured Type	: SMTStatus_Group		
Comments	:		
Constraint Value			
{	ecmstate	SMTECMState_01,	
	cfstate	SMTCF_State_01,	
	holdstate	SMTHoldState_01,	-- optional
	remotedisconnectflag	SMTRemoteDisconnectFlag_01,	
	stationstatus	SMTStationStatus_01,	
	peerwrapflag	SMTPeerWrapFlag_01 }	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStatusGrp_PmfReq		
Structured Type	: GroupAttribute		
Comments	:		
Constraint Value			
{	ParameterType	‘10028’H,	
	Parameter_Length	‘0000’H }	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTECMState_01
Structured Type	:	SMTECMState
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘1029’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_2,
	ecmstatetype	SMTECMStateType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTCF_State_01
Structured Type	:	SMTCF_State
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘102A’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_2,
	cfstatetype	SMTCF_StateType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHoldState_01
Structured Type	:	SMTHoldState
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘102B’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_2,
	holdstatetype	SMTHoldStateType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTRemoteDisconnectFlag_01
Structured Type	:	SMTRemoteDisconnectFlag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘102C’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_1,
	remotedisconnectflagtype	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTStationStatus_01
Structured Type	:	SMTStationStatus
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘102D’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_2,
	stationstatustype	SMTStatus_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapFlag_01
Structured Type	:	SMTPeerWrapFlag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘102E’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_1,
	peerwrapflagtype	FALSE }

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9.3.1.1.4 SMT MIB Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name : SMTMIBOperation_Grp_00			
Structured Type : SMTMIBOperation_Group			
Comments :			
Constraint Value			
{	timestamp	SMTTimeStamp_01,	
	transitiontimestamp	SMTTransitionTimeStamp_01,	
	setcount	SMTSetCount_01,	-- optional
	lastsetstationid	SMTLastSetStationId_01	-- optional }

ASN.1 Type Constraint Declaration			
Constraint Name : SMTMIBOperationGrp_PmfReq			
Structured Type : GroupAttribute			
Comments :			
Constraint Value			
{	ParameterType	'10032'H,	
	Parameter_Length	'0000'H	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTTimeStamp_01			
Structured Type : SMTTimeStamp			
Derivation Path :			
Comments :			
Constraint Value			
{	Parameter_Type	'1033'H,	
	Parameter_Length	'0008'H,	
	timestamptype	CMNTimeStampType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTTransitionTimeStamp_01			
Structured Type : SMTTransitionTimeStamp			
Derivation Path :			
Comments :			
Constraint Value			
{	Parameter_Type	'1034'H,	
	Parameter_Length	'0008'H,	
	transitiontimestamptype	CMNTimeStampType_Q	}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTSetCount_01
Structured Type	:	SMTSetCount
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘1035’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	setcounttype	SMTSetCountType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLastSetStationId_01
Structured Type	:	SMTLastSetStationId
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘1036’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	lastsetstationidtype	SMTStationIdentifierType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTVendorAttrib_01
Structured Type	:	SMTVendorAttrib
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘10FF’H,
	Parameter_Length	?,
	PAD	?,
	vendorattrib	CMNVendorMIBType_Q}

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9.3.1.2 ASN.1 Type Constraint for MAC Attributes

9.3.1.2.1 MAC Capabilities Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACCapabilities_Grp_00
Structured Type	:	MACCapabilities_Group
Comments	:	

Constraint Value		
{	framestatusfunctions	MACFrameStatusFunctions_01,
	bridgefunctions	MACBridgeFunctions_01,
	tmaxcapability	MACT_MaxCapability_01,
	tvxcapability	MACTVXCapability_01 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACCapabilitiesGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	‘200A’H,
	Parameter_Length	‘0000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameStatusFunctions_01
Structured Type	:	MACFrameStatusFunctions
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘200B’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	framestatusfunctionstype	MACFS_Functions_00 }

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ASN.1 Type Constraint Declaration				
Constraint Name	: MACFrameStatusFunctions_Q			
Structured Type	: MACFrameStatusFunctions			
Derivation Path	: MACFrameStatusFunctions_01			
Comments	:			
Constraint Value				
REPLACE	fsfunctions	BY	MACFS_Functions_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACFrameStatusFunctions_PmfReq		
Structured Type	: MACFrameStatusFunctions		
Derivation Path	: MACFrameStatusFunctions_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	PAD,		
OMIT	fsfunctions		

ASN.1 Type Constraint Declaration			
Constraint Name	: MACBridgeFunction_01		
Structured Type	: MACBridgeFunctions		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type		‘200C’H,
	Parameter_Length		‘0008’H,
	PAD		PAD_2,
	macindex		MACINDEX_REF,
	PAD		PAD_2,
	bridgetype		MACBridgeType_Q }

ASN.1 Type Constraint Declaration			
Constraint Name	: MACBridgeFunction_PmfReq		
Structured Type	: MACBridgeFunctions		
Derivation Path	: MACBridgeFunction_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	PAD,		
OMIT	bridgetype		

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_MaxCapability_01
Structured Type	:	MACT_MaxCapability
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘200D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tmaxcapabilitytype	CMNTwosComplementType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_MaxCapability_PmfReq
Structured Type	:	MACT_MaxCapability
Derivation Path	:	MACT_MaxCapability_01
Comments	:	

Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	tmaxcapabilitytype		

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTVXCapability_01
Structured Type	:	MACTVXCapability
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘200E’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tvacapabilitytype	CMNTwosComplementType_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name	: MACTVXCapability_PmfReq		
Structured Type	: MACTVXCapability		
Derivation Path	: MACTVXCapability_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0000’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	tvxcapabilitytype		

9.3.1.2.2 MAC Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	: MACConfig_Grp_00	
Structured Type	: MACConfig_Group	
Comments	:	
Constraint Value		
{	availablepaths	MACAvailablePaths_01,
	currentpath	MACCurrentPath_01,
	upstreamnbr	MACUpstreamNbr_01,
	downstreamnbr	MACDownstreamNbr_01,
	oldupstreamnbr	MACOldUpstreamNbr_01,
	olddownstreamnbr	MACOldDownstreamNbr_01,
	dupaddresstest	MACDupAddressTest_01,
	requestedpaths	MACRequestedPaths_01,
	downstreamporttype	MACDownstreamPORTType_01,
	macindex	MACIndex_01 }

ASN.1 Type Constraint Declaration		
Constraint Name	: MACConfigGrp_PmfReq	
Structured Type	: GroupAttribute	
Comments	:	
Constraint Value		
{	ParameterType	‘2014’H,
	Parameter_Length	‘0000’H }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACAvailablePaths_01
Structured Type	:	MACAvailablePaths
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2016'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	availablepathstype	CMNAvailablePathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACCurrentPath_01
Structured Type	:	MACCurrentPath
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2017'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	currentpathtype	CMNCurrentPathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUpstreamNbr_01
Structured Type	:	MACUpstreamNbr
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2018'H,
	Parameter_Length	'000C'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	upstreamnbrtype	CMNLongAddress_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name	: MACDownstreamNbr_01		
Structured Type	: MACDownstreamNbr		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘2019’H,	
	Parameter_Length	‘000C’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	PAD	PAD_2,	
	downstreamnbrtype	CMNLongAddressType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACDownstreamNbr_Pmf_00		
Structured Type	: MACDownstreamNbr		
Derivation Path	: MACDownstreamNbr_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0004’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	PAD,		
OMIT	downstreamnbrtype		

ASN.1 Type Constraint Declaration			
Constraint Name	: MACOldUpstreamNbr_01		
Structured Type	: MACOldUpstreamNbr		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘201A’H,	
	Parameter_Length	‘000C’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	PAD	PAD_2,	
	oldupstreamnbrtype	CMNLongAddressType_Q	}

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ASN.1 Type Constraint Declaration			
Constraint Name	: MACOldUpstreamNbr_Pmf_00		
Structured Type	: MACOldUpstreamNbr		
Derivation Path	: MACOldUpstreamNbr_01		
Comments	:		
Constraint Value			
REPLACE	Parameter_Length	BY	‘0004’H,
OMIT	PAD,		
OMIT	macindex,		
OMIT	PAD,		
OMIT	oldupstreamnbrtype		

ASN.1 Type Constraint Declaration			
Constraint Name	: MACOldDownstreamNbr_01		
Structured Type	: MACOldDownstreamNbr		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘201B’H,	
	Parameter_Length	‘000C’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	PAD	PAD_2,	
	olddownstreamnbrtype	CMNLongAddressType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACDupAddressTest_01		
Structured Type	: MACDupAddressTest		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘201D’H,	
	Parameter_Length	‘0004’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	PAD	PAD_2,	
	dupaddresstesttest	MACDupAddressTestType_Q	}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACRequestedPaths_01
Structured Type	:	MACRequestedPaths
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2020’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	requestedpathstype	CMNPermittedPathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDownstreamPORTType_01
Structured Type	:	MACDownstreamPORTType
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2021’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	downstreamporttype	CMNPortType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACIndex_01
Structured Type	:	MACIndex
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2022’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	macindextype	CMNResourceIdType_Q }

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9.3.1.2.3 MAC Address Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: MACAddress_Grp_00		
Structured Type	: MACAddress_Group		
Comments	:		
Constraint Value			
{	smtaddress	MACSMTAddress_01,	
	longgrpaddress	MACLong_QAddress_01,	-- optional when HP
	shortgrpaddress	MACShort_QAddress_01	-- optional when HP }

ASN.1 Type Constraint Declaration			
Constraint Name	: MACAddressGrp_PmfReq		
Structured Type	: GroupAttribute		
Comments	:		
Constraint Value			
{	ParameterType	‘2028’H,	
	Parameter_Length	‘0000’H	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACSMTAddress_01		
Structured Type	: MACSMTAddress		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘2029’H,	
	Parameter_Length	‘0008’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	PAD	PAD_2,	
	smtaddersstype	CMNLongAddress_Q	}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLongGrpAddress_01
Structured Type	:	MACLongGrpAddress
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'202C'H,
	Parameter_Length	?,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	longgrpaddresstype	SET OF CMNLongAddress_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACShortGrpAddress_01
Structured Type	:	MACShortGrpAddress
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'202D'H,
	Parameter_Length	?,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	shortgrpaddresstype	SET OF MACShortAddressType_Q }

9.3.1.2.4 MAC Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACOperation_Grp_00
Structured Type	:	MACOperation_Group
Comments	:	

Constraint Value			
{	treq	MACT_Req_01,	
	tneg	MACT_Neg_01,	
	tmax	MACT_Max_01,	
	tvxvalue	MACTvxValue_01,	
	tpri0	MACT_Pri0_01,	-- optional when HP
	tpri1	MACT_Pri1_01,	-- optional when HP
	tpri2	MACT_Pri2_01,	-- optional when HP
	tpri3	MACT_Pri3_01,	-- optional when HP
	tpri4	MACT_Pri4_01,	-- optional when HP
	tpri5	MACT_Pri5_01,	-- optional when HP
	tpri6	MACT_Pri6_01	-- optional when HP }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACOperationGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	'2032'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Req_01
Structured Type	:	MACT_Req
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2033'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	treqtype	MACTReqType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Neg_01
Structured Type	:	MACT_Neg
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2034'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tnegtype	MACT_NegType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Max_01
Structured Type	:	MACT_Max
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2035’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tmaxtype	MACTMaxType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTvxValue_01
Structured Type	:	MACTvxValue
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2036’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tvxvaluetype	MACTVXValueType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri0_01
Structured Type	:	MACT_Pri0
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2038’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri0type	MACT_Pri0Type_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri1_01
Structured Type	:	MACT_Pri1
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2039’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri1type	MACT_Pri1Type_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri2_01
Structured Type	:	MACT_Pri2
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘203A’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri2type	MACT_Pri2Type_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri3_01
Structured Type	:	MACT_Pri3
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘203B’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri3type	MACT_Pri3Type_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri4_01
Structured Type	:	MACT_Pri4
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘203C’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri4type	MACT_Pri4Type_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri5_01
Structured Type	:	MACT_Pri5
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘203D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri5type	MACT_Pri5Type_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri6_01
Structured Type	:	MACT_Pri6
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘203E’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tpri6type	MACT_Pri6Type_Q }

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9.3.1.2.5 MAC Counters Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: MACCounters_Grp_00		
Structured Type	: MACCounters_Group		
Comments	:		
Constraint Value			
{	framect	MACFrame_Ct_01,	
	copiedct	MACCopied_Ct_01,	
	transmitct	MACTransmit_Ct_01,	
	tokenct	MACToken_Ct_01,	-- optional when HP
	errorct	MACError_Ct_01,	
	lostct	MACLost_Ct_01,	
	tvxespiredct	MACTvxExpired_Ct_01,	-- optional when HP
	notcopiedct	MACNotCopied_Ct_01,	-- optional when HP
	latect	MACLate_Ct_01,	-- optional when HP
	ringopct	MACRingOp_Ct_01	-- optional when HP }

ASN.1 Type Constraint Declaration			
Constraint Name	: MACCountersGrp_PmfReq		
Structured Type	: GroupAttribute		
Comments	:		
Constraint Value			
{	ParameterType	‘2046’H,	
	Parameter_Length	‘0000’H }	

ASN.1 Type Constraint Declaration			
Constraint Name	: MACFrame_Ct_01		
Structured Type	: MACFrame_Ct		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘2047’H,	
	Parameter_Length	‘0008’H,	
	PAD	PAD_2,	
	macindex	MACINDEX_REF,	
	framecttype	MACFrame_CtType_Q }	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACCopied_Ct_01
Structured Type	:	MACCopied_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2048’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	copiedcttype	MACCopied_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTransmit_Ct_01
Structured Type	:	MACTransmit_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2049’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	transmitcttype	MACTransmit_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACToken_Ct_01
Structured Type	:	MACToken_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘204A’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tokencttype	MACToken_CtType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACError_Ct_01
Structured Type	:	MACError_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2051’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	errorcttype	MACError_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLost_Ct_01
Structured Type	:	MACLost_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2052’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	lostcttype	MACLost_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTvxExpired_Ct_01
Structured Type	:	MACTvxExpired_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2053’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	tvxexpiredcttype	MACTvxExpired_CtType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopied_Ct_01
Structured Type	:	MACNotCopied_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2054'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	notcopiedcttype	MACNotCopied_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLate_Ct_01
Structured Type	:	MACLate_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2055'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	latecttype	MACLate_CtType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACRingOp_Ct_01
Structured Type	:	MACRingOp_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2056'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	ringopcttype	MACRingOp_CtType_Q}

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9.3.1.2.6 MAC Frame Error Condition Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorCondition_Grp_00
Structured Type	:	MACFrameErrorCondition_Group
Comments	:	

Constraint Value		
{	frameerrorthreshold	MACFrameErrorThreshold_Q,
	frameerrorratio	MACFrameErrorRatio_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorConditionGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	'205A'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorThreshold_Q
Structured Type	:	MACFrameErrorThreshold
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'205F'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	frameerrorthresholdtype	MACFrameErrorThresholdType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorRatio_Q
Structured Type	:	MACFrameErrorRatio
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2060'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	frameerrorratiotype	MACFrameErrorRatioType }

9.3.1.2.7 MAC Not Copied Condition Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedCondition_Grp_00
Structured Type	:	MACNotCopiedCondition_Group
Comments	:	

Constraint Value		
{	macnotcopiedthreshold	MACNotCopiedThreshold_Q, -- optional
	macnotcopiedratio	MACNotCopiedRatio_Q -- optional when HP }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedConditionGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	'2064'H,
	Parameter_Length	'0000'H }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedThreshold_Q
Structured Type	:	MACNotCopiedThreshold
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2067'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	notcopiedthresholdtype	MACNotCopiedThresholdType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedRatio_Q
Structured Type	:	MACNotCopiedRatio
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2069'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	notcopiedratiotype	MACNotCopiedRatioType_Q }

9.3.1.2.8 MAC Status Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACStatus_Grp_00
Structured Type	:	MACStatus_Group
Comments	:	

Constraint Value		
{	rmtstate	MACRMTState_Q,
	daflag	MACDA_Flag_Q,
	undaflag	MACUNDA_Flag_Q,
	frameerrorflag	MACFrameErrorFlag_Q,
	notcopiedflag	MACNotCopiedFlag_Q OPTIONAL
	unitdataavailable	MACUnitDataAvailable_Q,
	hardwarepresent	MACHardwarePresent_Q,
	maunitdataavailable	MACMA_UnitdataEnable_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	: MACStatusGrp_PmfReq	
Structured Type	: GroupAttribute	
Comments	:	
Constraint Value		
{	ParameterType	'206E'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	: MACRMTState_Q	
Structured Type	: MACRMTState	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	'206F'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	rmtstatetype	MACRMTStateType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	: MACDA_Flag_Q	
Structured Type	: MACDA_Flag	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	'2070'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	daflagtype	FALSE }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUNDA_Flag_Q
Structured Type	:	MACUNDA_Flag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2071’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	undaflagtype	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorFlag_Q
Structured Type	:	MACFrameErrorFlag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2072’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	frameerrorflagtype	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedFlag_Q
Structured Type	:	MACNotCopiedFlag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2073’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	notcopiedflagtype	FALSE }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACMA_UnitdataAvailable_Q
Structured Type	:	MACMA_UnitdataAvailable
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘2074’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	maunitdataavailabletype	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACHardwarepresent_Q
Structured Type	:	MACHardwarePresent
Derivation Path	:	
Comments	:	IUT does not have a MAC

Constraint Value		
{	Parameter_Type	‘2075’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	hwpresenttype	‘00’I }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACHardwarepresent_01
Structured Type	:	MACHardwarePresent
Derivation Path	:	MACHardwarePresent_Q
Comments	:	IUT has a MAC

Constraint Value			
REPLACE	hwpresenttype	BY	‘01’I

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACMA_UnitdataEnable_Q
Structured Type	:	MACMA_UnitdataEnable
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'2076'H,
	Parameter_Length	'0008'H,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	PAD_1,
	maunitdataenabletype	FALSE}

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACVendorAttrib_Q
Structured Type	:	MACVendorAttrib
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'20FF'H,
	Parameter_Length	?,
	PAD	PAD_2,
	macindex	MACINDEX_REF,
	PAD	?,
	vendormibtype	CMNVendorMIBType_Q}

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9.3.1.3 ASN.1 Type Constraint for PATH Attributes

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHConfig_Grp_00
Structured Type	:	PATHConfig_Group
Comments	:	

Constraint Value			
{	index	PATHIndex_Q,	
	ringlatency	PATHRingLatency_Q,	-- optional
	tracestatus	PATHTraceStatus_Q,	-- optional
	sbapayload	PATHSbaPayload_Q,	-- optional
	sbaoverhead	PATHSbaOverhead_Q,	-- optional
	configuration	PATHConfiguration_Q,	
	trmode	PATHT_Rmode_01,	-- optional
	sbaavailable	PATHSbaAvailable_01,	-- optional
	tvxlowerbound	PATHTVXLowerBound_01,	
	tmaxlowerbound	PATHT_MaxLowerBound_01,	
	maxtreq	PATHMaxT_Req_01 }	

ASN.1 Type Constraint Declaration			
Constraint Name	: PATHConfigGrp_PmfReq		
Structured Type	: GroupAttribute		
Comments	:		
Constraint Value			
{	ParameterType	‘320A’H,	
	Parameter_Length	‘0000’H	}

ASN.1 Type Constraint Declaration			
Constraint Name	: PATHIndex_01		
Structured Type	: PATHIndex		
Derivation Path	: PATHIndex_Q		
Comments	:		
Constraint Value			
{	Parameter_Type	‘320B’H,	
	Parameter_Length	‘0008’H,	
	PAD	PAD_2,	
	pathindex	PATHINDEX_REF,	-- primary path index
	PAD	PAD_2,	
	indextype	PATHIndexType_01	}

ASN.1 Type Constraint Declaration			
Constraint Name	: PATHIndex_02		
Structured Type	: PATHIndex		
Derivation Path	: PATHIndex_01		
Comments	:		
Constraint Value			
REPLACE	pathindex	BY	SECONDARY_PATHINDEX,
REPLACE	indextype	BY	PATHIndexType_02 }

ASN.1 Type Constraint Declaration				
Constraint Name	: PATHIndex_PmfReq			
Structured Type	: PATHIndex			
Derivation Path	:			
Comments	:			
Constraint Value				
REPLACE	Parameter_Length	BY	‘0004’H,	
REPLACE	pathindex	BY	‘0000’H,	-- for all path indexes
OMIT	indextype			

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHRingLatency_Q
Structured Type	:	PATHRingLatency
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘320D’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	ringlatencytype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHTraceStatus_Q
Structured Type	:	PATHTraceStatus
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘320E’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	PAD	PAD_2,
	ringlatencytype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHSbaPayload_Q
Structured Type	:	PATHSbaPayload
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘320F’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	sbapayloadtype	? }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHSbaPayload_00
Structured Type	:	PATHSbaPayload
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘320F’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	sbapayloadtype	‘00000000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHSbaOverhead_Q
Structured Type	:	PATHSbaOverhead
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘3210’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	sbaoverheadtype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHConfiguration_Q
Structured Type	:	PATHConfiguration
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘3212’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	PAD	?,
	configurationtype	CMNPathConfig_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHT_Rmode_Q
Structured Type	:	PATHT_Rmode
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'3213'H,
	Parameter_Length	'0008'H,
	pathindex	PATHINDEX_REF
	trmodetype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHSbaAvailable_01
Structured Type	:	PATHSbaAvailable
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'3214'H,
	Parameter_Length	'0008'H,
	pathindex	PATHINDEX_REF
	PAD	PAD_2,
	sbaavailabletype	'0'..'12500000'I }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHTVXLowerBound_01
Structured Type	:	PATHTVXLowerBound
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'3215'H,
	Parameter_Length	'0008'H,
	pathindex	PATHINDEX_REF
	tvxlowerboundtype	CMNTwosComplementType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHT_MaxLowerBound_01
Structured Type	:	PATHT_MaxLowerBound
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘3216’H,
	Parameter_Length	‘0008’H,
	pathindex	PATHINDEX_REF
	tmaxlowerboundtype	CMNTwosComplementType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHMaxT_Req_01
Structured Type	:	PATHMaxT_Req
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘3217’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	maxtreqtype	CMNTwosComplementType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHVendorAttrib_01
Structured Type	:	PATHVendorAttrib
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘32FF’H,
	Parameter_Length	‘0008’H,
	PAD	PAD_2,
	pathindex	PATHINDEX_REF,
	PAD	PAD_1,
	vendormibtype	CMNVendorMIBType_Q}

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9.3.1.4 ASN.1 Type Constraint for PORT Attributes

9.3.1.4.1 PORT Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConfig_Grp_00
Structured Type	:	PORTConfig_Group
Comments	:	

Constraint Value		
{	mytype	PORTMy_Type_Q,
	neighbortype	PORTNeighborType_Q,
	connectionpolicies	PORTConnectionPolicies_Q,
	macindicated	PORTMACIndicated_Q,
	currentpath	PORTCurrentPath_Q,
	requestedpath	PORTRequestedPaths_Q,
	macplacement	PORTMACPlacement_Q,
	availablepath	PORTAvailablePaths_Q,
	macloopTime	PORTMACLoop_Time_Q, --optional
	pmdclass	PORTPMDClass_Q,
	connectioncapabilities	PORTConnectionCapabilities_Q,
	index	PORTIndex_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConfigGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	'400A'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMy_Type_Q
Structured Type	:	PORTMy_Type
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'400C'H,
	Parameter_Length	'0008'H,
	portIndex	PORTINDEX_REF,
	PAD	PAD_2,
	mytype	CMNPortType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTNeighbor_Type_Q
Structured Type	:	PORTNeighbor_Type
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘400D’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	neighbortype	CMNPortType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectionPolicies_Q
Structured Type	:	PORTConnectionPolicies
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘400E’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	connectionpoliciestype	PORTConnectionPoliciesType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMACIndicated_Q
Structured Type	:	PORTMACIndicated
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘400F’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_1,
	macindicatedtype	PORTMACIndicatedType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTCurrentPath_Q
Structured Type	:	PORTCurrentPath
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'4010'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	currentpathtype	CMNCurrentPathType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTRequestedPaths_Q
Structured Type	:	PORTRequestedPaths
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'4011'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	requestedpathstype	PORTRequestedPathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMACPlacement_Q
Structured Type	:	PORTMACPlacement
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'4012'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	macplacementtype	CMNResourceIdType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTAvailablePaths_Q
Structured Type	:	PORTAvailablePaths
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4013’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	availablepathstype	CMNAvailablePathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMACLoop_Time_Q
Structured Type	:	PORTMACLoop_Time
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4015’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	maclooptimetype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPMDClass_Q
Structured Type	:	PORTPMDClass
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4016’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	pmdclasstype	PORTPMDClassType_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name	: PORTConnectionCapabilities_Q		
Structured Type	: PORTConnectionCapabilities		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘4017’H,	
	Parameter_Length	‘0008’H,	
	portindex	PORTINDEX_REF,	
	PAD	PAD_2,	
	connectioncapabilitiestype	PORTConnectionPoliciesType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: PORTIndex_Q		
Structured Type	: PORTIndex		
Derivation Path	:		
Comments	:		
Constraint Value			
{	Parameter_Type	‘401D’H,	
	Parameter_Length	‘0008’H,	
	portindex	PORTINDEX_REF,	
	PAD	PAD_2,	
	portindextype	CMNResourceId_Q	}

9.3.1.4.2 PORT Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: PORTOperation_Grp_00		
Structured Type	: PORTOperation_Group		
Comments	:		
Constraint Value			
{	maintls	PORTMaint_LS_Q,	-- optional
	bsflag	PORTBS_Flag_Q,	
	pcls	PORTPC_LS_Q	-- optional when HP }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTOperationGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	
Constraint Value		
{ ParameterType Parameter_Length		‘401E’H, ‘0000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMaint_LS_Q
Structured Type	:	PORTMaint_LS
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type Parameter_Length portindex PAD maintlstype		‘401F’H, ‘0008’H, PORTINDEX_REF, PAD_2, PORTLineStateType_?? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTBS_Flag_Q
Structured Type	:	PORTBS_Flag
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type Parameter_Length portindex PAD bsflagtype		‘4021’H, ‘0008’H, PORTINDEX_REF, PAD_2, FALSE }

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ASN.1 Type Constraint Declaration		
Constraint Name	: PORTPC_LS_Q	
Structured Type	: PORTPC_LS	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘4022’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	pclstype	PORTLIneStateType_?? }

9.3.1.4.3 PORT Error Counters Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTErrorCtrs_Grp_00	
Structured Type	: PORTErrorCtrs_Group	
Comments	:	
Constraint Value		
{	eberrorct	PORTEBError_Ct_Q, -- optional when HP
	lctfailct	PORTLCTFail_Ct_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTErrorCtrsGrp_PmfReq	
Structured Type	: GroupAttribute	
Comments	:	
Constraint Value		
{	ParameterType	‘4028’H,
	Parameter_Length	‘0000’H }

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTEBError_Ct_Q	
Structured Type	: PORTEBError_Ct	
Derivation Path	:	
Comments	:	
Constraint Value		
{	Parameter_Type	‘4029’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	eberrorcttype	? }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLCTFail_Ct_Q
Structured Type	:	PORTLCTFail_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘402A’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	lctfailcttype	? }

9.3.1.4.4 PORT LER Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLer_Grp_00
Structured Type	:	PORTLer_Group
Comments	:	

Constraint Value		
{	lerestimate	PORTLer_Estimate_Q,
	lemrejectct	PORTLem_Reject_Ct_Q,
	lemct	PORTLem_Ct_Q,
	lercutoff	PORTLer_Cutoff_Q,
	leralarm	PORTLer_Alarm_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	‘4032’H,
	Parameter_Length	‘0000’H }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLer_Estimate_Q
Structured Type	:	PORTLer_Estimate
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4033’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_1,
	lerestimatetype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLem_Reject_Ct_Q
Structured Type	:	PORTLem_Reject_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4034’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	lemrejectcttype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLem_Ct_Q
Structured Type	:	PORTLem_Ct
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4035’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	lemcttype	? }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLer_Cutoff_Q
Structured Type	:	PORTLer_Cutoff
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'403A'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_1,
	lercutofftype	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLer_Alarm_Q
Structured Type	:	PORTLer_Alarm
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'403B'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_1,
	leralarmtype	? }

9.3.1.4.5 PORT Status Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTStatus_Grp_00
Structured Type	:	PORTStatus_Group
Comments	:	

Constraint Value		
{	connectionstate	PORTConnectState_01,
	pcmstate	PORTPCMState_01,
	pcwithhold	PORTPC_Withhold_01,
	lerflag	PORTLerFlag_01,
	hardwarepresent	PORTHardwarePresent_01 }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTStatusGrp_PmfReq
Structured Type	:	GroupAttribute
Comments	:	

Constraint Value		
{	ParameterType	'403C'H,
	Parameter_Length	'0000'H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectState_01
Structured Type	:	PORTConnectState
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'403D'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	connectstatetype	PORTConnectStateType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMState_01
Structured Type	:	PORTPCMState
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	'403E'H,
	Parameter_Length	'0008'H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	pcmstatetype	PCMState }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_Withhold_01
Structured Type	:	PORTPC_Withhold
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘403F’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	pcwithholdtype	PORTPC_WithholdType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerFlag_01
Structured Type	:	PORTLerFlag
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4040’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	lerflagtype	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTHardwarePresent_01
Structured Type	:	PORTHardwarePresent
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4041’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	presenttype	CMNPresent_01 }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTVendorAttrib_01
Structured Type	:	PORTVendorAttrib
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type		‘40FF’H,
Parameter_Length		‘0008’H,
portindex		PORTINDEX_REF,
PAD		PAD_2,
vendormibtype		CMNVendorMIBType_Q}

9.3.1.5 ASN.1 Type Constraint for SMT Actions and Notifications

9.3.1.5.1 Actions

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTAction_01
Structured Type	:	PORTAction
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type		‘4046’H,
Parameter_Length		‘0008’H,
portindex		PORTINDEX_REF,
PAD		PAD_2,
actioninfo		PORTActionType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTVendorAction_01
Structured Type	:	PORTVendorAction
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type		‘40FE’H,
Parameter_Length		‘0008’H,
portindex		PORTINDEX_REF,
PAD		PAD_2,
vendormibtype		CMNVendorMIBType_Q}

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9.3.1.5.2 Notifications

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHoldCondition_01
Structured Type	:	SMTHoldCondition
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	‘1047’H,
	Parameter_Length	?,
	PAD	PAD_2,
	holdconditiontype	SMTHoldConditionDataType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapCondition_01
Structured Type	:	SMTPeerWrapCondition
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	‘1048’H,
	Parameter_Length	?,
	PAD	PAD_2,
	conditionstate	FALSE
	peerwrapcondition	SMTCF_StateType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTVendorNotification_01
Structured Type	:	SMTVendorNotification
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	‘10FC’H,
	Parameter_Length	?,
	PAD	PAD_2,
	vendormibtype	CMNVendorMIBType_Q}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDuplicateAddressCondition_01
Structured Type	:	MACDuplicateAddressCondition
Derivation Path	:	
Comments	:	

Type Definition

```
{       Parameter_Type              '208C'H,
        Parameter_Length            ?,
        macindex                    MACINDEX_REF,
        PAD                         PAD_2,
        conditionstate              FALSE,
        duplicateaddresstype        DuplicateAddressType_Q      }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorCondition_01
Structured Type	:	MACFrameErrorCondition
Derivation Path	:	
Comments	:	

Type Definition

```
{       Parameter_Type              '208D'H,
        Parameter_Length            '0018'H,
        PAD                         PAD_2,
        macindex                    MACINDEX_REF,
        PAD                         PAD_3,
        conditionstate              FALSE,
        framect                     CMNCounter_Q,
        errorct                     CMNCounter_Q,
        lostct                      CMNCounter_Q,
        PAD                         PAD_2,
        frameerrorratio             FrameErrorRatioType_Q       }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedCondition_01
Structured Type	:	MACNotCopiedCondition
Derivation Path	:	
Comments	:	

Type Definition

```
{       Parameter_Type              '208E'H,
        Parameter_Length            ?,
        macindex                    MACINDEX_REF,
        PAD                         PAD_2,
        conditionstate              FALSE,
        notcopiedct                 CMNCounter_Q,
        copiedct                    CMNCounter_Q,
        notcpoiedratio              NotCopiedRatioType_Q        }
```

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNeighborChangeEvent_01
Structured Type	:	MACNeighborChangeEvent
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	'208F'H,
	Parameter_Length	?,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	multipleoccurrence	FALSE,
	neighborchangetype	NeighborChangeType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACPathChangeEvent_01
Structured Type	:	MACPathChangeEvent
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	'2090'H,
	Parameter_Length	?,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	pathchangedatatype	PathChangeDataType_01 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PathChangeDataType_Q
Structured Type	:	PathChangeDataType
Derivation Path	:	
Comments	:	

Type Definition		
{	multipleoccurrence	FLASE,
	pathchangetype	PathChangeType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PathChangeType_Q
Structured Type	:	PathChangeType
Derivation Path	:	
Comments	:	

Type Definition		
{	availablepaths	CMNAvailablePathsType_o?,
	currentpath	CMNCurrentPathType_o?,
	requestedpaths	CMNPermittedPathsType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACVendorNotification_01
Structured Type	:	MACVendorNotification
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	'20FC'H,
	Parameter_Length	?,
	macindex	MACINDEX_REF,
	PAD	PAD_2,
	vendornotification	CMNVendorMIBType_Q}

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHVendorNotification_01
Structured Type	:	PATHVendorNotification
Derivation Path	:	
Comments	:	

Type Definition		
{	Parameter_Type	'32FC'H,
	Parameter_Length	?,
	pathindex	PATHINDEX_REF,
	PAD	PAD_2,
	vendornotification	CMNVendorMIBType_Q}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerCondition_01
Structured Type	:	PORTLerCondition
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4050’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	conditionstate	FALSE,
	lertype	PORTLerType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerType_Q
Structured Type	:	PORTLerType
Derivation Path	:	
Comments	:	

Constraint Value		
{	lercutoff	LerExponentType_Q,
	leralarm	LerExponentType_Q,
	lerestimate	LerExponentType_Q,
	lerrecectct	CMNCounter_Q,
	lerct	CMNCounter_Q}

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTUndesiredConnectionAttemptEvent_01
Structured Type	:	PORTUndesiredConnectionAttemptEvent
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4051’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	multipleoccurrence	FALSE,
	undesiredconndectiontype	UndesiredConnectionType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	UndesiredConnectionType_Q
Structured Type	:	UndesiredConnectionType
Derivation Path	:	
Comments	:	

Constraint Value		
{	porttype	CMNPortType_Q,
	connectstate	PORTConnectStateType_Q,
	pcneighbor	CMNPortType_Q
	pcwithhold	PORTPC_Withhold_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTEBErrorCondition_01
Structured Type	:	PORTEBErrorCondition
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4052’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	conditionstate	FALSE,
	eberrorcount	CMNCounter_Q}

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPathChangeEvent_01
Structured Type	:	PORTPathChangeEvent
Derivation Path	:	
Comments	:	

Constraint Value		
{	Parameter_Type	‘4053’H,
	Parameter_Length	‘0008’H,
	portindex	PORTINDEX_REF,
	PAD	PAD_2,
	pathchangedatatype	PathChangeDataType_01, }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTVendorNotification_01
Structured Type	:	PORTVendorNotification
Derivation Path	:	
Comments	:	
Constraint Value		
{ Parameter_Type		‘40FC’H,
Parameter_Length		‘0008’H,
portindex		PORTINDEX_REF,
PAD		PAD_2,
vendormibtype		CMNVendorMIBType_Q}

9.3.1.6 ASN.1 Type Constraint for Definitions

Common Definitions

ASN.1 Type Constraint Declaration		
Constraint Name	:	CMNAvailablePathsType_Q
Structured Type	:	CMNAvailablePathsType
Derivation Path	:	
Comments	:	
Type Definition		
‘00000???’B		

ASN.1 Type Constraint Declaration		
Constraint Name	:	CMNAvailablePathsType_00
Structured Type	:	CMNAvailablePathsType
Derivation Path	:	
Comments	:	
Type Definition		
‘00000001’B		-- primary

ASN.1 Type Constraint Declaration		
Constraint Name	:	CMNAvailablePathsType_01
Structured Type	:	CMNAvailablePathsType
Derivation Path	:	
Comments	:	
Type Definition		
‘00000010’B		-- secondary

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNAvailablePathsType_02
Structured Type	: CMNAvailablePathsType
Derivation Path	:
Comments	:
Type Definition	
'00000100'B -- local	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCounter_Q
Structured Type	: CMNCounter
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_Q
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_00
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0000'I -- isolated	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_01
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0001'I -- local	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_02
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0002'I -- secondary	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_03
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0003'I -- primary	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_04
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0004'I -- concatenated	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNCurrentPathType_05
Structured Type	: CMNCurrentPathType
Derivation Path	:
Comments	:
Type Definition	
'0005'I -- thru	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNFlag_Q
Structured Type	: CMNFlag
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNFlag_00
Structured Type	: CMNFlag
Derivation Path	:
Comments	:
Type Definition	
'00000001'B -- false	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNFlag_01
Structured Type	: CMNFlag
Derivation Path	:
Comments	:
Type Definition	
'00000010'B -- true	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNLongAddressType_Q
Structured Type	: CMNLongAddressType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPermittedPathsType_Q
Structured Type	: CMNPermittedPathsType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_Q
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_00
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
'0000'I --A port	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_01
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
‘0001’I -- B port	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_02
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
‘0002’I -- S port	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_03
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
‘0003’I -- M port	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPortType_04
Structured Type	: CMNPortType
Derivation Path	:
Comments	:
Type Definition	
‘0004’I -- none	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPresent_Q
Structured Type	: CMNPresent
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPresent_00
Structured Type	: CMNPresent
Derivation Path	:
Comments	:
Type Definition	
'0000'I -- notpresent	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNPresent_01
Structured Type	: CMNPresent
Derivation Path	:
Comments	:
Type Definition	
'0001'I -- present	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNResourceId_Q
Structured Type	: CMNResourceId
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNResourceTagType_Q
Structured Type	: CMNResourceTagType
Derivation Path	:
Comments	:
Type Definition	
{resourcetype CMNResourceType_Q, resource_index CMNResourceId_Q, current_port CMNCurrentPathType_Q }	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNResourceType_Q
Structured Type	: CMNResourceType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNResourceType_02
Structured Type	: CMNResourceType
Derivation Path	:
Comments	:
Type Definition	
'0002'I -- mac	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CMNResourceType_04
Structured Type	: CMNResourceType
Derivation Path	:
Comments	:
Type Definition	
'0004'I -- port	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNTime_Q
Structured Type	: CMNTime
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: CMNTwosComplementType_Q
Structured Type	: CMNTwosComplementType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTimeStampType_Q
Structured Type	: SMTTimeStampType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	CMNVendorMIBType_Q
Structured Type	:	CMNVendorMIBType
Derivation Path	:	
Comments	:	

Type Definition		
{	manufactureroui	?,
	vendoroctet	?,
	specificdata	ANY }

SMT Definitions

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTActionInfoType_Q
Structured Type	:	SMTActionInfoType
Derivation Path	:	
Comments	:	

Type Definition
?

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTActionInfoType_00
Structured Type	:	SMTActionInfoType
Derivation Path	:	
Comments	:	

Type Definition	
'0000'l	-- connect

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTActionInfoType_01
Structured Type	:	SMTActionInfoType
Derivation Path	:	
Comments	:	

Type Definition	
'0001'l	-- disconnect

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_02
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
‘0002’I	-- path_test

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_03
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
‘0003’I	-- self_test

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_04
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
‘0004’I	-- disable_a

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_05
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
‘0005’I	disable_b

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_06
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
‘0006’I	-- disable_m

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTActionInfoType_07
Structured Type	: SMTActionInfoType
Derivation Path	:
Comments	:
Type Definition	
'0007'I	-- ec7

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTAvailablePathsType_Q
Structured Type	: CMNAvailablePathsType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTBypassPresentType_Q
Structured Type	: CMNFlag
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCapabilitiesType_Q
Structured Type	: SMTCapabilitiesType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCapabilitiesType_00
Structured Type	: SMTCapabilitiesType
Derivation Path	:
Comments	:
Type Definition	
'00000000000000?1'B	-- holdabailable

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCapabilitiesType_01
Structured Type	: SMTCapabilitiesType
Derivation Path	:
Comments	:
Type Definition	
'000000000000001?'B	-- cf_wrap_ab

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_Q
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_00
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
'0000'I	-- isolated

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_01
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0001’I	-- loacal_a

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_02
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0002’I	-- local_b

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_03
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0003’I	-- local_ab

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_04
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0004’I	-- local_s

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_05
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0005’I	--wrap_a

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_06
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0006’I	wrap_b

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_07
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0007’I	wrap_ab

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_08
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0008’I	-- wrap_s

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_09
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0009’I	-- c_wrap_b

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_10
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0010’I	-- c_wrap_b

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_11
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0011’I	-- c_wrap_s

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_StateType_12
Structured Type	: SMTCF_StateType
Derivation Path	:
Comments	:
Type Definition	
‘0012’I	-- thru

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigCapabilitiesType_Q
Structured Type	: SMTCapabilitiesType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigPolicyType_Q
Structured Type	: SMTConfigPolicyType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigPolicyType_00
Structured Type	: SMTConfigPolicyType
Derivation Path	:
Comments	:
Type Definition	
'0000000000000001'B	-- configuration hold

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_Q
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_00
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
‘????????????????1’B		-- rejectA_A

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_01
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
‘????????????????1?’B		-- rejectA_B

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_02
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
‘????????????????1??’B		-- rejectA_S

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_03
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'????????????1???'B	-- rejectA_M

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_04
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'????????????1????'B	-- rejectB_A

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_05
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'???????????1?????'B	-- rejectB_B

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_06
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'??????????1??????'B	-- rejectB_S

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_07
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
'????????1???????'B		-- rejectB_M

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_08
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
'???????1????????'B		-- rejectS_A

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_09
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
'??????1?????????'B		-- rejectS_B

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConnectionPolicyType_10
Structured Type	:	SMTConnectionPolicyType
Derivation Path	:	
Comments	:	
Constraint Value		
'??????1?????????'B		-- rejectS_S

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_11
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'????1???????????0'B	-- rejectS_M

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_12
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'???1????????????'B	-- rejectM_A

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_13
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'??1????????????'B	-- rejectM_B

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_14
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'?1????????????'B	-- rejectM_S

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConnectionPolicyType_15
Structured Type	: SMTConnectionPolicyType
Derivation Path	:
Comments	:
Constraint Value	
'1???????????????'B	-- rejectM_M

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_Q
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_00
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
'0000'I	-- Out

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_01
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
'0001'I	-- In

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_02
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- Trace

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_03
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- Leave

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_04
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0004’I	-- Path_Test

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_05
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0005’I	-- Insert

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_06
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0006’I	-- Check

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMStateType_07
Structured Type	: SMTECMStateType
Derivation Path	:
Comments	:
Constraint Value	
’0007’I	-- Deinsert

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHiVersionIdType_Q
Structured Type	: SMTHiVersionIdType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration		
Constraint Name	: SMTHoldConditionDataType_Q	
Structured Type	: SMTHoldConditionDataType	
Derivation Path	:	
Comments	:	
Type Definition		
{	conditionstate	CMNFlag_Q,
	holdcondition	SMTHoldStateType_Q }

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldStateType_Q
Structured Type	: SMTHoldStateType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldStateType_00
Structured Type	: SMTHoldStateType
Derivation Path	:
Comments	:
Type Definition	
'0000'I -- not holding	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldStateType_01
Structured Type	: SMTHoldStateType
Derivation Path	:
Comments	:
Type Definition	
'1'I -- holding on primary	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldStateType_02
Structured Type	: SMTHoldStateType
Derivation Path	:
Comments	:
Type Definition	
'2'I -- holding on secondary	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTLoVersionIdType_Q
Structured Type	: SMTLoVersionIdType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTMac_CtType_Q
Structured Type	: SMTMac_CtType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration		
Constraint Name	: SMTManufacturerDataType_Q	
Structured Type	: SMTManufacturerDataType	
Derivation Path	:	
Comments	:	
Type Definition		
{	manufactureroui	OUI_REF,
	manufacturerdata	ANY }

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTMaster_CtType_Q
Structured Type	: SMTMaster_CtType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTMIBVersionIdType_Q
Structured Type	: SMTMIBVersionIdType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTNonMaster_CtType_Q
Structured Type	: SMTNonMaster_CtType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTOpVersionIdType_Q
Structured Type	: SMTOpVersionIdType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTPeerWrapConditionDataType_Q
Structured Type	: SMTPeerWrapConditionDataType
Derivation Path	:
Comments	:
Type Definition	
{ conditionstate CMNFlag_Q, peerwrapcondition SMTCF_StateType_Q }	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTPeerWrapConditionType_Q
Structured Type	: SMTPeerWrapConditionType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTPeerWrapFlagType_Q
Structured Type	: SMTPeerWrapFlagType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTRemoteDisconnectFlagType_Q
Structured Type	: SMTRemoteDisconnectFlagType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTSetCountType_Q		
Structured Type	: SMTSetCountType		
Derivation Path	:		
Comments	:		
Type Definition			
{	count	CMNCounter_Q,	
	settimestamp	CMNTimeStampType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTStationIdentifierType_Q		
Structured Type	: SMTStationIdentifierType		
Derivation Path	:		
Comments	:		
Type Definition			
{	implementeroctet	IMPLEMENT_OCTET,	
	longaddress	CMNLongAddressType_Q	}

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatusType_Q
Structured Type	: SMTStatusType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatusType_00
Structured Type	: SMTStatusType
Derivation Path	:
Comments	:
Constraint Value	
'0000'I	-- concatenated

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatusType_01
Structured Type	: SMTStatusType
Derivation Path	:
Comments	:
Constraint Value	
'0001'I	-- separated

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatusType_02
Structured Type	: SMTStatusType
Derivation Path	:
Comments	:
Constraint Value	
'0002'I-- thru	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatRptPolicyType_Q
Structured Type	: SMTStatRptPolicyType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTT_NotifyType_Q
Structured Type	: SMTStatusType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTimeStampType_Q
Structured Type	: SMTTimeStampType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTrace_MaxExpirationType_Q
Structured Type	: SMTTrace_MaxExpirationType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTransitionTimeStampType_Q
Structured Type	: SMTTransitionTimeStampType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTUserDataType_Q
Structured Type	: SMTUserDataType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTVersionType_Q
Structured Type	: SMTVersionType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACAvailablePathsType_Q
Structured Type	: MACAvailablePathsType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACBridgeType_Q
Structured Type	: MACBridgeType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACBridgeType_00
Structured Type	: MACBridgeType
Derivation Path	:
Comments	:
Constraint Value	
'0000000000000001'B	-- Transparent Bridging Active

ASN.1 Type Constraint Declaration	
Constraint Name	: MACBridgeType_01
Structured Type	: MACBridgeType
Derivation Path	:
Comments	:
Constraint Value	
'0000000000000010'B	-- Source Routing Active

ASN.1 Type Constraint Declaration	
Constraint Name	: MACBridgeType_02
Structured Type	: MACBridgeType
Derivation Path	:
Comments	:
Constraint Value	
'0000000000000100'B	-- Source Routing Transparent Active}

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACCopied_CtType_Q
Structured Type	: MACCopied_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACCurrentPathType_Q
Structured Type	: MACCurrentPathType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDA_FlagType_Q
Structured Type	: MACDA_FlagType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDownstreamNbrType_Q
Structured Type	: MACDownstreamNbrType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACDownstreamPORTType_Q
Structured Type	: MACDownstreamPORTType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDupAddressTest_Q
Structured Type	: MACDupAddressTestType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration		
Constraint Name	: MACDupAddressTest_00	
Structured Type	: MACDupAddressTestType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	‘0000’I	none

ASN.1 Type Constraint Declaration		
Constraint Name	: MACDupAddressTest_01	
Structured Type	: MACDupAddressTestType	
Derivation Path	:	
Comments	:	
Constraint Value		
	‘0001’I	-- pass

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACDupAddressTest_02
Structured Type	: MACDupAddressTestType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- fail

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDupConditionType_Q
Structured Type	: MACDupConditionType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDupConditionType_00
Structured Type	: MACDupConditionType
Derivation Path	:
Comments	:
Type Definition	
‘0000000000000001’B	-- DA Flag (my dup)

ASN.1 Type Constraint Declaration	
Constraint Name	: MACDupConditionType_01
Structured Type	: MACDupConditionType
Derivation Path	:
Comments	:
Type Definition	
‘0000000000000010’B	-- UNDA Flag (una dup)

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDuplicateAddressDataType_Q
Structured Type	:	MACDuplicateAddressDataType
Derivation Path	:	
Comments	:	

Constraint Value		
{	conditionstate	CMNFlag_Q,
	duplicateaddresstype	MACDuplicateAddressType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDuplicateAddressType_Q
Structured Type	:	MACDuplicateAddressType
Derivation Path	:	
Comments	:	

Type Definition		
{	dupcondition	MACDupConditionType_Q,
	fddilong	CMNLongAddressType_Q,
	fddiunalong	CMNLongAddressType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACError_CtType_Q
Structured Type	:	MACError_CTType
Derivation Path	:	
Comments	:	

Constraint Value
?

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrame_CtType_Q
Structured Type	:	MACFrame_CtType
Derivation Path	:	
Comments	:	

Constraint Value
?

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorDataType_Q
Structured Type	:	MACFrameErrorDataType
Derivation Path	:	
Comments	:	

Type Definition		
{	conditionstate	CMNFlag_Q,
	framect	CMNCounter_Q,
	errorct	CMNCounter_Q,
	lostct	CMNCounger_Q,
	frameerrorratio	MACFrameErrorRatioType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorRatioType_Q
Structured Type	:	MACFrameErrorRatioType
Derivation Path	:	
Comments	:	

Constraint Value
?

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorThresholdType_Q
Structured Type	:	MACFrameErrorThresholdType
Derivation Path	:	
Comments	:	

Constraint Value
?

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFS_Functions_Q
Structured Type	:	MACFS_Functions
Derivation Path	:	
Comments	:	

Constraint Value
?

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACFS_Functions_00
Structured Type	: MACFS_Functions
Derivation Path	:
Comments	:
Constraint Value	
‘0000000000000001’B	-- fs-repeating

ASN.1 Type Constraint Declaration	
Constraint Name	: MACFS_Functions_01
Structured Type	: MACFS_Functions
Derivation Path	:
Comments	:
Constraint Value	
‘0000000000000010’B	-- fs-setting

ASN.1 Type Constraint Declaration	
Constraint Name	: MACFS_Functions_02
Structured Type	: MACFS_Functions
Derivation Path	:
Comments	:
Constraint Value	
‘0000000000000100’B	-- fs-clearing

ASN.1 Type Constraint Declaration	
Constraint Name	: MACHWPresentType_Q
Structured Type	: MACHWPresentType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACLate_CtType_Q
Structured Type	: MACLate_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACLost_CtType_Q
Structured Type	: MACLost_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACUnitdataAvailableType_Q
Structured Type	: MACUnitdataAvailableType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACMAUnitdataEnableType_Q
Structured Type	: MACMAUnitdataEnableType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNAConditionType_Q
Structured Type	: MACNAConditionType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACNAConditionType_00
Structured Type	: MACNAConditionType
Derivation Path	:
Comments	:
Type Definition	
‘00000001’B	-- una change

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNAConditionType_01
Structured Type	: MACNAConditionType
Derivation Path	:
Comments	:
Type Definition	
‘00000010’B	-- dna change

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNAConditionType_02
Structured Type	: MACNAConditionType
Derivation Path	:
Comments	:
Type Definition	
‘00000011’B	-- una and dna change

ASN.1 Type Constraint Declaration		
Constraint Name	: MACNeighborChangeDataType_Q	
Structured Type	: MACNeighborChangeDataType	
Derivation Path	:	
Comments	:	
Type Definition		
{	multipleoccurrence	CMNFlag_Q,
	neighborchangetype	MACNeighborChangeType_Q }

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACNeighborChangeType_Q
Structured Type	: MACNeighborChangeType
Derivation Path	:
Comments	:

Type Definition

```
{       nacondition             MACNAConditionType_Q,
        olduna                  CMNLongAddressType_Q,
        newuna                  CMNLongAddressType_Q,
        olddna                  CMNLongAddressType_Q,
        newdna                  CMNLongAddressType_Q,
        currentpath             CMNCurrentPathType_Q,
        smtaddress              CMNLongAddressType_Q    }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNotCopied_CtType_Q
Structured Type	: MACNotCopied_CtType
Derivation Path	:
Comments	:

Constraint Value

```
        ?
```

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNotCopiedFlagType_Q
Structured Type	: MACNotCopiedFlagType
Derivation Path	:
Comments	:

Constraint Value

```
        ?
```

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNotCopiedDataType_Q
Structured Type	: MACNotCopiedDataType
Derivation Path	:
Comments	:

Type Definition

```
{       conditionstate          CMNFlag_Q,
        notcopiedct             CMNCounter_Q,
        copiedct                CMNCounter_Q,
        notcopiedratio          MACNotCopiedRatioType_Q    }
```

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACNotCopiedRatioType_Q
Structured Type	: MACNotCopiedRatioType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACNotCopiedThresholdType_Q
Structured Type	: MACNotCopiedThresholdType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration			
Constraint Name	: MACPathChangeDataType_Q		
Structured Type	: MACPathChangeDataType		
Derivation Path	:		
Comments	:		
Constraint Value			
{	multipleoccurrence	CMNFlag_Q,	
	pathchangetype	MACPathChangeType_Q	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACPathChangeType_Q		
Structured Type	: MACPathChangeType		
Derivation Path	:		
Comments	:		
Constraint Value			
{	availablepath	CMNAvailablePathsType_Q,	
	currentpath	CMNCurrentPathType_Q,	
	requestedpath	MACRequestedPathsType_Q	}

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACRequestedPathsType_Q
Structured Type	: MACRequestedPathsType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRingOp_CtType_Q
Structured Type	: MACRingOp_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_Q
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_00
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
'0000'I	-- Isolated

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_01
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0001’I	-- Non_Op

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_02
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- Ring_Op

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_03
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- Detect

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_04
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0004’I	-- Non_Op_Dup

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_05
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
'5'I	-- Ring_Op_Dup

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_06
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
'0006'I	-- Directed

ASN.1 Type Constraint Declaration	
Constraint Name	: MACRMTStateType_07
Structured Type	: MACRMTStateType
Derivation Path	:
Comments	:
Constraint Value	
'0007'I	-- Trace

ASN.1 Type Constraint Declaration	
Constraint Name	: MACShortAddressType_Q
Structured Type	: MACShortAddressType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACSMTAddressType_Q
Structured Type	: MACSMTAddressType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_MaxCapabilityType_Q
Structured Type	: MACT_MaxCapabilityType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri0Type_Q
Structured Type	: MACT_Pri0Type
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri1Type_Q
Structured Type	: MACT_Pri1Type
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri2Type_Q
Structured Type	: MACT_Pri2Type
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri3Type_Q
Structured Type	: MACT_Pri3Type
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri4Type_Q
Structured Type	: MACT_Pri4Type
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri5Type_Q
Structured Type	: MACT_Pri5Type
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACT_Pri6Type_Q
Structured Type	: MACT_Pri6Type
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACTMaxType_Q
Structured Type	: MACTMaxType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACTNegType_Q
Structured Type	: CMNTNegType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACToken_CtType_Q
Structured Type	: MACToken_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACTransmit_CtType_Q
Structured Type	: MACTransmit_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACTReqType_Q
Structured Type	: MACTReqType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACTVXCapabilityType_Q
Structured Type	: MACTVXCapabilityType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACExpired_CtType_Q
Structured Type	: MACExpired_CtType
Derivation Path	:
Comments	:
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: MACTvxValueType_Q
Structured Type	: MACTvxValueType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACUNDA_FlagType_Q
Structured Type	: MACUNDA_FlagType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: MACUpstreamNbrType_Q
Structured Type	: MACUpstreamNbrType
Derivation Path	:
Comments	:
Constraint Value	
?	

PATH Definitions

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHIndexType_Q
Structured Type	: PATHIndexType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: PATHIndexType_01
Structured Type	: PATHIndexType
Derivation Path	:
Comments	:
Type Definition	
'1'I -- primary	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHIndexType_02
Structured Type	: PATHIndexType
Derivation Path	:
Comments	:
Type Definition	
'2'I -- secondary	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHMaxT_ReqType_Q
Structured Type	: PATHMaxT_ReqType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHRingLatencyType_Q
Structured Type	: PATHRingLatencyType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: PATHSbaAvailableType_Q
Structured Type	: PATHSbaAvailableType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHSbaPayloadType_Q
Structured Type	: PATHSbaPayloadType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHSbaOverheadType_Q
Structured Type	: PATHSbaOverheadType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHT_MaxLowerBoundType_Q
Structured Type	: PATHT_MaxLowerBoundType
Derivation Path	:
Comments	:
Type Definition	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: PATHT_RmodeType_Q
Structured Type	: PATHT_RmodeType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTraceStatusType_Q
Structured Type	: PATHTraceStatusType
Derivation Path	:
Comments	:
Type Definition	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTraceStatusType_00
Structured Type	: PATHTraceStatusType
Derivation Path	:
Comments	:
Type Definition	
'0000000000000001'B	-- trace initiated

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTraceStatusType_01
Structured Type	: PATHTraceStatusType
Derivation Path	:
Comments	:
Type Definition	
'000000000000001?'B	-- trace propagated

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTraceStatusType_02
Structured Type	: PATHTraceStatusType
Derivation Path	:
Comments	:
Type Definition	
'00000000000001??'B	-- trace terminated

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ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTraceStatusType_03
Structured Type	: PATHTraceStatusType
Derivation Path	:
Comments	:
Type Definition	
'0000000000001???'B	-- trace timeout

ASN.1 Type Constraint Declaration	
Constraint Name	: PATHTVXLowerBoundType_Q
Structured Type	: PATHTVXLowerBoundType
Derivation Path	:
Comments	:
Type Definition	
?	

PORT Definitions

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_Q
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_00
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
'0000'I	-- signal PC_Maint

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_01
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
'0001'I	-- signal PC_Enable

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_02
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- signal PC_Disable

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_03
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- signal PC_Start

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTActionType_04
Structured Type	: PORTActionType
Derivation Path	:
Comments	:
Constraint Value	
‘0004’I	-- signal PC_Stop

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectionPoliciesType_Q
Structured Type	: PORTConnectPoliciesType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectionPoliciesType_00
Structured Type	: PORTConnectPoliciesType
Derivation Path	:
Comments	:
Constraint Value	
‘00000001’B	-- pc-mac-lct

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectionPoliciesType_01
Structured Type	: PORTConnectPoliciesType
Derivation Path	:
Comments	:
Constraint Value	
‘00000010’B	-- pc-mac-loop

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectStateType_Q
Structured Type	: PORTConnectStateType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectStateType_00
Structured Type	: PORTConnectStateType
Derivation Path	:
Comments	:
Constraint Value	
’0000’I	-- disabled

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectStateType_01
Structured Type	: PORTConnectStateType
Derivation Path	:
Comments	:
Constraint Value	
’0001’I	-- connecting

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectStateType_02
Structured Type	: PORTConnectStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- standby

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTConnectStateType_03
Structured Type	: PORTConnectStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- active

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTEBErrorDataType_Q	
Structured Type	: PORTEBErrorDataType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	conditionstate eberrorcount	CMNFlag_Q, CMNCounter_Q}

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTLerDataType_Q	
Structured Type	: PORTLerDataType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	conditionstate lertype	CMNFlag_Q, PORTLerType_Q }

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLerExponentType_Q
Structured Type	: PORTLerExponentType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTLerType_Q	
Structured Type	: PORTLerType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	lercutoff	PORTLerExponentType_Q,
	leralarm	PORTLerExponentType_Q,
	lerestimate	PORTLerExponentType_Q,
	lerrejectype	CMNCounter_Q,
	lerct	CMNCounter_Q}

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_Q
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_00
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
'0000'l	-- quiet

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_01
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
'0001'I	-- idle

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_02
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
'0002'I	-- master

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_03
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
'0003'I	-- halt

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_04
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
'0004'I	-- receive = active, transmit-PDR

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_05
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0005’I	-- receive = unknown

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTLineStateType_06
Structured Type	: PORTLineStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0006’I	-- receive = noise

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTMACIndicatedType_Q
Structured Type	: PORTMACIndicatedType
Derivation Path	:
Comments	:
Constraint Value	
{ tval9 CMNFlag_Q, rval9 CMNFlag_Q }	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPathChangeDataType_Q
Structured Type	: PORTPathChangeDataType
Derivation Path	:
Comments	:
Constraint Value	
{ multipleoccurrence CMNFlag_Q, pathchangetype PORTPathChangeType_Q }	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPathChangeType_Q
Structured Type	:	PORTPathChangeType
Derivation Path	:	
Comments	:	

Constraint Value		
{	availablepaths	CMNAvailablePathsType_Q,
	currentpath	CMNCurrentPathType_Q,
	requestedpaths	PORTRequestedPathsType_Q,
	mytype	CMNPortType_Q,
	neighbortype	CMNPortType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMStateType_Q
Structured Type	:	PORTPCMStateType
Derivation Path	:	
Comments	:	

Constraint Value
?

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMStateType_00
Structured Type	:	PORTPCMStateType
Derivation Path	:	
Comments	:	

Constraint Value	
'0000'I	-- Break

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMStateType_01
Structured Type	:	PORTPCMStateType
Derivation Path	:	
Comments	:	

Constraint Value	
'0001'I	-- Break

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_02
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- Trace

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_03
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- Connect

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_04
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0004’I	-- Next

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_05
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0005’I	-- Signal

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_06
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0006’I	-- Join

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_07
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘007’I	-- Verify

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_08
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0008’I	-- Active

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPCMStateType_09
Structured Type	: PORTPCMStateType
Derivation Path	:
Comments	:
Constraint Value	
‘0009’I	-- Maint

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPC_WithholdType_Q
Structured Type	: PORTPC_WithholdType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPC_WithholdType_00
Structured Type	: PORTPC_WithholdType
Derivation Path	:
Comments	:
Constraint Value	
'0000'I	-- none

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPC_WithholdType_01
Structured Type	: PORTPC_WithholdType
Derivation Path	:
Comments	:
Constraint Value	
'0001'I	-- m-m

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPC_WithholdType_02
Structured Type	: PORTPC_WithholdType
Derivation Path	:
Comments	:
Constraint Value	
'0002'I	-- otherincompatible

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPC_WithholdType_03
Structured Type	: PORTPC_WithholdType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- pathnotavailable

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_Q
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_00
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0000’I	-- multimode

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_01
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0001’I	-- single mode1

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_02
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0002’I	-- single mode2

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_03
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0003’I	-- sonet

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_04
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0004’I	-- low cost fiber

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_05
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0005’I	-- twisted-pair

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_06
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0006’I	-- unknown

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTPMDClassType_07
Structured Type	: PORTPMDClassType
Derivation Path	:
Comments	:
Constraint Value	
‘0007’I	-- unspecified

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTRequestedPathsType_Q	
Structured Type	: PORTRequestedPathsType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	none	CMNPermittedPaths_Q,
	tree	CMNPermittedPaths_Q,
	peer	CMNPermittedPaths_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	: PORTUndesiredConnectionDataType_Q	
Structured Type	: PORTUndesiredConnectionDataType	
Derivation Path	:	
Comments	:	
Constraint Value		
{	multipleoccurrence	CMNFlag_Q,
	undesiredconnectiontype	PORTUndesiredConnectionType_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTUndesiredConnectionType_Q
Structured Type	:	PORTUndesiredConnectionType
Derivation Path	:	
Comments	:	

Constraint Value		
{	porttype	CMNPortType_Q,
	connectstate	PORTConnectStateType_Q.
	pcneighbor	CMNPortType_Q
	pcwithhold	PORTPC_WithholdType_Q }

9.3.1.7 ASN.1 Type Constraint for SMT InfoField

9.3.1.7.1 NIF Info Field Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	NIF_TST_DATA
Structured Type	:	NIF_Info
Derivation Path	:	
Comments	:	General form of NIF Info Field Parameters

Constraint Value		
{	UNA	UNA_UNKNOWN,
	SD	StationDescriptor_01,
	SS	StationState_01,
	MAC_FS	MACFrameStatusFunctions_01 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	NIF_TST_DATA01
Structured Type	:	NIF_Info
Derivation Path	:	NIF_TST_DATA
Comments	:	

Constraint Value			
REPLACE	UNA	BY	UNA_TESTER,
REPLACE	SD	BY	StationDescriptor_Q,
REPLACE	SS	BY	StationState_Q,
REPLACE	MAC_FS	BY	MACFrameStatusFunctions_01

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ASN.1 Type Constraint Declaration			
Constraint Name : NIF_TST_DATA02 **Structured Type** : NIF_Info **Derivation Path** : NIF_TST_DATA01 **Comments** :			
Constraint Value			
REPLACE	UNA	BY	UNA_UNKNOWN

ASN.1 Type Constraint Declaration			
Constraint Name : NIF_TST_DATA03 **Structured Type** : NIF_Info **Derivation Path** : NIF_TST_DATA01 **Comments** :			
Constraint Value			
REPLACE	UNA	BY	UNA_IUT

ASN.1 Type Constraint Declaration			
Constraint Name : NIF_TST_DATA04 **Structured Type** : NIF_Info **Derivation Path** : NIF_TST_DATA01 **Comments** :			
Constraint Value			
REPLACE	UNA	BY	UNA_TESTER2

9.3.1.7.2 SIF Info Field Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name : SIF_CONF_DATA **Structured Type** : SIFConf_Res **Derivation Path** : **Comments** :		
Constraint Value		
{	msgtimestamp	MsgTimeStamp_Q,
	stationdescriptor	StationDescriptor_Q,
	smtsupportedversions	SMTSupportedVersions_73,
	stationstatus	StationStatus_Q,
	stationpolicies	StationPolicies_Q,
	pathlatency	PathLatency_02,
	macneighbors	MACNeighbors_Q,
	pathdescriptor	PathDescriptor_Q,
	smtsetcount	SMTSetCount_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SIFOper_DATA
Structured Type	:	SIFOper_Res
Derivation Path	:	
Comments	:	

Constraint Value		
{	msgtimestamp	MsgTimeStamp_Q,
	macstatus	MACStatus_Q,
	portlemstatus	PortLEMStatus_Q,
	macframecount	MACFrameCount_Q,
	macframenotcount	MACFrameNotCount_Q,
	macpriorityvalues	MACPriorityValue_Q,
	portebstatus	PortEBStatus_Q,
	manufacturerfield	ManufacturerField_Q,
	userfield	UserField_Q,
	smtsetcount	SMTSetCount_Q }

9.3.1.7.3 NO ECHO InfoField Type Constraint is defined!!

9.3.1.7.4 RAF InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	RequestAllocation_00
Structured Type	:	SBARequest_Info
Derivation Path	:	
Comments	:	

Constraint Value		
{	pathtype	PATHIndex_01,
	sbapayload	SBAPayloadRequest_Q,
	sbaoverhead	SBAOverheadRequest_Q,
	currentsbapayload	PATHSbaPayload_Q,
	currentsbaoverhead	PATHSbaOverhead_Q,
	allocationaddress	SBAAllocationAddress_TESTER,
	catagory	SBACatagory_Q,
	maxtneg	MaximumT_Neg_Q,
	minsbasegment	MinimumSBASegment_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	RequestResponse_Q
Structured Type	:	SBARequest_Response
Derivation Path	:	
Comments	:	Allocation is successfully granted

Constraint Value		
{	reasoncode	ReasonCode_03,
	pathtype	PATHIndex_Q,
	currentsbapayload	PATHSbaPayload_Q,
	currentsbaoverhead	PATHSbaOverhead_Q,
	allocationaddress	SBAAllocationAddress_Q,
	catagory	SBACatagory_Q,
	sbaallocatable	SBAAllocatable_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	RequestResponse_00
Structured Type	:	SBARequest_Response
Derivation Path	:	
Comments	:	NULL SBA bandwidth

Constraint Value		
{	reasoncode	ReasonCode_0D,
	pathtype	PATHIndex_01,
	currentsbapayload	PATHSbaPayload_MAX,
	currentsbaoverhead	PATHSbaOverhead_MAX,
	allocationaddress	SBAAllocationAddress_IUT,
	catagory	SBACatagory_Q,
	sbaallocatable	SBAAllocatable_00 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	RequestResponse_01
Structured Type	:	SBARequest_Response
Derivation Path	:	
Comments	:	Allocation is denied for some reasons

Constraint Value		
{	reasoncode	ReasonCode_Q,
	pathtype	PATHIndex_Q,
	currentsbapayload	PATHSbaPayload_Q,
	currentsbaoverhead	PATHSbaOverhead_00,
	allocationaddress	SBAAllocationAddress_Q,
	catagory	SBACatagory_Q,
	sbaallocatable	SBAAllocatable_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	ReportResponse_Q
Structured Type	:	SBAReport_Response
Derivation Path	:	
Comments	:	

Constraint Value		
{	pathtype	PATHIndex_Q,
	currentsbapayload	PATHSbaPayload_Q,
	currentsbaoverhead	PATHSbaOverhead_Q,
	pathtype	PATHIndex_Q,
	currentsbapayload	PATHSbaPayload_Q,
	currentsbaoverhead	PATHSbaOverhead_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	ChangeRequest_Q
Structured Type	:	SBAChange_Info
Derivation Path	:	
Comments	:	

Constraint Value		
{	pathtype	PATHIndex,
	newsbapayload	PATHSbaPayload_Q,
	newsbaoverhead	PATHSbaOverhead_Q,
	catagory	SBACatagory_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	ChangeResponse_Q
Structured Type	:	SBAChange_Response
Derivation Path	:	
Comments	:	

Constraint Value		
{	pathtype	PATHIndex_Q,
	currentsbapayload	PATHSbaPayloadRequest_Q,
	currentsbaoverhead	PATHSbaOverheadPequest_Q,
	catagory	SBACatagory_Q }

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9.3.1.7.5 RDF InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	RDF_IUT_DATA
Structured Type	:	RDF_Info
Derivation Path	:	
Comments	:	General form of RDF
Constraint Value		
{ ReasonCode SMTSupportedVersion RejectedFrameBeginning		ReasonCode_01, SMTSupportedVersions_G1, RejectedFrame_G1 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	RDF_IUT_DATA01
Structured Type	:	RDF_Info
Derivation Path	:	RDF_IUT_DATA
Comments	:	Reason Code is 'frame class not supported.'
Constraint Value		
OMIT	RejectedFrameBeginning	

ASN.1 Type Constraint Declaration			
Constraint Name	:	RDF_IUT_DATA02	
Structured Type	:	RDF_Info	
Derivation Path	:	RDF_IUT_DATA01	
Comments	:	Reason code is 'frame version not supported.'	
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_02

ASN.1 Type Constraint Declaration			
Constraint Name	:	RDF_IUT_DATA03	
Structured Type	:	RDF_Info	
Derivation Path	:	RDF_IUT_DATA01	
Comments	:	Reason code is 'success.'	
Constraint Value			
REPLACE OMIT	ReasonCode SMTSupportedVersion	BY	ReasonCode_03

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ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA04		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is ‘bad set count.’		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_04

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA05		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is ‘illegal operation.’		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_05

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA06		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is ‘no parameter.’		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_06

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA08		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is ‘out of range.’		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_08

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA09		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is ‘not authorized.’		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_09

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ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA0A		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is 'length error.'		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_0A

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA0B		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is 'frame too long.'		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_0B

ASN.1 Type Constraint Declaration			
Constraint Name	: RDF_IUT_DATA0D		
Structured Type	: RDF_Info		
Derivation Path	: RDF_IUT_DATA01		
Comments	: Reason code is 'sba denied.'		
Constraint Value			
REPLACE	ReasonCode	BY	ReasonCode_0D

9.3.1.7.6 ESF InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	: ESF_DATA	
Structured Type	: ESF_Info	
Derivation Path	:	
Comments	:	
Constraint Value		
{ ESF_ID	ESFID_Q,	
OTHER	OTHER_Q }	

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9.3.1.7.7 SRF InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	SRF_DATA
Structured Type	:	SRF_Info
Derivation Path	:	
Comments	:	

Constraint Value		
{	TimeStamp	SMTTimeStamp_Q,
	Transition_TimeStamp	SMTTransitionTimeStamp_Q,
	EventCondition	TBD }

9.3.1.7.8 PMF InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	PMFGet_Response_BASE
Structured Type	:	PMFGetResponse_INFO
Derivation Path	:	
Comments	:	

Constraint Value		
{	reasoncode	ReasonCode_Q,
	timestamp	SMTTimeStamp_Q,
	setcount	SMTSetCount_Q,
	lastsetstationid	SMTLastSetStationID_Q,
	getresponseinfo?	

ASN.1 Type Constraint Declaration		
Constraint Name	:	PMF_IUT_Get_Res_01
Structured Type	:	PMFGetResponse_INFO
Derivation Path	:	PMFGet_Response_BASE
Comments	:	fddiSMTStationId

Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	SMTStationId_01

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ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_02		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	: fddiSMTOpVersionId		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	SMTOpVersionId_01

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_03		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	SMTHiVersionId_01

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_04		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	getresponseinfo	BY	SMTLoVersionId_01

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_05		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	MACDownstreamNbr_01

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ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_06		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	MACOldDownstreamNbr_01

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_08.5		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	ValidMultiple_Pmf_00

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_09.5		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	ValidMultipleGrp_Pmf_00

ASN.1 Type Constraint Declaration			
Constraint Name	: PMF_IUT_Get_Res_0A.5		
Structured Type	: PMFGetResponse_INFO		
Derivation Path	: PMFGet_Response_BASE		
Comments	:		
Constraint Value			
REPLACE	reasoncode	BY	ReasonCode_03,
REPLACE	getresponseinfo	BY	InvalidMultipleGrp_Pmf_00

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PMFSetRequest_Q
Structured Type	:	PMFSetRequest_INFO
Derivation Path	:	
Comments	:	
Constraint Value		
{ authorization setcount setrequestinfo		Authorization_Q, SMTSetCount_Q, ? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PMFSetResponse_Q
Structured Type	:	PMFSetResponse_INFO
Derivation Path	:	
Comments	:	
Constraint Value		

9.3.1.7.9 ERROR InfoField Type Constraint Declaration

ASN.1 Type Constraint Declaration		
Constraint Name	:	
Structured Type	:	
Derivation Path	:	
Comments	:	
Constraint Value		

ASN.1 Type Constraint Declaration		
Constraint Name	:	
Structured Type	:	
Derivation Path	:	
Comments	:	
Constraint Value		

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9.3.2 ASN.1 PDU Constraint Declarations

9.3.2.1 NIF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	NIF_TST_Req
PDU Type	:	NIF_Frame
Derivation Path	:	
Comments	:	General NIF Request Frame for tester.

Constraint Value		
{	SD	JK,
	FC	?
	DA	IUT_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	'01'H,
	Frame_Type	'02'H,
	Version_ID	'0001'H,
	Transaction_ID	'00000010'H,
	Station_ID1	'0000'H,
	Station_ID2	TESTER_ADDRESS,
	PAD	'0000'H,
	InfoField_Length	'0028'H,
	Info	NIF_TST_DATA,
	FCS	?
	ED	T
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

ASN.1 PDU Constraint Declaration		
Constraint Name	:	NIF_TST_Req_01
PDU Type	:	NIF_Frame
Derivation Path	:	NIF_TST_Req
Comments	:	Valid NIF Request Frame

Constraint Value			
REPLACE	FC	BY	'4F'H

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ASN.1 PDU Constraint Declaration				
Constraint Name	: NIF_TST_Req_02			
PDU Type	: NIF_Frame			
Derivation Path	: NIF_TST_Req_01			
Comments	: Invalid Frame Class			
Constraint Value				
REPLACE	Frame_Class	BY	‘10’H,	-- invalid frame class
REPLACE	Transaction_ID	BY	‘00000011’H	

ASN.1 PDU Constraint Declaration				
Constraint Name	: NIF_TST_Req_03			
PDU Type	: NIF_Frame			
Derivation Path	: NIF_TST_Req			
Comments	: To see if the IUT can respond to a NIF Request frame with FC= ‘41’H.			
Constraint Value				
REPLACE	FC	BY	‘41’H,	
REPLACE	Transaction_ID	BY	‘00000012’H	

ASN.1 PDU Constraint Declaration				
Constraint Name	: InvalidVersion_01			
PDU Type	: ERROR_Frame			
Derivation Path	: NIF_TST_Req_01			
Comments	: Invalid Version_ID.			
Constraint Value				
REPLACE	Version_ID	BY	‘0002’H,	
REPLACE	Transaction_ID	BY	‘00000013’H	

ASN.1 PDU Constraint Declaration				
Constraint Name	: NIF_TST_Req_05			
PDU Type	: NIF_Frame			
Derivation Path	: NIF_TST_Req_01			
Comments	: Invalid Version_ID.			
Constraint Value				
REPLACE	Frame_Type	BY	‘0004’H,	
REPLACE	Transaction_ID	BY	‘00000014’H	

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ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_TST_Req_06		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_TST_Req_01		
Comments	: Tester changes its address		
Constraint Value			
REPLACE	SA	BY	TESTER_ADDRESS2,
REPLACE	Transaction_ID	BY	‘00000015’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_TST_Ann_01		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_TST_Req		
Comments	: Valid NIF Announcement Frame		
Constraint Value			
REPLACE	FC	BY	‘4F’H,
REPLACE	DA	BY	Broadcast,
REPLACE	Frame_Type	BY	‘01’H,
REPLACE	Transaction_ID	BY	‘00000016’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_TST_Ann_02		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_TST_Ann_01		
Comments	: acknowledged frame of NIF_TST_Ann_01 from the IUT		
Constraint Value			
REPLACE	FS_A	BY	SET,
REPLACE	FS_C	BY	SET

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ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Req_01		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_TST_Req		
Comments	:		
Constraint Value			
REPLACE	FC	BY	‘4F’H
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Transaction_ID	BY	?,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS
REPLACE	Info	BY	NIF_TST_DATA02

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Req_02		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Req_01		
Comments	:		
Constraint Value			
REPLACE	Info	BY	NIF_TST_DATA01

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Req_03		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Req_02		
Comments	: To see if the IUT can generate a NIF frame with FC = ‘41’H.		
Constraint Value			
REPLACE	FC	BY	‘41’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Req_04		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Req_03		
Comments	:		
Constraint Value			
REPLACE	Info	BY	NIF_TST_DATA01

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ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Ann01		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Req01		
Comments	:		
Constraint Value			
REPLACE	DA	BY	Broadcast,
REPLACE	Frame_Type	BY	'01'H
REPLACE	Info	BY	NIF_TST_DATA01

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_TST_Res_01		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Req_01		
Comments	:		
Constraint Value			
REPLACE	DA	BY	IUT_ADDRESS,
REPLACE	SA	BY	TESTER_ADDRESS,
REPLACE	Frame_Type	BY	'03'H,
REPLACE	Station_ID1	BY	'0000'H,
REPLACE	Station_ID2	BY	TESTER_ADDRESS,
REPLACE	Info	BY	NIF_TST_DATA03

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_TST_Res_02		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_TST_Res_01		
Comments	:		
Constraint Value			
REPLACE	FC	BY	'41'F

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ASN.1 PDU Constraint Declaration				
Constraint Name	: NIF_IUT_Res_01			
PDU Type	: NIF_Frame			
Derivation Path	: NIF_TST_Req_01			
Comments	:			
Constraint Value				
REPLACE	DA	BY	TESTER_ADDRESS,	
REPLACE	SA	BY	IUT_ADDRESS,	
REPLACE	Frame_Type	BY	'03'H	
REPLACE	Station_ID1	BY	?,	
REPLACE	Station_ID2	BY	IUT_ADDRESS,	
REPLACE	Info	BY	NIF_TST_DATA01,	
REPLACE	FS_A	BY	SET,	
REPLACE	FS_C	BY	SET	

ASN.1 PDU Constraint Declaration				
Constraint Name	: NIF_IUT_Res_02			
PDU Type	: NIF_Frame			
Derivation Path	: NIF_IUT_Res_01			
Comments	:			
Constraint Value				
REPLACE	Frame_Class	BY	'10'H	--invalid frame class

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Res_03		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Res_01		
Comments	:		
Constraint Value			
REPLACE	Info	BY	NIF_TST_DATA

ASN.1 PDU Constraint Declaration			
Constraint Name	: NIF_IUT_Res_04		
PDU Type	: NIF_Frame		
Derivation Path	: NIF_IUT_Res_01		
Comments	: Response to the changed tester address		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS2
REPLACE	Info	BY	NIF_TST_DATA04

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9.3.2.2 SIF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SIF_CONF_Req_Q
PDU Type	:	SIF_Frame
Derivation Path	:	
Comments	:	

Constraint Value		
{	SD	JK,
	FC	?,
	DA	?,
	SA	?,
	Frame_Class	'02'H,
	Frame_Type	'02'H,
	Version_ID	'0001'H,
	Transaction_ID	?,
	Station_ID1	?,
	Station_ID2	?,
	PAD	PAD_2,
	InfoField_Length	'0000'H,
	sifrequest	-,
	FCS	?,
	ED	T,
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SIF_CONF_Req_IUT
PDU Type	:	SIF_Frame
Derivation Path	:	SIF_CONF_Req_Q
Comments	:	

Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Station_ID2	BY	IUT_ADDRESS

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ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_CONF_Req_01		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_CONF_Req_Q		
Comments	:		
Constraint Value			
REPLACE	FC	BY	‘4F’H,
REPLACE	DA	BY	IUT_ADDRESS,
REPLACE	SA	BY	TESTER_ADDRESS,
REPLACE	Transaction_ID	BY	‘00000021’H,
REPLACE	Station_ID1	BY	‘0000’H,
REPLACE	Station_ID2	BY	TESTER_ADDRESS

ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_CONF_Req_02		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_CONF_Req_Q		
Comments	: To see if the IUT responses to FC = ‘41’H		
Constraint Value			
REPLACE	FC	BY	‘41’H,
REPLACE	Transaction_ID	BY	‘00000022’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_CONF_Res_01		
PDU Type	: SIF_Frame		
Derivation Path	:		
Comments	:		
Constraint Value			
REPLACE	FC	BY	‘41’H,
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Transaction_ID	BY	‘00000021’H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS
REPLACE	InfoField_Length	BY	‘..’H,
REPLACE	sifresponse	by	SIF_CONF_DATA

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ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_CONF_Res_02		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_CONF_Res_01		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000022’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_OPER_Req_01		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_CONF_Req_01		
Comments	:		
Constraint Value			
REPLACE	FrameType	BY	‘03’H,
REPLACE	Transaction_ID	BY	‘00000023’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_OPER_Req_02		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_OPER_Req_01		
Comments	: To see if the IUT responses to FC = ‘41’H		
Constraint Value			
REPLACE	FC	BY	‘41’H,
REPLACE	Transaction_ID	BY	‘00000024’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: SIF_OPER_Res_01		
PDU Type	: SIF_Frame		
Derivation Path	: SIF_CONF_Res_01		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000023’H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS
REPLACE	InfoField_Length	BY	‘’..’’H,
REPLACE	sifresponse	by	SIF_OPER_DATA

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ASN.1 PDU Constraint Declaration		
Constraint Name	:	SIF_OPER_Res_02
PDU Type	:	SIF_Frame
Derivation Path	:	SIF_OPER_Res_01
Comments	:	
Constraint Value		
REPLACE Transaction_ID BY ‘00000024’H		

9.3.2.3 ECHO Frame PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	ECF_Request
PDU Type	:	ECF_Frame
Derivation Path	:	
Comments	:	
Constraint Value		

```
{
        SD                  JK,
        FC                  ?,
        DA                  IUT_ADDRESS,
        SA                  TESTER_ADDRESS,
        Frame_Class         ‘04’H,
        Frame_Type          ‘02’H,
        Version_ID          ‘0001’H,
        Transaction_ID      ‘000000031’H,
        Station_ID1         ‘0000’H,
        Station_ID2         TESTER_ADDRESS,
        PAD                 PAD_2,
        InfoField_Length    ?,
        EchoData            ?,
        FCS                 ?
        ED                  T
        FS_E                RESET,
        FS_A                RESET,
        FS_C                RESET,
        FS_2                -,
        FS_T                T       }
```

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ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_TST_Req_01		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_Request		
Comments	: maximum ECHO data, 4454 octets		
Constraint Value			
REPLACE	InfoField_Length	BY	?,
REPLACE	EchoData	BY	ECHO_MAX

ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_TST_Req_02		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_TST_Req_01		
Comments	: NULL ECHO data		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000032'H,
REPLACE	InfoField_Length	BY	?,
REPLACE	EchoData	BY	ECHO_MIN

ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_TST_Req_03		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_TST_Req_01		
Comments	: maximum InfoField size defined by SMT		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000033'H,
REPLACE	InfoField_Length	BY	?,
REPLACE	EchoData	BY	ECHO_SMTMAX

ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_TST_Req_04		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_TST_Req_01		
Comments	: exceeding maximum size defined by SMT		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000034'H,
REPLACE	InfoField_Length	BY	?,
REPLACE	EchoData	BY	ECHO_INVALID

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ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_IUT_Res_01		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_TST_Req_01		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Frame_Type	BY	'03'H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS

ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_IUT_Res_02		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_IUT_Res_01		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000032'H,
REPLACE	InfoField_Length	BY	?,
REPLACE	EchoData	BY	ECHO_MIN
REPLACE	Station_ID2	BY	IUT_ADDRESS

ASN.1 PDU Constraint Declaration			
Constraint Name	: ECF_IUT_Res_03		
PDU Type	: ECF_Frame		
Derivation Path	: ECF_TST_Req_03		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Frame_Type	BY	'03'H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS

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9.3.2.4 RAF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SBA_ALOC_Request00
PDU Type	:	SBA_Frame
Derivation Path	:	
Comments	:	Tester is the SBA allocator

Constraint Value		
{	SD	JK,
	FC	'41'H,
	DA	IUT_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	'05'H,
	Frame_Type	'02'H,
	Version_ID	'0002'H,
	Transaction_ID	'00000041'H,
	Station_ID1	'0000'H,
	Station_ID2	TESTER_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	'0068'H,
	resourcetype	ResourceType_00,
	sbacommand	SBACommand_Request,
	requestallocation	RequestAllocation_Q,
	FCS	?,
	ED	T,
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SBA_ALOC_Request01
PDU Type	:	SBA_Frame
Derivation Path	:	SBA_ALOC_Reques00
Comments	:	IUT is the SBA allocator

Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Transaction_ID	BY	?,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS
REPLACE	requestallocation	BY	RequestAllocation_01

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ASN.1 PDU Constraint Declaration		
Constraint Name	:	SBA_REP_Request01
PDU Type	:	SBA_Frame
Derivation Path	:	
Comments	:	

Constraint Value

```
{       SD                  JK,
        FC                  '41'H,
        DA                  IUT_ADDRESS,
        SA                  TESTER_ADDRESS,
        Frame_Class         '05'H,
        Frame_Type          '02'H,
        Version_ID          '0002'H,
        Transaction_ID      '00000042'H,
        Station_ID1         '0000'H,
        Station_ID2         TESTER_ADDRESS,
        PAD                 PAD_2,
        InfoField_Length    '00XX'H,
        resourcetype        ResouceType_00,
        sbacommand          SBACommand_Report,
        reportallocation    NULL,
        FCS                 ?,
        ED                  T,
        FS_E                RESET,
        FS_A                RESET,
        FS_C                RESET,
        FS_2                -,
        FS_T                T       }
```

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ASN.1 PDU Constraint Declaration		
Constraint Name	:	SBA_CHG_Request01
PDU Type	:	SBA_Frame
Derivation Path	:	
Comments	:	

Constraint Value

```
{       SD                  JK,
        FC                  '41'H,
        DA                  IUT_ADDRESS,
        SA                  TESTER_ADDRESS,
        Frame_Class         '05'H,
        Frame_Type          '02'H,
        Version_ID          '0002'H,
        Transaction_ID      '00000043'H,
        Station_ID1         '0000'H,
        Station_ID2         TESTER_ADDRESS,
        PAD                 PAD_2,
        InfoField_Length    '0038'H,
        resourcetype        ResourceType_00,
        sbacommand          SBACommnad_03,
        changeallocation    ChangeRequest_Q,
        FCS                 ?,
        ED                  T,
        FS_E                RESET,
        FS_A                RESET,
        FS_C                RESET,
        FS_2                -,
        FS_T                T       }
```

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SBA_ALOC_Response00
PDU Type	:	SBA_Frame
Derivation Path	:	SBA_ALOC_Request00
Comments	:	

Constraint Value

```
REPLACE     DA              BY      TESTER_ADDRESS,
REPLACE     SA              BY      IUT_ADDRESS,
REPLACE     Frame_Type      BY      '03'H,
REPLACE     Station_ID1     BY      ?,
REPLACE     Station_ID2     BY      IUT_ADDRESS,
REPLACE     InfoField_Length BY     '0058'H,
REPLACE     requestresponse BY      RequestResponse_Q
```

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ASN.1 PDU Constraint Declaration			
Constraint Name	: SBA_REP_Response		
PDU Type	: SBA_Frame		
Derivation Path	: SBA_REQ_Response		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Frame_Type	BY	'03'H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS,
REPLACE	InfoField_Length	BY	'0034'H..'00B0'H,
REPLACE	reportresponse	BY	ReportResponse_Q

ASN.1 PDU Constraint Declaration			
Constraint Name	: SBA_CHG_Response		
PDU Type	: SBA_Frame		
Derivation Path	:		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS,
REPLACE	InfoField_Length	BY	'003C'H,
REPLACE	changeresponse	BY	ChangeResponse_Q

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9.3.2.5 ESF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	ESF_Request00
PDU Type	:	ESF_Frame
Derivation Path	:	
Comments	:	

Constraint Value		
{	SD	JK,
	FC	‘41’H,
	DA	IUT_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	‘05’H,
	Frame_Type	‘02’H,
	Version_ID	‘0002’H,
	Transaction_ID	‘00000051’H,
	Station_ID1	‘0000’H,
	Station_ID2	TESTER_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	?,
	Info	ESF_DATA,
	FCS	?,
	ED	T,
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

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9.3.2.6 RDF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration			
Constraint Name	:	RDF_IUT_01	
PDU Type	:	RDF_Frame	
Derivation Path	:		
Comments	:	frame class not supported	
Constraint Value			
{	SD	JK,	
	FC	'41'H,	
	DA	TESTER_ADDRESS,	
	SA	IUT_ADDRESS,	
	Frame_Class	'06'H,	
	Frame_Type	'03'H,	
	Version_ID	'0002'H,	
	Transaction_ID	?,	
	Station_ID1	?,	-- implementer octets, PIXIT item
	Station_ID2	IUT_ADDRESS,	
	PAD	PAD_2,	
	InfoField_Length	?,	
	Info	RDF_DATA01,	
	ED	T,	
	FS_E	RESET,	
	FS_A	RESET,	
	FS_C	RESET,	
	FS_2	-,	
	FS_T	T	}

ASN.1 PDU Constraint Declaration			
Constraint Name	:	RDF_IUT_02	
PDU Type	:	RDF_Frame	
Derivation Path	:		
Comments	:	frame version not supported	
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA02

ASN.1 PDU Constraint Declaration			
Constraint Name	:	RDF_IUT_03	
PDU Type	:	RDF_Frame	
Derivation Path	:		
Comments	:	success	
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA03

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ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_04		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: bad set count		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA04

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_05		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: illegal operation		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA05

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_06		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: no parameter		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA06

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_08		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: out of range		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA08

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ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_09		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: not authorized		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA09

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_0A		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: length error		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA0A

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_0B		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: frame too long		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA0B

ASN.1 PDU Constraint Declaration			
Constraint Name	: RDF_IUT_0D		
PDU Type	: RDF_Frame		
Derivation Path	:		
Comments	: sba denied		
Constraint Value			
REPLACE	Info	BY	RDF_IUT_DATA0D

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9.3.2.7 SRF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SRF_TST_Ann
PDU Type	:	SRF_Frame
Derivation Path	:	
Comments	:	NEED WORK!!

Constraint Value		
{	SD	JK,
	FC	'41'H,
	DA	SMT_SRF_DA,
	SA	TESTER_ADDRESS,
	Frame_Class	'07'H,
	Frame_Type	'01'H,
	Version_ID	'0002'H,
	Transaction_ID	'00000070'H,
	Station_ID1	'0000'H,
	Station_ID2	TESTER_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	?,
	Info	SRF_DATA,
	FCS	?,
	ED	T,
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SRF_TST_Ann01
PDU Type	:	SRF_Frame
Derivation Path	:	SRF_TST_Ann
Comments	:	

Constraint Value			
REPLACE	Transaction_ID	BY	'00000071'H,
REPLACE	InfoField_Length	BY	?,
REPLACE	Info	BY	SRF_DATA

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ASN.1 PDU Constraint Declaration			
Constraint Name	: SRF_TST_Ann02		
PDU Type	: SRF_Frame		
Derivation Path	: SRF_TST_Ann		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000072’H,
REPLACE	InfoField_Length	BY	?,
REPLACE	Info	BY	SRF_DATA

ASN.1 PDU Constraint Declaration			
Constraint Name	: SRF_TST_Ann03		
PDU Type	: SRF_Frame		
Derivation Path	: SRF_TST_Ann		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000073’H,
REPLACE	InfoField_Length	BY	?,
REPLACE	Info	BY	SRF_DATA

ASN.1 PDU Constraint Declaration			
Constraint Name	: SRF_TST_Ann		
PDU Type	: SRF_Frame		
Derivation Path	:		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000074’H,
REPLACE	InfoField_Length	BY	?,
REPLACE	Info	BY	SRF_DATA

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ASN.1 PDU Constraint Declaration			
Constraint Name	: SRF_IUT_Ann		
PDU Type	: SRF_Frame		
Derivation Path	: SRF_TST_Ann		
Comments	:		
Constraint Value			
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Transaction_ID	BY	?,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS,
REPLACE	InfoField_Length	BY	?,
REPLACE	Info	BY	SRF_DATA

9.3.2.8 PMF PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	: PMFGet_Request_TESTER	
PDU Type	: PMFGetRequest_Frame	
Derivation Path	:	
Comments	:	
Constraint Value		
{	SD	JK,
	FC	‘4F’H,
	DA	IUT_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	‘08’H,
	Frame_Type	‘02’H,
	Version_ID	‘0002’H,
	Transaction_ID	?,
	Station_ID1	‘0000’H,
	Station_ID2	TESTER_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	?,
	getrequest	?,
	FCS	?
	ED	T
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

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ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_01		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	: get fddiSMTStatiionId parameter value		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000080'H,
REPLACE	InfoField_Length	BY	'0004'H,
REPLACE	getrequest	BY	SMTStationId_PmfReq

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_02		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000081'H,
REPLACE	InfoField_Length	BY	'0004'H,
REPLACE	getrequest	BY	SMTOpVersionId_PmfReq

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_03		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000082'H,
REPLACE	InfoField_Length	BY	'0004'H,
REPLACE	getrequest	BY	SMTHiVersionId_PmfReq

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_04		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	'00000083'H,
REPLACE	InfoField_Length	BY	'0004'H,
REPLACE	getrequest	BY	SMTLoVersionId_PmfReq

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ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_05		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000084’H,
REPLACE	InfoField_Length	BY	‘0004’H,
REPLACE	getrequest	BY	MACDownstreamNbr_PmfReq

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_06		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000085’H,
REPLACE	InfoField_Length	BY	‘0004’H,
REPLACE	getrequest	BY	MACOldDownstreamNbr_PmfReq

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_08.5		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	: A valid Multiple Group attribute (fddiSMTStationId and fddiSMTOpVersionId)		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000087’H,
REPLACE	InfoField_Length	BY	‘0008’H,
REPLACE	getrequest	BY	ValidMultiple_PmfGet

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ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_09.5		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	: Invalid PMF Get Request frame with multiple attributes (mixed resource index of zero and non-zero).		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000088’H,
REPLACE	InfoField_Length	BY	‘000C’H,
REPLACE	getrequest	BY	InvalidMultiple_PmfGet

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_0A.5		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	: Invalid group attribute of PMF Get Request (mixed resource index of zero and non-zero)		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000089’H,
REPLACE	InfoField_Length	BY	‘000C’H,
REPLACE	getrequest	BY	InvalidMultipleGrp_PmfGet

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_IUT		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_TESTER		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_07		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_IUT		
Comments	: A valid single attribute (fddiSMTStationId)		
Constraint Value			
REPLACE	InfoField_Length	BY	‘0004’H,
REPLACE	getrequest	BY	SMTStationId_PmfReq

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ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_08		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_IUT		
Comments	: A valid Multiple attribute		
Constraint Value			
REPLACE	InfoField_Length	BY	‘0008’H,
REPLACE	getrequest	BY	ValidMultiple_PmfGet

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_09		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_IUT		
Comments	: A valid Multiple Group attribute		
Constraint Value			
REPLACE	InfoField_Length	BY	‘0008’H,
REPLACE	getrequest	BY	ValidMultipleGrp_PmfGet

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Request_11		
PDU Type	: PMFGetRequest_Frame		
Derivation Path	: PMFGet_Request_01		
Comments	: To see if the IUT implements the FC = ‘4F’H		
Constraint Value			
REPLACE	FC	BY	‘4F’H,
REPLACE	Transaction_ID	BY	‘00000080’H

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ASN.1 PDU Constraint Declaration	
Constraint Name	: PMFGet_Response
PDU Type	: PMFGetResponse_Frame
Derivation Path	:
Comments	: Generic format

Constraint Value

```
{       SD                  JK,
        FC                  '4F'H,
        DA                  TESTER_ADDRESS,
        SA                  IUT_ADDRESS,
        Frame_Class         '08'H,
        Frame_Type          '03'H,
        Version_ID          '0002'H,
        Transaction_ID      ?,
        Station_ID1         ?,
        Station_ID2         IUT_ADDRESS,
        PAD                 PAD_2,
        InfoField_Length    ?,
        getresponse         ?,
        FCS                 ?
        ED                  T
        FS_E                RESET,
        FS_A                RESET,
        FS_C                RESET,
        FS_2                -,
        FS_T                T       }
```

ASN.1 PDU Constraint Declaration	
Constraint Name	: PMFGet_Response_01
PDU Type	: PMFGetResponse_Frame
Derivation Path	: PMFGet_Response
Comments	: fddiSMTStationId

Constraint Value

REPLACE	Transaction_ID	BY	'00000080'H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_01

ASN.1 PDU Constraint Declaration	
Constraint Name	: PMFGet_Response_02
PDU Type	: PMFGetResponse_Frame
Derivation Path	: PMFGet_Response
Comments	:

Constraint Value

REPLACE	Transaction_ID	BY	'00000080'H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_02

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ASN.1 PDU Constraint Declaration			
Constraint Name : PMFGet_Response_03 **PDU Type** : PMFGetResponse_Frame **Derivation Path** : PMFGet_Response **Comments** :			
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000081’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_03

ASN.1 PDU Constraint Declaration			
Constraint Name : PMFGet_Response_04 **PDU Type** : PMFGetResponse_Frame **Derivation Path** : PMFGet_Response **Comments** :			
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000082’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_04

ASN.1 PDU Constraint Declaration			
Constraint Name : PMFGet_Response_05 **PDU Type** : PMFGetResponse_Frame **Derivation Path** : PMFGet_Response_01 **Comments** :			
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000083’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_05

ASN.1 PDU Constraint Declaration			
Constraint Name : PMFGet_Response_06 **PDU Type** : PMFGetResponse_Frame **Derivation Path** : PMFGet_Response **Comments** :			
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000084’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_06

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ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Response_07		
PDU Type	: PMFGetResponse_Frame		
Derivation Path	: PMFGet_Response		
Comments	:		
Constraint Value			
REPLACE	InfoField_Length	BY	‘1C’..‘38’H,
REPLACE	InfoField_Length	BY	‘0018’..‘0034’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_07

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Response_08.5		
PDU Type	: PMFGetResponse_Frame		
Derivation Path	: PMFGet_Response		
Comments	: multiple group attributes (fddiSMTStationId and fddiSMTOpVersionId)		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000087’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_08.5

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Response_09.5		
PDU Type	: PMFGetResponse_Frame		
Derivation Path	: PMFGet_Response		
Comments	: Error Response of PMFGet Request frame (resource index of zero and non-zero: SMTStationId and fddiMACFrameStatusFunctions)		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000088’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_09.5

ASN.1 PDU Constraint Declaration			
Constraint Name	: PMFGet_Response_0A.5		
PDU Type	: PMFGetResponse_Frame		
Derivation Path	: PMFGet_Response		
Comments	: invalid multiple group attributes of resource index of zero and non-zero within a single frame (fddiSMTStationId_Group and fddiMACCapabilities_Group).		
Constraint Value			
REPLACE	Transaction_ID	BY	‘00000089’H,
REPLACE	getresponse	BY	PMF_IUT_Get_Res_0A.5

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ASN.1 PDU Constraint Declaration	
Constraint Name	: PMFSet_Request
PDU Type	: PMFSetRequest_Frame
Derivation Path	:
Comments	:

Constraint Value

{	SD	JK,
	FC	‘4F’H,
	DA	IUT_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	‘09’H,
	Frame_Type	‘02’H,
	Version_ID	‘0002’H,
	Transaction_ID	?,
	Station_ID1	‘0000’H,
	Station_ID2	TESTER_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	?,
	setrequest	?,
	FCS	?
	ED	T
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

ASN.1 PDU Constraint Declaration	
Constraint Name	: PMFSet_Response
PDU Type	: PMFSetResponse_Frame
Derivation Path	:
Comments	:

Constraint Value

{	SD	JK,
	FC	‘4F’H,
	DA	TESTER_ADDRESS,
	SA	TESTER_ADDRESS,
	Frame_Class	‘09’H,
	Frame_Type	‘03’H,
	Version_ID	‘0002’H,
	Transaction_ID	?,
	Station_ID1	?,
	Station_ID2	IUT_ADDRESS,
	PAD	PAD_2,
	InfoField_Length	?,
	setresponse	?,
	FCS	?
	ED	T
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

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9.3.2.9 ERROR PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	ERROR_BASE
PDU Type	:	ERROR_Frame
Derivation Path	:	
Comments	:	

Constraint Value	
{	
SD	JK,
FC	‘4F’H,
DA	IUT_ADDRESS,
SA	TESTER_ADDRESS,
Frame_Class	?,
Frame_Type	?,
Version_ID	?,
Transaction_ID	?,
Station_ID1	‘0000’H,
Station_ID2	TESTER_ADDRESS,
PAD	PAD_2,
InfoField_Length	?,
Info	?,
FCS	?
ED	T
FS_E	RESET,
FS_A	RESET,
FS_C	RESET,
FS_2	-,
FS_T	T }

ASN.1 PDU Constraint Declaration		
Constraint Name	:	invalid_Request_01
PDU Type	:	ERROR_Frame
Derivation Path	:	ERROR_BASE
Comments	:	Invalid_FrameClass

Constraint Value			
REPLACE	Frame_Class	BY	‘00’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H,
REPLACE	Transaction_ID	BY	‘00000091’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_02		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid_FrameType		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Frame_Type	BY	‘00’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000092’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_03		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid_Version		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0000’H
REPLACE	Transaction_ID	BY	‘00000093’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_04		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Short_InfoField		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0000’H
REPLACE	Transaction_ID	BY	‘00000094’H,
REPLACE	InfoField_Length	BY	‘0004’H,
REPLACE	Info	BY	ValidMultiple_Pmf_00

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_05		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: long_InfoField		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0000’H
REPLACE	Transaction_ID	BY	‘00000095’H,
REPLACE	InfoField_Length	BY	‘0008’H,
REPLACE	Info	BY	SMTStationId_01

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_06		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid version ID for NIF		
Constraint Value			
REPLACE	Frame_Class	BY	‘01’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000096’H,
REPLACE	InfoField_Length	BY	‘0028’H,
REPLACE	Info	BY	NIF_TST_DATA

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_07		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid version ID for SIF configuration		
Constraint Value			
REPLACE	Frame_Class	BY	‘02’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000097’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_08		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid version ID for SIF configuration		
Constraint Value			
REPLACE	Frame_Class	BY	‘03’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000098’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Request_09		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	: Invalid version ID for SIF operation		
Constraint Value			
REPLACE	Frame_Class	BY	‘03’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000099’H,
REPLACE	InfoField_Length	BY	‘0000’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: ERR_Response		
PDU Type	: ERROR_Frame		
Derivation Path	: ERROR_BASE		
Comments	:		
Constraint Value			
REPLACE	DA	BY	TESTER_ADDRESS,
REPLACE	SA	BY	IUT_ADDRESS,
REPLACE	Frame_Type	BY	‘03’H,
REPLACE	Station_ID1	BY	?,
REPLACE	Station_ID2	BY	IUT_ADDRESS

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_01		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	: Invalid Frame Class Response		
Constraint Value			
REPLACE	Frame_Class	BY	‘00’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000091’H,
REPLACE	InfoField_Length	BY	‘00’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_02		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	: Invalid Frame Type		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Frame_Type	BY	‘00’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000092’H,
REPLACE	InfoField_Length	BY	‘00’H,
OMIT	Info		

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_03		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	: Invalid Version ID		
Constraint Value			
REPLACE	Frame_Class	BY	‘08’H,
REPLACE	Version_ID	BY	‘0000’H
REPLACE	Transaction_ID	BY	‘00000093’H,
REPLACE	InfoField_Length	BY	‘00’H,
OMIT	Info		

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_04		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	: Shorter InfoField Length		
Constraint Value			
REPLACE	Frame_Class	BY	'08'H,
REPLACE	Version_ID	BY	'0002'H
REPLACE	Transaction_ID	BY	'00000094'H,
REPLACE	InfoField_Length	BY	'04'H,
REPLACE	Info	BY	PMF_IUT_Get_Res_08.5

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_05		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	: Longer InfoField Length		
Constraint Value			
REPLACE	Frame_Class	BY	'08'H,
REPLACE	Frame_Type	BY	'02'H,
REPLACE	Version_ID	BY	'0000'H
REPLACE	Transaction_ID	BY	'00000095'H,
REPLACE	InfoField_Length	BY	'08'H,
REPLACE	Info	BY	PMF_IUT_Get_Res_01

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_06		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	:		
Constraint Value			
REPLACE	Frame_Class	BY	'01'H,
REPLACE	Frame_Type	BY	'02'H,
REPLACE	Version_ID	BY	'0000'H
REPLACE	Transaction_ID	BY	'00000095'H

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ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_06		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	:		
Constraint Value			
REPLACE	Frame_Class	BY	‘01’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000096’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_07		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	:		
Constraint Value			
REPLACE	Frame_Class	BY	‘02’H,
REPLACE	Frame_Type	BY	‘02’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000097’H

ASN.1 PDU Constraint Declaration			
Constraint Name	: Invalid_Response_08		
PDU Type	: ERROR_Frame		
Derivation Path	: ERR_Response		
Comments	:		
Constraint Value			
REPLACE	Frame_Class	BY	‘03’H,
REPLACE	Version_ID	BY	‘0002’H
REPLACE	Transaction_ID	BY	‘00000098’H

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9.3.2.10 Synchronous Frame PDU Constraint Declaration

ASN.1 PDU Constraint Declaration		
Constraint Name	:	SYNC_Frame00
PDU Type	:	SYNC_Frame
Derivation Path	:	
Comments	:	

Constraint Value		
{	SD	JK,
	FC	'D0'H,
	DA	TESTER_ADDRESS,
	SA	IUT_ADDRESS,
	InfoField	?,
	FCS	?
	ED	T
	FS_E	RESET,
	FS_A	RESET,
	FS_C	RESET,
	FS_2	-,
	FS_T	T }

9.4 Dynamic Parts

9.4.1 Frame Processing Test Cases

Test Case Dynamic Behavior		
Test Case Name	:	Unsupported_FrameClass
Group	:	FDDI/FBM/ERROR/response/
Purpose	:	Verify that the IUT should respond with a RDF with 'Reason: frame class not supported' when a received Request frame's Frame Class is invalid.
Default	:	
Comment	:	SMT 8.1.3.1

Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		+RING_OP			(1)
2		!ERROR_Frame	Invalid_Request_01		(2)
3		START TIMER30			
4	L0	?ERROR_Frame	Invalid_Response_01	FAIL	(3)
5		?RDF_Frame	RDF_IUT_01	PASS	(4)
6		?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER30		FAIL	(5)

Detailed Comments:

(1) Operational Ring.
(2) Tester sends an ERROR Frame Class Request frame to the IUT.
(3) IUT responded to an invalid Frame Class frame, thus IUT failed the test.
(4) IUT responded with RDF with Reason:FrameClassNotSupported.
(5) The test timer is now expired and the tester has not received a RDF frame from the IUT. The IUT failed this test.

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Test Case Dynamic Behavior					
Test Case Name : Unsupported_FrameType **Group** : FDDI/FBM/ERROR/response/ **Purpose** : Verify that the IUT does not respond when the received frame type is undefined or not defined within the scope of the received frame class. **Default** : **Comment** : SMT 8.1.3.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			(1)
2		!ERROR_Frame	Invalid_Request_02		(2)
3		START TIMER30			
4	L0	?ERROR_Frame	Invalid_Response_02	FAIL	(3)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT TIMER30		PASS	(4)
Detailed Comments: (1) Operational Ring. (2) Tester sends an ERROR Frame with invalid Frame Type to the IUT. (3) IUT responded to an invalid Frame Type frame, thus IUT failed the test. (4) The test timer is now expired and the tester has not received a Response frame from the IUT. Thus it is assumed that IUT discarded the tester's Request frame.					

Test Case Dynamic Behavior					
Test Case Name : Invalid_Version1 **Group** : FDDI/FBM/ERROR/response/ **Purpose** : Verify that the IUT has implemented Version ID correctly. **Default** : **Comment** : SMT 8.1.3.3					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			(1)
2	L1	!ERROR_Frame	Invalid_Request_03		(2)
3		START TIMER30			
4		?ERROR_Frame	Invalid-Response_03	FAIL	(3)
5		?RDF_Frame	RDF_IUT_Res03	PASS	(4)
6		?OTHERWISE			
7		GOTO L1			
8		?TIMEOUT TIMER30		FAIL	(5)
Detailed Comments: (1) Operational Ring. (1) Tester sends ERROR Request frame with invalid version id ('0000'H). (2) Tester received the ERROR Response frame from the IUT. The IUT failed the test. (3) Tester received a RDF Response frame with 'Reason: frame version not supported,' the IUT passed the test. (4) The tester timer expired and the did not received a Response frame from the IUT. The IUT failed the test.					

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Test Case Dynamic Behavior					
Test Case Name : InfoField_Test_01 **Group** : FDDI/FBM/ERROR/response/ **Purpose** : Purpose of this test is to see how the IUT processes an invalid InfoField length by the implementer's option. **Default** : **Comment** : SMT 8.1.3.4. None of the IUT will fail on this test.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	!ERROR_Frame	Invalid_Request_04		(1)
3		START TIMER30			
4		?ERROR_Frame	Invalid_Response_04	PASS	(2)
5		?RDF_Frame	RDF_IUT_Res03	PASS	(3)
6		?OTHERWISE			
7		GOTO L1			
8		?TIMEOUT TIMER30		PASS	(4)
Detailed Comments: (1) Operational Ring. (1) Tester sends ERROR Request frame with InfoField length is shorter than the remaining INFO field. (2) Tester received the ERROR Response frame from the IUT. The IUT failed the test. (3) Tester received a RDF Response frame with 'Reason: length error,' the IUT passed the test. (4) The tester timer expired and the tester did not received the Response frame from the IUT.					

Test Case Dynamic Behavior					
Test Case Name : InfoField_Test_02 **Group** : FDDI/FBM/ERROR/response/ **Purpose** : Purpose of this test is to see how the IUT processes an invalid InfoField length by the implementer's option. **Default** : **Comment** : SMT 8.1.3.4. None of the IUT will fail in this test.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	!ERROR_Frame	Invalid_Request_05		(1)
3		START TIMER30			
4		?ERROR_Frame	Invalid_Response_05	PASS	(2)
5		?RDF_Frame	RDF_IUT_Res03	PASS	(3)
6		?OTHERWISE			
7		GOTO L1			
8		?TIMEOUT TIMER30		PASS	(4)
Detailed Comments: (1) Operational Ring. (1) Tester sends ERROR Request frame with InfoField length is longer than the remaining INFO field. (2) Tester received the ERROR Response frame from the IUT. (3) Tester received a RDF Response frame with 'Reason: length error.' (4) The tester timer expired and the tester did not received Response frame from the IUT.					

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Test Case Dynamic Behavior					
Test Case Name : StationID_Test **Group** : FDDI/MIB/PMF/GET/response/ **Purpose** : Verify that IUT operates with the same value from MIB attribute fddiSMTStationIdand the StationID field from the PDU. **Default** : **Comment** : SMT 7.1.2.4.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_01		(1)
3		START TIMER30			
4		?PMFGetResponse_Frame	PMFGet_Response_01	PASS	(2)
5		?OTHERWISE			
6	L0	GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Operational Ring. (1) Tester sends PMF Get Request frame with StaionID parameter. (2) Tester receives a PMF Get Response frame from the IUT which matches its SMTStationId from the MIB and its Station ID field. (3) The tester timer is now expired and no PMF Get Response frame is received.					

Test Case Dynamic Behavior					
Test Case Name : VersionID_Test01 **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT's value of the Version_ID field and that of the SMTOpversionID are the same except ECF, NIF, and SIF. **Default** : **Comment** : SMT 7.1.2.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_02		(1)
3		START TIMER30			
4		?PMFGetResponse_Frame	PMFGet_Resonse_02	PASS	(2)
5		?OTHERWISE			
6	L0	GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Operational Ring. (1) Tester sends PMF Get Request frame with SMTOpVersionId parameter. (2) Tester receives a PMF Get Response frame from the IUT which has the same values for both SMTOpversionId and Version_ID field. (3) The tester timer is now expired and no PMF Get Response frame is received.					

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Test Case Dynamic Behavior					
Test Case Name : VersionID_Test02 **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the value of IUT's SMTHiVersionId is '0002'H for this standard. **Default** : **Comment** : SMT 7.1.2.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_03		(1)
3		START TIMER30			
4		?PMFGetResponse_Frame	PMFGet_Response_03	PASS	(2)
5		?OTHERWISE			
6	L0	GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Operational Ring. (1) Tester sends PMF Get Request frame with SMTHiVersionId parameter. (2) Tester receives a PMF Get Response frame with SMTHiversionId = '0002'H. (3) The tester timer is now expired and no PMF Get Response frame is received.					

Test Case Dynamic Behavior					
Test Case Name : VersionID_Test03 **Group** : FDDI/MIB/PMF/GET/response/ **Purpose** : Verify that the value of IUT's SMTLoVersionId is '0001'H for this standard. **Default** : **Comment** : SMT 7.1.2.2. This guarantees backward compatibility with SMT 6.2.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_04		(1)
3		START TIMER30			
4		?PMFGetResponse_Frame	PMFGet_Response_04	PASS	(2)
5		?OTHERWISE			
6	L0	GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Operational Ring. (1) Tester sends PMF Get Request frame with SMTLoVersionId parameter. (2) Tester receives a PMF Get Response frame with SMTOpversionId = '0001'H. (3) The tester timer is now expired and the tester has not received the PMF Get Request frame from the IUT, thus the IUT failed the test.					

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Test Case Dynamic Behavior					
Test Case Name : VersionID_Test04 **Group** : FDDI/MIB/NIF/response/ **Purpose** : Verify that the Version_ID of the NIF is a constant value of '0001'H. **Default** : **Comment** : SMT 7.2.1.1					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ERROR_Frame	Invalid_Request_06		(1)
3		START TIMER30			
4		?NIF_Frame	Invalid_Response_06	FAIL	(2)
5		?RDF_Frame	RDF_IUT_02	PASS	(3)
6	L0	?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER30		FAIL	(4)
Detailed Comments: (1) Operational Ring. (1) Tester sends NIF Request frame with Version_ID = '0002'H. (2) Tester receives a NIF Response frame. (3) Tester receives a RDF with 'Reason: frame version not supported.' (4) The tester timer is now expired and did not receive any response from the IUT.					

Test Case Dynamic Behavior					
Test Case Name : VersionID_Test05 **Group** : FDDI/MIB/SIF/CONF/response/ **Purpose** : Verify that the Version_ID of the SIF Configuration is a constant value of '0001'H. **Default** : **Comment** : SMT 7.1.2.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ERROR_Frame	Invalid_Request_07		(1)
3		START TIMER30			
4		?SIF_Frame	Invalid_Response_07	FAIL	(2)
5		?RDF_Frame	RDF_IUT_02	PASS	(3)
6	L0	?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER30		FAIL	(4)
Detailed Comments: (1) Operational Ring. (1) Tester sends SIF Configuration Request frame with Version_ID = '0002'H. (2) Tester receives a SIF Configuration Response frame. (3) Tester receives a RDF with 'Reason: frame version not supported.' (4) The tester timer is now expired and did not receive any response from the IUT.					

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Test Case Dynamic Behavior					
Test Case Name : VersionID_Test06 **Group** : FDDI/MIB/SIF/OPER/response/ **Purpose** : Verify that the Version_ID of the SIF Operation is a constant value of '0001'H. **Default** : **Comment** : SMT 7.1.2.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ERROR_Frame	Invalid_Request_06		(1)
3		START TIMER30			
4		?SIF_Frame	Invalid_Response_06	FAIL	(2)
5		?RDF_Frame	RDF_IUT_02	PASS	(3)
6	L0	?OTHERWISE			
7		GOTO L0		FAIL	(3)
		?TIMEOUT TIMER30			
Detailed Comments: (1) Operational Ring. (1) Tester sends SIF Operation Request frame with Version_ID = '0002'H. (2) Tester receives a SIF Operation Response frame. (3) Tester receives a RDF with 'Reason: frame version not supported.' (4) The tester timer is now expired and did not receive any response from the IUT.					

Test Case Dynamic Behavior					
Test Case Name : VersionID_Test08 **Group** : FDDI/MIB/ECF/response/ **Purpose** : Verify that the Version ID of the ECF is a constant value of '0001'H. **Default** : **Comment** : SMT 7.1.2.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ERROR_Frame	Invalid_Request_09		(1)
3		START TIMER30			
4		?ECF_Frame	Invalid_Response_09	FAIL	(2)
5		?RDF_Frame	RDF_IUT_02	PASS	(3)
6	L0	?OTHERWISE			
7		GOTO L0		FAIL	(3)
		?TIMEOUT TIMER30			
Detailed Comments: (1) Operational Ring. (1) Tester sends ECF Request frame with Version_ID = '0002'H. (2) Tester receives a ECF Response frame. (3) Tester receives a RDF with 'Reason: frame version not supported.' (4) The tester timer is now expired and did not receive any response from the IUT.					

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Test Case Dynamic Behavior					
Test Case Name : NIF_Version_ID **Group** : FDDI/MIB/NIF/response/ **Purpose** : Verify that the IUT does not response to the Version_ID = '0002'H. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ERROR_Frame	Invalid_Request_06		(1)
3		START TIMER30			
4		?PMFGetResponse_Frame	Invalid_Response_06	FAIL	(2)
5		?RDF_Frame	RDF_IUT_02		(3)
6	L0	?OTHERWISE			
7		GOTO L0		FAIL	(3)
		?TIMEOUT TIMER30			
Detailed Comments: (1) Operational Ring. (1) Tester sends NIF Request frame with Version_ID = '0002'H. (2) Tester receives a NIF Response frame. (3) Tester receives a RDF with 'Reason: frame version not supported.' (4) The tester timer is now expired and did not receive any response from the IUT.					

9.4.2 Neighbor Information Frame Test Cases

Test Case Dynamic Behavior					
Test Case Name : NIF_Announce1 **Group** : FDDI/FBM/NIF/ **Purpose** : Verify that the IUT has the capability of generating and transmitting an optional NIF Announcement frame correctly. **Default** : **Comment** : This is an optional test for the IUTs which implement NIF Announcement.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			(1)
2		<IUT!NIF_Frame>	NIF_IUT_Ann_01		(2)
3		START OPR_TIMER			
4	L0	?NIF_Frame	NIF_IUT_Ann_01	PASS	(3)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT OPR_TIMER		FAIL	(4)
Detailed Comments: (1) Operational Ring (2) Forcing IUT to send NIF Announcement Frame by an IUT operator. (3) Tester receives NIF Announcement Frame from the IUT, thus the IUT passed the test. (4) The test timer is now expired and the tester has not received a NIF Announcement frame from the IUT thus fails the test.					

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Test Case Dynamic Behavior					
Test Case Name : NIF_Request1 **Group** : FDDI/FBM/NIF/ **Purpose** : To verify that the IUT generates and transmits a NIF Request frame periodically when Timer TNN expires. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+INIT_RING			(1)
2		START TIMER60			
3	L0	?NIF_Frame	NIF_IUT_Req_01		(2)
4		START TIMER30			
5	L1	?NIF_Frame	NIF_IUT_Req_01	PASS	(3)
6		?OTHERWISE			
7		GOTO L1			
8		?TIMEOUT TIMER30		FAIL	(4)
9		?OTHERWISE			
10		GOTO L0			
11		?TIMEOUT TIMER60		FAIL	(5)
Detailed Comments: (1) Power up the IUT and wait. (2) Tester received the first NIF Request frame from the IUT. At this point the IUT should reset its TNN timer and will send an another NIF Request frame upon the expiration of TNN. (3) Tester received a second NIF Request frame from the IUT. The IUT passed NIF Request test. (4) Tester does not received second NIF Request frame from the IUT and test timer TNN expired. The IUT failed this test. (5) The test timer expired and tester has not received any NIF Request frame from the IUT.					

Test Case Dynamic Behavior					
Test Case Name : NIF_Response1 **Group** : FDDI/FBM/NIF/ **Purpose** : To verify that the IUT generates and transmits a NIF Response frame when it receives a NIF Request Frame. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			(1)
2		!NIF_Frame	NIF_TST_Req_01		(2)
3		START TIMER30			
4	L0	?NIF_Frame	NIF_IUT_Res_01	PASS	(3)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(4)
Detailed Comments: (1) Ring is operational. (2) Tester sends a NIF Request frame to the IUT. (3) Tester received a NIF Response frame from the IUT. The IUT passed the test. (4) Tester does not received a NIF Response frame from the IUT and test timer TNN expired. The IUT failed this test.					

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Test Case Dynamic Behavior					
Test Case Name : InValid_UNA **Group** : FDDI/FBM/NIF/ **Purpose** : Verify that the IUT invalids Upstream Neighbor Address upon the expiration of timer T_NN_OUt. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!NIF_Frame	NIF_TST_Req_01		(1)
3		START TIMER30			(2)
4	L0	?NIF_Frame	NIF_IUT_Req_03		
5		!NIF_Frame	NIF_TST_Res_01		
6		START TIMER228			(3)
7		?TIMEOUT TIMER228			
8		?NIF_Frame	NIF_IUT_Req_01	PASS	(4)
		?NIF_Frame	NIF_IUT_Req_03	FAIL	(5)
		?OTHERWISE			
		GOTO L0			
		?TIMEOUT TIMER30		FAIL	
Detailed Comments: (1) Tester transmits a NIF Announcement frame. (2) Tester received a first NIF Request frame with UNA = TESTER_ADDRESS from the IUT. (3) Tester waits until timer T_NN_OUT expires. (4) Tester receives a NIF Request frame from the IUT with UNA = 'UnknownSMTAddress. (5) Tester received a NIF Request frame from the IUT with UNA = TESTER_ADDRESS.					

Test Case Dynamic Behavior					
Test Case Name : Valid_DNA **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT has a valid fddiMACDownstreamNbr. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!NIF_Frame	NIF_TST_Req_01		(1)
3		START TIMER30			
4		?NIF_Frame	NIF_IUT_Res_01		(2)
5		!PMFGetRequest_Frame	PMF_Request_05		(3)
6	L0	START TIMER30			
7		?PMFGetResponse_Frame	PMF_Response_05	PASS	(4)
8		?OTHERWISE			
9		GOTO L0			
		?TIMEOUT TIMER30		FAIL	
		?TIMEOUT TIMER30		FAIL	
Detailed Comments: (1) Tester transmits a NIF Announcement frame. (2) Tester received a first NIF Request frame from the IUT. (3) Tester transmits a PMF Get Request frame with fddiMACDdownstreamNbr parameter to the IUT. (4) Tester receives a PMF Get Response frame from the IUT.					

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Test Case Dynamic Behavior					
Test Case Name : Invalid_DNA **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT has a invalid its fddiMACDownstreamNbr when T_NN_OUT timer expires. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!NIF_Frame	NIF_TST_Req_01		(1)
3		START TIMER228			
4	L0	?NIF_Frame	NIF_IUT_Res_01		(2)
5		GOTO L0			
6		?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER228			(3)
9		!PMFGetRequest_Frame	PMF_Request_05		(4)
10		START TIMER30			
11	L1	?PMFGetResponse_Frame	PMF_Response_06	PASS	(5)
12		?OTHERWISE			
13		GOTO L1			
14		?TIMEOUT TIMER30		FAIL	
Detailed Comments: (1) Tester transmits a NIF Request frame. (2) Tester received a NIF Response frame from the IUT. (3) Tester strips all frames until TIMER288 expires. The IUT should invalidate its current DNA. (4) Tester transmits a PMF Get Request frame with fddiMACDdownstreamNbr parameter to the IUT. (5) Tester receives a PMF Get Response frame from the IUT with DNA='unknown_address'.					

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Test Case Dynamic Behavior

Test Case Name : Old_UNA
Group : FDDI/FBM/PMF/GET/response/
Purpose : Verify that the IUT invalidates its fddiMACUpstreamNbr when timer T_NN_OUT expires and stores fddiMACUpstreamNbr to fddiMACOldUpstreamNbr.
Default :
Comment :

Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		+RING_OP			
2		!NIF_Frame	NIF_TST_Req_01		(1)
3		START TIMER228			
4	L0	?NIF_Frame	NIF_IUT_Res_01		(2)
5		GOTO L0			
6		?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER228			(3)
9		!PMFGetRequest_Frame	PMF_Request_06		(4)
10		START TIMER30			
11	L1	?PMFGetResponse_Frame	PMF_Response_07	PASS	(5)
12		?OTHERWISE			
13		GOTO L1			
14		?TIMEOUT TIMER30		FAIL	

Detailed Comments:

(1) Tester transmits a NIF Request frame.
(2) Tester received a NIF Response frame from the IUT.
(3) Tester strips all frames until TIMER228 expires. The IUT should invalidate its current UNA.
(4) Tester transmits a PMF Get Request frame with fddiMACOldUpstreamNbr parameter to the IUT.
(5) Tester receives a PMF Get Response frame from the IUT with OldUNA='TESTER_ADDRESS'.

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Test Case Dynamic Behavior

Test Case Name : Old_DNA
Group : FDDI/FBM/PMF/GET/response/
Purpose : Verify that the IUT has a invalid its fddiMACDownstreamNbr when T_NN_OUT timer expires and stores to fddiOldDownsteamNbr.
Default :
Comment :

Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		+RING_OP			
2		!NIF_Frame	NIF_TST_Req_01		(1)
3		START TIMER228			
4	L0	?NIF_Frame	NIF_IUT_Res_01		(2)
5		GOTO L0			
6		?OTHERWISE			
7		GOTO L0			
8		?TIMEOUT TIMER228			(3)
9		!PMFGetRequest_Frame	PMF_Request_07		(4)
10		START TIMER30			
11	L1	?PMFGetResponse_Frame	PMF_Response_08	PASS	(5)
12		?OTHERWISE			
13		GOTO L1			
14		?TIMEOUT TIMER30		FAIL	

Detailed Comments:

(1) Tester transmits a NIF Request frame.
(2) Tester received a NIF Response frame from the IUT.
(3) Tester strips all frames until timer TNNOUT expires. The IUT should invalidate its current DNA.
(4) Tester transmits a PMF Get Request frame with fddiMACOldDdownstreamNbr parameter to the IUT.
(5) Tester receives a PMF Get Response frame from the IUT with OldDNA='TESTER_ADDRESS'.

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9.4.3 Status Information Frame Test Cases

Test Case Dynamic Behavior					
Test Case Name : SIFC_Request1 **Group** : FDDI/FBM/SIF/CONF/request/ **Purpose** : Verify that the IUT has the capability of generating and transmitting an SIF Configuration Request frame. **Default** : **Comment** : This test only applies to the IUTs which SIF Configuration Request frame is implemented.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1 2 3 4 5 6 7	L1	+RING_OP <IUT!SIF_Frame> START OPR_TIMER ?SIF_Frame ?OTHERWISE GOTO L1 ?TIMEOUT OPR_TIMER	SIF_CONF_Req_IUT SIF_CONF_Req_IUT	PASS FAIL	(1) (2) (3)
Detailed Comments: (1) Forcing the IUT to send a SIF Configuration Request frame. (2) Tester received the SIF Configuration Request frame from the IUT. (3) Tester has not received the SIF Configuration Request from the IUT and tester timer has expired thus the IUT fails the test.					

Test Case Dynamic Behavior					
Test Case Name : SIFC_Resp1 **Group** : FDDI/FBM/SIF/CONF/response/ **Purpose** : Verify that the IUT has the capability of processing and responding to the SIF Configuration Request frame by transmitting an SIF Configuration Response Frame. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1 2 3 4 5 6 7	L1	+RING_OP !SIF_Frame START TIMER30 ?SIF_Frame ?OTHERWISE GOTO L1 ?TIMEOUT TIMER30	SIF_CONF_Req_01 SIF_CONF_Res_01	PASS FAIL	(1) (2) (3)
Detailed Comments: (1) Tester transmits a SIF Configuration Request frame. (2) Tester received the SIF Configuration Response frame from the IUT. (4) Tester has not received the SIF Configuration Response frame from the IUT and tester timer has expired.					

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Test Case Dynamic Behavior					
Test Case Name : SIFC_Resp2 **Group** : FDDI/FBM/SIF/CONF/response/ **Purpose** : Verify that the IUT has the capability of processing and responding to the SIF Configuration Request frame with FC = '41'H. **Default** : **Comment** : To see if the IUT is capable of recognize SIF with FC = '41'H					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!SIF_Frame	SIF_CONF_Req_02		(1)
3		START TIMER30			
4	L1	?SIF_Frame	SIF_CONF_Res_02	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester transmits a SIF Configuration Request frame. (2) Tester received the SIF Configuration Response frame from the IUT. (4) Tester has not received the SIF Configuration Response frame from the IUT and tester timer has expired.					

Test Case Dynamic Behavior					
Test Case Name : SIFO_Request1 **Group** : FDDI/FBM/SIF/OPER/response/ **Purpose** : Verify that the IUT has the capability of generating and transmitting an SIF Operation Request frame. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	<IUT!SIF_Frame>	SIF_OPER_Req_IUT		
3		START OPR_TIMER			(1)
4		?SIF_Frame	SIF_OPER_Req_IUT	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to send a SIF OperationRequest frame. (2) Tester received the SIF Operation Request frame from the IUT. (3) Tester has not received the SIF Operation Request from the IUT and tester timer has expired thus the IUT failed the test.					

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Test Case Dynamic Behavior					
Test Case Name : SIF_Oper_Response1 **Group** : FDDI/FBM/SIF/OPER/response/ **Purpose** : Verify that the IUT has the capability of processing and responding to the SIF Operation Request frame by transmitting an SIF Operation Response Frame. **Default** : **Comment** :					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L2	!SIF_Frame	SIF_OPER_Req_01		(1)
3		START TIMER30			
4	L1	?SIF_Frame	SIF_OPER_Res_01	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester transmits a SIF Operation Request frame. (2) Tester received the SIF Operation Response frame from the IUT thus the IUT has passed this test. (3) Tester has not received the SIF Operation Response from the IUT and tester timer has expired thus the IUT failed the test.					

Test Case Dynamic Behavior					
Test Case Name : SIF_Oper_Response2 **Group** : FDDI/FBM/SIF/OPER/response/ **Purpose** : Verify that the IUT has the capability of processing and responding to the SIF Operation Request frame with FC = ‘41’H. **Default** : **Comment** : To see if the IUT is capable of recognizing SIF with FC = ‘41’H					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!SIF_Frame	SIF_OPER_Req_02		(1)
3		START TIMER30			
4	L1	?SIF_Frame	SIF_OPER_Res_02	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester transmits a SIF Operation Request frame. (2) Tester received the SIF Operation Response frame from the IUT. (3) Tester has not received the SIF Operation Response frame from the IUT and tester timer has expired.					

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9.4.4 ECHO Test Cases

Test Case Dynamic Behavior					
Test Case Name : ECHO_Request1 **Group** : FDDI/FBM/ECHO/request/ **Purpose** : Verify that the IUT does not transmit an ECF Request frame exceeding the maximum ECF frame length as specified. **Default** : **Comment** : Although this is an optional test for IUTs which implement ECHO Request, the IUT will not forced to exceed the limit of implementation or exceed the frame validity criteria.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!ECF_Frame>	ECHO_VALID		(1)
3		START OPR_TIMER			
4	L0	?ECF_Frame	ECHO_VALID	PASS	(2)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to send a valid ECHO Request frame. (2) Tester receives a valid ECHO Request frame from the IUT. (3) The tester timer expired and the tester does not received a valid ECHO frame thus the IUT fails the test.					

Test Case Dynamic Behavior					
Test Case Name : ECHO_Receive1 **Group** : FDDI/FBM/ECHO/response/ **Purpose** : Verify that the IUT is capable to receive maximum length of ECHO Request frame and respond with ECHO Response frame. **Default** : **Comment** : SMT 7.1.2.5 maximum size of echo data is 4 454 octets					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ECF_Frame	ECHO_MAX		(1)
3		START TIMER30			
4	L0	?ECF_Frame	ECF_IUT_MAX	PASS	(2)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) The tester transmits a ECF Request frame with maximum echo data length to the IUT. (2) The tester receives a ECF Response frame from the IUT, thus the IUT passes the test. (3) The tester timer has been expired and the tester does not received any ECF frame from the IUT, thus the IUT failed the test.					

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Test Case Dynamic Behavior					
Test Case Name : ECHO_Receive2 **Group** : FDDI/FBM/ECHO/response/ **Purpose** : Verify that the IUT does not process an ECF Request frame exceeding the maximum ECF frame length as specified. **Default** : **Comment** : SMT 7.1.2.5.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!ECF_Frame	ECHO_INVALID		(1)
3		START TIMER30			
4	L0	?ECF_Frame	ECHO_INVALID	FAIL	(2)
5		?ECF_Frame	ECHO_IUT_MAX	PASS	(3)
6		?RDF_Frame		PASS	(4)
7		?OTHERWISE			
8		GOTO L0			
9		?TIMEOUT TIMER30		FAIL	(5)
Detailed Comments: (1) Tester transmits a ECF Request frame exceeding maximum ECF frame length to the IUT. (2) Tester receives a untruncated ECF Response frame from the IUT. (3) Tester receives a truncated ECF Response frame from the IUT as an implementer's option. (4) Tester receives a RDF frame from the IUT with 'Reason:LengthError'. (5) The tester timer has been expired and the tester does not received any ECF frame from the IUT.					

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9.4.5 Resource Allocation Frame Test Cases (Optional)

Test Case Dynamic Behavior					
Test Case Name : SBA_REQ_Req1 **Group** : FDDI/FBM/RAF/ALLOC/request/ **Purpose** : To verify that the IUT does not initiate synchronous transmission before receiving an allocation of synchronous bandwidth from the allocator. **Default** : **Comment** : SMT 7.2.4.1. This is an optional test for the IUTs which implement dynamic allocation of SBA. Tester is an allocator.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!SBA_Frame>	SBA_ALOC_Request00		(1)
3		OPR_TIMER			
4	L0	?SBA_Frame	SBA_ALOC_Request00		(2)
5		!SBA_Frame	SBA_ALOC_Response00		
6		START TIMER30	SYNC_Frame00	FAIL	(3)
7		?SYNC_Frame			
8		?OTHERWISE			
9		GOTO L0			(4)
		?TIMEOUT TIMER30		PASS	
		?TIMEOUT OPR_TIMER		FAIL	(5)
Detailed Comments: (1) Force IUT to transmit SBA Resource Allocation Request Frame with SBA Command Value of RequestAllocation (X'0001'). (2) Tester sends SBA Resource Allocation Response frame with no allocatable bandwidth. (3) The IUT ignored the allocator (Tester), and transmits synchronous frame thus failed the test. (4) The IUT does not send any Synchronous Frame thus passed the test. (5) The Tester did not received any SBA Request frame from the IUT thus the IUT fails the test.					

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Test Case Dynamic Behavior					
Test Case Name : SBA_REQ_Resp1 **Group** : FDDI/FBM/RAF/ALLOC/response/ **Purpose** : To verify that the IUT generates RAF Response (Request Allocation) with Destination Address = (Tester Address) and SBA Command = X'0001' when it receives an RAF Request (Request Allocation) from the tester. **Default** : **Comment** : SMT 7.2.4.2. IUT is the allocator					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!SBA_Frame	SBA_ALOC_Request01		(1)
3		START TIMER30			
4	L1	?SBA_Frame	SBA_ALOC_Response01	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) The tester transmits SBA Resource Allocation Request, Request Frame with SBA Command Value of Request Allocation (X'0001'). (2) The tester received SBA Resource Allocation Request Response Frame from the IUT, thus the IUT has passed the test. (3) The tester has not received SBA Resource Allocation Request Response Frame from the IUT and test timer has expired, thus the IUT has failed the test.					

Test Case Dynamic Behavior					
Test Case Name : SBA_REP_Req1 **Group** : FDDI/FBM/RAF/REPORT/request/ **Purpose** : To verify that the IUT generates RAF Request (Report Allocation)with Destination Address = (Tester Address) and SBA Command = X'0002'. **Default** : **Comment** : SMT 7.2.4.1					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	<IUT!SBA_Frame>	SBA_REP_Request1		(1)
3		START OPR_TIMER			
4		?SBA_Frame	SBA_REP_Request1	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to transmit SBA Resource Allocation Report Request Frame with SBA Command Value of Report Allocation (X'0002'). (2) The tester received SBA Resource Allocation Report Response Frame from the IUT, thus the IUT has passed the test. (3) The tester has not received SBA Resource Allocation Report Response Frame from the IUT and test timer has expired, thus the IUT has failed the TEST.					

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Test Case Dynamic Behavior					
Test Case Name : SBA_REP_Resp1 **Group** : FDDI/FBM/RAF/REPORT/response/ **Purpose** : To verify that the IUT generates RAF Response (Report Allocation) with Destination Address = (Tester Address) and SBA Command = X'0002' when it receives an RAF Request (Report Allocation) from the tester. The IUT's current allocation for non_local data paths is also included in the InfoField. **Default** : **Comment** : SMT 7.2.4.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	!SBA_Frame	SBA_REP_Request01		(1)
3		START TIMER30			
4		?SBA_Frame	SBA_REP_Response01	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) The tester transmits SBA Resource Allocation Report Request Frame with SBA Command Value of Report Allocation (X'0002'). (2) The tester received SBA Resource Allocation Report Response Frame from the IUT, thus the IUT has passed the test. (3) The tester has not received SBA Resource Allocation Report Response Frame from the IUT and test timer has expired, thus the IUT has failed the test.					

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Test Case Dynamic Behavior					
Test Case Name : SBA_CHG_Req1 **Group** : FDDI/FBM/RAF/CHANGE/request/ **Purpose** : To verify that the IUT generates RAF Request (Change Allocation) with Destination Address = (Tester Address) and SBA Command = X'0003'. **Default** : **Comment** : SMT 7.2.4.1					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	<IUT!SBA_Frame>	SBA_CHG_Request01		(1)
3		START OPR_TIMER			
4		?SBA_Frame	SBA_CHG_Request01	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to transmit SBA Resource Allocation Change Request Frame with SBA Command Value of Change Allocation (X'0003'). (2) The tester received SBA Resource Allocation Change Request Frame from the IUT, thus the IUT has passed the test. (3) The tester has not received SBA Resource Allocation Change Request Frame from the IUT and test timer has expired, thus the IUT has failed the test.					

Test Case Dynamic Behavior					
Test Case Name : SBA_CHG_Resp1 **Group** : FDDI/FBM/RAF/CHANGE/response/ **Purpose** : To verify that the IUT generates RAF Response (Change Allocation) with Destination Address = (Tester Address) and SBA Command = X'0003' when it receives an RAF Request (Change Allocation) from the tester. **Default** : **Comment** : SMT 7.2.4.2					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2	L1	!SBA_Frame	SBA_CHG_Request01		(1)
3		START TIMER30			
4		?SBA_Frame	SBA_CHG_Response00	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) The tester transmits SBA Resource Allocation Change Request Frame with SBA Command Value of Change Allocation (X'0003'). (2) The tester received SBA Resource Allocation Change Response Frame from the IUT, thus the IUT has passed the test. (3) The tester has not received SBA Resource Allocation Change Response Frame from the IUT and test timer has expired, thus the IUT has failed the test.					

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9.4.6 Extended Service Frame Test Cases (Optional)

Test Case Dynamic Behavior					
Test Case Name : ESF_Request1 **Group** : FDDI/FBM/ESF/request/ **Purpose** : Verify that the IUT has the capability of transmitting an optional ESF Request frame as specified. **Default** : **Comment** : SMT 7.2.6. This is an optional test for the IUT implementing ESF					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!ESF_Frame>	ESF_Request		(1)
3	L0	START OPR_TIMER			
4		?ESF_Frame	ESF_Request	PASS	(2)
5		?OTHERWISE			
6		GOTO L0			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) The IUT transmits ESF request frame to the IUT. (2) The tester has received a ESF Request frame from the IUT, thus the IUT has passed the test. (3) The tester timer has been expired and the tester has not received a ESF Request frame from the IUT, thus IUT fails the test.					

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9.4.7 Status Report Frame Test Cases

Test Case Dynamic Behavior

Test Case Name : SRF_announce
Group : FDDI/FBM/SRF/announce/
Purpose : Verify that the IUT generates a correct SRF announcement frame with universally assigned multicast address (SMT_SRF_DA). Conditions are inserted or deinserted within T_Limit to observe the behavior of the IUT. The IUT should not report more than more than one SRF frame within the T_Limit.
Default :
Comment : SMT 7.2.7

Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		+RING_OP			
2		<IUT!SRF_Frame>	SRF_Announce		(1)
3	L1	?SRF_Frame	SRF_Announce		(2)
4	L2	<IUT!ERR_FrameS>	Undesirable1		(3)
5		START TIMER2			
6		?SRF_FrameS	SRF_Announce	FAIL	(4)
7		?TIMEOUT TIMER2			
8		?SRF_Frame	SRF_Announce	PASS	(5)
9		?OTHERWISE			
10		GOTO L2			
11		?OTHERWISE			
12		GOTO L1			

Detailed Comments:

(1) Force the IUT to send SRF announcement frame.
(2) Tester received a SRF frame from the IUT.
(3) An IUT operator inject erroneous conditions to exceed the IUT's specific error threshold conditions.
(4) If the IUT sends more than one SRF frame within2 seconds, the IUT fails this test.
(5) The IUT sends only 1 frame within 2 seconds (T_Limit). Thus the IUT passed the test.

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9.4.8 Parameter Management Frame Test Cases

Test Case Dynamic Behavior					
Test Case Name : SingleAttribute_TX **Group** : FDDI/FBM/PMF/GET/request/ **Purpose** : Verify that the IUT has a capability of generating and transmitting an optional PMF Request frame with a single attribute. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.1. This is an optional test for IUTs which implement PMF Get Request.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!PMFGetRequest_Frame>	PMFGet_Request_07		(1)
3		START OPR_TIMER			
4	L1	?PMFGetRequest_Frame	PMFGet_Request_07	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to send a PMF Get Request frame. (2) Tester has received a PMF Get Request frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Request frame from the IUT, thus the IUT failed test.					

Test Case Dynamic Behavior					
Test Case Name : MultipleAttribute_TX **Group** : FDDI/FBM/PMF/GET/request/ **Purpose** : Verify that the IUT has a capability of generating and transmitting an optional PMF Request frame with multiple attributes. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.1. This is an optional test for IUTs which implement PMF Get Request.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!PMFGetRequest_Frame>	PMFGet_Request_08		(1)
3		START OPR_TIMER			
4	L1	?PMFGetRequest_Frame	PMFGet_Request_08	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to send a PMF Get Request frame. (2) Tester has received a PMF Get Request frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Request frame from the IUT, thus the IUT failed test.					

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Test Case Dynamic Behavior					
Test Case Name : MultipleGroupAttributes_TX **Group** : FDDI/FBM/PMF/GET/request/ **Purpose** : Verify that the IUT has a capability of generating and transmitting an optional PMF Request frame with multiple group attributes. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.1. This is an optional test for IUTs which implement PMF Get Request.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!PMFGetRequest_Frame>	PMFGet_Request_09		(1)
3		START OPR_TIMER			
4	L1	?PMFGetRequest_Frame	PMFGet_Request_09	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Forcing the IUT to send a PMF Get Request frame. (2) Tester has received a PMF Get Request frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Request frame from the IUT, thus the IUT failed test.					

Test Case Dynamic Behavior					
Test Case Name : SingleAttribute_RX **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT has a capability of generating and transmitting a PMF Response frame when it receives PMF Get Request frame with a single attribute. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.2.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_01		(1)
3		START OPR_TIMER			
4	L1	?PMFGetResponse_Frame	PMFGet_Response_01	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT OPR_TIMER		FAIL	(3)
Detailed Comments: (1) Tester sends a PMF Get Request frame to the IUT with a single attribute. (2) Tester has receives a PMF Get Response frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Response frame from the IUT, thus the IUT failed test.					

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Test Case Dynamic Behavior					
Test Case Name : MultipleAttribute_RX **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT has a capability of generating and transmitting a PMF Response frame when it receives PMF Get Request frame with multiple attributes. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.2.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_08.5		(1)
3		START TIMER30			
4	L1	?PMFGetResponse_Frame	PMFGet_Response_08.5	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester sends a PMF Get Request frame. (2) Tester has received a PMF Get Response frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Request frame from the IUT, thus the IUT failed test.					

Test Case Dynamic Behavior					
Test Case Name : MultipleGroupAttributes_RX **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT has a capability of generating and transmitting a PMF Response frame when it receives PMF Get Request frame with multiple group attributes. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.2.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		<IUT!PMFGetRequest_Frame>	PMFGet_Request_09.5		(1)
3		START TIMER30			
4	L1	?PMFGetRequest_Frame	PMFGet_Response_09.5	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester sends a PMF Get Request frame. (2) Tester has receives a PMF Get Response frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Response frame from the IUT, thus the IUT failed test.					

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Test Case Dynamic Behavior					
Test Case Name : InvalidMultipleGroupAttributes_RX **Group** : FDDI/FBM/PMF/GET/response/ **Purpose** : Verify that the IUT generates and transmits either a PMF Response frame with reasoncode = 'no parameter' when it receives a PMF Get Request frame with resource index of zero and non-zero attributes within a single frame. **Default** : **Comment** : SMT 7.1.3, and 7.2.8.2.					
Nr	**Label**	**Behavior Description**	**Constraints Ref**	**Verdict**	**Comments**
1		+RING_OP			
2		!PMFGetRequest_Frame	PMFGet_Request_0A.5		(1)
3		START TIMER30			
4	L1	?PMFGetResponse_Frame	PMFGet_Response_0A.5	PASS	(2)
5		?OTHERWISE			
6		GOTO L1			
7		?TIMEOUT TIMER30		FAIL	(3)
Detailed Comments: (1) Tester sends a PMF Get Request frame. (2) Tester has received a PMF Get Response frame from the IUT, thus the IUT has passed this test. (3) The tester timer is now expired and the tester has not received the PMF Get Response frame from the IUT, thus the IUT failed test.					

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10 Management Information Base (MIB) - Abstract Test Suite

10.1 Test Suite Overview

10.1.1 Test Suite Structure

Test Suite Structure			
Suite Name : FDDI_MIB **Standards ref.** : ISO/IEC 9314-6:1998 **PICS proforma ref.** : ISO/IEC 9314-13:1997 **PIXIT proforma ref.** : Annex B of this standard. **PICS/PIXIT use** : Test case selection and test suite parameters. **Test Method(s)** : Remote Single Layer Method **Comments** :			
Test Group Reference	**Selection Ref.**	**Test Group Objective**	**Page**
FDDI_MIB/MIBGroups		Test elements of a MIB attribute group.	827
FDDI_MIB/SMT		Test SMT attributes.	827
FDDI_MIB/MAC		Test MAC attributes.	845
FDDI_MIB/PATH		Test PATH attributes.	875
FDDI_MIB/PORT		Test PORT attributes.	878
FDDI_MIB/ACTIONS_NOTI-FICATIONS		Test actions and notifications.	888

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10.1.2 Test Case Index

Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref.**	**Description**	**Page**
FDDI_MIB/MIBGroups	fddiMIBAttrGrps		Verify elements of an SMT, MAC, PATH or PORT attribute group contained in the IUT Management Information Base.	827
FDDI_MIB/SMT	fddiSMTStationId		Compare the fddiSMTStationId to the Station ID of the IUT's frame.	827
FDDI_MIB/SMT	fddiSMTManufacturer-Data		Verify manufacturer data contained in the IUT Management Information Base.	828
FDDI_MIB/SMT	fddiSMTMIBVersionId		Verify MIB Version ID of the IUT.	828
FDDI_MIB/SMT	fddiSMTUserData		Verify that the SMTUserData attribute of the IUT can be modified using a PMF Set protocol.	829
FDDI_MIB/SMT	fddiSMTMac_Ct		Verify number of MACs in the IUT.	829
FDDI_MIB/SMT	fddiSMTNonMaster_Ct		Verify number of A, B, and S ports in the IUT.	830
FDDI_MIB/SMT	fddiSMTMaster_Ct		Verify number of M ports in the IUT.	830
FDDI_MIB/SMT	fddiSMTAvailablePaths		Verify available paths in the IUT.	831
FDDI_MIB/SMT	fddiSMTConfig-Capabilities		Verify configuration capabilities of the IUT.	831
FDDI_MIB/SMT	fddiSMTConnection-Policy		Verify that fddiSMTConnectionPolicy attribute can be modified using PMF Set protocol.	832
FDDI_MIB/SMT	fddiSMTT_Notify		Verify that fddiSMTT_Notify attribute can be modified using PMF Set protocol.	833
FDDI_MIB/SMT	fddiSMTStatRptPolicy		Verify that fddiSMTStatRptPolicy attribute can be modified using PMF Set protocol.	833
FDDI_MIB/SMT	fddiSMTTrace_Max-Expiration		Verify that fddiSMTTrace_MaxExpiration attribute can be modified using PMF Set protocol.	834

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/SMT	fddiSMTCF_State_T		Check the CF_State of a SM-DAS inThru configuration.	835
FDDI_MIB/SMT	fddiSMTCF_State_CWA		Check the CF_State of a SM-DAS in c_wrap_a configuration.	836
FDDI_MIB/SMT	fddiSMTCF_State_CWB		Check the CF_State of a SM-DAS in c_wrap_b configuration.	836
FDDI_MIB/SMT	fddiSMTCF_State_WS		Check the CF_State of a SM-DAS in wrap_s configuration.	837
FDDI_MIB/SMT	fddiSMTCF_State_WAB		Check the CF_State of a DM-DAS in wrap_ab configuration.	837
FDDI_MIB/SMT	fddiSMTHoldState_Prm		Check the initial value of the HoldState. If the initial value is “not_holding” and the Hold function is implemented, interrupt the link exiting from the Tester A port, so that the input to the IUT B port is dark. Verify that now “holding_prm” is the value of the HoldState.	838
FDDI_MIB/SMT	fddiSMTHoldState_Sec		Check the initial value of the HoldState. If the initial value is “not_holding” and the Hold function is implemented, interrupt the link exiting from the Tester B port, so that the input to the IUT A port is dark. Verify that now “holding_sec” is the value of the HoldState.	839
FDDI_MIB/SMT	fddiSMTStationStatus_T		Check the current status of the primary and secondary paths within the IUT in the Thru configuration.	840

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/SMT	fddiSMTStation-Status_S1		Check the current status of the primary and secondary paths within the IUT in the wrap_a configuration.	841
FDDI_MIB/SMT	fddiSMTStation-Status_S2		Check the current status of the primary and secondary paths within the IUT in the wrap_b configuration.	842
FDDI_MIB/SMT	fddiSMTStation-Status_C		Check the current status of the primary and secondary paths within the IUT in the c_wrap_a configuration.	843
FDDI_MIB/SMT	fddiSMTPeerWrap-Flag_DAS		Check the value of PeerWrapFlag for different configurations.	844
FDDI_MIB/SMT	fddiSMTPeerWrap-Flag_SAS		Check the value of PeerWrapFlag for different configurations.	845
FDDI_MIB/MAC	fddiMACBridge-Functions		Verify the bridge type of the IUT.	845
FDDI_MIB/MAC	fddiMACT_Max-Capability		Verify the maximum T_Max value of an IUT's MAC.	846
FDDI_MIB/MAC	fddiMACTVXCapa-bility		Verify the maximum TVX time value of an IUT's MAC.	846
FDDI_MIB/MAC	fddiMACAvailable-Paths		Verify paths available for an IUT's MAC.	847
FDDI_MIB/MAC	fddiMACCurrentPath		Verify the path into which an IUT's MAC is currently inserted.	847
FDDI_MIB/MAC	fddiMACUpstreamNbr		To compare fddiMACUpstreamNbr with a known upstream neighbor address.	848
FDDI_MIB/MAC	fddiMACDownstream-Nbr		To compare fddiMACDownstreamNbr with a known downstream neighbor address.	849
FDDI_MIB/MAC	fddiMACOldUpstream-Nbr		Verify the previous known upstream neighbor of the IUT.	850
FDDI_MIB/MAC	fddiMACOldDown-streamNbr		Verify the previous known downstream neighbor of the IUT.	851
FDDI_MIB/MAC	fddiMACDupAddress-Test1		Verify the MACDupAddressTest of the IUT when there is no duplicate address on the ring.	852
FDDI_MIB/MAC	fddiMACDupAddress-Test2		Verify the MACDupAddressTest of the IUT when there is a duplicate address on the ring.	853

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/MAC	fddiMACRequested-paths		Verify that the fddiMACRequestPaths attribute of the IUT can be modified using the PMF Set protocol.	854
FDDI-MIB/MAC	fddiMACDownstream-PORTType		Verify the exit port of an IUT MAC.	854
FDDI_MIB/MAC	fddiMACIndex		Verify the MACIndex attribute of the IUT.	855
FDDI_MIB/MAC	fddiMACSMTAddr		To compare fddiMACSMTAddress to the source address of the frame received.	855
FDDI_MIB/MAC	fddiMACLongGrp-Address		Verify the MAC long group address used by the IUT.	856
FDDI_MIB/MAC	fddiMACShortGrp-Address		Verify the MAC short group address used by the IUT.	856
FDDI_MIB/MAC	fddiMACT_Req		Verify the T_Req value passed to the IUT MAC.	857
FDDI_MIB/MAC	fddiMACT_Neg		Verify the T_Neg value of the IUT.	857
FDDI_MIB/MAC	fddiMACT_Max		Verify the T_Max value passed to the IUT MAC.	858
FDDI_MIB/MAC	fddiMACTvxValue		Verify the TvxValue passed to the IUT MAC.	858
FDDI_MIB/MAC	fddiMACT_Pri0		Verify the T_Pri0 value of the IUT MAC.	859
FDDI_MIB/MAC	fddiMACT_Pri1		Verify the T_Pri1 value of the IUT MAC.	859
FDDI_MIB/MAC	fddiMACT_Pri2		Verify the T_Pri2 value of the IUT MAC.	860
FDDI_MIB/MAC	fddiMACT_Pri3		Verify the T_Pri3 value of the IUT MAC.	860
FDDI_MIB/MAC	fddiMACT_Pri4		Verify the T_Pri4 value of the IUT MAC.	861
FDDI_MIB/MAC	fddiMACT_Pri5		Verify the T_Pri5 value of the IUT MAC.	861

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/MAC	fddiMACT_Pri6		Verify the T_Pri6 value of the IUT MAC.	862
FDDI_MIB/MAC	fddiMACFrame_Ct		Verify a count of the number of frames received by the IUT MAC.	863
FDDI_MIB/MAC	fddiMACCopied_Ct		Verify a count of the number of frames addressed to and successfully copied into the IUT receive buffers by the IUT MAC.	864
FDDI_MIB/MAC	fddiMACTransmit_Ct		Verify a count of the number frames transmitted by the IUT MAC.	865
FDDI_MIB/MAC	fddiMACToken_Ct		Verify a count of the number of tokens received by the IUT MAC.	866
FDDI_MIB/MAC	fddiMACError_Ct		Verify a count of the number of frames that were detected in error by the IUT MAC that had not been detected in error by another MAC.	867
FDDI_MIB/MAC	fddiMACLost_Ct		Verify a count of the number of instances that the IUT MAC detected a format error during frame reception such that the frame was stripped.	868
FDDI_MIB/MAC	fddiMACTvxExpired_Ct		Check a count of the number of times that TVX has expired.	869
FDDI_MIB/MAC	fddiMACLate_Ct		Check a count of the number TRT expirations since the IUT MAC was reset or a token was received.	870
FDDI_MIB/MAC	fddiMACRMTState		Check the current state of the IUT RMT state machine.	871
FDDI_MIB/MAC	fddiMACDA_Flag		Check the current RMT Duplicate Address flag (DA_Flag) of the IUT.	871
FDDI_MIB/MAC	fddiMACUNDA_Flag1		Check the current UNDA_Flag of the IUT when there is no duplicate address on the ring.	872
FDDI_MIB/MAC	fddiMACUNDA_Flag2		Check the current UNDA_Flag of the IUT when there is a duplicate address on the ring.	872

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/MAC	fddiMACFrameError-Flag		Check the current frame error flag of the IUT.	873
FDDI_MIB/MAC	fddiMACMA_Unitdata-Available		Check the current MAC_Available flag of the IUT.	873
FDDI_MIB/MAC	fddiMACHardware-Present		Check the presence of underlying hardware support for the IUT MAC object.	874
FDDI_MIB/MAC	fddiMACMA_Unitdata-Enable		Check the current MA_UNITDATA_Enable flag of the IUT.	874
FDDI_MIB/PATH	fddiPATHIndex		Check the current PATHIndex of the IUT.	875
FDDI_MIB/PATH	fddiPATHRingLatency		Check the current accumulated latency of the ring associated with the current IUT path.	875
FDDI_MIB/PATH	fddiPATHT_Rmode		Verify that the duration of restricted dialog on a path can be modified using PMF Set protocol.	876
FDDI_MIB/PATH	fddiPATHTVXLower-Bound		Check the current PATHTVXLowerBound of the IUT.	876
FDDI_MIB/PATH	fddiPATHT_MaxLower-Bound		Check the current PATHT_MaxLowerBound of the IUT.	877
FDDI_MIB/PATH	fddiPATHMaxT_Req		Check the current PATHMaxT_Req of the IUT.	877
FDDI_MIB/PORT	fddiPORTMyType		Verify the port type of the IUT.	878
FDDI_MIB/PORT	fddiPORTNeighborType		Verify the neighbor port type of the IUT.	878
FDDI_MIB/PORT	fddiPORTCurrentPath		To check a current path of a port.	879
FDDI_MIB/PORT	fddiPORTRequested-Paths_A		Check the requested paths of the IUT port A.	879
FDDI_MIB/PORT	fddiPORTRequested-Paths_B1		Check the requested paths of IUT port B.	880
FDDI_MIB/PORT	fddiPORTRequested-Paths_B2		Check the requested paths of IUT port B.	880
FDDI_MIB/PORT	fddiPORTRequested-Paths_S		Check the requested paths of IUT port S.	881

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/PORT	FddiPORTRequested-Paths_M		Check the requested paths of IUT port M.	881
FDDI_MIB/PORT	FddiPORTMAC-Placement		To check a MAC whose transmit path exits the station via a known port.	882
FDDI_MIB/PORT	fddiPORTAvailablePaths		Check the available paths of IUT port A (or port B).	882
FDDI_MIB/PORT	fddiPORTMAC-Loop_Time		Verify that the value of MAC Local Loop time, T_Next(9), can be modified using the PMF Set protocol.	883
FDDI_MIB/PORT	fddiPORTPMDClass		To check the PMD type of a port.	883
FDDI_MIB/PORT	fddiPORTIndex		Check the index for PORT object instances of the IUT.	884
FDDI_MIB/PORT	fddiPORTPC_LS		Check the current line state received by an IUT port.	884
FDDI_MIB/PORT	fddiPORTLer_Cutoff		Check the link error rate estimate, at which a link connection will be broken, of an IUT port.	885
FDDI_MIB/PORT	fddiPORTLer_Alarm		Check the link error rate estimate, at which a link connection will generate an alarm, of an IUT port.	885
FDDI_MIB/PORT	fddiPORTConnectState		Check the current connect state of an IUT port.	886
FDDI_MIB/PORT	fddiPORTPCMState		Check the current PCM state of an IUT port.	886
FDDI_MIB/PORT	fddiPORTPC_Withhold		Check the PC_Withhold value of an IUT port.	887
FDDI_MIB/PORT	fddiPORTHardware-Present		Check the presence of underlying hardware support for an IUT port object.	887
FDDI_MIB/-ACTIONS_NO-TIFICATIONS	fddiSMTStation-Action_DA		Verify that Disable_A action can be invoked using the PMF Set protocol.	888
FDDI_MIB/-ACTIONS_NO-TIFICATIONS	fddiSMTStation-Action_DB		Verify that Disable_B action can be invoked using the PMF Set protocol.	888

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Test Group Reference	Test Case Id	Selection Ref.	Description	Page
FDDI_MIB/-ACTIONS_-NOTIFICATIONS	FddiSMTHold-Condition_Prm		Check the initial value of the HoldState. If the initial value is “not_holding” and the Hold function is implemented, interrupt the link exiting from the Tester A port, so that the input to the IUT B port is dark. Verify that IUT enters the “holding_prm” state and transmits an SRF with the Hold condition asserted.	889
FDDI_MIB/-ACTIONS_-NOTIFICATIONS	fddiSMTHold-Condition_Sec		Check the initial value of the HoldState. If the initial value is “not_holding” and the Hold function is implemented, interrupt the link exiting from the Tester B port, so that the input to the IUT A port is dark. Verify that IUT enters the “holding_sec” state and transmits an SRF with the Hold condition asserted.	890
FDDI_MIB/-ACTIONS_-NOTIFICATIONS	fddiMACDuplicate-AddressCondition		Verify that MACDuplicateAddressCondition is active when either fddiMACDA_Flag or fddiMACUNDA_Flag is set.	891

10.2 Declaration Part

10.2.1 Simple Type Definitions

Simple Type Definitions		
Type Name	**Type Definition**	**Comments**
SYMBOL	BITSTRING[5]	

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10.2.2 ASN.1 Type Definitions for General Parameters

ASN.1 Type Definition
Type Name : UNA_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type          OCTETSTRING(SIZE(2)),
             Parameter_Length        OCTETSTRING(SIZE(2)),
             PAD2                    OCTETSTRING(SIZE(2)),
             UNA                     OCTETSTRING(SIZE(6) -- fddiMACUpstreamNbr--}
```

ASN.1 Type Definition
Type Name : StationDescriptor_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type          OCTETSTRING(SIZE(2)),
             Parameter_Length        OCTETSTRING(SIZE(2)),
             Node_Class              OCTETSTRING(SIZE(1)),
               --station = '00'H; concentrator = '01'H--
             Mac_Ct                  OCTETSTRING(SIZE(1)),     --X'00'-X'FF'--
             NonMaster_Ct            OCTETSTRING(SIZE(1)),     --X'00'-X'02'--
             Master_Ct               OCTETSTRING(SIZE(1))}     --X'00'-X'FF'--
-- When one or more Ports or MACs physically instantiated in the MIB are not physically present,
-- the Mac_Ct, NonMaster_Ct, and Master_Ct will differ from the corresponding MIB attributes.
```

ASN.1 Type Definition
Type Name : StationState_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type          OCTETSTRING(SIZE(2)),
             Parameter_Length        OCTETSTRING(SIZE(2)),
             PAD2                    OCTETSTRING(SIZE(2)),
             Topology                TopologyType,   --1 octet--
             DuplAddress             DuplAddressType    --1 octet--    }
```

ASN.1 Type Definition
Type Name : MsgTimeStamp_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type          OCTETSTRING(SIZE(2)),
             Parameter_Length        OCTETSTRING(SIZE(2)),
             MsgTimeStamp            INTEGER(0..18446744073709551615) --8 octets--
        }
```

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ASN.1 Type Definition		
Type Name : StationPolicies_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ConfigPolicy	ConfigPolicyType, --2 octets--
	ConnectionPolicy	ConnectionType --2 octets-- }

ASN.1 Type Definition		
Type Name : PathLatency_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PORTOutIndex	OCTETSTRING(SIZE(2)),
	PathLatencyRing1	OCTETSTRING(SIZE(2)),
	PORTOutIndex	OCTETSTRING(SIZE(2)),
	PathLatencyRing2	OCTETSTRING(SIZE(2)) }

-- This is the latency contribution of the Paths within the station. It is not a MIB attribute and is
-- optional. The latency is given in octet units. The Port indices are those used to form the Path
-- descriptor SMT Parameter, X'0008'.

ASN.1 Type Definition		
Type Name : MACNeighbors_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	MIB_Index	OCTETSTRING(SIZE(2)),
	--value of fddiMACIndex--	
	MAC_Index	OCTETSTRING(SIZE(2)),
	--as in the PathDescriptor SMT_Parameter X'0008'--	
	UNA	OCTETSTRING(SIZE(6)),
	--fddiMACUpstreamNbr--	
	DNA	OCTETSTRING(SIZE(6)),
	fddiMACDownstreamNbr--	}

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ASN.1 Type Definition
Type Name : PathDescriptor_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type              OCTETSTRING(SIZE(2)),
             Parameter_Length            OCTETSTRING(SIZE(2)),
                          --***Port Records***--
             MIB_Index                   OCTETSTRING(SIZE(2)),
               --value of fddiPORTIndex--
             PortType                    OCTETSTRING(SIZE(1)),
               --A='00'H; B='01'H; S='02'H; M='03'H--
             ConnectState                OCTETSTRING(SIZE(1)),
               --Disabled='00'H; Connecting='01'H; Stanby='02'H; Active='03'H--
             RemotePORTType              OCTETSTRING(SIZE(1)),
               --A='00'H; B='01'H; S='02'H; M='03'H; Unknown=''04'H--
             RemoteMAC                   OCTETSTRING(SIZE(1)),
               --Non present='00'H; Remote MAC indicated='01'H--
             ConResourceIndex            OCTETSTRING(SIZE(2)),      --X'0001'-X'FFFF'--
               --Index(connection) of Port or MAC on Path--
                          --***MAC Records***--
             MAC_Addr                    OCTETSTRING(SIZE(6)),
             ConResourceIndex            OCTETSTRING(SIZE(2))       --X'0001'-X'FFFF'--
               --Index(connection) of Port or MAC--   }
```

ASN.1 Type Definition
Type Name : MACStatus_GENERAL **Comments :** General parameter.
Type Definition

```
SEQUENCE    {Parameter_Type          OCTETSTRING(SIZE(2)),
             Parameter_Length        OCTETSTRING(SIZE(2)),
             MIB_Index               OCTETSTRING(SIZE(2)),
               --value of fddiMACIndex--
             MAC_Index               OCTETSTRING(SIZE(2)),
               --as in PathDescriptor X'0008'--
             T_Req                   OCTETSTRING(SIZE(4)),
             T_Neg                   OCTETSTRING(SIZE(4)),
             T_Max                   OCTETSTRING(SIZE(4)),
             TVXValue                OCTETSTRING(SIZE(4)),
             T_Min                   OCTETSTRING(SIZE(4)),
               --these timers are TimerTwosComplement--
             SBA                     INTEGER(0..4294967295), --4 octets--
             Frame_Ct                INTEGER(0..4294967295),
             Error_Ct                INTEGER(0..4294967295),
             Lost_Ct                 INTEGER(0..4294967295)       }
```

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ASN.1 Type Definition			
Type Name : PortLEMStatus_GENERAL **Comments :** General parameter.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	MIB_Index	OCTETSTRING(SIZE(2)),	
	--value of fddiPORTIndex--		
	PORT_Index	OCTETSTRING(SIZE(2)),	--X'0001'-X'FFFF'--
	--as in PathDescriptor X'0008'--		
	PAD1	OCTETSTRING(SIZE(1)),	
	Ler_Cutoff	INTEGER(0..255), --1 octet--	
	Ler_Alarm	INTEGER(0..255),	
	Ler_Estimate	INTEGER(0..255),	
	Lem_Reject_Ct	INTEGER(0..4294967295), --4 octets--	
	Lem_Ct	INTEGER(0..4294967295) }	

ASN.1 Type Definition			
Type Name : MACFrameCounters_GENERAL **Comments :** General parameter.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	MIB_Index	OCTETSTRING(SIZE(2)),	
	--value of fddiMACIndex--		
	MAC-Index	OCTETSTRING(SIZE(2)),	
	--as in PathDescriptor X'0008'--		
	Copied_Ct	INTEGER(0..4294967295), --4 octets--	
	Transmit_Ct	INTEGER(0..4294967295) }	

ASN.1 Type Definition			
Type Name : MACFrameNotCopiedCount_GENERAL **Comments :** General parameter. This parameter is optional.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	MIB_Index	OCTETSTRING(SIZE(2)),	
	--value of fddiMACIndex--		
	MAC_Index	OCTETSTRING(SIZE(2)),	
	--as in PathDescriptor X'0008"--		
	NotCopied_Ct	INTEGER(0..4294967295) --4 octets-- }	

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ASN.1 Type Definition
Type Name : MACPriorityValues_GENERAL **Comments :** General parameter. This parameter is optional.
Type Definition

```
SEQUENCE    {Parameter_Type         OCTETSTRING(SIZE(2)),
             Parameter_Length       OCTETSTRING(SIZE(2)),
             MIB_Index              OCTETSTRING(SIZE(2)),
               --value of fddiMACIndex--
             MAC_Index              OCTETSTRING(SIZE(2)),
               --as in PathDescriptor X'0008'--
             T_Pri0                 OCTETSTRING(SIZE(4)),
             T_Pri1                 OCTETSTRING(SIZE(4)),
             T_Pri2                 OCTETSTRING(SIZE(4)),
             T_Pri3                 OCTETSTRING(SIZE(4)),
             T_Pri4                 OCTETSTRING(SIZE(4)),
             T_Pri5                 OCTETSTRING(SIZE(4)),
             T_Pri6                 OCTETSTRING(SIZE(4))
               --these timers are TimerTwosComplement--    }
```

ASN.1 Type Definition
Type Name : PortEBStatus_GENERAL **Comments :** General parameter. This parameter is optional.
Type Definition

```
SEQUENCE    {Parameter_Type         OCTETSTRING(SIZE(2)),
             Parameter_Length       OCTETSTRING(SIZE(2)),
             MIB_Index              OCTETSTRING(SIZE(2)),
               --value of fddiPORTIndex--
             PORT_Index             OCTETSTRING(SIZE(2)),
               --as in PathDescriptor X'0008'--
             EbError_Ct             INTEGER(0..4294967295) --4 octets--    }
```

ASN.1 Type Definition
Type Name : ManufacturerField_GENERAL **Comments :** General parameter. This parameter is optional.
Type Definition

```
SEQUENCE    {Parameter_Type         OCTETSTRING(SIZE(2)),
             Parameter_Length       OCTETSTRING(SIZE(2)),
             manuf_OUI              OCTETSTRING(SIZE(3)),
             manuf_data             OCTETSTRING(SIZE(29))       }
```

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ASN.1 Type Definition		
Type Name : UserField_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length user_data	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(32), }

ASN.1 Type Definition		
Type Name : ECHOData_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD echo_data	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(..)) DEFAULT NULL, ECH_DATA(length:INTEGER) }

ASN.1 Type Definition		
Type Name : ReasonCode_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length reason	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) --FrameClassNotSupported = '00000001'H-- --FrameVersionNotSupported = '00000002'H-- --Success = '00000003'H-- --BadSetcount = '00000004'H-- --IllegalOperation = '00000005'H-- --NoParameter = '00000006'H-- --OutOfRange = '00000008'H-- --NotAuthorized = '00000009'H-- --LengthError = '0000000A'H-- --FrameTooLong = '0000000B'H-- --SBADenied = '0000000D'H-- }

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ASN.1 Type Definition
Type Name : RejectedFrameBeginning_GENERAL **Comments :** General parameter.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), PAD3 OCTETSTRING(SIZE(3)), RejectedFrameBeginning OCTETSTRING(SIZE(..)) }

ASN.1 Type Definition
Type Name : SMTSupportedVersions_GENERAL **Comments :** General parameter.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), PAD2 OCTETSTRING(SIZE(2)), numVersions OCTETSTRING(SIZE(1)), indexOpVersion OCTETSTRING(SIZE(1)), Version_1 OCTETSTRING(SIZE(2)), Version_2 OCTETSTRING(SIZE(2)) }

ASN.1 Type Definition
Type Name : ResourceType_GENERAL **Comments :** General parameter. This parameter is optional.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), ResourceType OCTETSTRING(SIZE(4)) --synchronous bandwidth-- }

ASN.1 Type Definition
Type Name : SBACommand_GENERAL **Comments :** General parameter. This parameter is optional.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), SbaCommand OCTETSTRING(SIZE(4)) --RequestAllocation = '00000001'H-- --ReportAllocation = '00000002'H-- --ChangeAllocation = '00000003'H-- }

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ASN.1 Type Definition		
Type Name : SBAPayloadRequest_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length SbaRequest	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) }

ASN.1 Type Definition		
Type Name : SBAOverheadRequest_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length SbaOverheadReq	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) }

ASN.1 Type Definition		
Type Name : SBAAllocationAddress_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 SbaAllocationAddr	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6)) }

ASN.1 Type Definition		
Type Name : SBACategory_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Category	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) }

ASN.1 Type Definition		
Type Name : MaximumT_Neg_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length MaxTneg	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) }

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ASN.1 Type Definition		
Type Name : MinimumSBASegmentSize_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length MinSegment	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) DEFAULT '00000001'H }

ASN.1 Type Definition		
Type Name : SBAAllocatable_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length SbaAllocatable	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)) }

ASN.1 Type Definition		
Type Name : Authorization_GENERAL **Comments :** General parameter. This parameter is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Authorization	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(..)) }

ASN.1 Type Definition		
Type Name : ESFID_GENERAL **Comments :** General parameter.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 ESF_ID	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6)) }

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10.2.3 ASN.1 Type Definitions for MIB Attributes

ASN.1 Type Definition		
Type Name : MIBGrp **Comments :** MIB attribute groups.		
Type Definition		
CHOICE	{smtstationidgrp	SMTGrp,
	smtstationconfiggrp	SMTGrp,
	smtstatusgrp	SMTGrp,
	smtmiboperationgrp	SMTGrp,
	maccapabilitiesgrp	MACGrp,
	macconfiggrp	MACGrp,
	macaddressgrp	MACGrp,
	macoperationgrp	MACGrp,
	maccountersgrp	MACGrp,
	macframeerrorconditiongrp	MACGrp,
	macnotcopiedconditiongrp	MACGrp OPTIONAL,
	macstatusgrp	MACGrp,
	pathconfiggrp	PATHGrp,
	portconfiggrp	PORTGrp,
	portoperationgrp	PORTGrp,
	porterrorctrsgrp	PORTGrp,
	portlergrp	PORTGrp,
	portstatusgrp	PORTGrp
	}	

10.2.3.1 ASN.1 Type Definitions for SMT Attributes

ASN.1 Type Definition		
Type Name : SMTGrp **Comments :** SMT attribute group.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Parameter_Value	ANY --SMT attribute group-- }

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10.2.3.1.1 SMT Station ID Group Attributes

ASN.1 Type Definition
Type Name : SMTStationIdGrp **Comments :** SMT attribute group.
Type Definition
SET {stationid SMTStationId, opversionid SMTOpVersionId, hiversionid SMTHiVersionId, loversionid SMTLoVersionId, manufacturerdata SMTManufacturerData OPTIONAL, userdata SMTUserData, mibversionid SMTMIBVersionId }

ASN.1 Type Definition
Type Name : SMTStationId **Comments :** SMT attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), ImplementerOctet OCTETSTRING(SIZE(2)), Station_Address OCTETSTRING(SIZE(6)), }

ASN.1 Type Definition
Type Name : SMTOpVersionId **Comments :** SMT attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), PAD2 OCTETSTRING(SIZE(2)), OpVersionId INTEGER (0..65535) --2 octets-- }

ASN.1 Type Definition
Type Name : SMTHiVersionId **Comments :** SMT attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), PAD2 OCTETSTRING(SIZE(2)), HiVersionId INTEGER (0..65535) --2 octets-- }

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ASN.1 Type Definition			
Type Name : SMTLoVersionId **Comments :** SMT attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD2 LoVersionId	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..65535) --2 octets--	}

ASN.1 Type Definition			
Type Name : SMTManufacturerData **Comments :** SMT attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length ManufacturerOUI ManufacturerData	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), OCTETSTRING(SIZE(29))	}

ASN.1 Type Definition			
Type Name : SMTUserData **Comments :** SMT attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length UserData	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(32))	}

ASN.1 Type Definition			
Type Name : SMTMIBVersionId **Comments :** SMT attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length PAD2 MIBVersionId	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..65535) --2 octets--	}

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10.2.3.1.2 SMT Station Configuration Group Attributes

ASN.1 Type Definition
Type Name : SMTStationConfigGrp **Comments :** SMT attribute group.
Type Definition

```
SET     {macct                  SMTMac_Ct,
         nonmasterct            SMTNonMaster_Ct,
         masterct               SMTMaster_Ct,
         availablepaths         SMTAvailablePaths,
         configcapabilities     SMTConfigCapabilities,
         configpolicy           SMTConfigPolicy,
         connectionpolicy       SMTConnectionPolicy,
         tnotify                SMTT_Notify,
         statrptpolicy          SMTStatRptPolicy,
         tracemaxexpiration     SMTTrace_MaxExpiration,
         portindexes            SMTPORTIndexes,
         macindexes             SMTMACIndexes,
         bypasspresent          SMTBypassPresent      }
```

ASN.1 Type Definition
Type Name : SMTMac_Ct **Comments :** SMT attribute.
Type Definition

```
SEQUENCE    {Parameter_Type     OCTETSTRING(SIZE(2)),
             Parameter_Length   OCTETSTRING(SIZE(2)),
             PAD3               OCTETSTRING(SIZE(3)),
             MAC_Ct             INTEGER(0..255)    --1 octets--  }
```

ASN.1 Type Definition
Type Name : SMTNonMaster_Ct **Comments :** SMT attribute.
Type Definition

```
SEQUENCE    {Parameter_Type     OCTETSTRING(SIZE(2)),
             Parameter_Length   OCTETSTRING(SIZE(2)),
             PAD3               OCTETSTRING(SIZE(3)),
             NonMaster_Ct       INTEGER(0..255)    --1 octet--   }
```

ASN.1 Type Definition
Type Name : SMTMaster_Ct **Comments :** SMT attribute.
Type Definition

```
SEQUENCE    {Parameter_Type     OCTETSTRING(SIZE(2)),
             Parameter_Length   OCTETSTRING(SIZE(2)),
             PAD3               OCTETSTRING(SIZE(3)),
             Master_Ct          INTEGER(0..255)    --1 octet--   }
```

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ASN.1 Type Definition		
Type Name : SMTAvailablePaths **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD3	OCTETSTRING(SIZE(3)),
	AvailablePaths	AvailablePathsType --1 octet-- }

ASN.1 Type Definition		
Type Name : SMTConfigCapabilities **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD2	OCTETSTRING(SIZE(2)),
	ConfigCapabilities	Capabilities --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTConfigPolicy **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD2	OCTETSTRING(SIZE(2)),
	ConfigPolicy	ConfigPolicyType --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTConnectionPolicy **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD2	OCTETSTRING(SIZE(2)),
	ConnectionPolicy	Connection --2 octets--}

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ASN.1 Type Definition		
Type Name : SMTT_Notify **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 T_NotifyType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..65535) --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTStatRptPolicy **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD3 StatRptPolicy	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), BOOLEAN DEFAULT TRUE }

ASN.1 Type Definition		
Type Name : SMTTrace_MaxExpiration **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length TraceMaxExpiration	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : SMTPORTIndexes **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PORTIndexes	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), Indexes}

ASN.1 Type Definition		
Type Name : SMTMACIndexes **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length MACIndexes	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), Indexes}

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ASN.1 Type Definition		
Type Name : SMTBypassPresent **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD3 BypassPresent	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), BOOLEAN }

10.2.3.1.3 SMT Status Group Attributes

ASN.1 Type Definition		
Type Name : SMTStatus_Group **Comments :** SMT attribute group.		
Type Definition		
SET	{ecmstate cfstate holdstate remotedisconnectflag stationstatus peerwrapflag	SMTECMState, SMTCF_State, SMTHoldState OPTIONAL, SMTRemoteDisconnectFlag, SMTStationStatus, SMTPeerWrapFlag }

ASN.1 Type Definition		
Type Name : SMTECMState **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 ECMStateType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), ECMState --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTCF_State **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 CF_StateType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), CF_State --2 octets-- }

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ASN.1 Type Definition		
Type Name : SMTHoldState **Comments :** SMT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 HoldStateType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), HoldState --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTRemoteDisconnectFlag **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD3 RemoteDisconnectFlag	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), BOOLEAN }

ASN.1 Type Definition		
Type Name : SMTStationStatus **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD2 StationStatus	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), Status --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTPeerWrapFlag **Comments :** SMT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PAD3 PeerWrapFlag	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), BOOLEAN }

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10.2.3.1.4 SMT MIB Operation Group Attributes

ASN.1 Type Definition			
Type Name : SMTMIBOperationGrp **Comments :** SMT attribute group.			
Type Definition			
SET	{timestamp transitiontimestamp setcount lastsetstationid	SMTTimeStamp, SMTTransitionTimeStamp, SMTSetCount OPTIONAL, SMTLastSetStationId OPTIONAL	}

ASN.1 Type Definition			
Type Name : SMTTimeStamp **Comments :** SMT attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length TimeStamp	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..18446744073709551615)	--8 octets-- }

ASN.1 Type Definition			
Type Name : SMTTransitionTimeStamp **Comments :** SMT attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length TransitionTimeStamp	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..18446744073709551615)	--8 octets-- }

ASN.1 Type Definition			
Type Name : SMTSetCount **Comments :** SMT attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Count SetTimeStamp	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), INTEGER(0..4294967295), --4 octets-- INTEGER(0..18446744073709551615)	--8 octets-- }

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ASN.1 Type Definition		
Type Name : SMTLastSetStationId **Comments :** SMT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ImplementerOctet	OCTETSTRING(SIZE(2)),
	LastSetStation_Address	OCTETSTRING(SIZE(6)) }

ASN.1 Type Definition		
Type Name : SMTVendorAttrib **Comments :** SMT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

10.2.3.2 ASN.1 Type Definitions for MAC Attributes

ASN.1 Type Definition		
Type Name : MACGrp **Comments :** MAC attribute group.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	Parameter_Value	ANY --MAC attribute group-- }

10.2.3.2.1 MAC Capabilities Group Attributes

ASN.1 Type Definition		
Type Name : MACCapabilitiesGrp **Comments :** MAC attribute group.		
Type Definition		
SET	{framestatusfunctions	MACFrameStatusFunctions,
	bridgefunctions	MACBridgeFunctions OPTIONAL,
	tmaxcapability	MACT_MaxCapability,
	tvxcapability	MACTVXCapability }

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ASN.1 Type Definition		
Type Name : MACFrameStatusFunctions **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	FrameStatusFunctions	FS_Functions --2 octets-- }

ASN.1 Type Definition		
Type Name : MACBridgeFunctions **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)) OPTIONAL,
	BridgeFunctions	BridgeType OPTIONAL --2 octets-- }

ASN.1 Type Definition		
Type Name : MACT_MaxCapability **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	T_MaxCapability	OCTETSTRING(SIZE(4)) --TimerTwosComplement--
}		

ASN.1 Type Definition		
Type Name : MACTVXCapability **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	TVXCapability	OCTETSTRING(SIZE(4)) --TimerTwosComplement-- }

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10.2.3.2.2 MAC Configuration Group Attributes

ASN.1 Type Definition		
Type Name : MACConfigGrp **Comments :** MAC attribute group.		
Type Definition		
SET	{availablepaths	MACAvailablePaths,
	currentpath	MACCurrentPath,
	upstreamnbr	MACUpstreamNbr
	downstreamnbr	MACDownstreamNbr,
	oldupstreamnbr	MACOldUpstreamNbr,
	olddownstreamnbr	MACOldDownstreamNbr,
	dupaddresstest	MACDupAddressTest,
	requestedpaths	MACRequestedPaths,
	downstreamporttype	MACDownstreamPORTType,
	macindex	MACIndex }

ASN.1 Type Definition		
Type Name : MACAvailablePaths **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	AvailablePaths	AvailablePathsType --1 octet-- }

ASN.1 Type Definition		
Type Name : MACCurrentPath **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	CurrentPath	CurrentPathType --2 octets-- }

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ASN.1 Type Definition			
Type Name : MACUpstreamNbr **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	Resource_Index	OCTETSTRING(SIZE(4)),	
	PAD2	OCTETSTRING(SIZE(2)),	
	UpstreamNbr_Address	OCTETSTRING(SIZE(6))	}

ASN.1 Type Definition			
Type Name : MACDownstreamNbr **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	Resource_Index	OCTETSTRING(SIZE(4)),	
	PAD2	OCTETSTRING(SIZE(2)),	
	DownstreamNbr_Address	OCTETSTRING(SIZE(6))	}

ASN.1 Type Definition			
Type Name : MACOldUpstreamNbr **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	Resource_Index	OCTETSTRING(SIZE(4)),	
	PAD2	OCTETSTRING(SIZE(2)),	
	OldUpstreamNbr_Address	OCTETSTRING(SIZE(6))	}

ASN.1 Type Definition			
Type Name : MACOldDownstreamNbr **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),	
	Parameter_Length	OCTETSTRING(SIZE(2)),	
	Resource_Index	OCTETSTRING(SIZE(4)),	
	PAD2	OCTETSTRING(SIZE(2)),	
	OldDownstreamNbr_Address	OCTETSTRING(SIZE(6))	}

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ASN.1 Type Definition		
Type Name : MACDupAddressTest **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	DupAddressTestType	DupAddressTest --2 octets-- }

ASN.1 Type Definition		
Type Name : MACRequestedPaths **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	RequestedPaths	PermittedPaths --1 octet-- }

ASN.1 Type Definition		
Type Name : MACDownstreamPORTType **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	DownstreamPORTType	PortTypeType --2 octets-- }

ASN.1 Type Definition		
Type Name : MACIndex **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	MACIndx	INTEGER(0..65535) --2 octets-- }

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10.2.3.2.3 MAC Address Group Attributes

ASN.1 Type Definition		
Type Name : MACAddressGrp **Comments :** MAC attribute group.		
Type Definition		
SET {smtaddress longgrpaddress shortgrpaddress	MACSMTAddress, MACLongGrpAddress OPTIONAL, MACShortGrpAddress OPTIONAL	}

ASN.1 Type Definition		
Type Name : MACSMTAddress **Comments :** MAC attribute.		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length Resource_Index PAD2 SMTAddress	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(6))	}

ASN.1 Type Definition		
Type Name : MACLongGrpAddress **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length Resource_Index LongGrpAddress	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), LongAddressSet	}

ASN.1 Type Definition		
Type Name : MACShortGrpAddress **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE {Parameter_Type Parameter_Length Resource_Index ShortGrpAddress	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), ShortAddressSet	}

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10.2.3.2.4 MAC Operation Group Attributes

ASN.1 Type Definition
Type Name : MACOperationGrp **Comments :** MAC attribute group.
Type Definition

```
SET     {treq           MACT_Req,
         tneg           MACT_Neg,
         tmax           MACT_Max,
         tvxvalue       MACTvxValue,
         tpri0          MACT_Pri OPTIONAL,
         tpri1          MACT_Pri OPTIONAL,
         tpri2          MACT_Pri OPTIONAL,
         tpri3          MACT_Pri OPTIONAL,
         tpri4          MACT_Pri OPTIONAL,
         tpri5          MACT_Pri OPTIONAL,
         tpri6          MACT_Pri OPTIONAL   }
```

ASN.1 Type Definition
Type Name : MACT_Req **Comments :** MAC attribute.
Type Definition

```
SEQUENCE    {Parameter_Type     OCTETSTRING(SIZE(2)),
             Parameter_Length   OCTETSTRING(SIZE(2)),
             Resource_Index     OCTETSTRING(SIZE(4)),
             T_ReqType          OCTETSTRING(SIZE(4))    --TimerTwosComplement--   }
```

ASN.1 Type Definition
Type Name : MACT_Neg **Comments :** MAC attribute.
Type Definition

```
SEQUENCE    {Parameter_Type     OCTETSTRING(SIZE(2)),
             Parameter_Length   OCTETSTRING(SIZE(2)),
             Resource_Index     OCTETSTRING(SIZE(4)),
             T_NegType          OCTETSTRING(SIZE(4))    --TimerTwosComplement--   }
```

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ASN.1 Type Definition			
Type Name : MACT_Max **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index T_MaxType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(4))	--TimerTwosComplement-- }

ASN.1 Type Definition			
Type Name : MACTvxValue **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index TvxValueType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(4))	--TimerTwosComplement-- }

ASN.1 Type Definition			
Type Name : MACT_Pri **Comments :** MAC attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index T_PriType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(4))	--TimerTwosComplement-- }

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10.2.3.2.5 MAC Counters Group Attributes

ASN.1 Type Definition
Type Name : MACCounters_Group **Comments :** MAC attribute group.
Type Definition
SET {framect MACFrame_Ct, copiedct MACCopied_Ct, transmitct MACTransmit_Ct, tokenct MACToken_Ct OPTIONAL, errorct MACError_Ct, lostct MACLost_Ct, tvxexpiredct MACTvxExpired_Ct OPTIONAL, notcopiedct MACNotCopied_Ct OPTIONAL, latect MACLate_Ct OPTIONAL, ringopct MACRingOp_Ct OPTIONAL }

ASN.1 Type Definition
Type Name : MACFrame_Ct **Comments :** MAC attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), Resource_Index OCTETSTRING(SIZE(4)), Frame_Ct INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition
Type Name : MACCopied_Ct **Comments :** MAC attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), Resource_Index OCTETSTRING(SIZE(4)), Copied_Ct INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition
Type Name : MACTransmit_Ct **Comments :** MAC attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), Resource_Index OCTETSTRING(SIZE(4)), Transmit_Ct INTEGER(0..4294967295) --4 octets-- }

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ASN.1 Type Definition			
Type Name : MACToken_Ct **Comments :** MAC attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index Token_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	--4 octets-- }

ASN.1 Type Definition			
Type Name : MACError_Ct **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index Error_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	--4 octets-- }

ASN.1 Type Definition			
Type Name : MACLost_Ct **Comments :** MAC attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index Lost_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	--4 octets-- }

ASN.1 Type Definition			
Type Name : MACTvxExpired_Ct **Comments :** MAC attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index TvxExpired_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	--4 octets-- }

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ASN.1 Type Definition		
Type Name : MACNotCopied_Ct **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index NotCopied_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : MACLate_Ct **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index Late_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : MACRingOp_Ct **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index RingOp_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295) --4 octets-- }

10.2.3.2.6 MAC Frame Error Condition Group Attributes

ASN.1 Type Definition		
Type Name : MACFrameErrorConditionGrp **Comments :** MAC attribute group.		
Type Definition		
SET	{frameerrorthreshold frameerrorratio	MACFrameErrorThreshold, MACFrameErrorRatio }

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ASN.1 Type Definition		
Type Name : MACFrameErrorThreshold **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	FrameErrorThreshold	INTEGER(0..65535) --2 octets-- }

ASN.1 Type Definition		
Type Name : MACFrameErrorRatio **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	FrameErrorRatio	INTEGER(0..65535) --2 octets-- }

10.2.3.2.7 MAC Not Copied Condition Group Attributes

ASN.1 Type Definition		
Type Name : MACNotCopiedConditionGrp **Comments :** MAC attribute group. This group is optional.		
Type Definition		
SET	{macnotcopiedthreshold	MACNotCopiedThreshold OPTIONAL,
	macnotcopiedratio	MACNotCopiedRatio OPTIONAL }

ASN.1 Type Definition		
Type Name : MACNotCopiedThreshold **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	NotCopiedThreshold	INTEGER(0..65535) --2 octets-- }

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ASN.1 Type Definition		
Type Name : MACNotCopiedRatio **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD	OCTETSTRING(SIZE(2)),
	NotCopiedRatio	INTEGER(0..65535) --2 octets-- }

10.2.3.2.8 MAC Status Group Attributes

ASN.1 Type Definition		
Type Name : MACStatusGrp **Comments :** MAC attribute group.		
Type Definition		
SET	{rmtstate	MACRMTState,
	daflag	MACDA_Flag,
	undaflag	MACUNDA_Flag,
	frameerrorflag	MACFrameErrorFlag,
	notcopiedflag	MACNotCopiedFlag OPTIONAL
	unitdataavailable	MACMA_UnitDataAvailable,
	hardwarepresent	MACHardwarePresent,
	maunitdataenable	MACMA_UnitdataEnable }

ASN.1 Type Definition		
Type Name : MACRMTState **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	RMTStateType	RMTState --2 octets-- }

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ASN.1 Type Definition		
Type Name : MACDA_Flag **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	DA_Flag	BOOLEAN }

ASN.1 Type Definition		
Type Name : MACUNDA_Flag **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	UNDA_Flag	BOOLEAN }

ASN.1 Type Definition		
Type Name : MACFrameErrorFlag **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	FrameErrorFlag	BOOLEAN DEFAULT FALSE }

ASN.1 Type Definition		
Type Name : MACNotCopiedFlag **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	NotCopiedFlag	BOOLEAN DEFAULT FALSE }

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ASN.1 Type Definition		
Type Name : MACMA_UnitdataAvailable **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MA_UnitdataAvailable	BOOLEAN }

ASN.1 Type Definition		
Type Name : MACHardwarePresent **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	HWPresent	Present --2 octets-- }

ASN.1 Type Definition		
Type Name : MACMA_UnitdataEnable **Comments :** MAC attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MA_UnitdataEnable	BOOLEAN DEFAULT TRUE }

ASN.1 Type Definition		
Type Name : MACVendorAttrib **Comments :** MAC attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

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10.2.3.3 ASN.1 Type Definitions for PATH Attributes

ASN.1 Type Definition
Type Name : PATHGrp **Comments :** PATH attribute group.

Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	Parameter_Value	ANY --PATH attribute group--

ASN.1 Type Definition
Type Name : PATHConfigGrp **Comments :** PATH attribute group.

Type Definition		
SET	{index	PATHIndex,
	ringlatency	PATHRingLatency OPTIONAL,
	tracestatus	PATHTraceStatus OPTIONAL,
	sbapayload	PATHSbaPayload OPTIONAL,
	sbaoverhead	PATHSbaOverhead OPTIONAL,
	configuration	PATHConfiguration,
	trmode	PATHT_Rmode OPTIONAL,
	sbaavailable	PATHSbaAvailable OPTIONAL,
	tvxlowerbound	PATHTVXLowerBound,
	tmaxlowerbound	PATHT_MaxLowerBound,
	maxtreq	PATHMaxT_Req }

ASN.1 Type Definition
Type Name : PATHIndex **Comments :** PATH attribute.

Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	Index	INTEGER(0..65535) --2 octets--
	--Primary(1); Secondary(2); Local(3..255)-- }	

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ASN.1 Type Definition			
Type Name : PATHRingLatency **Comments :** PATH attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index RingLatency	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	 --4 octets-- }

ASN.1 Type Definition			
Type Name : PATHTraceStatus **Comments :** PATH attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index PAD2 TraceStatusType	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(2)), TraceStatus	 --2 octets-- }

ASN.1 Type Definition			
Type Name : PATHSbaPayload **Comments :** PATH attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index SbaPayload	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	 --4 octets-- }

ASN.1 Type Definition			
Type Name : PATHSbaOverhead **Comments :** PATH attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index SbaOverhead	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295)	 --4 octets-- }

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ASN.1 Type Definition		
Type Name : PATHConfiguration **Comments :** PATH attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	Configuration	PathConfig }

ASN.1 Type Definition		
Type Name : PATHT_Rmode **Comments :** PATH attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	T_RmodeType	INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : PATHSbaAvailable **Comments :** PATH attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	SbaAvailable	INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : PATHTVXLowerBound **Comments :** PATH attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	TVXLowerBound	OCTETSTRING(SIZE(4)) --TimerTwosComplement--
}		

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ASN.1 Type Definition			
Type Name : PATHTT_MaxLowerBound **Comments :** PATH attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index T_MaxLowerBound }	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(4))	--TimerTwosComplement--

ASN.1 Type Definition			
Type Name : PATHMaxT_Req **Comments :** PATH attribute.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index MaxT_Req	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(4))	--TimerTwosComplement-- }

ASN.1 Type Definition			
Type Name : PATHVendorAttrib **Comments :** PATH attribute. This attribute is optional.			
Type Definition			
SEQUENCE	{Parameter_Type Parameter_Length ManufacturerOUI VendorOctet VendorData	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(3)), OCTETSTRING(SIZE(1)), SpecificData }	

10.2.3.4 ASN.1 Type Definitions for PORT Attributes

ASN.1 Type Definition			
Type Name : PORTGrp **Comments :** PORT attribute group.			
Type Definition			
SEQUENCE	{ Parameter_Type Parameter_Length Resource_Index Parameter_Value	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), ANY	--PORT attribute group--}

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10.2.3.4.1 PORT Configuration Group Attributes

ASN.1 Type Definition
Type Name : PORTConfigGrp **Comments :** PORT attribute group.
Type Definition
SET {mytype PORTMyType, neighbortype PORTNeighborType, connectionpolicies PORTConnectionPolicies, macindicated PORTMACIndicated, currentpath PORTCurrentPath, requestedpath PORTRequestedPaths, macplacement PORTMACPlacement, availablepath PORTAvailablePaths, macllooptime PORTMACLoop_Time OPTIONAL, pmdclass PORTPMDClass, connectioncapabilities PORTConnectionCapabilities, index PORTIndex }

ASN.1 Type Definition
Type Name : PORTMyType **Comments :** PORT attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), Resource_Index OCTETSTRING(SIZE(4)), PAD2 OCTETSTRING(SIZE(2)), MyType PortTypeType --2 octets-- }

ASN.1 Type Definition
Type Name : PORTNeighborType **Comments :** PORT attribute.
Type Definition
SEQUENCE {Parameter_Type OCTETSTRING(SIZE(2)), Parameter_Length OCTETSTRING(SIZE(2)), Resource_Index OCTETSTRING(SIZE(4)), PAD2 OCTETSTRING(SIZE(2)), NeighborType PortTypeType --2 octets-- }

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ASN.1 Type Definition		
Type Name : PORTConnectionPolicies **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConnectionPoliciesType	ConnectionPolicies --1 octet-- }

ASN.1 Type Definition		
Type Name : PORTMACIndicated **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2))
	T_Val9	BOOLEAN,
	R_Val9	BOOLEAN }

ASN.1 Type Definition		
Type Name : PORTCurrentPath **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	CurrentPath	CurrentPathType --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTRequestedPaths **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	RequestedPaths	RequestedPathsType --4 octets-- }

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ASN.1 Type Definition		
Type Name : PORTMACPlacement **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	MACPlacement	INTEGER(0..65535) --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTAvailablePaths **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	AvailablePaths	AvailablePathsType --1 octet-- }

ASN.1 Type Definition		
Type Name : PORTMACLoop_Time **Comments :** PORT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	MACLoopTime	INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : PORTPMDClass **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PMDClassType	PMDClass --2 octets-- }

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ASN.1 Type Definition		
Type Name : PORTConnectionCapabilities **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConnectionCapabilities	ConnectionPolicies --1 octet-- }

ASN.1 Type Definition		
Type Name : PORTIndex **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PortIndx	INTEGER(0..65535) --2 octets-- }

10.2.3.4.2 PORT Operation Group Attributes

ASN.1 Type Definition		
Type Name : PORTOperationGrp **Comments :** PORT attribute group.		
Type Definition		
SET	{maintls	PORTMaint_LS OPTIONAL,
	bsflag	PORTBS_Flag,
	pcls	PORTPC_LS OPTIONAL }

ASN.1 Type Definition		
Type Name : PORTMaint_LS **Comments :** PORT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	Maint_LS	LineState --2 octets-- }

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ASN.1 Type Definition		
Type Name : PORTBS_Flag **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	BS_Flag	BOOLEAN }

ASN.1 Type Definition		
Type Name : PORTPC_LS **Comments :** PORT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PC_LS	LineState --2 octets-- }

10.2.3.4.3 PORT Error Counters Group Attributes

ASN.1 Type Definition		
Type Name : PORTErrorCtrsGrp **Comments :** PORT attribute group.		
Type Definition		
SET	{eberrorct	PORTEBError_Ct OPTIONAL,
	lctfailct	PORTLCTFail_Ct }

ASN.1 Type Definition		
Type Name : PORTEBError_Ct **Comments :** PORT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	EBError_Ct	INTEGER(0..4294967295) --4 octets-- }

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ASN.1 Type Definition		
Type Name : PORTLCTFail_Ct **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	LCTFail_Ct	INTEGER(0..4294967295) --4 octets-- }

10.2.3.4.4 PORT LER Group Attributes

ASN.1 Type Definition		
Type Name : PORTLerGrp **Comments :** PORT attribute group.		
Type Definition		
SET	{lerestimate	PORTLer_Estimate,
	lemrejectct	PORTLem_Reject_Ct,
	lemct	PORTLem_Ct,
	lercutoff	PORTLer_Cutoff,
	leralarm	PORTLer_Alarm }

ASN.1 Type Definition		
Type Name : PORTLer_Estimate **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	Ler_Estimate	INTEGER(0..255) --1 octet-- }

ASN.1 Type Definition		
Type Name : PORTLem_Reject_Ct **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	Lem_Reject_Ct	INTEGER(0..4294967295) --4 octets-- }

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ASN.1 Type Definition		
Type Name : PORTLem_Ct **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index Lem_Ct	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : PORTLer_Cutoff **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index PAD3 Ler_Cutoff	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(3)), INTEGER(0..255) --1 octet-- }

ASN.1 Type Definition		
Type Name : PORTLer_Alarm **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length Resource_Index PAD3 Ler_Alarm	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(4)), OCTETSTRING(SIZE(3)), INTEGER(0..255) --1octet-- }

10.2.3.4.5 PORT Status Group Attributes

ASN.1 Type Definition		
Type Name : PORTStatusGrp **Comments :** PORT attribute group.		
Type Definition		
SET	{connectstate pcmstate pcwithhold lerflag hardwarepresent	PORTConnectState, PORTPCMState, PORTPC_Withhold, PORTLerFlag, PORTHardwarePresent }

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ASN.1 Type Definition		
Type Name : PORTConnectState **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	ConnectStateType	ConnectState --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTPCMState **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PCMStateType	PCMState --2 octet-- }

ASN.1 Type Definition		
Type Name : PORTPC_Withhold **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PC_WithholdType	PC_Withhold --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTLerFlag **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	LerFlag	BOOLEAN }

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ASN.1 Type Definition		
Type Name : PORTHardwarePresent **Comments :** PORT attribute.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	HWPresent	Present --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTVendorAttrib **Comments :** PORT attribute. This attribute is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

10.2.3.5 ASN.1 Type Definitions for Actions and Notifications

10.2.3.5.1 Actions

ASN.1 Type Definition		
Type Name : SMTStationAction **Comments :** SMT action.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD2	OCTETSTRING(SIZE(2)),
	SMTAction	ActionInfo --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTVendorAction **Comments :** SMT action. This action is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

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ASN.1 Type Definition		
Type Name : MACVendorAction **Comments :** MAC action. This action is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

ASN.1 Type Definition		
Type Name : PATHVendorAction **Comments :** PATH action. This action is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

ASN.1 Type Definition		
Type Name : PORTAction **Comments :** PORT action.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD2	OCTETSTRING(SIZE(2)),
	PortAction	ActionType --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTVendorAction **Comments :** PORT action. This action is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	ManufacturerOUI	OCTETSTRING(SIZE(3)),
	VendorOctet	OCTETSTRING(SIZE(1)),
	VendorData	SpecificData }

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10.2.3.5.2 Notifications

ASN.1 Type Definition		
Type Name : SMTHoldCondition **Comments :** SMT notification. This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	PAD2	OCTETSTRING(SIZE(2)),
	HoldCondition	HoldState --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTPeerWrapCondition **Comments :** SMT notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	PAD2	OCTETSTRING(SIZE(2)),
	PeerWrapCondition	CF_State --2 octets-- }

ASN.1 Type Definition		
Type Name : SMTVendorNotification **Comments :** SMT notification. This notation is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	SMTVendor	VendorType }

ASN.1 Type Definition		
Type Name : MACDuplicateAddressCondition **Comments :** MAC notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	PAD2	OCTETSTRING(SIZE(2)),
	DupCondition	DupConditionType, --2 octets--
	LongAddress	OCTETSTRING(SIZE(6)),
	UNALong	OCTETSTRING(SIZE(6)) }

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ASN.1 Type Definition		
Type Name : MACFrameErrorCondition **Comments :** MAC notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	Frame_Ct	INTEGER(0..4294967295), --4 octets--
	Error_Ct	INTEGER(0..4294967295),
	Lost_Ct	INTEGER(0..4294967295),
	PAD2	OCTETSTRING(SIZE(2)),
	FrameErrorRatio	INTEGER(0..65535) --2octets--}

ASN.1 Type Definition		
Type Name : MACNotCopiedCondition **Comments :** MAC notification. This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	NotCopied_Ct	INTEGER(0..4294967295), --4 octets--
	Copied_Ct	INTEGER(0..4294967295),
	PAD2	OCTETSTRING(SIZE(2)),
	NotCopiedRatio	INTEGER(0..65535) --2octets--}

ASN.1 Type Definition		
Type Name : MACNeighborChangeEvent **Comments :** MAC notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MultipleOccurrence	BOOLEAN,
	PAD3	OCTETSTRING(SIZE(3)),
	NACondition	NAConditionType, --1 octet--
	Old_UNA	OCTETSTRING(SIZE(6)),
	New_UNA	OCTETSTRING(SIZE(6)),
	Old_DNA	OCTETSTRING(SIZE(6)),
	New_DNA	OCTETSTRING(SIZE(6)),
	CurrentPath	CurrentPathType, --2 octets--
	SMTAddress	OCTETSTRING(SIZE(6)), }

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ASN.1 Type Definition		
Type Name : MACPathChangeEvent **Comments :** MAC notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MultipleOccurrence	BOOLEAN,
	PAD1	OCTETSTRING(SIZE(1)),
	AvailablePaths	AvailablePathsType, --1 octet--
	CurrentPath	CurrentPathType, --2 octets--
	PAD3	OCTETSTRING(SIZE(3)),
	RequestedPaths	PermittedPaths --1 octet-- }

ASN.1 Type Definition		
Type Name : MACVendorNotification **Comments :** MAC notification. This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	MACVendor	VendorType }

ASN.1 Type Definition		
Type Name : PATHVendorNotification **Comments :** PATH notification. This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	PATHVendor	VendorType }

ASN.1 Type Definition		
Type Name : PORTLerCondition **Comments :** PORT notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	PAD1	OCTETSTRING(SIZE(1)),
	Ler_Cutoff	INTEGER(0..255), --1 octet--
	Ler_Alarm	INTEGER(0..255),
	Ler_Estimate	INTEGER(0..255),
	Ler_Reject_Ct	INTEGER(0..4294967295), --4 octets--
	Ler_Ct	INTEGER(0..4294967295) }

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ASN.1 Type Definition		
Type Name : PORTUndesiredConnectionAttemptEvent **Comments :** PORT notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MultipleOccurrence	BOOLEAN,
	PortType	PortTypeType, --2 octets--
	ConnectStateType	ConnectState, --2 octets--
	PC_Neighbor	PortTypeType,
	PC_WithholdType	PC_Withhold --2 octets-- }

ASN.1 Type Definition		
Type Name : PORTEBErrorCondition **Comments :** PORT notification. This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	ConditionState	BOOLEAN,
	EBErrorCount	INTEGER(0..4294967295) --4 octets-- }

ASN.1 Type Definition		
Type Name : PORTPathChangeEvent **Comments :** PORT notification.		
Type Definition		
SEQUENCE	{Parameter_Type	OCTETSTRING(SIZE(2)),
	Parameter_Length	OCTETSTRING(SIZE(2)),
	Resource_Index	OCTETSTRING(SIZE(4)),
	PAD3	OCTETSTRING(SIZE(3)),
	MultipleOccurrence	BOOLEAN,
	PAD1	OCTETSTRING(SIZE(1)),
	AvailablePaths	AvailablePathsType, --1 octet--
	CurrentPath	CurrentPathType, --2 octets--
	RequestedPaths	RequestedPathsType, --4 octets--
	MyType	PortTypeType, --2 octet--
	NeighborType	PortTypeType }

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ASN.1 Type Definition		
Type Name : PORTVendorNotification **Comments :** PORT notification This notification is optional.		
Type Definition		
SEQUENCE	{Parameter_Type Parameter_Length PORTVendor	OCTETSTRING(SIZE(2)), OCTETSTRING(SIZE(2)), VendorType }

10.2.3.6 ASN.1 Common Type Definitions

ASN.1 Type Definition	
Type Name : ActionInfo **Comments :** Common type definition.	
Type Definition	
ENUMERATED	{connect(0), disconnect(1), path_test(2), self_test(3), disable_a(4), disable_b(5), disable_m(6) }

ASN.1 Type Definition		
Type Name : ActionType **Comments :** Common type definition.		
Type Definition		
ENUMERATED	{mainport(0), enableport(1), disableport(2), startport(3), stopport(4)	-- signal PC_Maint -- signal PC_Enable -- signal PC_Disable -- signal PC_Start -- signal PC_Stop }

ASN.1 Type Definition
Type Name : AvailablePathsType **Comments :** Common type definition.
Type Definition
[8] IMPLICIT BITSTRING {primary(0), secondary(1), local(2)} --(SIZE(8))--

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ASN.1 Type Definition
Type Name : BridgeType **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {tb(0), --Transparent Bridging Active-- sr(1), --Source Routing Active-- srt(2) --Source Routing Transparent Active-- } --(SIZE(16))--

ASN.1 Type Definition
Type Name : Capabilities **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {holdavailable(0), cf_wrap_ab(1) } (SIZE(16))--

ASN.1 Type Definition
Type Name : CF_State **Comments :** Common type definition.
Type Definition
ENUMERATED {isolated(0), local_a(1), local_b(2), local_ab(3), local_s(4), wrap_a(5), wrap_b(6), wrap_ab(7), wrap_s(8), c_wrap_a(9), c_wrap_b(10), c_wrap_s(11), thru(12) }

ASN.1 Type Definition
Type Name : ConfigPolicyType **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {configurationhold(0) } --(SIZE(16))--

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ASN.1 Type Definition
Type Name : Connection **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {rejectA_A(0), rejectA_B(1), rejectA_S(2), rejectA_M(3), rejectB_A(4), rejectB_B(5), rejectB_S(6), rejectB_M(7), rejectS_A(8), rejectS_B(9), rejectS_S(10), rejectS_M(11), rejectM_A(12), rejectM_B(13), rejectM_S(14), rejectM_M(15) } --(SIZE(16))-- -- Note that bit 15, reject M-M, is always set and cannot be cleared --

ASN.1 Type Definition
Type Name : ConnectionType **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {rejectA_A(0), rejectB_B(1), rejectS_S(2), rejectA_M(3), rejectB_M(4), rejectA_S(5), rejectB_S(6), rejectA_B(7), rejectB_A(8), rejectS_A(9), rejectS_B(10), rejectS_M(11), rejectM_A(12), rejectM_B(13), rejectM_S(14), rejectM_M(15) } --(SIZE(16))-- -- Note that bit 15, reject M-M, is always set and cannot be cleared --

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ASN.1 Type Definition
Type Name : ConnectionPolicies **Comments :** Common type definition.
Type Definition
[8] IMPLICIT BITSTRING {pc_mac_lct(0), pc_mac_loop(1) } --(SIZE(8))--

ASN.1 Type Definition
Type Name : ConnectState **Comments :** Common type definition.
Type Definition
ENUMERATED {disabled(0), connecting(1), standby(2), active(3) }

ASN.1 Type Definition
Type Name : CurrentPathType **Comments :** Common type definition.
Type Definition
ENUMERATED {isolated(0), local(1), secondary(2), primary(3), concatenated(4), thru(5) }

ASN.1 Type Definition
Type Name : DupAddressTest **Comments :** Common type definition.
Type Definition
ENUMERATED {none(0), pass(1), fail(2) }

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ASN.1 Type Definition
Type Name : DuplAddressType **Comments :** Common type definition.
Type Definition
[8] IMPLICIT BITSTRING {MyDuplicate(0), --value of fddiMACDA_Flag for this MAC-- MyUNADuplicate(1) --value of fddiMACUNDA_Flag for this MAC--} --(SIZE(8))--

ASN.1 Type Definition
Type Name : DupConditionType **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {mydup(0), --DA_Flag-- unadup(1) --UNDA_Flag-- } --(SIZE(16))--

ASN.1 Type Definition
Type Name : ECMState **Comments :** Common type definition.
Type Definition
ENUMERATED {ec0(0), --Out-- ec1(1), --In-- ec2(2), --Trace-- ec3(3), --Leave-- ec4(4), --Path_Test-- ec5(5), --Insert-- ec6(6), --Check-- ec7(7) --Deinsert-- }

ASN.1 Type Definition
Type Name : FS_Functions **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {fs_repeating(0), fs_setting(1), fs_clearing(2) } --(SIZE(16))--

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ASN.1 Type Definition	
Type Name : HoldState **Comments :** Common type definition.	
Type Definition	
ENUMERATED	{not_holding(0), holding_prm(1), -- holding on primary-- holding_sec(2) -- holding on secondary-- }

ASN.1 Type Definition			
Type Name : Indexes **Comments :** Common type definition.			
Type Definition			
SET OF	{ ResourceId	INTEGER(0..65535)	--2 octets-- }

ASN.1 Type Definition		
Type Name : LineState **Comments :** Common type definition.		
Type Definition		
ENUMERATED	{qls(0),	-- quiet--
	ils(1),	-- idle--
	mls(2),	-- master--
	hls(3),	-- halt--
	pdr(4),	-- receive = active, transmit = PDR--
	lsu(5),	-- receive = unknown--
	nls(6)	-- receive = noise-- }

ASN.1 Type Definition		
Type Name : LongAddressSet **Comments :** Common type definition.		
Type Definition		
SET OF	{LongAddressType	OCTETSTRING(SIZE(6))}

ASN.1 Type Definition		
Type Name : NAConditionType **Comments :** Common type definition.		
Type Definition		
[8] IMPLICIT BITSTRING		
	{unachange(0),	
	dnachange(1) }	--(SIZE(8))--

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ASN.1 Type Definition
Type Name : PathConfig **Comments :** Common type definition.
Type Definition
SEQUENCE OF {ResourceTagType ResourceTag}

ASN.1 Type Definition		
Type Name : PCMState **Comments :** Common type definition.		
Type Definition		
ENUMERATED	{pc0(0), pc1(1), pc2(2), pc3(3), pc4(4), pc5(5), pc6(6), pc7(7), pc8(8), pc9(9)	-- Off-- -- Break-- -- Trace-- -- Connect-- -- Next-- -- Signal-- -- Join-- -- Verify-- -- Active-- -- Maint--}

ASN.1 Type Definition	
Type Name : PC_Withhold **Comments :** Common type definition.	
Type Definition	
ENUMERATED	{none(0), m_m(1), otherincompatible(2), pathnotavailable(3)}

ASN.1 Type Definition	
Type Name : PermittedPaths **Comments :** Common type definition.	
Type Definition	
[8] IMPLICIT BITSTRING {local(0), secondary_alternate(1), primary_alternate(2), concatenate_alternate(3), secondary_preferred(4), primary_preferred(5), concatenated_preferred(6), thru(7) }	--(SIZE(8))--

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ASN.1 Type Definition	
Type Name : PMDClass **Comments :** Common type definition.	
Type Definition	
EMUNERATED	{multimode(0), single_mode1(1), single_mode2(2), sonet(3), low_cost_fiber(4), twisted_pair(5), unknown(6), unspecified(7) }

ASN.1 Type Definition	
Type Name : PortTypeType **Comments :** Common type definition.	
Type Definition	
ENUMERATED	{a(0), b(1), s(2), m(3), none(4) }

ASN.1 Type Definition	
Type Name : Present **Comments :** Common type definition.	
Type Definition	
ENUMERATED	{notpresent(0), present(1) }

ASN.1 Type Definition		
Type Name : RequestedPathsType **Comments :** Common type definition.		
Type Definition		
SEQUENCE	{none tree peer	PermittedPaths, PermittedPaths, PermittedPaths }

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ASN.1 Type Definition
Type Name : ResourceTag **Comments :** Common type definition.
Type Definition
SEQUENCE {resource_type ResourceType, --2 octets-- resource_index INTEGER(0..65535), --2 octets-- current_path CurrentPathType --2 octets-- }

ASN.1 Type Definition
Type Name : ResourceType **Comments :** Common type definition.
Type Definition
ENUMERATED {mac(2), port(4) --2 octets-- }

ASN.1 Type Definition
Type Name : RMTState **Comments :** Common type definition.
Type Definition
ENUMERATED {rm0(0), -- Isolated-- rm1(1), -- Non_Op-- rm2(2), -- Ring_Op-- rm3(3), -- Detect-- rm4(4), -- Non_Op_Dup-- rm5(5), -- Ring_Op_Dup-- rm6(6), -- Directed-- rm7(7) -- Trace-- }

ASN.1 Type Definition
Type Name : ShortAddressSet **Comments :** Common type definition.
Type Definition
SET OF {ShortAddressType OCTETSTRING(SIZE(2))}

ASN.1 Type Definition
Type Name : SpecificData **Comments :** Common type definition.
Type Definition
SET {Data ANY } --The syntax for the data is defined by the vendor identified by the manufacturerOUI--

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ASN.1 Type Definition
Type Name : Status **Comments :** Common type definition.
Type Definition
ENUMERATED {concatenated(0), separated(1), thru(2) }

ASN.1 Type Definition
Type Name : TopologyType **Comments :** Common type definition.
Type Definition
[8] IMPLICIT BITSTRING {PeerWrap(0), UnattachedConcentrator(1), TwistedRing_AA(2), TwistedRing_BB(3), RootedStation(4), StatusReporting(5), --fddiSMTStatRptPolicy-- SynchronousService(6) --fddiPATHSbaOverhead--} --(SIZE(8))--

ASN.1 Type Definition
Type Name : TraceStatus **Comments :** Common type definition.
Type Definition
[16] IMPLICIT BITSTRING {traceinitiated(0), tracepropagated(1), traceterminated(2), tracetimeout(3) } --(SIZE(16))--

ASN.1 Type Definition
Type Name : VendorType **Comments :** Common type definition.
Type Definition
SET OF {VendorMIBType VMType }

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ASN.1 Type Definition
Type Name : VMType **Comments :** Common type definition.
Type Definition
SEQUENCE {ManufacturerOUI OCTETSTRING(SIZE(3)), VendorOctet OCTETSTRING(SIZE(1)), VendorData SpecificData }

10.2.3.7 SMT Information Field Type Definitions

10.2.3.7.1 NIF InfoField Type Definition

ASN.1 Type Definition
Type Name : NIF_Info **Comments :** NIF information field.
Type Definition
SET {upstreamneighboraddress UNA_GENERAL, stationdescriptor StationDescriptor_GENERAL, stationstate StationState_GENERAL, macframestatusfunctions MACFrameStatusFunctions }

10.2.3.7.2 SRF InfoField Type Definition

ASN.1 Type Definition
Type Name : SRF_Info **Comments :** SRF information field.
Type Definition
SET {timestamp SMTTimeStamp, transitiontimestamp SMTTransitionTimeStamp, eventcondition ANY --notifications-- }

10.2.3.7.3 PMF InfoField Type Definition

ASN.1 Type Definition
Type Name : PMFRequest_Info **Comments :** PMF request information field.
Type Definition
SET {authorization Authorization_GENERAL OPTIONAL, setcount SMTSetCount OPTIONAL, targetattribute ANY --an attribute to be modified or an action to be invoked. One attribute permitted per PMF set request.--}

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ASN.1 Type Definition
Type Name : PMFResponse_Info **Comments :** PMF response information field.
Type Definition
SET {reasoncode ReasonCode_GENERAL, timestamp SMTTimeStamp, setcount SMTSetCount OPTIONAL, --Included if PMF Set protocol is implemented-- lastsetstationid SMTLastSetStationId OPTIONAL, --Included if PMF Set protocol is implemented-- requestedinfo ANY --requested parameter(s)-- }

10.2.4 Test Suite Operation Definition

Test Suite Operation Definition
Operation Name : ECH_DATA(length: INTEGER) **Result Type** : OCTETSTRING **Comments** :
Description
ECH_DATA is an operator defined any length characters. For example: ECH_DATA(5) = “sgGer” ECH_DATA(21) = “Any Length Characters”

Test Suite Operation Definition
Operation Name : TIME(Value: INTEGER) **Result Type** : INTEGER **Comments** :
Description
TIME(Value) specifies octet units of 80 nanoseconds as an integer value where Value must be in milliseconds. For example: TIME(2ms) = (2x10E6) / 80 = 25,000 TIME(3ms) = (3x10E6) / 80 = 37,500

Test Suite Operation Definition
Operation Name : TTC(TIME(Value)) **Result Type** : INTEGER **Comments** :
Description
This operator will convert the integer TIME(Value) into two’s complement format.

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Test Suite Operation Definition	
Operation Name	: USR_DATA(Length: INTEGER)
Result Type	: OCTETSTRING
Comments	:
Description	
USR_DATA(Length) is an ASCII string of “Length” octets in length. For example: USR_DATA(5) = ASCII string of 5 octets in length. USR_DATA(10) = ASCII string of 10 octets in length. USR_DATA(32) = ASCII string of 32 octets in length.	

10.2.5 Test Suite Parameter Declarations

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
AvailablePaths_IUT	AvailablePathsType	PIXIT 5.1	Path types that are available in the IUT.
BridgeType_IUT	BridgeType	PIXIT 11	Bridge types present in the IUT.
Capabilities_IUT	Capabilities	PIXIT 7 & 8	Configuration capabilities that are supported by the IUT.
Connection_IUT	Connection	PIXIT 9	Connection policies in the IUT.
IUT_ADDRESS	OCTETSTRING	PIXIT 1.1	48-bit address assigned to IUT. MSB on the left.
TESTER_ADDRESS	OCTETSTRING	PIXIT 1.2	48-bit address assigned to the tester. MSB on the left.
OTHER_ADDRESS	OCTETSTRING	PIXIT 1.3	48-bit address assigned to a station other than IUT and tester. MSB on the left.
MANUF_OUI	OCTETSTRING	PIXIT 3.1	Manufacturer OUI, the three octet Organizationally Unique Identifier (OUI) assigned by IEEE.
MANUF_DATA	OCTETSTRING	PIXIT 3.2	32 octets of manufacturer data.
IUT_MACs	INTEGER	PIXIT 4.1.1	Number of MACs in the IUT (station or concentrator). This number includes MAC instances that are not supported by underlying hardware.
IUT_NonMasters	INTEGER	PIXIT 4.1.2	Number of A, B, and S ports in the IUT (station or concentrator). This number includes port instances that are not supported by underlying hardware.
IUT_Masters	INTEGER	PIXIT 4.1.3	Number of M ports in the IUT if IUT is a concentrator. This number includes port instances that are not supported by underlying hardware.
D_Max	INTEGER	PIXIT 2.5	Maximum ring latency that IUT supports (in milliseconds).
IUT_T_Max	INTEGER	PIXIT 2.6.1	Maximum Token-Rotation-Timer (TRT) of the IUT (in milliseconds).
TSTR_T_Max	INTEGER	PIXIT 2.6.2	Maximum TRT of the tester (in milliseconds).
IUT_TvxValue	INTEGER	PIXIT 2.7.1	Maximum Valid-Transmission-Timer (TVX) of the IUT (in milliseconds).
TSTR_TvxValue	INTEGER	PIXIT 2.7.2	Maximum TVX of the tester (in milliseconds).
Trace_Max	INTEGER	PIXIT 2.2	Maximum propagation time for a Trace on an FDDI topology (in seconds).

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
T_Limit	INTEGER	PIXIT 2.3	The rate-limiting interval for the Status Report protocol (in seconds).
T_Notify	INTEGER	PIXIT 2.1	The interval between successive iterations of the Neighbor Notification protocol (in seconds).
T_NN_Out	INTEGER	PIXIT 2.4	The maximum interval between successive NIF receptions from the upstream and downstream neighbors to maintain neighbor information validity (in seconds).
P_CurrentPath	CurrentPathType	PIXIT 6.2	Port Current Path. Path(s) into which this port is currently inserted.
P_Indx	INTEGER	PIXIT 2.8	Port Index. An index used to refer to an instance of a port Resource ID.
PORT_Indx	INTEGER	PIXIT 2.8	Port Index. An index used to refer to all instances of a port object.
M_Indx	INTEGER	PIXIT 2.9	MAC Index. An index used to refer to an instance of a MAC Resource ID.
M_Indx1	INTEGER	PIXIT 2.9	MAC Index. An index used to refer to the first instance of a MAC Resource ID.
MAC_Indx	INTEGER	PIXIT 2.9	Type of PMD entity associated with a port.
PMD_Type	PMDClass	PIXIT 10	Path types that are available in an IUT MAC.
MACAvailPaths	AvailablePathsType	PIXIT 5.2	Path type into which an IUT MAC is currently inserted.
MACCurrPath	CurrentPathType	PIXIT 6.1	48-Bit long group address of an IUT MAC.
LONG_GRP_ADD	OCTETSTRING	PIXIT 12.1	16-bit short group address of an IUT MAC.
SHORT_GRP_ADD	OCTETSTRING	PIXIT 12.2	T_Pri0 value that IUT supports (in milliseconds).
T_Pri0	INTEGER	PIXIT 13.1	T_Pri1 value that IUT supports (in milliseconds).
T_Pri1	INTEGER	PIXIT 13.2	T_Pri2 value that IUT supports (in milliseconds).
T_Pri2	INTEGER	PIXIT 13.3	T_Pri3 value that IUT supports (in milliseconds).
T_Pri3	INTEGER	PIXIT 13.4	T_Pri4 value that IUT supports (in milliseconds).
T_Pri4	INTEGER	PIXIT 13.5	T_Pri5 value that IUT supports (in milliseconds).
T_Pri5	INTEGER	PIXIT 13.6	T_Pri6 value that IUT supports (in milliseconds).
T_Pri6	INTEGER	PIXIT 13.7	Time for which a restricted dialogue may persist on the ring (in milliseconds).
T_Rmode	INTEGER	PIXIT 14	Time for MAC Local Loop to prevent deadlock (in milliseconds).
T_Next9	INTEGER	PIXIT 15	

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10.2.6 Test Suite Constant Declarations

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
JK	SYMBOL[2]	'1100010001'B	Start Delimiter
TT	SYMBOL[2]	'0110101101'B	End Delimiter
T	SYMBOL	'01101'B	T Symbol
I	SYMBOL	'11111'B	Idle symbol
SET	SYMBOL	'11001'B	SET Symbol
RESET	SYMBOL	'00111'B	RESET Symbol
PAD_1	OCTETSTRING	'00'H	
PAD_2	OCTETSTRING[2]	'0000'H	
PAD_3	OCTETSTRING[3]	'000000'H	
SMT_Directed_Beacon_DA	OCTETSTRING[6]	'800143008000'H	MSB Representation
SMT_SRF_DA	OCTETSTRING[6]	'800143008008'H	MSB Representation
All_FDDIConcentratorMACs	OCTETSTRING[6]	'800143008004'H	MSB Representation
SMT_SBA_DA	OCTETSTRING[6]	'80014300800C'H	MSB Representation
SMT_Unknown_Address	OCTETSTRING[6]	'00001F000000'H	MSB Representation
Broadcast	OCTETSTRING[6]	'FFFFFFFFFFFF'H	MSB Representation
LLC_DATA	OCTETSTRING[6]	'0123456789ABCDEF'H	

10.2.7 Test Suite Variable Declarations

Test Suite Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
NN_Transaction_ID	OCTETSTRING		Current Transaction_ID used by the Neighbor Notification protocol.
New_SetCount	OCTETSTRING		New SetCount used by the IUT (fddiSMTSetCount).
FRM_CT1	INTEGER(0..4294967295)		Initial Frame_Ct received by an IUT MAC.
FRM_CT2	INTEGER(0..4294967295)		Final Frame_Ct received by an IUT MAC.
CP_CT1	INTEGER(0..4294967295)		Initial Copied_Ct of an IUT MAC.
CP_CT2	INTEGER(0..4294967295)		Final Copied_Ct of an IUT MAC.
XMIT_CT1	INTEGER(0..4294967295)		Initial Transmit_Ct of an IUT MAC.
XMIT_CT2	INTEGER(0..4294967295)		Final Transmit_Ct of an IUT MAC.
TK_CT1	INTEGER(0..4294967295)		Initial Token_Ct of an IUT MAC.
TK_CT2	INTEGER(0..4294967295)		Final Token_Ct of an IUT MAC.
BAD_FCS	OCTETSTRING[8]		A bad Frame Check Sequence (FCS) generated by the tester for testing Error_Ct purpose.
ER_CT1	INTEGER(0..4294967295)		Initial Error_Ct of an IUT MAC.
ER_CT2	INTEGER(0..4294967295)		Final Error_Ct of an IUT MAC.
LST_CT1	INTEGER(0..4294967295)		Initial Lost_Ct of an IUT MAC.
LST_CT2	INTEGER(0..4294967295)		Final Lost_Ct of an IUT MAC.
TE_CT1	INTEGER(0..4294967295)		Initial TvxExpired_Ct.
TE_CT2	INTEGER(0..4294967295)		Final TvxExpired_Ct.
LT_CT1	INTEGER(0..4294967295)		Initial Late_Ct of an IUT MAC.
LT_CT2	INTEGER(0..4294967295)		Final Late_Ct of an IUT MAC.
R_Latency	INTEGER(0..4294967295)		Current accumulated latency of the ring associated with the current IUT path (fddiPATHRingLatency).

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
NUM1	INTEGER(0..4294967295)		Number of frames received from the IUT.
NUM2	INTEGER(0..4294967295)		Number of frames copied into the IUT.
NUM3	INTEGER(0..4294967295)		Number of frames transmitted by the IUT.
NUM4	INTEGER(0..4294967295)		Number of tokens received by the IUT.
NUM5	INTEGER(0..4294967295)		Number of frames having bad FCS received by the IUT.
NUM6	INTEGER(0..4294967295)		Number of frames having invalid symbol received by the IUT.
Detailed Comments:			

10.2.8 Timer Declarations

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
Timer_30	30	sec	Maximum time for a station to respond to a request.
Timer_60	60	sec	Time for waiting to receive a NIF request frame from the IUT.
Timer_TNN	T_Notify	sec	Timer, Neighbor Notification.
Trace_Max	7	sec	Maximum propagation time for a Trace on an FDDI topology.
Timer_TSR	T_Limit	sec	Timer, Status Report.
Timer_TVU	T_NN_Out	sec	Timer, Valid Upstream Neighbor.
Timer_TVD	T_NN_Out	sec	Timer, Valid Downstream Neighbor.

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10.2.9 ASN.1 PDU Type Definition

10.2.9.1 NIF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name : NIF_Frame **PCO Type** : **Comments** : Neighbor Information Frame (NIF).		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	NIF_Info,
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1)) }

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10.2.9.2 SRF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name : SRF_Frame **PCO Type** : **Comments** : Status Report Frame (SRF).		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	Info	SRF_Info,
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1)) }

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10.2.9.3 PMF PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name : PMF_Frame1 **PCO Type** : **Comments** : Parameter Management Frame (PMF) get request.		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	--NSA = '4F'H; SMT_Info = '41'H--	
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	getrequest	ANY,
	--an attribute, attribute group, multiple attributes or groups--	
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1))
	}	

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ASN.1 PDU Type Definition		
PDU Name : PMF_Frame2 **PCO Type** : **Comments** : Parameter Management Frame (PMF) get response.		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	getresponse	PMFResponse_Info,
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1))
	}	

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ASN.1 PDU Type Definition		
PDU Name	:	PMF_Frame3
PCO Type	:	
Comments	:	Parameter Management Frame (PMF) set request.

Type Definition

```
SEQUENCE    {SD                     SYMBOL(SIZE(2)),
             FC                     OCTETSTRING(SIZE(1)),
               --NSA = '4F'H; SMT_Info = '41'H--
             DA                     OCTETSTRING(SIZE(6)),
             SA                     OCTETSTRING(SIZE(6)),
             Frame_Class            OCTETSTRING(SIZE(1)),
             Frame_Type             OCTETSTRING(SIZE(1)),
             Version_ID             OCTETSTRING(SIZE(2)),
             Transaction_ID         OCTETSTRING(SIZE(4)),
             Station_ID1            OCTETSTRING(SIZE(2)),
             Station_ID2            OCTETSTRING(SIZE(6)),
             PAD                    OCTETSTRING(SIZE(2)),
             InfoField_Length       OCTETSTRING(SIZE(2)),
             setrequest             PMFRequest_Info,
             FCS                    OCTETSTRING(SIZE(4)),
             ED                     SYMBOL(SIZE(1)),
             FS_E                   SYMBOL(SIZE(1)),
             FS_A                   SYMBOL(SIZE(1)),
             FS_C                   SYMBOL(SIZE(1)),
             FS_2                   SYMBOL(SIZE(0..4)) OPTIONAL,
             FS_T                   SYMBOL(SIZE(1))
            }
```

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ASN.1 PDU Type Definition		
PDU Name : PMF_Frame4 **PCO Type** : **Comments** : Parameter Management Frame (PMF) set response.		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Frame_Class	OCTETSTRING(SIZE(1)),
	Frame_Type	OCTETSTRING(SIZE(1)),
	Version_ID	OCTETSTRING(SIZE(2)),
	Transaction_ID	OCTETSTRING(SIZE(4)),
	Station_ID1	OCTETSTRING(SIZE(2)),
	Station_ID2	OCTETSTRING(SIZE(6)),
	PAD	OCTETSTRING(SIZE(2)),
	InfoField_Length	OCTETSTRING(SIZE(2)),
	setresponse	PMFResponse_Info,
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1))
	}	

10.2.9.4 LLC PDU Type Definition

ASN.1 PDU Type Definition		
PDU Name : LLC_Frame **PCO Type** : **Comments** : Logical Link Control frame (LLC).		
Type Definition		
SEQUENCE	{SD	SYMBOL(SIZE(2)),
	FC	OCTETSTRING(SIZE(1)),
	DA	OCTETSTRING(SIZE(6)),
	SA	OCTETSTRING(SIZE(6)),
	Info	OCTETSTRING[8], --LLC information--
	FCS	OCTETSTRING(SIZE(4)),
	ED	SYMBOL(SIZE(1)),
	FS_E	SYMBOL(SIZE(1)),
	FS_A	SYMBOL(SIZE(1)),
	FS_C	SYMBOL(SIZE(1)),
	FS_2	SYMBOL(SIZE(0..4)) OPTIONAL,
	FS_T	SYMBOL(SIZE(1))
	}	

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10.2.9.5 Idle PDU Type Definition

PDU Type Definition		
PDU Name : ILS_FRM **PCO Type** : **Comments** : A frame contains idle symbols only.		
Field Name	**Field Type**	**Comments**
ILS	SYMBOL[8]	Idle line state symbols.

10.3 Constraint Parts

10.3.1 ASN.1 Type Constraint Declaration for General Parameters

ASN.1 Type Constraint Declaration		
Constraint Name : UNA_UNKNOWN **Structured Type** : UNA_GENERAL **Derivation Path** : **Comments** : General parameter.		
Constraint Value		
{ Parameter_Type Parameter_Length PAD UNA	‘0001’H, ‘0008’H, PAD_2, SMT_Unknown_Address }	

ASN.1 Type Constraint Declaration			
Constraint Name : UNA_IUT **Structured Type** : UNA_GENERAL **Derivation Path** : UNA_UNKNOWN **Comments** : General parameter.			
Constraint Value			
REPLACE	UNA	BY	IUT_ADDRESS

ASN.1 Type Constraint Declaration			
Constraint Name : UNA_TSTR **Structured Type** : UNA_GENERAL **Derivation Path** : UNA_UNKNOWN **Comments** : General parameter.			
Constraint Value			
REPLACE	UNA	BY	TESTER_ADDRESS

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ASN.1 Type Constraint Declaration			
Constraint Name	: StationDescriptor_Q		
Structured Type	: StationDescriptor_GENERAL		
Derivation Path	:		
Comments	: General parameter.		
Constraint Value			
{	Parameter_Type	‘0002’H,	
	Parameter_Length	‘0004’H,	
	Node_Class	?,	
	Mac_Ct	?,	
	NonMaster_Ct	?,	
	Master_Ct	?	}

ASN.1 Type Constraint Declaration				
Constraint Name	: StationDescriptor_IUT			
Structured Type	: StationDescriptor_GENERAL			
Derivation Path	: StationDescriptor_Q			
Comments	: General parameter.			
Constraint Value				
	REPLACE	Node_Class	BY	‘00’H, --IUT is a station--
	REPLACE	Mac_Ct	BY	IUT_MACs,
	REPLACE	NonMaster_Ct	BY	IUT_NonMasters,
	REPLACE	Mac_Ct	BY	IUT_Masters

ASN.1 Type Constraint Declaration				
Constraint Name	: StationDescriptor_TSTR			
Structured Type	: StationDescriptor_GENERAL			
Derivation Path	: StationDescriptor_Q			
Comments	: General parameter.			
Constraint Value				
	REPLACE	Node_Class	BY	‘00’H, --Tester is a station--

ASN.1 Type Constraint Declaration		
Constraint Name	: StationState_Q	
Structured Type	: StationState_GENERAL	
Derivation Path	:	
Comments	: General parameter.	
Constraint Value		
{	Parameter_Type	‘0003’H,
	Parameter_Length	‘0004’H,
	PAD	PAD_2,
	Topology	Topology_Q,
	DuplAddress	DuplAddress_Q }

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ASN.1 Type Constraint Declaration				
Constraint Name : StationState_TSTR **Structured Type** : StationState_GENERAL **Derivation Path** : StationState_Q **Comments** : General parameter.				
Constraint Value				
REPLACE REPLACE	Topology DuplAddress	BY BY	Topology_05, DuplAddress_R	

ASN.1 Type Constraint Declaration				
Constraint Name : StationState_Dup **Structured Type** : StationState_GENERAL **Derivation Path** : StationState_Q **Comments** : General parameter.				
Constraint Value				
REPLACE REPLACE	Topology DuplAddress	BY BY	Topology_05, DuplAddress_S	

ASN.1 Type Constraint Declaration			
Constraint Name : ReasonCode_Q **Structured Type** : ReasonCode_GENERAL **Derivation Path** : **Comments** : General parameter.			
Constraint Value			
{	Parameter_Type Parameter_Length reason	‘0012’H, ‘0004’H, ?	}

ASN.1 Type Constraint Declaration				
Constraint Name : ReasonCode_03 **Structured Type** : ReasonCode_GENERAL **Derivation Path** : Reason_Code_Q **Comments** : General parameter.				
Constraint Value				
REPLACE	reason	BY	‘00000003’H	--success--

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ASN.1 Type Constraint Declaration		
Constraint Name	:	Authorization_Req
Structured Type	:	Authorization_GENERAL
Derivation Path	:	
Comments	:	General parameter. This parameter is optional.

Constraint Value		
{	Parameter_Type	'0021'H,
	Parameter_Length	OMIT,
	Authorization	OMIT }

10.3.2 ASN.1 Type Constraint for MIB Attributes

ASN.1 Type Constraint Declaration		
Constraint Name	:	MIBGrp_Req
Structured Type	:	MIBGrp
Derivation Path	:	
Comments	:	MIB attribute groups.

Constraint Value			
{	smtstationidgrp	SMTGrp1_Req,	
	smtstationconfiggrp	SMTGrp2_Req,	
	smtstatusgrp	SMTGrp3_Req	
	smtmiboperationgrp	SMTGrp4_Req,	
	maccapabilitiesgrp	MACGrp1_Req,	
	macconfiggrp	MACGrp2_Req,	
	macaddressgrp	MACGrp3_Req,	
	macoperationgrp	MACGrp4_Req,	
	maccountersgrp	MACGrp5_Req,	
	macframeerrorconditiongrp	MACGrp6_Req,	
	macnotcopiedconditiongrp	MACGrp7_Req,	--optional--
	macstatusgrp	MACGrp8_Req,	
	pathconfiggrp	PATHGrp_Req	
	portconfiggrp	PORTGrp1_Req,	
	portoperationgrp	PORTGrp2_Req,	
	porterrorctrsgrp	PORTGrp3_Req,	
	portlergrp	PORTGrp4_Req,	
	portstatusgrp	PORTGrp5_Req	}

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ASN.1 Type Constraint Declaration			
Constraint Name : MIBGrp_Resp **Structured Type** : MIBGrp **Derivation Path** : **Comments** : MIB attribute groups.			
Constraint Value			
{	smtstationidgrp	SMTGrp1_Resp,	
	smtstationconfiggrp	SMTGrp2_Resp,	
	smtstatusgrp	SMTGrp3_Resp	
	smtmiboperationgrp	SMTGrp4_Resp,	
	maccapabilitiesgrp	MACGrp1_Resp,	
	macconfiggrp	MACGrp2_Resp,	
	macaddressgrp	MACGrp3_Resp,	
	macoperationgrp	MACGrp4_Resp,	
	maccountersgrp	MACGrp5_Resp,	
	macframeerrorconditiongrp	MACGrp6_Resp,	
	macnotcopiedconditiongrp	MACGrp7_Resp,	--optional--
	macstatusgrp	MACGrp8_Resp,	
	pathconfiggrp	PATHGrp_Resp	
	portconfiggrp	PORTGrp1_Resp,	
	portoperationgrp	PORTGrp2_Resp,	
	porterrorctrsgrp	PORTGrp3_Resp,	
	portlergrp	PORTGrp4_Resp,	
	portstatusgrp	PORTGrp5_Resp	}

10.3.2.1 ASN.1 Type Constraint for SMT Attributes

ASN.1 Type Constraint Declaration			
Constraint Name : SMTGrp1_Req **Structured Type** : SMTGrp **Derivation Path** : **Comments** : fddiSMTStationIdGrp.			
Constraint Value			
{	Parameter_Type	‘100A’H,	
	Parameter_Length	OMIT,	
	Parameter_Value	OMIT	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTGrp2_Req **Structured Type** : SMTGrp **Derivation Path** : SMTGrp1_Req **Comments** : fddiSMTStationConfigGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘1014’H

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTGrp3_Req		
Structured Type	: SMTGrp		
Derivation Path	: SMTGrp1_Req		
Comments	: fddiSMTStatusGrp.		
Constraint Value			
REPLACE	Parameter_Type	BY	‘1028’H

ASN.1 Type Constraint Declaration			
Constraint Name	: SMTGrp4_Req		
Structured Type	: SMTGrp		
Derivation Path	: SMTGrp1_Req		
Comments	: fddiSMTMIBOperationGrp.		
Constraint Value			
REPLACE	Parameter_Type	BY	‘1032’H

ASN.1 Type Constraint Declaration		
Constraint Name	: SMTGrp1_Resp	
Structured Type	: SMTGrp	
Derivation Path	:	
Comments	: fddiSMTStationIdGrp.	
Constraint Value		
{	Parameter_Type	‘100A’H,
	Parameter_Length	?,
	Parameter_Value	SMTStationIdGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	: SMTGrp2_Resp	
Structured Type	: SMTGrp	
Derivation Path	:	
Comments	: fddiSMTStationConfigGrp.	
Constraint Value		
{	Parameter_Type	‘1014’H,
	Parameter_Length	?,
	Parameter_Value	SMTStationConfigGrp_Resp }

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTGrp3_Resp
Structured Type	: SMTGrp
Derivation Path	:
Comments	: fddiSMTStatusGrp.

Constraint Value		
{	Parameter_Type	‘1028’H,
	Parameter_Length	?,
	Parameter_Value	SMTStatusGrp_Resp }

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTGrp4_Resp
Structured Type	: SMTGrp
Derivation Path	:
Comments	: fddiSMTMIBOperationGrp.

Constraint Value		
{	Parameter_Type	‘1032’H,
	Parameter_Length	?,
	Parameter_Value	SMTMIBOperationGrp_Resp }

10.3.2.1.1 SMT Station ID Group Attributes Constraints

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStationIdGrp_Resp
Structured Type	: SMTStationIdGrp
Derivation Path	:
Comments	: SMT attribute group.

Constraint Value			
{	stationid	SMTStationId_Resp,	
	opversionid	SMTOpVersionId_Resp,	
	hiversionid	SMTHiVersionId_Resp,	
	loversionid	SMTLoVersionId_Resp,	
	manufacturerdata	SMTManufacturerData_Resp,	-- optional--
	userdata	SMTUserData_Resp,	
	mibversionid	SMTMIBVersionId_Resp }	

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ASN.1 Type Constraint Declaration		
Constraint Name : SMTStationId_Req		
Structured Type : SMTStationId		
Derivation Path :		
Comments : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘100B’H,
	Parameter_Length	‘0008’H,
	ImplementerOctet	OMIT,
	Station_Address	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTStationId_Resp		
Structured Type : SMTStationId		
Derivation Path :		
Comments : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘100B’H,
	Parameter_Length	‘0008’H,
	ImplementerOctet	‘0000’H,
	Station_Address	IUT_ADDRESS }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTOpVersionId_Resp		
Structured Type : SMTOpVersionId		
Derivation Path :		
Comments : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘100D’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	OpVersionId	‘0002’H }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTHiVersionId_Resp		
Structured Type : SMTHiVersionId		
Derivation Path :		
Comments : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘100E’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	HiVersionId	‘0002’H }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLoVersionId_Resp
Structured Type	:	SMTLoVersionId
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘100F’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	LoVersionId	‘0001’H }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTManufacturerData_Req
Structured Type	:	SMTManufacturerData
Derivation Path	:	
Comments	:	SMT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘1010’H,
	Parameter_Length	‘0020’H,
	ManufacturerOUI	OMIT,
	ManufacturerData	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTManufacturerData_Resp
Structured Type	:	SMTManufacturerData
Derivation Path	:	
Comments	:	SMT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘1010’H,
	Parameter_Length	‘0020’H,
	ManufacturerOUI	*,
	ManufacturerData	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTManufacturerData_IUT
Structured Type	:	SMTManufacturerData
Derivation Path	:	SMTManufacturerData_Resp
Comments	:	SMT attribute. This attribute is optional.

Constraint Value			
REPLACE	ManufacturerOUI	BY	MANUF_OUI,
REPLACE	ManufacturerData	BY	MANUF_DATA }

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTUserData_Req
Structured Type	: SMTUserData
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          ‘1011’H,
        Parameter_Length        ‘0020’H,
        UserData                OMIT
          --an ASCII string of 32 octets in length--        }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTUserData_Resp
Structured Type	: SMTUserData
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          ‘1011’H,
        Parameter_Length        ‘0020’H,
        UserData                ?       }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTUserData_IUT
Structured Type	: SMTUserData
Derivation Path	: SMTUserData_Resp
Comments	: SMT attribute.

Constraint Value

```
REPLACE     UserData            BY      USR_DATA(32)
        --an ASCII string of 32 octets in length--
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTMIBVersionId_Req
Structured Type	: SMTMIBVersionId
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type      ‘1012’H,
        Parameter_Length    ‘0004’H,
        PAD2                OMIT,
        MIBVersionId        OMIT    }
```

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMIBVersionId_Resp
Structured Type	:	SMTMIBVersionId
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1012’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	MIBVersionId	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMIBVersionId_IUT
Structured Type	:	SMTMIBVersionId
Derivation Path	:	SMTMIBVersionId_Resp
Comments	:	SMT attribute.

Constraint Value			
REPLACE	MIBVersionId	BY	‘0001’H }

10.3.2.1.2 SMT Station Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTStationConfigGrp_Resp
Structured Type	:	SMTStationConfigGrp
Derivation Path	:	
Comments	:	SMT attribute group.

Constraint Value		
{	macct	SMTMac_Ct_Resp,
	nonmasterct	SMTNonMaster_Ct_Resp,
	masterct	SMTMaster_Ct_Resp,
	availablepaths	SMTAvailablePaths_Resp,
	configcapabilities	SMTConfigCapabilities_Resp,
	configpolicy	SMTConfigPolicy_Resp,
	connectionpolicy	SMTConnectionPolicy_Resp,
	tnotify	SMTT_Notify_Resp,
	statrptpolicy	SMTStatRptPolicy_Resp,
	tracemaxexpiration	SMTTrace_MaxExpiration_Resp,
	portindexes	SMTPORTIndexes_Resp,
	macindexes	SMTMACIndexes_Resp,
	bypasspresent	SMTBypassPresent_Resp }

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ASN.1 Type Constraint Declaration		
Constraint Name : SMTMac_Ct_Req **Structured Type** : SMTMac_Ct **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘1015’H,
	Parameter_Length	‘0004’H,
	PAD3	OMIT,
	MAC_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTMac_Ct_Resp **Structured Type** : SMTMac_Ct **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘1015’H,
	Parameter_Length	‘0004’H,
	PAD3	PAD_3,
	MAC_Ct	? }

ASN.1 Type Constraint Declaration			
Constraint Name : SMTMac_Ct_IUT **Structured Type** : SMTMac_Ct **Derivation Path** : SMTMac_Ct_Resp **Comments** : SMT attribute.			
Constraint Value			
REPLACE	MAC_Ct	BY	IUT_MACs

ASN.1 Type Constraint Declaration		
Constraint Name : SMTNonMaster_Ct_Req **Structured Type** : SMTNonMaster_Ct **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘1016’H,
	Parameter_Length	‘0004’H,
	PAD3	OMIT,
	NonMaster_Ct	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTNonMaster_Ct_Resp
Structured Type	:	SMTNonMaster_Ct
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1016’H,
	Parameter_Length	‘0004’H,
	PAD3	PAD_3,
	NonMaster_Ct	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTNonMaster_Ct_IUT
Structured Type	:	SMTNonMaster_Ct
Derivation Path	:	SMTNonMaster_Ct_Resp
Comments	:	SMT attribute.

Constraint Value			
REPLACE	NonMaster_Ct	BY	IUT_NonMasters

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMaster_Ct_Req
Structured Type	:	SMTMaster_Ct
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1017’H,
	Parameter_Length	‘0004’H,
	PAD3	OMIT,
	Master_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTMaster_Ct_Resp
Structured Type	:	SMTMaster_Ct
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1017’H,
	Parameter_Length	‘0004’H,
	PAD3	PAD_3,
	Master_Ct	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : SMTMaster_Ct_IUT **Structured Type** : SMTMaster_Ct **Derivation Path** : SMTMaster_Ct_Resp **Comments** : SMT attribute.			
Constraint Value			
REPLACE	Master_Ct	BY	IUT_Masters

ASN.1 Type Constraint Declaration		
Constraint Name : SMTAvailablePaths_Req **Structured Type** : SMTAvailablePaths **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	'1018'H,
	Parameter_Length	'0004'H,
	PAD3	OMIT,
	AvailablePaths	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTAvailablePaths_Resp
Structured Type	:	SMTAvailablePaths
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1018’H,
	Parameter_Length	‘0004’H,
	PAD3	PAD_3,
	AvailablePaths	AvailablePaths_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTAvailablePaths_IUT
Structured Type	:	SMTAvailablePaths
Derivation Path	:	SMTAvailablePaths_Resp
Comments	:	SMT attribute.

Constraint Value			
REPLACE	AvailablePaths	BY	AvailablePaths_IUT

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConfigCapabilities_Req
Structured Type	:	SMTConfigCapabilities
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1019’H,
	Parameter_Length	‘0004’H,
	PAD2	OMIT,
	ConfigCapabilities	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTConfigCapabilities_Resp
Structured Type	:	SMTConfigCapabilities
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	‘1019’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	ConfigCapabilities	Capabilities_Q }

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigCapabilities_IUT
Structured Type	: SMTConfigCapabilities
Derivation Path	: SMTConfigCapabilities_Resp
Comments	: SMT attribute.
Constraint Value	
REPLACE ConfigCapabilities BY Capabilities_IUT	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigCapabilities_IUT1
Structured Type	: SMTConfigCapabilities
Derivation Path	: SMTConfigcapabilities_Resp
Comments	: SMT attribute.
Constraint Value	
REPLACE ConfigCapabilities BY Capabilities_H	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigCapabilities_IUT2
Structured Type	: SMTConfigCapabilities
Derivation Path	: SMTConfigcapabilities_Resp
Comments	: SMT attribute.
Constraint Value	
REPLACE ConfigCapabilities BY Capabilities_W	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTConfigPolicy_Resp
Structured Type	: SMTConfigPolicy
Derivation Path	:
Comments	: SMT attribute.
Constraint Value	
{ Parameter_Type ‘101A’H, Parameter_Length ‘0004’H, PAD2 PAD_2, ConfigPolicy ConfigPolicy_Q }	

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ASN.1 Type Constraint Declaration		
Constraint Name : SMTConnectionPolicy_Req **Structured Type** : SMTConnectionPolicy **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘101B’H,
	Parameter_Length	‘0004’H,
	PAD2	OMIT,
	ConnectionPolicy	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTConnectionPolicy_Resp **Structured Type** : SMTConnectionPolicy **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	‘101B’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	ConnectionPolicy	Connection_Q }

ASN.1 Type Constraint Declaration			
Constraint Name : SMTConnectionPolicy_IUT **Structured Type** : SMTConnectionPolicy **Derivation Path** : SMTConnectionPolicy_Resp **Comments** : SMT attribute.			
Constraint Value			
REPLACE	ConnectionPolicy	BY	Connection_IUT

ASN.1 Type Constraint Declaration			
Constraint Name : SMTConnectionPolicy_Test **Structured Type** : SMTConnectionPolicy **Derivation Path** : SMTConnectionPolicy_Resp **Comments** : SMT attribute.			
Constraint Value			
REPLACE	ConnectionPolicy	BY	Connection_Test

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ASN.1 Type Constraint Declaration		
Constraint Name : SMTT_Notify_Req **Structured Type** : SMTT_Notify **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	'101D'H,
	Parameter_Length	'0004'H,
	PAD2	OMIT,
	T_NotifyType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTT_Notify_Resp **Structured Type** : SMTT_Notify **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	'101D'H,
	Parameter_Length	'0004'H,
	PAD2	PAD_2,
	T_NotifyType	T_Notify }

ASN.1 Type Constraint Declaration
Constraint Name : SMTT_Notify_Test **Structured Type** : SMTT_Notify **Derivation Path** : SMTT_Notify_Resp **Comments** : SMT attribute.
Constraint Value
REPLACE T_NotifyType BY '0014'H --Assume 20 seconds is the desired T_Notify requested by Tester's PMF set request frame. Note: Any desired T_Notify within a range of 2 seconds to 30 seconds is acceptable.--

ASN.1 Type Constraint Declaration		
Constraint Name : SMTStatRptPolicy_Req **Structured Type** : SMTStatRptPolicy **Derivation Path** : **Comments** : SMT attribute.		
Constraint Value		
{	Parameter_Type	'101E'H,
	Parameter_Length	'0004'H,
	PAD3	OMIT,
	StatRptPolicy	OMIT }

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatRptPolicy_Resp
Structured Type	: SMTStatRptPolicy
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          ‘101E’H,
        Parameter_Length        ‘0004’H,
        PAD3                    PAD_3,
        StatRptPolicy           TRUE    }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatRptPolicy_Test
Structured Type	: SMTStatRptPolicy
Derivation Path	: SMTStatRptPolicy_Resp
Comments	: SMT attribute.

Constraint Value

```
REPLACE     StatRptPolicy   BY      FALSE
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTrace_MaxExpiration_Req
Structured Type	: SMTTrace_MaxExpiration
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          ‘101F’H,
        Parameter_Length        ‘0004’H,
        Trace_MaxExpiration     OMIT    }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTrace_MaxExpiration_Resp
Structured Type	: SMTTrace_MaxExpiration
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          ‘101F’H,
        Parameter_Length        ‘0004’H,
        Trace_MaxExpiration     ?       }
```

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTrace_MaxExpiration_IUT
Structured Type	: SMTTrace_MaxExpiration
Derivation Path	: SMTTrace_MaxExpiration_Resp
Comments	: SMT attribute.
Constraint Value	
REPLACE Trace_MaxExpiration BY TIME(Trace_Max)	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTTrace_MaxExpiration_Test
Structured Type	: SMTTrace_MaxExpiration
Derivation Path	: SMTTrace_MaxExpiration_Resp
Comments	: SMT attribute.
Constraint Value	
REPLACE Trace_MaxExpiration BY TIME(7500) --Assume 7.5 seconds is the desired Trace_Max requested by tester's PMF set request frame.-- --Note: Any desired Trace_max >=6.001773 seconds is acceptable.--	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTPORTIndexes_Resp
Structured Type	: SMTPORTIndexes
Derivation Path	:
Comments	: SMT attribute.
Constraint Value	
{ Parameter_Type ‘1020’H, Parameter_Length ‘0004’H, PORTIndexes SMTPORTIndx }	

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTMACIndexes_Resp
Structured Type	: SMTMACIndexes
Derivation Path	:
Comments	: SMT attribute.
Constraint Value	
{ Parameter_Type ‘1021’H, Parameter_Length ‘0004’H, MACIndexes SMTMACIndx }	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTBypassPresent_Resp
Structured Type	: SMTBypassPresent
Derivation Path	:
Comments	: SMT attribute.

Constraint Value		
{	Parameter_Type	‘1022’H,
	Parameter_Length	‘0004’H,
	PAD3	PAD_3,
	BypassPresent	? }

10.3.2.1.3 SMT Status Group Attributes Constraints

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStatusGrp_Resp
Structured Type	: SMTStatusGrp
Derivation Path	:
Comments	: SMT attributegroup.

Constraint Value		
{	ecmstate	SMTECMState_Resp,
	cfstate	SMTCF_State_Resp,
	holdstate	SMTHoldState_Resp, --optional--
	remotedisconnectflag	SMTRemoteDisconnectFlag_Resp,
	stationstatus	SMTStationStatus_Resp,
	peerwrapflag	SMTPeerWrapFlag_Resp }

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTECMState_Resp
Structured Type	: SMTECMState
Derivation Path	:
Comments	: SMT attribute.

Constraint Value		
{	Parameter_Type	‘1029’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	ECMStateType	ECMState_Q }

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTCF_State_Req
Structured Type	: SMTCF_State
Derivation Path	:
Comments	: SMT attribute.

Constraint Value		
{	Parameter_Type	‘102A’H,
	Parameter_Length	‘0004’H,
	PAD2	OMIT,
	CF_StateType	OMIT }

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ASN.1 Type Constraint Declaration			
Constraint Name	: SMTCF_State_Resp		
Structured Type	: SMTCF_State		
Derivation Path	:		
Comments	: SMT attribute.		
Constraint Value			
{	Parameter_Type	‘102A’H,	
	Parameter_Length	‘0004’H,	
	PAD2	PAD_2,	
	CF_StateType	CF_State_Q	}

ASN.1 Type Constraint Declaration				
Constraint Name	: SMTCF_State_Thru			
Structured Type	: SMTCF_State			
Derivation Path	: SMTCF_State_Resp			
Comments	: SMT attribute.			
Constraint Value				
	REPLACE	CF_StateType	BY	CF_State_Thru

ASN.1 Type Constraint Declaration				
Constraint Name	: SMTCF_State_Cwrpa			
Structured Type	: SMTCF_State			
Derivation Path	: SMTCF_State_Resp			
Comments	: SMT attribute.			
Constraint Value				
	REPLACE	CF_StateType	BY	CF_State_Cwrpa

ASN.1 Type Constraint Declaration				
Constraint Name	: SMTCF_State_Cwrpb			
Structured Type	: SMTCF_State			
Derivation Path	: SMTCF_State_Resp			
Comments	: SMT attribute.			
Constraint Value				
	REPLACE	CF_StateType	BY	CF_State_Cwrpb

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ASN.1 Type Constraint Declaration				
Constraint Name : SMTCF_State_Wrps **Structured Type** : SMTCF_State **Derivation Path** : SMTCF_State_Resp **Comments** : SMT attribute.				
Constraint Value				
REPLACE	CF_StateType	BY	CF_State_Wrps	

ASN.1 Type Constraint Declaration				
Constraint Name : SMTCF_State_Wrpab **Structured Type** : SMTCF_State **Derivation Path** : SMTCF_State_Resp **Comments** : SMT attribute.				
Constraint Value				
REPLACE	CF_StateType	BY	CF_State_Wrpab	

ASN.1 Type Constraint Declaration		
Constraint Name : SMTHoldState_Req **Structured Type** : SMTHoldState **Derivation Path** : **Comments** : SMT attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘102B’H,
	Parameter_Length	‘0004’H,
	PAD2	OMIT,
	HoldStateType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : SMTHoldState_Resp **Structured Type** : SMTHoldState **Derivation Path** : **Comments** : SMT attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘102B’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	HoldStateType	HoldState_NH
	--not_holding; default and initial value--}	

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ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldState_HP
Structured Type	: SMTHoldState
Derivation Path	: SMTHoldState_Resp
Comments	: SMT attribute. This attribute is optional.

Constraint Value

```
REPLACE        HoldStateType        BY        HoldState_HP
  --holding_prm--
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTHoldState_HS
Structured Type	: SMTHoldState
Derivation Path	: SMTHoldState_Resp
Comments	: SMT attribute. This attribute is optional.

Constraint Value

```
REPLACE        HoldStateType        BY        HoldState_HS
  --holding_sec--
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTRemoteDisconnectFlag_Resp
Structured Type	: SMTRemoteDisconnectFlag
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          '102C'H,
        Parameter_Length        '0004'H,
        PAD3                    PAD_3,
        RemoteDisconnectFlag ?  }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: SMTStationStatus_Req
Structured Type	: SMTStationStatus
Derivation Path	:
Comments	: SMT attribute.

Constraint Value

```
{       Parameter_Type          '102D'H,
        Parameter_Length        '0004'H,
        PAD2                    OMIT,
        StationStatus           OMIT    }
```

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ASN.1 Type Constraint Declaration					
Constraint Name : SMTStationStatus_Resp **Structured Type** : SMTStationStatus **Derivation Path** : **Comments** : SMT attribute.					
Constraint Value					
{	Parameter_Type Parameter_Length PAD2 StationStatus	‘102D’H, ‘0004’H, PAD_2, Status_Q	}		

ASN.1 Type Constraint Declaration					
Constraint Name : SMTStationStatus_T **Structured Type** : SMTStationStatus **Derivation Path** : SMTStationStatus_Resp **Comments** : SMT attribute.					
Constraint Value					
	REPLACE	stationstatus	BY	Status_T	--thru--

ASN.1 Type Constraint Declaration					
Constraint Name : SMTStationStatus_S **Structured Type** : SMTStationStatus **Derivation Path** : SMTStationStatus_Resp **Comments** : SMT attribute.					
Constraint Value					
	REPLACE	stationstatus	BY	Status_S	--separated--

ASN.1 Type Constraint Declaration					
Constraint Name : SMTStationStatus_C **Structured Type** : SMTStationStatus **Derivation Path** : SMTStationStatus_Resp **Comments** : SMT attribute.					
Constraint Value					
	REPLACE	stationstatus	BY	Status_C	--concatenated--

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapFlag_Req
Structured Type	:	SMTPeerWrapFlag
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	'102E'H,
	Parameter_Length	'0004'H,
	PAD3	OMIT,
	PeerWrapFlag	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapFlag_Resp
Structured Type	:	SMTPeerWrapFlag
Derivation Path	:	
Comments	:	SMT attribute.

Constraint Value		
{	Parameter_Type	'102E'H,
	Parameter_Length	'0004'H,
	PAD3	PAD_3,
	PeerWrapFlag	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapFlag_S
Structured Type	:	SMTPeerWrapFlag
Derivation Path	:	SMTPeerWrapFalg_Resp
Comments	:	SMT attribute.

Constraint Value			
REPLACE	PeerWrapFlag	BY	TRUE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapFlag_C
Structured Type	:	SMTPeerWrapFlag
Derivation Path	:	SMTPeerWrapFalg_Resp
Comments	:	SMT attribute.

Constraint Value			
REPLACE	PeerWrapFlag	BY	FALSE }

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10.3.2.1.4 SMT MIB Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration				
Constraint Name : SMTMIBOperationGrp_Resp **Structured Type** : SMTMIBOperationGrp **Derivation Path** : **Comments** : SMT attribute group.				
Constraint Value				
{	timestamp	SMTTimeStamp_Resp,		
	transitiontimestamp	SMTTransitionTimeStamp_Resp,		
	setcount	SMTSetCount_Resp,	-- optional--	
	lastsetstationid	SMTLastSetStationId_Resp	-- optional--	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTTimeStamp_Resp **Structured Type** : SMTTimeStamp **Derivation Path** : **Comments** : SMT attribute.			
Constraint Value			
{	Parameter_Type		‘1033’H,
	Parameter_Length		‘0008’H,
	TimeStamp	?	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTTransitionTimeStamp_Resp **Structured Type** : SMTTransitionTimeStamp **Derivation Path** : **Comments** : SMT attribute.			
Constraint Value			
{	Parameter_Type		‘1034’H,
	Parameter_Length		‘0008’H,
	TransitionTimeStamp	?	}

ASN.1 Type Constraint Declaration			
Constraint Name : SMTSetCount_Req **Structured Type** : SMTSetCount **Derivation Path** : **Comments** : SMT attribute. This attribute is optional.			
Constraint Value			
{	Parameter_Type	‘1035’H,	
	Parameter_Length	OMIT,	
	Count	OMIT,	
	SetTimeStamp	OMIT	}

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTSetCount_Resp
Structured Type	:	SMTSetCount
Derivation Path	:	
Comments	:	SMT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘1035’H,
	Parameter_Length	?,
	Count	*,
	SetTimeStamp	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTSetCount_New
Structured Type	:	SMTSetCount
Derivation Path	:	SMTSetCount_Resp
Comments	:	SMT attribute. This attribute is carried in PMF set response frame if the PMF Set protocol is implemented.

Constraint Value			
REPLACE	Count	BY	New_SetCount,
REPLACE	SetTimeStamp	BY	?

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLastSetStationId_Resp
Structured Type	:	SMTLastSetStationId
Derivation Path	:	
Comments	:	SMT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘1036’H,
	Parameter_Length	?,
	ImplementerOctet	*,
	LastSetStation_Address	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTLastSetStationId_IUT
Structured Type	:	SMTLastSetStationId
Derivation Path	:	SMTLastSetStationId_Resp
Comments	:	SMT attribute. This attribute is carried in PMF set response frame if the PMF Set protocol is implemented.

Constraint Value			
REPLACE	ImplementerOctet	BY	?,
REPLACE	LastSetStation_Address	BY	IUT_ADDRESS

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10.3.2.2 ASN.1 Type Constraint for MAC Attributes

ASN.1 Type Constraint Declaration	
Constraint Name	: MACGrp1_Req
Structured Type	: MACGrp
Derivation Path	:
Comments	: fddiMACCapabilitiesGrp.

Constraint Value		
{	Parameter_Type	‘200A’H,
	Parameter_Length	OMIT,
	Resource_Index	OMIT,
	Parameter_Value	OMIT }

ASN.1 Type Constraint Declaration	
Constraint Name	: MACGrp2_Req
Structured Type	: MACGrp
Derivation Path	: MACGrp1_Req
Comments	: fddiMACConfigGrp.

Constraint Value			
REPLACE	Parameter_Type	BY	‘2014’H

ASN.1 Type Constraint Declaration	
Constraint Name	: MACGrp3_Req
Structured Type	: MACGrp
Derivation Path	: MACGrp1_Req
Comments	: fddiMACAddressGrp.

Constraint Value			
REPLACE	Parameter_Type	BY	‘2028’H

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ASN.1 Type Constraint Declaration			
Constraint Name : MACGrp4_Req **Structured Type** : MACGrp **Derivation Path** : MACGrp1_Req **Comments** : fddiMACOperationGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘2032’H

ASN.1 Type Constraint Declaration			
Constraint Name : MACGrp5_Req **Structured Type** : MACGrp **Derivation Path** : MACGrp1_Req **Comments** : fddiMACCountersGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘2046’H

ASN.1 Type Constraint Declaration			
Constraint Name : MACGrp6_Req **Structured Type** : MACGrp **Derivation Path** : MACGrp1_Req **Comments** : fddiMACFrameErrorConditionGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘205A’H

ASN.1 Type Constraint Declaration			
Constraint Name : MACGrp7_Req **Structured Type** : MACGrp **Derivation Path** : MACGrp1_Req **Comments** : fddiMACNotCopiedConditionGrp. This attribute group is optional.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘2064’H

ASN.1 Type Constraint Declaration			
Constraint Name : MACGrp8_Req **Structured Type** : MACGrp **Derivation Path** : MACGrp1_Req **Comments** : fddiMACStatusGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘206E’H

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp1_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACCapabilitiesGrp.

Constraint Value		
{	Parameter_Type	‘200A’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACCapabilitiesGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp2_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACConfigGrp.

Constraint Value		
{	Parameter_Type	‘2014’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACConfigGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp3_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACAddressGrp.

Constraint Value		
{	Parameter_Type	‘2028’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACAddressGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp4_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACOperationGrp.

Constraint Value		
{	Parameter_Type	‘2032’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACOperationGrp_Resp }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp5_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACCountersGrp.

Constraint Value		
{	Parameter_Type	‘2046’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACCountersGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp6_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACFrameErrorConditionGrp.

Constraint Value		
{	Parameter_Type	‘205A’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACFrameErrorConditionGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp7_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACNotCopiedConditionGrp. This attribute group is optional.

Constraint Value		
{	Parameter_Type	‘2064’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACNotCopiedConditionGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACGrp8_Resp
Structured Type	:	MACGrp
Derivation Path	:	
Comments	:	fddiMACStatusGrp.

Constraint Value		
{	Parameter_Type	‘206E’H,
	Parameter_Length	?
	Resource_Index	?
	Parameter_Value	MACStatusGrp_Resp }

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10.3.2.2.1 MAC Capabilities Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name : MACCapabilitiesGrp_Resp		
Structured Type : MACCapabilitiesGrp		
Derivation Path :		
Comments : MAC attribute group.		
Constraint Value		
{	framestatusfunctions	MACFrameStatusFunctions_Resp,
	bridgefunctions	MACBridgeFunctions_Resp, --optional--
	tmaxcapability	MACT_MaxCapability_Resp,
	tvxcapability	MACTVXCapability_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name : MACFrameStatusFunctions_Resp		
Structured Type : MACFrameStatusFunctions		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘200B’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	FrameStatusFunctions	FS_Functions_Q }

ASN.1 Type Constraint Declaration		
Constraint Name : MACBridgeFunction_Req		
Structured Type : MACBridgeFunctions		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘200C’H,
	Parameter_Length	?,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	BridgeFunctions	OMIT }

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ASN.1 Type Constraint Declaration			
Constraint Name	: MACBridgeFunctions_Resp		
Structured Type	: MACBridgeFunctions		
Derivation Path	:		
Comments	: MAC attribute. This attribute is optional.		
Constraint Value			
{	Parameter_Type		‘200C’H,
	Parameter_Length		?,
	Resource_Index		?,
	PAD2		PAD_2,
	BridgeFunctions		BridgeType_Q }

ASN.1 Type Constraint Declaration			
Constraint Name	: MACBridgeFunction_IUT		
Structured Type	: MACBridgeFunctions		
Derivation Path	: MACBridgeFunction_Resp		
Comments	: MAC attribute. This attribute is optional.		
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	BridgeFunctions	BY	BridgeType_IUT

ASN.1 Type Constraint Declaration			
Constraint Name	: MACT_MaxCapability_Req		
Structured Type	: MACT_MaxCapability		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type		‘200D’H,
	Parameter_Length		‘0008’H,
	Resource_Index		M_Indx,
	T_MaxCapability		OMIT }

ASN.1 Type Constraint Declaration			
Constraint Name	: MACT_MaxCapability_Resp		
Structured Type	: MACT_MaxCapability		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type		‘200D’H,
	Parameter_Length		‘0008’H,
	Resource_Index		?,
	T_MaxCapability		? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACT_MaxCapability_IUT **Structured Type** : MACT_MaxCapability **Derivation Path** : MACT_MaxCapability_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE REPLACE	Resource_Index T_MaxCapability	BY BY	M_Indx, INT_TO_HEX(TTC(TIME(IUT_T_Max)), 8)

ASN.1 Type Constraint Declaration		
Constraint Name : MACTVXCapability_Req **Structured Type** : MACTVXCapability **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{ 	Parameter_Type Parameter_Length Resource_Index TVXCapability	‘200E’H, ‘0008’H, M_Indx, OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACTVXCapability_Resp **Structured Type** : MACTVXCapability **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{ 	Parameter_Type Parameter_Length Resource_Index TVXCapability	‘200E’H, ‘0008’H, ?, ? }

ASN.1 Type Constraint Declaration			
Constraint Name : MACTVXCapability_IUT **Structured Type** : MACTVXCapability **Derivation Path** : MACTVXCapability_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE REPLACE	Resource_Index TVXCapability	BY BY	M_Indx, INT_TO_HEX(TTC(TIME(IUT_TVX_Value)), 8)

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10.3.2.2.2 MAC Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name : MACConfigGrp_Resp		
Structured Type : MACConfigGroup		
Derivation Path :		
Comments : MAC attribute group.		
Constraint Value		
{	availablepaths	MACAvailablePaths_Resp,
	currentpath	MACCurrentPath_Resp,
	upstreamnbr	MACUpstreamNbr_Resp,
	downstreamnbr	MACDownstreamNbr_Resp,
	oldupstreamnbr	MACOldUpstreamNbr_Resp,
	olddownstreamnbr	MACOldDownstreamNbr_Resp,
	dupaddresstest	MACDupAddressTest_Resp,
	requestedpaths	MACRequestedPaths_Resp,
	downstreamporttype	MACDownstreamPORTType_Resp,
	macindex	MACIndex_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name : MACAvailablePaths_Req		
Structured Type : MACAvailablePaths		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2016’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	PAD3	OMIT,
	AvailablePaths	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACAvailablePaths_Resp		
Structured Type : MACAvailablePaths		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2016’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	AvailablePaths	AvailablePaths_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACAvailablePaths_IUT			
Structured Type : MACAvailablePaths			
Derivation Path :			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	AvailablePaths BY		MACAvailablePaths

ASN.1 Type Constraint Declaration		
Constraint Name : MACCurrentPath_Req		
Structured Type : MACCurrentPath		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2017'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	CurrentPath	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACCurrentPath_Resp		
Structured Type : MACCurrentPath		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2017'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD2	PAD_2,
	CurrentPath	CurrentPathType_Q }

ASN.1 Type Constraint Declaration			
Constraint Name : MACCurrentPath_IUT			
Structured Type : MACCurrentPath			
Derivation Path : MACCurrentPath_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	CurrentPath	BY	MACCurrPath

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUpstreamNbr_Req
Structured Type	:	MACUpstreamNbr
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2018’H,
	Parameter_Length	‘000C’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	UpstreamNbr_Address	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUpstreamNbr_Resp
Structured Type	:	MACUpstreamNbr
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2018’H,
	Parameter_Length	‘000C’H,
	Resource_Index	?,
	PAD2	PAD_2,
	UpstreamNbr_Address	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUpstreamNbr_TSTR
Structured Type	:	MACUpstreamNbr
Derivation Path	:	MACUpstreamNbr_Resp
Comments	:	MAC attribute.

Constraint Value				
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	UpstreamNbr_Address	BY	TESTER_ADDRESS

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUpstreamNbr_UNK
Structured Type	:	MACUpstreamNbr
Derivation Path	:	MACUpstreamNbr_TSTR
Comments	:	MAC attribute.

Constraint Value			
REPLACE	UpstreamNbr_Address	BY	SMT_Unknown_Address

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDownstreamNbr_Req
Structured Type	:	MACDownstreamNbr
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2019’H,
	Parameter_Length	‘000C’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	DownstreamNbr_Address	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDownstreamNbr_Resp
Structured Type	:	MACDownstreamNbr
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2019’H,
	Parameter_Length	‘000C’H,
	Resource_Index	?,
	PAD2	PAD_2,
	DownstreamNbr_Address	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDownstreamNbr_TSTR
Structured Type	:	MACDownstreamNbr
Derivation Path	:	MACDownstreamNbr_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	Resource_Index	BY	M_Indx
REPLACE	DownstreamNbr_Address	BY	TESTER_ADDRESS

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDownstreamNbr_UNK
Structured Type	:	MACDownstreamNbr
Derivation Path	:	MACDownstreamNbr_TSTR
Comments	:	MAC attribute.

Constraint Value			
REPLACE	DownstreamNbr_Address	BY	SMT_Unknown_Address

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ASN.1 Type Constraint Declaration		
Constraint Name : MACOldUpstreamNbr_Req		
Structured Type : MACOldUpstreamNbr		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘201A’H,
	Parameter_Length	‘000C’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	OldUpstreamNbr_Address	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACOldUpstreamNbr_Resp		
Structured Type : MACOldUpstreamNbr		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘201A’H,
	Parameter_Length	‘000C’H,
	Resource_Index	?,
	PAD2	PAD_2,
	OldUpstreamNbr_Address	? }

ASN.1 Type Constraint Declaration			
Constraint Name : MACOldUpstreamNbr_IUT			
Structured Type : MACOldUpstreamNbr			
Derivation Path : MACOldUpstreamNbr_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	OldUpstreamNbr_Address	BY	TESTER_ADDRESS

ASN.1 Type Constraint Declaration		
Constraint Name : MACOldDownstreamNbr_Req		
Structured Type : MACOldDownstreamNbr		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘201B’H,
	Parameter_Length	‘000C’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	OldDownstreamNbr_Address	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACOldDownstreamNbr_Resp
Structured Type	:	MACOldDownstreamNbr
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘201B’H,
	Parameter_Length	‘000C’H,
	Resource_Index	?,
	PAD2	PAD_2,
	OldDownstreamNbr_Address	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACOldDownstreamNbr_IUT
Structured Type	:	MACOldDownstreamNbr
Derivation Path	:	MACOldDownstreamNbr_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	OldDownstreamNbr_Address	BY	TESTER_ADDRESS

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDupAddressTest_Req
Structured Type	:	MACDupAddressTest
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘201D’H,
	Parameter_Length	‘0004’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	DupAddressTestType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDupAddressTest_Resp
Structured Type	:	MACDupAddressTest
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘201D’H,
	Parameter_Length	‘0004’H,
	Resource_Index	?,
	PAD2	PAD_2,
	DupAddressTestType	DupAddressTest_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACDupAddressTest_IUT1			
Structured Type : MACDupAddressTest			
Derivation Path : MACDupAddressTest_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	DupAddressTestType	BY	DupAdressTest_P

ASN.1 Type Constraint Declaration			
Constraint Name : MACDupAddressTest_IUT2			
Structured Type : MACDupAddressTest			
Derivation Path : MACDupAddressTest_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	DupAddressTestType	BY	DupAdressTest_F

ASN.1 Type Constraint Declaration		
Constraint Name : MACRequestedPaths_Req		
Structured Type : MACRequestedPaths		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2020'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	PAD3	OMIT,
	RequestedPaths	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACRequestedPaths_Resp		
Structured Type : MACRequestedPaths		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2020'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD3	PAD_3,
	RequestedPaths	PermittedPaths_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACRequestedPaths_IUT1			
Structured Type : MACRequestedPaths			
Derivation Path : MACRequestedPaths_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	RequestedPaths	BY	PermittedPaths_MAC1

ASN.1 Type Constraint Declaration			
Constraint Name : MACRequestedPaths_IUT2			
Structured Type : MACRequestedPaths			
Derivation Path : MACRequestedPaths_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	RequestedPaths	BY	PermittedPaths_MAC2

ASN.1 Type Constraint Declaration		
Constraint Name : MACDownstreamPORTType_Req		
Structured Type : MACDownstreamPORTType		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2021'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	DownstreamPORTType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACDownstreamPORTType_Resp		
Structured Type : MACDownstreamPORTType		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2021'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD2	PAD_2,
	DownstreamPORTType	PortType_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACDownstreamPORTType_IUT **Structured Type** : MACDownstreamPORTType **Derivation Path** : MACDownstreamPORTType_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	DownstreamPORTType	BY	PortType_B

ASN.1 Type Constraint Declaration		
Constraint Name : MACIndex_Req0 **Structured Type** : MACIndex **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2022'H,
	Parameter_Length	'0008'H,
	Resource_Index	'00000000'H,
	PAD2	OMIT,
	MACIndx	OMIT }

ASN.1 Type Constraint Declaration			
Constraint Name : MACIndex_Req1 **Structured Type** : MACIndex **Derivation Path** : MACIndex_Req0 **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	'00000001'H

ASN.1 Type Constraint Declaration		
Constraint Name : MACIndex_Resp **Structured Type** : MACIndex **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2022'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD2	PAD_2,
	MACIndx	? }

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ASN.1 Type Constraint Declaration			
Constraint Name	: MACIndex_0		
Structured Type	: MACIndex		
Derivation Path	: MACIndex_Resp		
Comments	: MAC attribute.		
Constraint Value			
REPLACE	Resource_Index	BY	‘00000000’H
REPLACE	MACIndx	BY	MAC_Indx

ASN.1 Type Constraint Declaration			
Constraint Name	: MACIndex_1		
Structured Type	: MACIndex		
Derivation Path	: MACIndex_Resp		
Comments	: MAC attribute.		
Constraint Value			
REPLACE	Resource_Index	BY	‘00000001’H
REPLACE	MACIndx	BY	M_Indx1

10.3.2.2.3 MAC Address Group Attributes Constraints

ASN.1 Type Constraint Declaration				
Constraint Name	: MACAddressGrp_Resp			
Structured Type	: MACAddressGrp			
Derivation Path	:			
Comments	: MAC attribute group.			
Constraint Value				
{	smtaddress	MACSMTAddress_Resp,		
	longgrpaddress	MACLongGrpAddress_Resp,	--optional--	
	shortgrpaddress	MACShortGrpAddress_Resp	--optional--	}

ASN.1 Type Constraint Declaration		
Constraint Name	: MACSMTAddress_Req	
Structured Type	: MACSMTAddress	
Derivation Path	:	
Comments	: MAC attribute.	
Constraint Value		
{	Parameter_Type	‘2029’H,
	Parameter_Length	‘000C’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	SMTAdderss	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACSMTAddress_Resp **Structured Type** : MACSMTAddress **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2029’H,
	Parameter_Length	‘000C’H,
	Resource_Index	?,
	PAD2	PAD_2,
	SMTAdderss	IUT_ADDRESS }

ASN.1 Type Constraint Declaration			
Constraint Name : MACSMTAddress_IUT **Structured Type** : MACSMTAddress **Derivation Path** : MACSMTAddress_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx

ASN.1 Type Constraint Declaration		
Constraint Name : MACLongGrpAddress_Req **Structured Type** : MACLongGrpAddress **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘202C’H,
	Parameter_Length	OMIT,
	Resource_Index	M_Indnx,
	LongGrpAddress	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACLongGrpAddress_Resp **Structured Type** : MACLongGrpAddress **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘202C’H,
	Parameter_Length	?,
	Resource_Index	?,
	LongGrpAddress	LongAddressSet_S }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACLongGrpAddress_IUT **Structured Type** : MACLongGrpAddress **Derivation Path** : MACLongGrpAddress_Resp **Comments** : MAC attribute. This attribute is optional.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	LongGrpAddress	BY	LongAddressSet_IUT

ASN.1 Type Constraint Declaration		
Constraint Name : MACShortGrpAddress_Req **Structured Type** : MACShortGrpAddress **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'202D'H,
	Parameter_Length	OMIT,
	Resource_Index	M_Indx,
	ShortGrpAddress	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACShortGrpAddress_Resp **Structured Type** : MACShortGrpAddress **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'202D'H,
	Parameter_Length	?,
	Resource_Index	?,
	ShortGrpAddress	ShortAddressSet_S }

ASN.1 Type Constraint Declaration			
Constraint Name : MACShortGrpAddress_IUT **Structured Type** : MACShortGrpAddress **Derivation Path** : MACShortGrpAddress_Resp **Comments** : MAC attribute. This attribute is optional.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	ShortGrpAddress	BY	ShortAddressSet_IUT

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10.3.2.2.4 MAC Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration				
Constraint Name : MACOperationGrp_Resp **Structured Type** : MACOperationGrp **Derivation Path** : **Comments** : MAC attribute group.				
Constraint Value				
{	treq	MACT_Req_Resp,		
	tneg	MACT_Neg_Resp,		
	tmax	MACT_Max_Resp,		
	tvxvalue	MACTvxValue_Resp,		
	tpri0	MACT_Pri0_Resp,	--optional--	
	tpri1	MACT_Pri1_Resp,	--optional--	
	tpri2	MACT_Pri2_Resp,	--optional--	
	tpri3	MACT_Pri3_Resp,	--optional--	
	tpri4	MACT_Pri4_Resp,	--optional--	
	tpri5	MACT_Pri5_Resp,	--optional--	
	tpri6	MACT_Pri6_Resp	--optional--	}

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Req_Req **Structured Type** : MACT_Req **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2033'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	T_ReqType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Req_Resp **Structured Type** : MACT_Req **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2033'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	T_ReqType	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACT_Req_IUT **Structured Type** : MACT_Req **Derivation Path** : MACT_Req_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	T_ReqType	BY	INT_TO_HEX(HIGHER_T_BID, 8)
--Refer to “INIT_BID” test step in the RMT ATS for HIGHER_T_BID value--			

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Neg_Req **Structured Type** : MACT_Neg **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2034’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_NegType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Neg_Resp **Structured Type** : MACT_Neg **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2034’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	T_NegType	? }

ASN.1 Type Constraint Declaration			
Constraint Name : MACT_Neg_IUT **Structured Type** : MACT_Neg **Derivation Path** : MACT_Neg_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	T_NegType	BY	INT_TO_HEX(HIGHER_T_BID,8)

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ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Max_Req **Structured Type** : MACT_Max **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2035’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Index,
	T_MaxType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Max_Resp **Structured Type** : MACT_Max **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2035’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	T_MaxType	? }

ASN.1 Type Constraint Declaration			
Constraint Name : MACT_Max_IUT **Structured Type** : MACT_Max **Derivation Path** : MACT_Max_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	T_NegType	BY	INT_TO_HEX(TTC(TIME(TSTR_T_Max)),8)

ASN.1 Type Constraint Declaration		
Constraint Name : MACTvxValue_Req **Structured Type** : MACTvxValue **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2036’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	TvxValueType	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTvxValue_Resp
Structured Type	:	MACTvxValue
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2036’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	TvxValueType	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACTvxValue_IUT
Structured Type	:	MACTvxValue
Derivation Path	:	MACTvxValue_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	T_NegType	BY	INT_TO_HEX(TTC(TIME(TSTR_TvxValue)),8)

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri0_Req
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2038’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri0_Resp
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2038’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri0_IUT **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2038’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri0)), 8) }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri1_Req **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2039’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri1_Resp **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2039’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri1_IUT **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2039’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri1)), 8) }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri2_Req
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203A’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri2_Resp
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203A’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri2_IUT
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203A’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri2)), 8) }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri3_Req
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203B’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri3_Resp
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203B’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri3_IUT
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203B’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri3)), 8) }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri4_Req
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203C’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri4_Resp
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	+MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘203C’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri4_IUT **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘203C’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri4)), 8) }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri5_Req **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘203D’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri5_Resp **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘203D’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

ASN.1 Type Constraint Declaration		
Constraint Name : MACT_Pri5_IUT **Structured Type** : MACT_Pri **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘203D’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Idnx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri5)), 8) }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri6_Req
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	'203E'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	T_PriType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri6_Resp
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	'203E'H,
	Parameter_Length	?,
	Resource_Index	?,
	T_PriType	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACT_Pri6_IUT
Structured Type	:	MACT_Pri
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	'203E'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	T_PriType	INT_TO_HEX(TTC(TIME(T_Pri6)), 8) }

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10.3.2.2.5 MAC Counters Group Attributes Constraints

ASN.1 Type Constraint Declaration				
Constraint Name	: MACCountersGrp_Resp			
Structured Type	: MACCountersGrp			
Derivation Path	:			
Comments	: MAC attribute group.			
Constraint Value				
{	framect	MACFrame_Ct_Resp,		
	copiedct	MACCopied_Ct_Resp,		
	transmitct	MACTransmit_Ct_Resp,		
	tokenct	MACToken_Ct_Resp,	--optional--	
	errorct	MACError_Ct_Resp,		
	lostct	MACLost_Ct_Resp,		
	tvxexpiredct	MACTvxExpired_Ct_Resp,	--optional--	
	notcopiedct	MACNotCopied_Ct_Resp,	--optional--	
	latect	MACLate_Ct_Resp,	--optional--	
	ringopct	MACRingOp_Ct_Resp	--optional--	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACFrame_Ct_Req		
Structured Type	: MACFrame_Ct		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type	‘2047’H,	
	Parameter_Length	‘0008’H,	
	Resource_Index	M_Indx,	
	Frame_Ct	OMIT	}

ASN.1 Type Constraint Declaration			
Constraint Name	: MACFrame_Ct_Resp		
Structured Type	: MACFrame_Ct		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type	‘2047’H,	
	Parameter_Length	‘0008’H,	
	Resource_Index	?,	
	Frame_Ct	?	}

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ASN.1 Type Constraint Declaration			
Constraint Name : MACFrame_Ct_IUT1			
Structured Type : MACFrame_Ct			
Derivation Path : MACFrame_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Frame_Ct	BY	FRM_CT1

ASN.1 Type Constraint Declaration			
Constraint Name : MACFrame_Ct_IUT2			
Structured Type : MACFrame_Ct			
Derivation Path : MACFrame_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Frame_Ct	BY	FRM_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACCopied_Ct_Req		
Structured Type : MACCopied_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2048'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Copied_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACCopied_Ct_Resp		
Structured Type : MACCopied_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2048'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	Copied_Ct	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACCopied_Ct_IUT1			
Structured Type : MACCopied_Ct			
Derivation Path : MACCopied_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Copied_Ct	BY	CP_CT1

ASN.1 Type Constraint Declaration			
Constraint Name : MACCopied_Ct_IUT2			
Structured Type : MACCopied_Ct			
Derivation Path : MACCopied_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Copied_Ct	BY	CP_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACTransmit_Ct_Req		
Structured Type : MACTransmit_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2049'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Transmit_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACTransmit_Ct_Resp		
Structured Type : MACTransmit_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2049'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	Transmit_Ct	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACTransmit_Ct_IUT1			
Structured Type : MACTransmit_Ct			
Derivation Path : MACTransmit_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Transmit_Ct	BY	XMIT_CT1

ASN.1 Type Constraint Declaration			
Constraint Name : MACTransmit_Ct_IUT2			
Structured Type : MACTransmit_Ct			
Derivation Path : MACTransmit_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Transmit_Ct	BY	XMIT_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACToken_Ct_Req		
Structured Type : MACToken_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'204A'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Token_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACToken_Ct_Resp		
Structured Type : MACToken_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'204A'H,
	Parameter_Length	?,
	Resource_Index	?,
	Token_Ct	* }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACToken_Ct_IUT1		
Structured Type : MACToken_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'204A'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Token_Ct	TK_CT1 }

ASN.1 Type Constraint Declaration			
Constraint Name : MACToken_Ct_IUT2			
Structured Type : MACToken_Ct			
Derivation Path : MACToken_Ct_IUT1			
Comments : MAC attribute. This attribute is optional.			
Constraint Value			
REPLACE	Token_Ct	BY	TK_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACError_Ct_Req		
Structured Type : MACError_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2051'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Error_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACError_Ct_Resp		
Structured Type : MACError_Ct		
Derivation Path :		
Comments : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2051'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	Error_Ct	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACError_Ct_IUT1 **Structured Type** : MACError_Ct **Derivation Path** : MACError_Ct_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Error_Ct	BY	ER_CT1

ASN.1 Type Constraint Declaration			
Constraint Name : MACError_Ct_IUT2 **Structured Type** : MACError_Ct **Derivation Path** : MACError_Ct_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Error_Ct	BY	ER_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACLost_Ct_Req **Structured Type** : MACLost_Ct **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2052'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	Lost_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACLost_Ct_Resp **Structured Type** : MACLost_Ct **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	'2052'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	Lost_Ct	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : MACLost_Ct_IUT1			
Structured Type : MACLost_Ct			
Derivation Path : MACLost_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Lost_Ct	BY	LST_CT1

ASN.1 Type Constraint Declaration			
Constraint Name : MACLost_Ct_IUT2			
Structured Type : MACLost_Ct			
Derivation Path : MACLost_Ct_Resp			
Comments : MAC attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	Lost_Ct	BY	LST_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACTvxExpired_Ct_Req		
Structured Type : MACTvxExpired_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'2053'H,
	Parameter_Length	'0008'H,
	Resource_Index	M_Indx,
	TvxExpired_Ct	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACTvxExpired_Ct_Resp		
Structured Type : MACTvxExpired_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'2053'H,
	Parameter_Length	?,
	Resource_Index	?,
	TvxExpired_Ct	* }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACTvxExpired_Ct_IUT1		
Structured Type : MACTvxExpired_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2053’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	TvxExpired_Ct	TE_CT1 }

ASN.1 Type Constraint Declaration			
Constraint Name : MACTvxExpired_Ct_IUT2			
Structured Type : MACTvxExpired_Ct			
Derivation Path : MACTvxExpired_Ct_IUT1			
Comments : MAC attribute. This attribute is optional.			
Constraint Value			
REPLACE	TvxExpired_Ct	BY	TE_CT2

ASN.1 Type Constraint Declaration		
Constraint Name : MACNotCopied_Ct_Resp		
Structured Type : MACNotCopied_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2054’H,
	Parameter_Length	?,
	Resource_Index	?,
	NotCopied_Ct	* }

ASN.1 Type Constraint Declaration		
Constraint Name : MACLate_Ct_Req		
Structured Type : MACLate_Ct		
Derivation Path :		
Comments : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘2055’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	Late_Ct	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLate_Ct_Resp
Structured Type	:	MACLate_Ct
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2055’H,
	Parameter_Length	?,
	Resource_Index	?,
	Late_Ct	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLate_Ct_IUT1
Structured Type	:	MACLate_Ct
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2055’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	Late_Ct	LT_CT1 }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACLate_Ct_IUT2
Structured Type	:	MACLate_Ct
Derivation Path	:	MACLate_Ct_IUT1
Comments	:	MAC attribute. This attribute is optional.

Constraint Value			
REPLACE	Late_Ct	BY	LT_CT2

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACRingOp_Ct_Resp
Structured Type	:	MACRingOp_Ct
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2056’H,
	Parameter_Length	?,
	Resource_Index	?,
	RingOp_Ct	* }

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10.3.2.2.6 MAC Frame Error Condition Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorConditionGrp_Resp
Structured Type	:	MACFrameErrorConditionGrp
Derivation Path	:	
Comments	:	MAC attribute group.

Constraint Value		
{	frameerrorthreshold	MACFrameErrorThreshold_Resp,
	frameerrorratio	MACFrameErrorRatio_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorThreshold_Resp
Structured Type	:	MACFrameErrorThreshold
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘205F’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	FrameErrorThreshold	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorRatio_Resp
Structured Type	:	MACFrameErrorRatio
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2060’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	FrameErrorRatio	? }

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10.3.2.2.7 MAC Not Copied Condition Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name : MACNotCopiedConditionGrp_Resp **Structured Type** : MACNotCopiedConditionGrp **Derivation Path** : **Comments** : MAC attribute group.			
Constraint Value			
{	notcopiedthreshold	MACNotCopiedThreshold_Resp,	--optional--
	notcopiedratio	MACNotCopiedRatio_Resp	--optional-- }

ASN.1 Type Constraint Declaration		
Constraint Name : MACNotCopiedThreshold_Resp **Structured Type** : MACNotCopiedThreshold **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'2067'H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD2	*,
	NotCopiedThreshold	* }

ASN.1 Type Constraint Declaration		
Constraint Name : MACNotCopiedRatio_Resp **Structured Type** : MACNotCopiedRatio **Derivation Path** : **Comments** : MAC attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	'2069'H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD2	*,
	NotCopiedRatio *	}

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10.3.2.2.8 MAC Status Group Attributes Constraints

ASN.1 Type Constraint Declaration			
Constraint Name	: MACStatusGrp_Resp		
Structured Type	: MACStatusGrp		
Derivation Path	:		
Comments	: MAC attribute group.		
Constraint Value			
{	rmtstate	MACRMTState_Resp,	
	daflag	MACDA_Flag_Resp,	
	undaflag	MACUNDA_Flag_Resp,	
	frameerrorflag	MACFrameErrorFlag_Resp,	
	notcopiedflag	MACNotCopiedFlag_Resp,	--optional--
	unitdataavailable	MACUnitDataAvailable_Resp,	
	hardwarepresent	MACHardwarePresent_Resp,	
	maunitdataavailable	MACMA_UnitdataEnable_Resp }	

ASN.1 Type Constraint Declaration			
Constraint Name	: MACRMTState_Req		
Structured Type	: MACRMTState		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type	'206F'H,	
	Parameter_Length	'0008'H,	
	Resource_Index	OMIT,	
	PAD2	OMIT,	
	RMTStateType	OMIT }	

ASN.1 Type Constraint Declaration			
Constraint Name	: MACRMTState_Resp		
Structured Type	: MACRMTState		
Derivation Path	:		
Comments	: MAC attribute.		
Constraint Value			
{	Parameter_Type	'206F'H,	
	Parameter_Length	'0008'H,	
	Resource_Index	?,	
	PAD2	PAD_2,	
	RMTStateType	RMTState_Q }	

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACRMTState_IUT
Structured Type	:	MACRMTState
Derivation Path	:	MACRMTState_Resp
Comments	:	MAC attribute.

Constraint Value		
REPLACE	RMTStateType BY	RMTState_2

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDA_Flag_Req
Structured Type	:	MACDA_Flag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	'2070'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	PAD3	OMIT,
	DA_Flag	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDA_Flag_Resp
Structured Type	:	MACDA_Flag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	'2070'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD3	PAD_3,
	DA_Flag	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDA_Flag_IUT
Structured Type	:	MACDA_Flag
Derivation Path	:	MACDA_Flag_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	DA_Flag	BY	FALSE

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUNDA_Flag_Req
Structured Type	:	MACUNDA_Flag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	'2071'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	PAD3	OMIT,
	UNDA_Flag	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUNDA_Flag_Resp
Structured Type	:	MACUNDA_Flag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	'2071'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD3	PAD_3,
	UNDA_Flag	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUNDA_Flag_IUT1
Structured Type	:	MACUNDA_Flag
Derivation Path	:	MACUNDA_Flag_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	UNDA_Flag	BY	FALSE

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACUNDA_Flag_IUT2
Structured Type	:	MACUNDA_Flag
Derivation Path	:	MACUNDA_Flag_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	UNDA_Flag	BY	TRUE

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorFlag_Req
Structured Type	:	MACFrameErrorFlag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2072’H,
	Parameter_Length	‘0008’H,
	Resource_Index	OMIT,
	PAD3	OMIT,
	FrameErrorfFag	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACFrameErrorFlag_Resp
Structured Type	:	MACFrameErrorFlag
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2072’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	FrameErrorfFag	FALSE }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACNotCopiedFlag_Resp
Structured Type	:	MACNotCopiedFlag
Derivation Path	:	
Comments	:	MAC attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘2073’H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD3	*,
	NotCopiedFlag	* }

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ASN.1 Type Constraint Declaration		
Constraint Name : MACMA_UnitdataAvailable_Req **Structured Type** : MACMA_UnitdataAvailable **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2074’H,
	Parameter_Length	‘0008’H,
	Resource_Index	OMIT,
	PAD3	OMIT,
	MA_UnitdataAvailable	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : MACMA_UnitdataAvailable_Resp **Structured Type** : MACMA_UnitdataAvailable **Derivation Path** : **Comments** : MAC attribute.		
Constraint Value		
{	Parameter_Type	‘2074’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	MA_UnitdataAvailable	? }

ASN.1 Type Constraint Declaration			
Constraint Name : MACMA_UnitdataAvailable_IUT **Structured Type** : MACMA_UnitdataAvailable **Derivation Path** : MACMA_UnitdataAvailable_Resp **Comments** : MAC attribute.			
Constraint Value			
REPLACE	MA_UnitdataAvailable	BY	TRUE

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACHardwarePresent_Req
Structured Type	:	MACHardwarePresent
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2075’H,
	Parameter_Length	‘0008’H,
	Resource_Index	M_Indx,
	PAD2	OMIT,
	HWPresent	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACHardwarePresent_Resp
Structured Type	:	MACHardwarePresent
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2075’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	HWPresent	Present_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACHardwarePresent_IUT
Structured Type	:	MACHardwarePresent
Derivation Path	:	MACHardwarePresent_Resp
Comments	:	MAC attribute.

Constraint Value			
REPLACE	Resource_Index	BY	M_Indx,
REPLACE	HWPresent	BY	Present_1

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACMA_UnitdataEnable_Req
Structured Type	:	MACMA_UnitdataEnable
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2076’H,
	Parameter_Length	‘0008’H,
	Resource_Index	OMIT,
	PAD3	OMIT,
	MA_UnitdataEnable	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	MACMA_UnitdataEnable_Resp
Structured Type	:	MACMA_UnitdataEnable
Derivation Path	:	
Comments	:	MAC attribute.

Constraint Value		
{	Parameter_Type	‘2076’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	MA_UnitdataEnable	TRUE --default value--}

10.3.2.3 ASN.1 Type Constraint for PATH Attributes

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHGrp_Req
Structured Type	:	PATHGrp
Derivation Path	:	
Comments	:	fddiPATHConfigGrp.

Constraint Value		
{	Parameter_Type	‘320A’H,
	Parameter_Length	OMIT,
	Resource_Index	OMIT,
	Parameter_Value	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHGrp_Resp
Structured Type	:	PATHGrp
Derivation Path	:	
Comments	:	fddiPATHConfigGrp.

Constraint Value		
{	Parameter_Type	‘320A’H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PATHConfigGrp_Resp }

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ASN.1 Type Constraint Declaration			
Constraint Name : PATHConfigGrp_Resp **Structured Type** : PATHConfigGrp **Derivation Path** : **Comments** : PATH attribute group.			
Constraint Value			
{	index	PATHIndex_Resp,	
	ringlatency	PATHRingLatency_Resp,	--optional--
	tracestatus	PATHTraceStatus_Resp,	--optional--
	sbapayload	PATHSbaPayload_Resp,	--optional--
	sbaoverhead	PATHSbaOverhead_Resp,	--optional--
	configuration	PATHConfiguration_Resp,	
	trmode	PATHT_Rmode_Resp,	--optional--
	sbaavailable	PATHSbaAvailable_Resp,	--optional--
	tvxlowerbound	PATHTVXLowerBound_Resp,	
	tmaxlowerbound	PATHT_MaxLowerBound_Resp,	
	maxtreq	PATHMaxT_Req_Resp }	

ASN.1 Type Constraint Declaration		
Constraint Name : PATHIndex_Req **Structured Type** : PATHIndex **Derivation Path** : **Comments** : PATH attribute.		
Constraint Value		
{	Parameter_Type	'320B'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	PAD2	OMIT,
	Index	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHIndex_Resp **Structured Type** : PATHIndex **Derivation Path** : **Comments** : PATH attribute.		
Constraint Value		
{	Parameter_Type	'320B'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD2	PAD_2,
	Index	? }

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ASN.1 Type Constraint Declaration				
Constraint Name : PATHIndex_IUT **Structured Type** : PATHIndex **Derivation Path** : **Comments** : PATH attribute.				
Constraint Value				
REPLACE	Index	BY	‘0001’H	--primary--

ASN.1 Type Constraint Declaration		
Constraint Name : PATHRingLatency_Req **Structured Type** : PATHRingLatency **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘320D’H,
	Parameter_Length	‘0008’H,
	Resource_Index	OMIT,
	RingLatency	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHRingLatency_Resp **Structured Type** : PATHRingLatency **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘320D’H,
	Parameter_Length	?,
	Resource_Index	?,
	RingLatency	* }

ASN.1 Type Constraint Declaration			
Constraint Name : PATHRingLatency_IUT **Structured Type** : PATHRingLatency **Derivation Path** : PATHRingLatency_Resp **Comments** : PATH attribute. This attribute is optional.			
Constraint Value			
REPLACE	RingLatency	BY	R_Latency

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ASN.1 Type Constraint Declaration		
Constraint Name : PATHTraceStatus_Resp		
Structured Type : PATHTraceStatus		
Derivation Path :		
Comments : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘320E’H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD2	PAD_2,
	TraceStatusType	TraceStatus_S }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHSbaPayload_Resp		
Structured Type : PATHSbaPayload		
Derivation Path :		
Comments : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘320F’H,
	Parameter_Length	?,
	Resource_Index	?,
	SbaPayload	* }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHSbaOverhead_Resp		
Structured Type : PATHSbaOverhead		
Derivation Path :		
Comments : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘3210’H,
	Parameter_Length	?,
	Resource_Index	?,
	SbaOverhead	* }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHConfiguration_Resp		
Structured Type : PATHConfiguration		
Derivation Path :		
Comments : PATH attribute.		
Constraint Value		
{	Parameter_Type	‘3212’H,
	Parameter_Length	?,
	Resource_Index	?,
	Configuration	PathConfig_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name : PATHT_Rmode_Req **Structured Type** : PATHT_Rmode **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘3213’H,
	Parameter_Length	‘0008’H,
	Resource_Index	OMIT,
	T_RmodeType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHT_Rmode_Resp **Structured Type** : PATHT_Rmode **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.		
Constraint Value		
{	Parameter_Type	‘3213’H,
	Parameter_Length	?,
	Resource_Index	?,
	T_RmodeType	* }

ASN.1 Type Constraint Declaration			
Constraint Name : PATHT_Rmode_IUT1 **Structured Type** : PATHT_Rmode **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.			
Constraint Value			
REPLACE	Resource_Index	BY	‘0008’H,
REPLACE	T_RmodeType	BY	TIME(T_Rmode)

ASN.1 Type Constraint Declaration			
Constraint Name : PATHT_Rmode_IUT2 **Structured Type** : PATHT_Rmode **Derivation Path** : **Comments** : PATH attribute. This attribute is optional.			
Constraint Value			
REPLACE	Resource_Index	BY	‘0008’H,
REPLACE	T_RmodeType	BY	TIME(2000)
--Assume 2 seconds is the desired T_Rmode requested by the tester’s PMF set request frame.--			
--Note: Any desired T_Rmode within a range of zero second to 343.597 seconds is acceptable--			

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHSbaAvailable_Resp
Structured Type	:	PATHSbaAvailable
Derivation Path	:	
Comments	:	PATH attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	'3214'H,
	Parameter_Length	?,
	Resource_Index	?
	SbaAvailable	* }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHTVXLowerBound_Req
Structured Type	:	PATHTVXLowerBound
Derivation Path	:	
Comments	:	PATH attribute.

Constraint Value		
{	Parameter_Type	'3215'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	TVXLowerBound	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHTVXLowerBound_Resp
Structured Type	:	PATHTVXLowerBound
Derivation Path	:	
Comments	:	PATH attribute.

Constraint Value		
{	Parameter_Type	'3215'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	TVXLowerBound	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PATHTVXLowerBound_IUT
Structured Type	:	PATHTVXLowerBound
Derivation Path	:	PATHTVXLowerBound_Resp
Comments	:	PATH attribute.

Constraint Value			
REPLACE	TVXLowerBound	BY	INT_TO_HEX(TTC(TIME(2500)), 8)

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ASN.1 Type Constraint Declaration		
Constraint Name : PATHT_MaxLowerBound_Req		
Structured Type : PATHT_MaxLowerBound		
Derivation Path :		
Comments : PATH attribute.		
Constraint Value		
{	Parameter_Type	'3216'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	T_MaxLowerBound	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PATHT_MaxLowerBound_Resp		
Structured Type : PATHT_MaxLowerBound		
Derivation Path :		
Comments : PATH attribute.		
Constraint Value		
{	Parameter_Type	'3216'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	T_MaxLowerBound	? }

ASN.1 Type Constraint Declaration			
Constraint Name : PATHT_MaxLowerBound_IUT			
Structured Type : PATHT_MaxLowerBound			
Derivation Path : PATHT_MaxLowerBound_Resp			
Comments : PATH attribute.			
Constraint Value			
REPLACE	T_MaxLowerBound	BY	INT_TO_HEX(TTC(TIME(165)), 8)

ASN.1 Type Constraint Declaration		
Constraint Name : PATHMaxT_Req_Req		
Structured Type : PATHMaxT_Req		
Derivation Path :		
Comments : PATH attribute.		
Constraint Value		
{	Parameter_Type	'3217'H,
	Parameter_Length	'0008'H,
	Resource_Index	OMIT,
	MaxT_Req	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name : PATHMaxT_Req_Resp		
Structured Type : PATHMaxT_Req		
Derivation Path :		
Comments : PATH attribute.		
Constraint Value		
{	Parameter_Type	‘3217’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	MaxT_Req	? }

ASN.1 Type Constraint Declaration			
Constraint Name : PATHMaxT_Req_IUT			
Structured Type : PATHMaxT_Req			
Derivation Path : PATHMaxT_Req_Resp			
Comments : PATH attribute.			
Constraint Value			
REPLACE	MaxT_Req	BY	INT_TO_HEX(TTC(TIME(165)), 8)

10.3.2.4 ASN.1 Type Constraint for PORT Attributes

ASN.1 Type Constraint Declaration		
Constraint Name : PORTGrp1_Req		
Structured Type : PORTGrp		
Derivation Path :		
Comments : fddiPORTConfigGrp.		
Constraint Value		
{	Parameter_Type	‘400A’H,
	Parameter_Length	OMIT,
	Resource_Index	OMIT,
	Parameter_Value	OMIT }

ASN.1 Type Constraint Declaration			
Constraint Name : PORTGrp2_Req			
Structured Type : PORTGrp			
Derivation Path : PORTGrp1_resp			
Comments : fddiPORTOperationGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘401E’H

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTGrp3_Req **Structured Type** : PORTGrp **Derivation Path** : PORTGrp1_Resp **Comments** : fddiPORTErrorCtrsGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘4028’H

ASN.1 Type Constraint Declaration			
Constraint Name : PORTGrp4_Req **Structured Type** : PORTGrp **Derivation Path** : PORTGrp1_Resp **Comments** : fddiPORTLerGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘4032’H

ASN.1 Type Constraint Declaration			
Constraint Name : PORTGrp5_Req **Structured Type** : PORTGrp **Derivation Path** : PORTGrp1_Resp **Comments** : fddiPORTStatusGrp.			
Constraint Value			
REPLACE	Parameter_Type	BY	‘403C’H

ASN.1 Type Constraint Declaration		
Constraint Name : PORTGrp1_Resp **Structured Type** : PORTGrp **Derivation Path** : **Comments** : fddiPORTConfigGrp.		
Constraint Value		
{	Parameter_Type	‘400A’H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PORTConfigGrp_Resp }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTGrp2_Resp
Structured Type	:	PORTGrp
Derivation Path	:	
Comments	:	fddiPORTOperationGrp.

Constraint Value		
{	Parameter_Type	'401E'H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PORTOperationGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTGrp3_Resp
Structured Type	:	PORTGrp
Derivation Path	:	
Comments	:	fddiPORTErrorCtrsGrp.

Constraint Value		
{	Parameter_Type	'4028'H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PORTErrorCtrsGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTGrp4_Resp
Structured Type	:	PORTGrp
Derivation Path	:	
Comments	:	fddiPORTLerGrp.

Constraint Value		
{	Parameter_Type	'4032'H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PORTLerGrp_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTGrp5_Resp
Structured Type	:	PORTGrp
Derivation Path	:	
Comments	:	fddiPORTStatusGrp.

Constraint Value		
{	Parameter_Type	'403C'H,
	Parameter_Length	?,
	Resource_Index	?,
	Parameter_Value	PORTStatusGrp_Resp }

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10.3.2.4.1 PORT Configuration Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConfigGrp_Resp
Structured Type	:	PORTConfigGrp
Derivation Path	:	
Comments	:	PORT attribute group.

Constraint Value

```
{       mytype              PORTMyType_Resp,
        neighbortype        PORTNeighborType_Resp,
        connectionpolicies  PORTConnectionPolicies_Resp,
        macindicated        PORTMACIndicated_Resp,
        currentpath         PORTCurrentPath_Resp,
        requestedpath       PORTRequestedPaths_Resp,
        macplacement        PORTMACPlacement_Resp,
        availablepath       PORTAvailablePaths_Resp,
        macllooptime        PORTMACLoop_Time_Resp,    -- optional--
        pmdclass            PORTPMDClass_Resp,
        connectioncapabilities PORTConnectionCapabilities_Resp,
        index               PORTIndex_Resp        }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMyType_Req
Structured Type	:	PORTMyType
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value

```
{       Parameter_Type      ‘400C’H,
        Parameter_Length    ‘0008’H,
        Resource_Index      P_Indx, --Index of port A--
        PAD2                OMIT,
        MyType              OMIT    }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMyType_Resp
Structured Type	:	PORTMyType
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value

```
{       Parameter_Type      ‘400C’H,
        Parameter_Length    ‘0008’H,
        Resource_Index      ?,
        PAD2                PAD_2,
        MyType              PortType_Q      }
```

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTMyType_IUT **Structured Type** : PORTMyType **Derivation Path** : PORTMyType_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE REPLACE	Resource_Index MyType	BY BY	P_Indx, PortType_A

ASN.1 Type Constraint Declaration		
Constraint Name : PORTNeighborType_Req **Structured Type** : PORTNeighborType **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{ 	Parameter_Type Parameter_Length Resource_Index PAD2 NeighborType	‘400D’H, ‘0008’H, P_Indx, --Index of port A-- OMIT, OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTNeighborType_Resp **Structured Type** : PORTNeighborType **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{ 	Parameter_Type Parameter_Length Resource_Index PAD2 NeighborType	‘400D’H, ‘0008’H, ?, PAD_2, PortType_Q }

ASN.1 Type Constraint Declaration			
Constraint Name : PORTNeighborType_IUT **Structured Type** : PORTNeighborType **Derivation Path** : PORTNeighborType_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE REPLACE	Resource_Index NeighborType	BY BY	P_Indx, PortType_B

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectionPolicies_Resp
Structured Type	:	PORTConnectionPolicies
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘400E’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	ConnectionPoliciesType	ConnectionPolicies_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMACIndicated_Resp
Structured Type	:	PORTMACIndicated
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘400F’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	T_Val9	?,
	R_Val9	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTCurrentPath_Req
Structured Type	:	PORTCurrentPath
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4010’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx,
	PAD2	OMIT,
	CurrentPath	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTCurrentPath_Resp
Structured Type	:	PORTCurrentPath
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4010’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	CurrentPath	CurrentPathType_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTCurrentPath_IUT
Structured Type	:	PORTCurrentPath
Derivation Path	:	PORTCurrentPath_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	CurrentPath	BY	P_CurrentPath

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTRequestedPaths_Req
Structured Type	:	PORTRequestedPaths
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4011’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx, --use appropriate index for the requested port--
	PAD2	OMIT,
	RequestedPaths	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTRequestedPaths_Resp
Structured Type	:	PORTRequestedPaths
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4011’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	RequestedPaths	RequestedPaths_Q }

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTRequestedPaths_A			
Structured Type : PORTRequestedPaths			
Derivation Path : PORTRequestedPaths_Resp			
Comments : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port A--
REPLACE	RequestedPaths	BY	RequestedPaths_A

ASN.1 Type Constraint Declaration			
Constraint Name : PORTRequestedPaths_B1			
Structured Type : PORTRequestedPaths			
Derivation Path : PORTRequestedPaths_Resp			
Comments : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port B--
REPLACE	RequestedPaths	BY	RequestedPaths_B1

ASN.1 Type Constraint Declaration			
Constraint Name : PORTRequestedPaths_B2			
Structured Type : PORTRequestedPaths			
Derivation Path : PORTRequestedPaths_Resp			
Comments : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port B--
REPLACE	RequestedPaths	BY	RequestedPaths_B2

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTRequestedPaths_S			
Structured Type : PORTRequestedPaths			
Derivation Path : PORTRequestedPaths_Resp			
Comments : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port S--
REPLACE	RequestedPaths	BY	RequestedPaths_S

ASN.1 Type Constraint Declaration			
Constraint Name : PORTRequestedPaths_M			
Structured Type : PORTRequestedPaths			
Derivation Path : PORTRequestedPaths_Resp			
Comments : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port M--
REPLACE	RequestedPaths	BY	RequestedPaths_M

ASN.1 Type Constraint Declaration		
Constraint Name : PORTMACPlacement_Req		
Structured Type : PORTMACPlacement		
Derivation Path :		
Comments : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4012’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx, --Index of port B (exit port)--
	PAD2	OMIT,
	MACPlacement	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTMACPlacement_Resp		
Structured Type : PORTMACPlacement		
Derivation Path :		
Comments : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4012’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	MACPlacement	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTMACPlacement_IUT **Structured Type** : PORTMACPlacement **Derivation Path** : PORTMACPlacement_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port B (exit port)--
REPLACE	MACPlacement	BY	M_Indx

ASN.1 Type Constraint Declaration		
Constraint Name : PORTAvailablePaths_Req **Structured Type** : PORTAvailablePaths **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4013’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx, --Index of port A (or port B)--
	PAD3	OMIT,
	AvailablePaths	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTAvailablePaths_Resp **Structured Type** : PORTAvailablePaths **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4013’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	AvailablePaths	AvailablePaths_Q }

ASN.1 Type Constraint Declaration			
Constraint Name : PORTAvailablePaths_IUT **Structured Type** : PORTAvailablePaths **Derivation Path** : PORTAvailablePaths_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx, --Index of port A (or port B)--
REPLACE	AvailablePaths	BY	AvailablePaths_PS

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ASN.1 Type Constraint Declaration	
Constraint Name	: PORTMACLoop_Time_Req
Structured Type	: PORTMACLoop_Time
Derivation Path	:
Comments	: PORT attribute. This attribute is optional.

Constraint Value

```
{       Parameter_Type          ‘4015’H,
        Parameter_Length        ‘0008’H,
        Resource_Index          P_Indx, --assume index of port A--
        MACLoop_Time            OMIT    }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTMACLoop_Time_Resp
Structured Type	: PORTMACLoop_Time
Derivation Path	:
Comments	: PORT attribute. This attribute is optional.

Constraint Value

```
{       Parameter_Type          ‘4015’H,
        Parameter_Length        ?,
        Resource_Index          ?,
        MACLoop_Time            *       }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTMACLoop_Time_IUT1
Structured Type	: PORTMACLoop_Time
Derivation Path	:
Comments	: PORT attribute. This attribute is optional.

Constraint Value

```
{       Parameter_Type          ‘4015’H,
        Parameter_Length        ‘0008’H,
        Resource_Index          P_Indx,
        MACLoop_Time            TIME(T_Next9) }
```

ASN.1 Type Constraint Declaration	
Constraint Name	: PORTMACLoop_Time_IUT2
Structured Type	: PORTMACLoop_Time
Derivation Path	: PORTMACLoop_Time_IUT1
Comments	: PORT attribute. This attribute is optional.

Constraint Value

```
REPLACE         MACLoop_Time            BY      TIME(210)
--Assume 210 milliseconds is the desired T_Next(9) requested by tester’s PMF set request frame.--
--Note: Any desired T_Next(9) >= 200ms is acceptable.--
```

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPMDClass_Req
Structured Type	:	PORTPMDClass
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4016’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx,
	PAD2	OMIT,
	PMDClassType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPMDClass_Resp
Structured Type	:	PORTPMDClass
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4016’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	PMDClassType	PMDClass_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPMDClass_IUT
Structured Type	:	PORTPMDClass
Derivation Path	:	PORTPMDClass_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	PMDClassType	BY	PMD_Type

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectionCapabilities_Resp
Structured Type	:	PORTConnectionCapabilities
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4017’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	ConnectionCapabilities	ConnectionPolicies_Q }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTIndex_Req
Structured Type	:	PORTIndex
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘401D’H,
	Parameter_Length	‘0008’H,
	Resource_Index	‘00000000’H,
	PAD2	OMIT,
	PortIndx	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTIndex_Resp
Structured Type	:	PORTIndex
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘401D’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	PortIndx	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTIndex_IUT
Structured Type	:	PORTIndex
Derivation Path	:	PORTIndex_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	‘00000000’H,
REPLACE	PortIndx	BY	PORT_Indx

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10.3.2.4.2 PORT Operation Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTOperationGrp_Resp
Structured Type	:	PORTOperationGrp
Derivation Path	:	
Comments	:	PORT attribute group.

Constraint Value			
{	maintls	PORTMaint_LS_Resp,	--optional--
	bsflag	PORTBS_Flag_Resp,	
	pcls	PORTPC_LS_Resp	--optional (OP)-- }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTMaint_LS_Resp
Structured Type	:	PORTMaint_LS
Derivation Path	:	
Comments	:	PORT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘401F’H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD2	*,
	Maint_LS	LineState_S }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTBS_Flag_Resp
Structured Type	:	PORTBS_Flag
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4021’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	BS_Flag	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_LS_Req
Structured Type	:	PORTPC_LS
Derivation Path	:	
Comments	:	PORT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘4022’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx, --assume index of port A--
	PAD2	OMIT,
	PC_LS	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_LS_Resp
Structured Type	:	PORTPC_LS
Derivation Path	:	
Comments	:	PORT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘4022’H,
	Parameter_Length	?,
	Resource_Index	?,
	PAD2	*,
	PC_LS	LIneState_S }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_LS_IUT
Structured Type	:	PORTPC_LS
Derivation Path	:	PORTPC_LS_Resp
Comments	:	PORT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘4022’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx,
	PAD2	PAD_2,
	PC_LS	LIneState_Pdr }

10.3.2.4.3 PORT Error Counters Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTErrorCtrsGrp_Resp
Structured Type	:	PORTErrorCtrsGrp
Derivation Path	:	
Comments	:	PORT attribute group.

Constraint Value			
{	eberrorct	PORTEBError_Ct_Resp,	--optional (OP)--
	lctfailct	PORTLCTFail_Ct_Resp}	

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTEBError_Ct_Resp
Structured Type	:	PORTEBError_Ct
Derivation Path	:	
Comments	:	PORT attribute. This attribute is optional.

Constraint Value		
{	Parameter_Type	‘4029’H,
	Parameter_Length	?,
	Resource_Index	?,
	EBError_Ct	* }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLCTFail_Ct_Resp
Structured Type	:	PORTLCTFail_Ct
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘402A’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	LCTFail_Ct	? }

10.3.2.4.4 PORT LER Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerGrp_Resp
Structured Type	:	PORTLerGrp
Derivation Path	:	
Comments	:	POR attribute group.

Constraint Value		
{	lerestimate	PORTLer_Estimate_Resp,
	lemrejectct	PORTLem_Reject_Ct_Resp,
	lemct	PORTLem_Ct_Resp,
	lercutoff	PORTLer_Cutoff_Resp,
	leralarm	PORTLer_Alarm_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLer_Estimate_Resp
Structured Type	:	PORTLer_Estimate
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4033’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	Ler_Estimate	? }

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ASN.1 Type Constraint Declaration		
Constraint Name : PORTLem_Reject_Ct_Resp **Structured Type** : PORTLem_Reject_Ct **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4034’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	Lem_Reject_Ct	? }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTLem_Ct_Resp **Structured Type** : PORTLem_Ct **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘4035’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	Lem_Ct	? }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTLer_Cutoff_Req **Structured Type** : PORTLer_Cutoff **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘403A’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx, --assume index of port A--
	PAD3	OMIT,
	Ler_Cutoff	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTLer_Cutoff_Resp **Structured Type** : PORTLer_Cutoff **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	‘403A’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	Ler_Cutoff	? }

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ASN.1 Type Constraint Declaration			
Constraint Name : PORTLer_Cutoff_IUT **Structured Type** : PORTLer_Cutoff **Derivation Path** : PORTLer_Cutoff_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	Ler_Cutoff	BY	'07'H --default value--

ASN.1 Type Constraint Declaration		
Constraint Name : PORTLer_Alarm_Req **Structured Type** : PORTLer_Alarm **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	'403B'H,
	Parameter_Length	'0008'H,
	Resource_Index	P_Indx, --assume index of port A--
	PAD3	OMIT,
	Ler_Alarm	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name : PORTLer_Alarm_Resp **Structured Type** : PORTLer_Alarm **Derivation Path** : **Comments** : PORT attribute.		
Constraint Value		
{	Parameter_Type	'403B'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD3	PAD_3,
	Ler_Alarm	? }

ASN.1 Type Constraint Declaration			
Constraint Name : PORTLer_Alarm_IUT **Structured Type** : PORTLer_Alarm **Derivation Path** : PORTLer_Alarm_Resp **Comments** : PORT attribute.			
Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	Ler_Alarm	BY	'08'H --default value--

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10.3.2.4.5 PORT Status Group Attributes Constraints

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTStatusGrp_Resp
Structured Type	:	PORTStatusGrp
Derivation Path	:	
Comments	:	PORT attribute group.

Constraint Value		
{	connectionstate	PORTConnectState_Resp,
	pcmstate	PORTPCMState_Resp,
	pcwithhold	PORTPC_Withhold_Resp,
	lerflag	PORTLerFlag_Resp,
	hardwarepresent	PORTHardwarePresent_Resp }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectState_Req
Structured Type	:	PORTConnectState
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	'403D'H,
	Parameter_Length	'0008'H,
	Resource_Index	P_Indx, --assume index of port A--
	PAD2	OMIT,
	ConnectStateType	OMIT }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectState_Resp
Structured Type	:	PORTConnectState
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	'403D'H,
	Parameter_Length	'0008'H,
	Resource_Index	?,
	PAD2	PAD_2,
	ConnectStateType	ConnectState_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTConnectState_IUT
Structured Type	:	PORTConnectState
Derivation Path	:	PORTConnectState_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	ConnectStateType	BY	ConnectState_A }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMState_Req
Structured Type	:	PORTPCMState
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value

```
{   Parameter_Type          ‘403E’H,
    Parameter_Length        ‘0008’H,
    Resource_Index          P_Indx, --assume index of port A--
    PAD2                    OMIT,
    PCMStateType            OMIT    }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMState_Resp
Structured Type	:	PORTPCMState
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value

```
{   Parameter_Type          ‘403E’H,
    Parameter_Length        ‘0008’H,
    Resource_Index          ?,
    PAD2                    PAD_2,
    PCMStateType            PCMState_Q    }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPCMState_IUT
Structured Type	:	PORTPCMState
Derivation Path	:	PORTPCMState_Resp
Comments	:	PORT attribute.

Constraint Value

```
REPLACE     Resource_Index      BY      P_Indx,
REPLACE     PCMStateType        BY      PCMState_A    }
```

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_Withhold_Req
Structured Type	:	PORTPC_Withhold
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value

```
{   Parameter_Type          ‘403F’H,
    Parameter_Length        ‘0008’H,
    Resource_Index          P_Indx, --assume index of port A--
    PAD2                    OMIT,
    PC_WithholdType         OMIT    }
```

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_Withhold_Resp
Structured Type	:	PORTPC_Withhold
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘403F’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	PC_WithholdType	PC_Withhold_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTPC_Withhold_IUT
Structured Type	:	PORTPC_Withhold
Derivation Path	:	PORTPC_Withhold_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	PC_WithholdType	BY	PC_Withhold_N

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTLerFlag_Resp
Structured Type	:	PORTLerFlag
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4040’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD3	PAD_3,
	LerFlag	? }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTHardwarePresent_Req
Structured Type	:	PORTHardwarePresent
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4041’H,
	Parameter_Length	‘0008’H,
	Resource_Index	P_Indx,
	PAD2	OMIT,
	HWPresent	OMIT }

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ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTHardwarePresent_Resp
Structured Type	:	PORTHardwarePresent
Derivation Path	:	
Comments	:	PORT attribute.

Constraint Value		
{	Parameter_Type	‘4041’H,
	Parameter_Length	‘0008’H,
	Resource_Index	?,
	PAD2	PAD_2,
	HWPresent	Present_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	PORTHardwarePresent_IUT
Structured Type	:	PORTHardwarePresent
Derivation Path	:	PORTHardwarePresent_Resp
Comments	:	PORT attribute.

Constraint Value			
REPLACE	Resource_Index	BY	P_Indx,
REPLACE	HWPresent	BY	Present_1

10.3.2.5 ASN.1 Type Constraint for Actions and Notifications

10.3.2.5.1 Actions

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTStationAction_Q
Structured Type	:	SMTStationAction
Derivation Path	:	
Comments	:	SMT action.

Constraint Value		
{	Parameter_Type	‘103C’H,
	Parameter_Length	‘0004’H,
	PAD2	PAD_2,
	SMTAction	ActionInfo_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTStationAction_DisableA
Structured Type	:	SMTStationAction
Derivation Path	:	SMTStationAction_Q
Comments	:	SMT action.

Constraint Value			
REPLACE	SMTAction	BY	ActionInfo_DisA

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTStationAction_DisableB
Structured Type	:	SMTStationAction
Derivation Path	:	SMTStationAction_Q
Comments	:	SMT action.

Constraint Value			
REPLACE	SMTAction	BY	ActionInfo_DisB

10.3.2.5.2 Notifications

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHoldCondition_Q
Structured Type	:	SMTHoldCondition
Derivation Path	:	
Comments	:	SMT notification.

Constraint Value		
{	Parameter_Type	'1047'H,
	Parameter_Length	'0008'H,
	PAD3	PAD_3,
	ConditionState	?,
	PAD2	PAD_2,
	HoldCondition	HoldState_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHoldCondition_HP
Structured Type	:	SMTHoldCondition
Derivation Path	:	SMTHoldCondition_Q
Comments	:	SMT notification.

Constraint Value			
REPLACE	ConditionState	BY	TRUE,
REPLACE	HoldCondition	BY	HoldState_HP

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTHoldCondition_HS
Structured Type	:	SMTHoldCondition
Derivation Path	:	SMTHoldCondition_HP
Comments	:	SMT notification.

Constraint Value			
REPLACE	HoldCondition	BY	HoldState_HS

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ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapCondition_Q
Structured Type	:	SMTPeerWrapCondition
Derivation Path	:	
Comments	:	SMT notification.

Constraint Value		
{	Parameter_Type	‘1048’H,
	Parameter_Length	‘0008’H,
	PAD3	PAD_3,
	ConditionState	?,
	PAD2	PAD_2,
	PeerWrapCondition	CF_State_Q }

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapCondition_CWB
Structured Type	:	SMTPeerWrapCondition
Derivation Path	:	SMTPeerWrapCondition_Q
Comments	:	SMT notification.

Constraint Value			
REPLACE	ConditionState	BY	TRUE,
REPLACE	PeerWrapCondition	BY	CF_State_Cwrpb

ASN.1 Type Constraint Declaration		
Constraint Name	:	SMTPeerWrapCondition_CWA
Structured Type	:	SMTPeerWrapCondition
Derivation Path	:	SMTPeerWrapCondition_Q
Comments	:	SMT notification.

Constraint Value			
REPLACE	ConditionState	BY	TRUE,
REPLACE	PeerWrapCondition	BY	CF_State_Cwrpa

ASN.1 Type Constraint Declaration		
Constraint Name	:	MACDuplicateAddressCondition_UNDA
Structured Type	:	MACDuplicateAddressCondition
Derivation Path	:	
Comments	:	MAC notification.

Constraint Value		
{	Parameter_Type	‘208C’H,
	Parameter_Length	‘0018’H,
	Resource_Index	M_Indx,
	PAD3	PAD_3,
	ConditionState	TRUE,
	PAD2	PAD_2,
	DupCondition	DupCondition_UNDA,
	LongAddress	TESTER_ADDRESS,
	UNALong	? }

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10.3.2.6 Common Type Constraint Definitions

ASN.1 Type Constraint Declaration	
Constraint Name	: ActionInfo_Q
Structured Type	: ActionInfo
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: ActionInfo_DisA
Structured Type	: ActionInfo
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0004’H --disable_a--	

ASN.1 Type Constraint Declaration	
Constraint Name	: ActionInfo_DisB
Structured Type	: ActionInfo
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0005’H --disable_b--	

ASN.1 Type Constraint Declaration	
Constraint Name	: AvailablePaths_Q
Structured Type	: AvailablePathsType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000???’B	

ASN.1 Type Constraint Declaration	
Constraint Name	: AvailablePaths_PS
Structured Type	: AvailablePathsType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000011’B	--primary and secondary paths--

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ASN.1 Type Constraint Declaration	
Constraint Name	: BridgeType_Q
Structured Type	: BridgeType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'0000000000000???'B	

ASN.1 Type Constraint Declaration	
Constraint Name	: Capabilities_Q
Structured Type	: Capabilities
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'00000000000000??'B	--Refer to PIXIT 7& 8--

ASN.1 Type Constraint Declaration	
Constraint Name	: Capabilities_H
Structured Type	: Capabilities
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'0000000000000001'B	--holdavailable--

ASN.1 Type Constraint Declaration	
Constraint Name	: Capabilities_W
Structured Type	: Capabilities
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'0000000000000010'B	--cf_wrap_ab--

ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Q
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Thru
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘000C’H	--Thru--

ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Cwrpa
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0009’H	--c_wrap_a--

ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Cwrpb
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘000A’H	--c_wrap_b--

ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Wrps
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0008’H	--wrap_s--

ASN.1 Type Constraint Declaration	
Constraint Name	: CF_State_Wrpab
Structured Type	: CF_State
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0007’H	--wrap_ab--

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ASN.1 Type Constraint Declaration	
Constraint Name	: ConfigPolicy_Q
Structured Type	: ConfigPolicyType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'000000000000000?'B --Refer to PIXIT 7--	

ASN.1 Type Constraint Declaration	
Constraint Name	: Connection_Q
Structured Type	: Connection
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'1????????????????'B	

ASN.1 Type Constraint Declaration	
Constraint Name	: Connection_Test
Structured Type	: Connection
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'1000001101100101'B --Assume that rejectA-A, rejectA-S, rejectB-B, rejectB-S, rejectS-A, rejectS-B and rejectM-M is the desired connection policy -- --requested by tester's PMF set request frame. Note: Enter your own desired connectionpolicy value as you please.--	

ASN.1 Type Constraint Declaration	
Constraint Name	: ConnectionPolicies_Q
Structured Type	: ConnectPolicies
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'000000??'B	

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ASN.1 Type Constraint Declaration	
Constraint Name	: ConnectState_Q
Structured Type	: ConnectState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: ConnectState_A
Structured Type	: ConnectState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'0003'H --active--	

ASN.1 Type Constraint Declaration	
Constraint Name	: CurrentPath_Q
Structured Type	: CurrentPathType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: DupAddressTest_Q
Structured Type	: DupAddressTest
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: DupAddressTest_P
Structured Type	: DupAddressTest
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0001’H --pass--	

ASN.1 Type Constraint Declaration	
Constraint Name	: DupAddressTest_F
Structured Type	: DupAddressTest
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0002’H --fail--	

ASN.1 Type Constraint Declaration	
Constraint Name	: DupCondition_UNDA
Structured Type	: DupConditionType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0000000000000010’H --UNDA_Flag--	

ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_Q
Structured Type	: DuplAddressType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘000000??’B	

ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_R
Structured Type	: DuplAddressType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000000’B --no duplicate address on the ring--	

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ASN.1 Type Constraint Declaration	
Constraint Name	: DuplAddress_S
Structured Type	: DuplAddressType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000001’B --MyDuplicate bit SET--	

ASN.1 Type Constraint Declaration	
Constraint Name	: ECMState_Q
Structured Type	: ECMState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: FS_Functions_Q
Structured Type	: FS_Functions
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0000000000000???’B	

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ASN.1 Type Constraint Declaration	
Constraint Name	: HoldState_Q
Structured Type	: HoldState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: HoldState_HP
Structured Type	: HoldState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0001’H --holding_prm--	

ASN.1 Type Constraint Declaration	
Constraint Name	: HoldState_HS
Structured Type	: HoldState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0002’H --holding_sec--	

ASN.1 Type Constraint Declaration	
Constraint Name	: HoldState_NH
Structured Type	: HoldState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0000’H --not holding--	

ASN.1 Type Constraint Declaration	
Constraint Name	: LineState_S
Structured Type	: LineState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
*	

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ASN.1 Type Constraint Declaration	
Constraint Name	: LineState_Pdr
Structured Type	: LineState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
'0004'H --pdr (active)--	

ASN.1 Type Constraint Declaration	
Constraint Name	: LongAddressSet_S
Structured Type	: LongAddressSet
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ LongAddressType * }	

ASN.1 Type Constraint Declaration	
Constraint Name	: LongAddressSet_IUT
Structured Type	: LongAddressSet
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ LongAddressType LONG_GRP_ADD }	

ASN.1 Type Constraint Declaration	
Constraint Name	: PathConfig_Q
Structured Type	: PathConfig
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ResourceTagType ResourceTag_Q }	

ASN.1 Type Constraint Declaration	
Constraint Name	: PCMState_Q
Structured Type	: PCMState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: PCMState_A
Structured Type	: PCMState
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0008’H	--active--

ASN.1 Type Constraint Declaration	
Constraint Name	: PC_Withhold_Q
Structured Type	: PC_Withhold
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PC_Withhold_N
Structured Type	: PC_Withhold
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0000’H -	-none--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_Q
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘????????’B	

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_MAC1
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000111’B	--default value of MAC permitted paths--

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ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_MAC2
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000100’B	--primary-alternate--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_L
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000001’B	--local--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_TA
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00011001’B	--local, concatenated-alternate and secondary-preferred--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_TB
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00101001’B	--local, concatenated-alternate and primary-preferred--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_TM
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000111’B	--local, secondary-alternate and primary-alternate--

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ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_PA
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘10011001’B	--local, concatenated-alternate, secondary-preferred and thru--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_PB1
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘11100001’B	--local, primary-preferred, concatenated-preferred and thru--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_PB2
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘10101001’B	--local, concatenated-alternate, primary-preferred and thru--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_PS
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00101001’B	--local, concatenated-alternate and primary-preferred--

ASN.1 Type Constraint Declaration	
Constraint Name	: PermittedPaths_PM
Structured Type	: PermittedPaths
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘00000000’B	

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ASN.1 Type Constraint Declaration	
Constraint Name	: PMDClass_Q
Structured Type	: PMDClass
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PortType_Q
Structured Type	: PortTypeType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

ASN.1 Type Constraint Declaration	
Constraint Name	: PortType_A
Structured Type	: PortTypeType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0000’H --port A--	

ASN.1 Type Constraint Declaration	
Constraint Name	: PortType_B
Structured Type	: PortTypeType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0001’H --port B--	

ASN.1 Type Constraint Declaration	
Constraint Name	: Present_Q
Structured Type	: Present
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
?	

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ASN.1 Type Constraint Declaration	
Constraint Name	: Present_1
Structured Type	: Present
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
‘0001’H - -Present--	

ASN.1 Type Constraint Declaration	
Constraint Name	: RequestedPaths_Q
Structured Type	: RequestedPathsType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ none PermittedPaths_Q, tree PermittedPaths_Q, peer PermittedPaths_Q }	

ASN.1 Type Constraint Declaration	
Constraint Name	: RequestedPaths_A
Structured Type	: RequestedPathsType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ none PermittedPaths_L, tree PermittedPaths_TA, peer PermittedPaths_PA }	

ASN.1 Type Constraint Declaration	
Constraint Name	: RequestedPaths_B1
Structured Type	: RequestedPathsType
Derivation Path	:
Comments	: Common type constraint definition.
Constraint Value	
{ none PermittedPaths_L, tree PermittedPaths_TB, peer PermittedPaths_PB1 }	

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