

---

---

**Intelligent transport systems — Automatic  
vehicle and equipment identification —  
Numbering and data structures**

*Systèmes intelligents de transport — Identification automatique des  
véhicules et des équipements — Numérotation et structures des données*

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012



STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Symbols and abbreviated terms .....	2
5 Components of AVI/AEI for intermodal goods transport .....	3
5.1 Context .....	3
5.2 General .....	3
6 Overview of data definitions .....	4
7 Data definitions .....	6
7.1 'Access Control Status' .....	6
7.2 'AEI Message Type' .....	6
7.3 CS9 :SwapBodyStructure .....	6
7.4 CS10 : 'Freight Land Conveyance Content Information' .....	7
7.5 CS11: ITS consignment in UBL format .....	9
7.6 'Display Message Type' .....	34
7.7 Message information .....	34
7.8 'Position' .....	34
7.9 Geographic point location .....	35
7.10 'Reader Location' .....	35
7.11 'Terminal Monitoring Type' .....	35
7.12 'Transport Component Status' .....	36
7.13 'Transport Object Identifier' .....	36
7.14 'Transport Object Type' .....	36
7.15 'Transport Object Message Type' .....	36
7.16 UN/LOCODE .....	37
Annex A (normative) ASN.1 Module for intermodal goods transport numbering and data structures .....	38
Annex B (informative) Examples of intermodal transport AEI applications .....	52
B.1 Example scenario for division of data between different components .....	52
B.2 AEI System architecture based on the European INTERPORT project .....	53
Annex C (informative) Examples on the use of intermodal goods transport numbering and data structures .....	55
C.1 ASN. 1 introduction and general explanation .....	55
C.2 Examples on encoding of data .....	55
Bibliography .....	58

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 17262 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, in collaboration with Technical Committee CEN/TC 278, *Road transport and traffic telematics*.

This first edition of ISO 17262 cancels and replaces the first edition of ISO/TS 17262:2003, which has been technically revised.

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012

## Introduction

Within the context of Intelligent transport systems (ITS) (previously known as RTTT/TICS), intermodal goods transport AVI/AEI systems have the specific objective of achieving a unique or unambiguous positive identification of equipment, and to make that identification automatically. This International Standard defines data to achieve this particular objective.

This International Standard specifies data that enable future upward integration and expansion for intermodal goods transport AVI/AEI systems. The standard is thus designed to be flexible and enabling rather than prescriptive.

For the definition of data, "Abstract Syntax Notation One" (ASN.1) is applied. This usage provides maximum interoperability and conformance to existing Standards within the ITS sector.

Annex C can be consulted prior to the main body of this International Standard for an overview of ASN.1. ISO/IEC 8824, ISO/IEC 8825 and other publications on ASN.1 can also be consulted for further information.

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012

# Intelligent transport systems — Automatic vehicle and equipment identification — Numbering and data structures

## 1 Scope

This International Standard defines generic numbering and data structures for unambiguous identification of equipment used for Intermodal goods transport. These data are known as “Intermodal Goods Transport Numbering and Data Structures”.

This International Standard defines data independently of the data carrier. The modelling of data is based on Abstract Syntax Notation One (ASN.1) as defined in ISO/IEC 8824. This International Standard excludes any physical aspects such as interfaces, dimensions etc. Data that form part of transmission or storage protocols (headers, frame markers and checksums) are excluded.

Data defined in this International Standard require a system for control and distribution of number series independent of the different AVI/AEI systems. This is required in order to avoid ambiguity and to provide the necessary level of security where appropriate. For this reason the registration authority defined in ISO 14816 applies for this International Standard.

This International Standard enables the use of optimised encoding schemes such as ASN.1 Packed Encoding Rules (PER).

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13044, *Swap bodies — Coding, identification and marking*

ISO/IEC 8824-1, *Information technology — Abstract Syntax Notation One (ASN.1): Specification of basic notation*

ISO/IEC 8824-2, *Information technology — Abstract Syntax Notation One (ASN.1): Information object specification*

ISO/IEC 8824-3, *Information technology — Abstract Syntax Notation One (ASN.1): Constraint specification*

ISO/IEC 8824-4, *Information technology — Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications*

ISO 14816:2005, *Road traffic and transport telematics — Automatic vehicle and equipment identification — Numbering and data structure*

ISO 17621, *Intelligent transport systems — Automatic vehicle and equipment identification — Intermodal goods transport architecture and terminology*

ISO 26683-2, *Intelligent transport systems — Freight land conveyance content identification and communication — Part 2: Application interface profiles*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17621 and the following apply.

**3.1**

**AEI manager**

component, which receives data from 'AEI Readers' and compares it with information in a data base at which point an ok or error message is generated and transferred to the message display component

**3.2**

**reader**

complete set of equipment even if it consists of more than one components required to interrogate, receive and interpret the data in the TAG in order to present the identification

**3.3**

**AEI system**

AEI application in a RTTT/TICS system either as a stand-alone system or as part of a RTTT/TICS application

**3.4**

**component**

type, class or any other work-product that has been specifically engineered to be reusable

EXAMPLE TAG, reader, AEI manager

**3.5**

**conveyance**

means of transport

**3.6**

**intermodal transport**

movement of goods in one and the same loading unit or vehicle that uses successively several modes of transport without handling of the goods themselves when changing modes

**3.7**

**load unit**

cargo transportation unit, which may be loaded on a transport means

NOTE Synonyms: package, container.

**3.8**

**message display**

receives data from AEI manager, and display the data on a variable message sign to the driver

**3.9**

**terminal monitoring point**

**terminal access control point**

point administered by the AEI manager where the monitoring of transport objects is performed

**3.10**

**transport object**

transport means, load unit or goods item

**4 Symbols and abbreviated terms**

AEI	Automatic Equipment Identification
ASN.1	Abstract Syntax Notation number One
DSRC	Dedicated Short Range Communication
ITS	Intelligent Transport System(s)
RTTT	Road Transport and Traffic Telematics (CEN/TC 278)
NOTE	Legacy European name for ITS

TICS Transport Information and Control Systems (ISO/TC 204)  
NOTE now known as ITS

## 5 Components of AVI/AEI for intermodal goods transport

### 5.1 Context

This International Standard provides interoperability, not only between simple AVI/AEI and more complex ITS/RTTT functions, but also with pre-existing standards such as container (ISO 10374). Specifications for protecting against changes, classifying and qualifying security aspects of the data are out of scope of this International Standard.

This International Standard relates to AVI/AEI units, but not to smaller containers and units being transported. For smaller units (pallet loads, trays, parcels etc.) please refer to ISO 26683 and JTC 1/SC31 standards, ISO 18000 series, etc.. However, CS10 defined herein, provides a means to provide land conveyance content data using such standards. The numbering structure defined in this International Standard is designed to enable combinations with the data definitions from ISO 18000 series. This combination is covered in ISO 17264.

This International Standard provides the capability to carry application data, associated with the identification, to be carried as part of the AVI/AEI message. Within this International Standard this is provided as a “black box” facility. The definition of the structure and contents of such messages are outside the scope of this International Standard (examples are shown in ISO 17264).

### 5.2 General

The components, which are involved in the AVI/AEI intermodal goods transport are the:

AEI manager;  
reader;  
message display;  
transport object/TAG.

The overview of components are illustrated in Figure 1:

Class Diagram

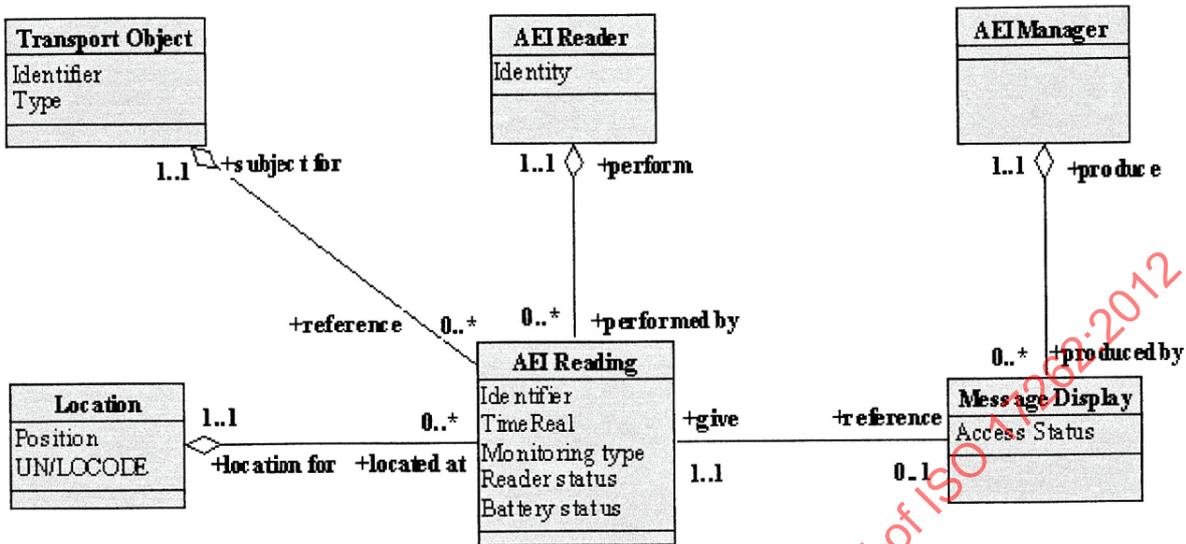


Figure 1 — Components of AVI/AEI for intermodal goods transport

One possible instance of data resided in different components defined in this International Standard is illustrated in Figure B.1. See Annex B for example.

## 6 Overview of data definitions

This clause contains an overview of the data content of ASN.1 types defined in this International Standard.

'Access Control Status'	'Terminal Monitoring Type'
— Access OK	—Entry
— Access denied	—Exit
—Access pending	—Loading
	—Unloading
'AEI Message Type'	—Stacking
— TimeReal	—Unstacking
— ReaderLocation	—Stuffing
— TerminalMonitoringType	—Stripping
— TransportObjectMessageType	—Registration
'Display Message Type'	'Transport Object Type'
— AccessControlStatus	—Goods item
— TransportObjectMessageType	—Package item
— MsgInfo	—Transport

## 'Position'

- x co-ordinate
- y co-ordinate
- z co-ordinate

## 'Reader Location'

- Reader identity
- Un/Locode
- Geographic point location
- 'Position'

## 'Transport Component Status'

- OK
- Malfunction
- Battery low

## 'Swap body Structure'

- owner code
- equipment category identity
- serial number
- check digit
- length (in centimetres);
- height (in centimetres);
- width (in centimetres);
- container type code
- maximum gross mass (in hundreds of kilograms);
- tare mass (in hundreds of kilograms);

## 'Freight Land Conveyance Content Information'

- All data specified by ISO 26683 family of standards deliverables
- represented as specified in CS10

## 'Transport Object Identifier'

- Issuer identifier
- Manufacturer identifier
- Licence plate number
- Vehicle identification number
- Freight container number (ISO 10374)
- Tax code
- Swap body structure (EN 13044)
- Freight conveyance identifier

## 'Transport Object Message Type'

- 'Transport Object Identifier'
- Transport component status

'ITS consignment in UBL format'

-represented as specified in CS11

## 7 Data definitions

In order to make the data defined within this International Standard valid for use in other RTTT/ITS application standards, the data content of ASN.1 types shall conform to that defined in ISO/IEC 8824 series. See Annex A for example.

Examples on encoding of data are described in Annex C. See Annex C for example.

### 7.1 'Access Control Status'

#### 7.1.1 Description

'Access Control Status' is a code issued by the AEI manager to indicate the status of the access control of a transport means, load unit or a goods item to a terminal monitoring point.

#### 7.1.2 ASN.1 type

```
AccessControlStatus ::= ENUMERATED {  
    accessOk (0),  
    accessDenied (1),  
    accessPending (2) --"Please Wait" indication  
}
```

### 7.2 'AEI Message Type'

#### 7.2.1 Description

'AEI Message Type' is the complete message, which is transferred from the AEI reader to the AEI manager.

#### 7.2.2 ASN.1 type

```
AEIMessageType ::= SEQUENCE {  
    TimeReal, -- Local time reference (precision in seconds)  
    ReaderLocation,  
    TerminalMonitoringType,  
    TransportObjectMessageType -- Transport Means, Package, Goods Item  
}
```

### 7.3 CS9 :SwapBodyStructure

#### 7.3.1 Description

The 'Swap Body' data structure shall be based on EN 13044 and consist of the following:

- owner code, in accordance with EN 13044;
- equipment category identity, in accordance with EN 13044;
- serial number, in accordance with EN 13044;
- check digit, in accordance with EN 13044;
- length (in centimetres);

- height (in centimetres);
- width (in centimetres);
- container type code, in accordance with EN 13044;
- maximum gross mass (in hundreds of kilograms);
- tare mass (in hundreds of kilograms).

### 7.3.2 ASN.1 type

```
CS9 ::= SwapBodyStructure
```

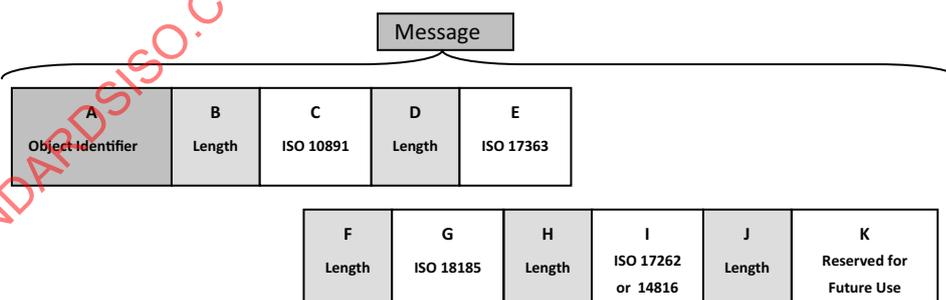
```
SwapBodyStructure ::= SEQUENCE {
    ownerCode BIT STRING(SIZE(15)), -- EN 13044
    equipCategoryId BIT STRING(SIZE(3)), -- EN 13044
    serialNumber INTEGER(0 .. 1000000), -- EN 13044
    checkDigit INTEGER(0 .. 10), -- EN 13044
    length INTEGER(1 .. 2048), -- cm
    height INTEGER(1 .. 512), -- cm
    width INTEGER(200 .. 327), -- cm (7bits)
    containerTypeCode INTEGER(0 .. 63), -- EN 13044
    maximumGrossWeight INTEGER(1 .. 512), -- 100 kg
    tareWeight INTEGER(0 .. 63) -- 100 kg
}
```

## 7.4 CS10 : 'Freight Land Conveyance Content Information'

### 7.4.1 Description

The 'Freight conveyance identifier' is defined as an octet string that shall contain the corresponding identifier in ISO/TS 26683-2 compliant "Freight Conveyance Content Identification" data".

#### Suggested Data Element Structure (Example)



**B – G** : used for container

**H, I** : used for vehicle, chassis

**J, K** : used for cargo identifiers with general truck, other any purpose  
from user perspective

### 7.4.2 ASN.1 type

```
CS10 ::= FreightConveyanceIdentifier
FreightConveyanceIdentifier ::= SEQUENCE {
    multipleFreightConveyanceIdentification MultipleFreightConveyanceIdentification,
    multipleLoadIdentification MultipleLoadIdentification
}
```

}

```
MultipleFreightConveyanceIdentification ::= SEQUENCE {
  identifierCode INTEGER {
    nofreightConveyanceIdentifier (0),
    freightContainerIdentification (1),
    multipleFreightContainerIdentification (2)
  } (0 .. 31),
  freightContainerTypeIdentification CS7
}
```

```
MultipleLoadIdentification ::= SEQUENCE{
  identifierCode INTEGER {
    noLoadIdentifier (0),
    transportMeansIdentification (1), --ISO14816
    intermodalGoodsTransportationIdentification (2), --ISO17262
    freightContainerIdentification (3), --ISO17363
    returnableTransportItemsIdentification (4), --ISO17364
    transportUnitsIdentification (5), --ISO17365
    productPackagingIdentification (6), --ISO17366
    goodsItemsIdentification (7), --ISO17367
    unused1 (8), -- 8-14 unused
    unused2 (9), -- 8-14 unused
    unused3 (10), -- 8-14 unused
    unused4 (11), -- 8-14 unused
    unused5 (12), -- 8-14 unused
    unused6 (13), -- 8-14 unused
    unused7 (14), -- 8-14 unused
    electronicSealsIdentification (15) --ISO18185
    --16-999 Reserved for future use (0 .. 999)
  } (0 .. 999),
  noLoadIdentifier PrintableString OPTIONAL,
  transportMeansIdentification PrintableString OPTIONAL,
  -- Automatic vehicle and equipment identification -Numbering and data structure,
  -- containing the corresponding identifier to be defined in ISO 14816,
  intermodalGoodsTransportationIdentification PrintableString OPTIONAL,
  --Automatic vehicle and equipment identification- Numbering and data structures,
  -- containing the corresponding identifier to be defined in ISO17262
  freightContainerIdentification PrintableString OPTIONAL,
  --Supply chain applications of RFID,
  --containing the corresponding identifier to be defined in ISO17363
  returnableTransportItemsIdentification PrintableString OPTIONAL,
  --Supply chain applications of RFID,
  --containing the corresponding identifier to be defined in ISO17364
  transportUnitsIdentification PrintableString OPTIONAL,
  --Supply chain applications of RFID,
  --containing the corresponding identifier to be defined in ISO17365
  productPckagingIdentification PrintableString OPTIONAL,
  --Supply chain applications of RFID,
  --containing the corresponding identifier to be defined in ISO17366
  goodsItemsIdentification PrintableString OPTIONAL,
  --Supply chain applications of RFID,
  --containing the corresponding identifier to be defined in ISO17367
  electronicSealsIdentification PrintableString OPTIONAL
  --Freight containers
  --Part 4: Data protection,
  -- containing the corresponding identifier to be defined in ISO18185
}
```

STANDARD PREVIEW. Click to view the full PDF of ISO 17262:2012

## 7.5 CS11: ITS consignment in UBL format

### 7.5.1 Description

CS11 profiles how to populate the UBL transport library data concept : Transport Library::Consignment with data obtained from a freight land conveyance.

CS11 does not specify the air interface used to provide data, it solely provides the means to convert freight consignment data obtained by interrogating a freight land conveyance for data in the format specified by UBL Transport library data concept : 'Transport Library::Consignment' for all of the data concept or for or elements of this data concept as defined in UBL 2.1.

The use of CS11 is OPTIONAL.

In order to comply with ISO 17262, sequence of the OPTIONAL scripts is at the senders' choice (there is no required sequence in ISO 17262).

NOTE 1 These provisions are designed to provide the flexibility to enable only enable parts of the UBL::Consignment data concept to be stored on board and forwarded to a destination where they can be input to the compilation of a UBL data concept, but where it is impracticable or undesirable to hold the whole UML:consignment data concept on board; but to enable those parts stored to be in .xsd form compatible with that required in elements of the UBL::Consignment data concept.

However, in order to claim compliance to UBL2.1, additional discipline is required. Although the use of data element scripts in ISO 17272 is OPTIONAL, and there are no requirements as to sequence, in UBL version 2.1, their use may be mandatory (depending on cardinality), and the order of the sequence is mandatory as specified in UBL 2.1. Those wishing to claim compliance to UBL 2.1 shall refer and comply to <http://docs.oasis-open.org/ubl/prd1-UBL-2.1/UBL-2.1.xml> (Authoritative) or a subsequent version of UBL.

NOTE 2 UBL 2.1 Cardinality:

The optionality and potential occurrences of the BIE:

Cardinality 0..1 – optional and only one

1 – mandatory and only one

Cardinality 0..n – optional and maximum of n

1..n - mandatory and maximum of n

where the letter 'n' represents an unlimited number, and an actual number in place of the letter 'n' is the maximum.

NOTE 3 BIE 'Business Information Entity'

In UBL 2.1 there are three BIE Types:

Basic BIE (BBIE -- ),

Associate BIE (ASBIE -- "an association"), and

Aggregate BIE (ABIE -- "an aggregate").

Figure 2 shows the data elements comprising ITS consignment in UBL format . The .xsd script for each element can be obtained from the ASN.1 type definition in 7.5.2 below.

UBL Name	Dictionary Entry Name
<i>Consignment</i>	<i>Consignment Details</i>
ID	Consignment. Identifier
CarrierAssignedID	Consignment. Carrier Assigned_ Identifier. Identifier
ConsigneeAssignedID	Consignment. Consignee Assigned_ Identifier. Identifier
ConsignorAssignedID	Consignment. Consignor Assigned_ Identifier. Identifier

UBL Name	Dictionary Entry Name
<i>Consignment</i>	<i>Consignment Details</i>
FreightForwarderAssignedID	Consignment. Freight Forwarder Assigned_ Identifier. Identifier
BrokerAssignedID	Consignment. Broker Assigned_ Identifier. Identifier
ContractedCarrierAssignedID	Consignment. Contracted Carrier Assigned_ Identifier. Identifier
PerformingCarrierAssignedID	Consignment. Performing Carrier Assigned_ Identifier. Identifier
SummaryDescription	Consignment. Summary_ Description. Text
TotalInvoiceAmount	Consignment. Total_ Invoice Amount. Amount
DeclaredCustomsValueAmount	Consignment. Declared Customs_ Value. Amount
TariffDescription	Consignment. Tariff Description. Text
TariffCode	Consignment. Tariff Code. Code
InsurancePremiumAmount	Consignment. Insurance Premium Amount. Amount
GrossWeightMeasure	Consignment. Gross_ Weight. Measure
NetWeightMeasure	Consignment. Net_ Weight. Measure
NetNetWeightMeasure	Consignment. Net Net_ Weight. Measure
ChargeableWeightMeasure	Consignment. Chargeable_ Weight. Measure
GrossVolumeMeasure	Consignment. Gross_ Volume. Measure
NetVolumeMeasure	Consignment. Net_ Volume. Measure
LoadingLengthMeasure	Consignment. Loading_ Length. Measure
Remarks	Consignment. Remarks. Text
HazardousRiskIndicator	Consignment. Hazardous Risk_ Indicator. Indicator
AnimalFoodIndicator	Consignment. Animal_ Food Indicator. Indicator
HumanFoodIndicator	Consignment. Human_ Food Indicator. Indicator
LivestockIndicator	Consignment. Livestock_ Indicator. Indicator
BulkCargoIndicator	Consignment. Bulk Cargo_ Indicator. Indicator
ContainerizedIndicator	Consignment. Containerized_ Indicator. Indicator
GeneralCargoIndicator	Consignment. General Cargo_ Indicator. Indicator
SpecialSecurityIndicator	Consignment. Special_ Security Indicator. Indicator
ThirdPartyPayerIndicator	Consignment. Third Party Payer_ Indicator. Indicator
CarrierServiceInstructions	Consignment. Carrier Service_ Instructions. Text
CustomsClearanceServiceInstructions	Consignment. Customs Clearance Service_ Instructions. Text
ForwarderServiceInstructions	Consignment. Forwarder Service_ Instructions. Text
SpecialServiceInstructions	Consignment. Special Service_ Instructions. Text
SequenceID	Consignment. Sequence Identifier. Identifier
ShippingPriorityLevelCode	Consignment. Shipping Priority Level Code. Code
HandlingCode	Consignment. Handling Code. Code
HandlingInstructions	Consignment. Handling_ Instructions. Text
Information	Consignment. Information. Text
TotalGoodsItemQuantity	Consignment. Total_ Goods Item Quantity. Quantity
TotalTransportHandlingUnitQuantity	Consignment. Total_ Transport Handling Unit Quantity. Quantity
InsuranceValueAmount	Consignment. Insurance_ Value. Amount
DeclaredForCarriageValueAmount	Consignment. Declared For Carriage_ Value. Amount
DeclaredStatisticsValueAmount	Consignment. Declared Statistics_ Value. Amount
FreeOnBoardValueAmount	Consignment. Free On Board_ Value. Amount
SpecialInstructions	Consignment. Special_ Instructions. Text
SplitConsignmentIndicator	Consignment. Split Consignment_ Indicator. Indicator
DeliveryInstructions	Consignment. Delivery_ Instructions. Text
ConsignmentQuantity	Consignment. Consignment_ Quantity. Quantity

<b>UBL Name</b>	<b>Dictionary Entry Name</b>
<i>Consignment</i>	<i>Consignment Details</i>
ConsolidatableIndicator	Consignment. Consolidatable_ Indicator. Indicator
HaulageInstructions	Consignment. Haulage_ Instructions. Text
LoadingSequenceID	Consignment. Loading_ Sequence Identifier. Identifier
ConsigneeParty	Consignment. Consignee_ Party. Party
ExporterParty	Consignment. Exporter_ Party. Party
ConsignorParty	Consignment. Consignor_ Party. Party
ImporterParty	Consignment. Importer_ Party. Party
CarrierParty	Consignment. Carrier_ Party. Party
FreightForwarderParty	Consignment. Freight Forwarder_ Party. Party
NotifyParty	Consignment. Notify_ Party. Party
OriginalDespatchParty	Consignment. Original Despatch_ Party. Party
FinalDeliveryParty	Consignment. Final Delivery_ Party. Party
PerformingCarrierParty	Consignment. Performing Carrier_ Party. Party
SubstituteCarrierParty	Consignment. Substitute Carrier_ Party. Party
LogisticsOperatorParty	Consignment. Logistics Operator_ Party. Party
TransportAdvisorParty	Consignment. Transport Advisor_ Party. Party
HazardousItemNotificationParty	Consignment. Hazardous Item Notification_ Party. Party
InsuranceParty	Consignment. Insurance_ Party. Party
MortgageHolderParty	Consignment. Mortgage Holder_ Party. Party
BillOfLadingHolderParty	Consignment. Bill Of Lading Holder_ Party. Party
OriginalDepartureCountry	Consignment. Original Departure_ Country. Country
FinalDestinationCountry	Consignment. Final Destination_ Country. Country
TransitCountry	Consignment. Transit_ Country. Country
TransportContract	Consignment. Transport_ Contract. Contract
OriginalDespatchTransportationService	Consignment. Original Despatch_ Transportation Service. Transportation Service
FinalDeliveryTransportationService	Consignment. Final Delivery_ Transportation Service. Transportation Service
DeliveryTerms	Consignment. Delivery Terms
PaymentTerms	Consignment. Payment Terms
CollectPaymentTerms	Consignment. Collect_ Payment Terms. Payment Terms
DisbursementPaymentTerms	Consignment. Disbursement_ Payment Terms. Payment Terms
PrepaidPaymentTerms	Consignment. Prepaid_ Payment Terms. Payment Terms
FreightAllowanceCharge	Consignment. Freight_ Allowance Charge. Allowance Charge
ExtraAllowanceCharge	Consignment. Extra_ Allowance Charge. Allowance Charge
MainCarriageShipmentStage	Consignment. Main Carriage_ Shipment Stage. Shipment Stage
PreCarriageShipmentStage	Consignment. Pre Carriage_ Shipment Stage. Shipment Stage
OnCarriageShipmentStage	Consignment. On Carriage_ Shipment Stage. Shipment Stage
TransportHandlingUnit	Consignment. Transport Handling Unit
FirstArrivalPortLocation	Consignment. First Arrival Port_ Location. Location
LastExitPortLocation	Consignment. Last Exit Port_ Location. Location
ConsolidatedShipment	Consignment. Consolidated_ Shipment. Shipment

**Figure 2 UBL Transportation library ::Consignment**

(Source: OASIS : UBL-CommonLibrary-2.1)

7.5.2 ASN.1 type

The following script is draft to be passed through an ASN.1 compiler

NOTE **bold font** is used within this clause to enable easy identification of the separate elements of this long data concept. The script when used should not be in bold font.

7.5.2.1 Summary of UBL 2.1 ::Consignment

The ITS consignment in UBL format data concept is summarised as follows:

```

ConsignmentType ::= SEQUENCE {
id ID-1,
carrierAssignedID CarrierAssignedID OPTIONAL,
consigneeAssignedID ConsigneeAssignedID OPTIONAL,
consignorAssignedID ConsignorAssignedID OPTIONAL,
freightForwarderAssignedID FreightForwarderAssignedID OPTIONAL,
brokerAssignedID BrokerAssignedID OPTIONAL,
contractedCarrierAssignedID ContractedCarrierAssignedID OPTIONAL,
performingCarrierAssignedID PerformingCarrierAssignedID OPTIONAL,
summaryDescription-list
SEQUENCE OF summaryDescription SummaryDescription,
totalInvoiceAmount TotalInvoiceAmount OPTIONAL,
declaredCustomsValueAmount DeclaredCustomsValueAmount OPTIONAL,
tariffDescription-list
SEQUENCE OF tariffDescription TariffDescription,
tariffCode TariffCode OPTIONAL,
insurancePremiumAmount InsurancePremiumAmount OPTIONAL,
grossWeightMeasure GrossWeightMeasure OPTIONAL,
netWeightMeasure NetWeightMeasure OPTIONAL,
netNetWeightMeasure NetNetWeightMeasure OPTIONAL,
chargeableWeightMeasure ChargeableWeightMeasure OPTIONAL,
grossVolumeMeasure GrossVolumeMeasure OPTIONAL,
netVolumeMeasure NetVolumeMeasure OPTIONAL,
loadingLengthMeasure LoadingLengthMeasure OPTIONAL,
remarks-list SEQUENCE OF remarks Remarks,
hazardousRiskIndicator HazardousRiskIndicator OPTIONAL,
animalFoodIndicator AnimalFoodIndicator OPTIONAL,
humanFoodIndicator HumanFoodIndicator OPTIONAL,
livestockIndicator LivestockIndicator OPTIONAL,
bulkCargoIndicator BulkCargoIndicator OPTIONAL,
containerizedIndicator ContainerizedIndicator OPTIONAL,
generalCargoIndicator GeneralCargoIndicator OPTIONAL,
specialSecurityIndicator SpecialSecurityIndicator OPTIONAL,
thirdPartyPayerIndicator ThirdPartyPayerIndicator OPTIONAL,
carrierServiceInstructions CarrierServiceInstructions OPTIONAL,
customsClearanceServiceInstructions CustomsClearanceServiceInstructions OPTIONAL,
forwarderServiceInstructions ForwarderServiceInstructions OPTIONAL,
specialServiceInstructions SpecialServiceInstructions OPTIONAL,
sequenceID SequenceID OPTIONAL,
shippingPriorityLevelCode ShippingPriorityLevelCode OPTIONAL,
handlingCode HandlingCode OPTIONAL,
handlingInstructions HandlingInstructions OPTIONAL,
information Information OPTIONAL,
totalGoodsItemQuantity TotalGoodsItemQuantity OPTIONAL,
totalTransportHandlingUnitQuantity TotalTransportHandlingUnitQuantity OPTIONAL,
insuranceValueAmount InsuranceValueAmount OPTIONAL,
declaredForCarriageValueAmount DeclaredForCarriageValueAmount OPTIONAL,
declaredStatisticsValueAmount DeclaredStatisticsValueAmount OPTIONAL,
freeOnBoardValueAmount FreeOnBoardValueAmount OPTIONAL,
specialInstructions-list
SEQUENCE OF specialInstructions SpecialInstructions,

```

splitConsignmentIndicator [SplitConsignmentIndicator](#) OPTIONAL,  
 deliveryInstructions-list  
**SEQUENCE OF** deliveryInstructions [DeliveryInstructions](#),  
 consignmentQuantity [ConsignmentQuantity](#) OPTIONAL,  
 consolidatableIndicator [ConsolidatableIndicator](#) OPTIONAL,  
 haulageInstructions-list  
**SEQUENCE OF** haulageInstructions [HaulageInstructions](#),  
 loadingSequenceID [LoadingSequenceID](#) OPTIONAL,  
 consigneeParty [ConsigneeParty](#) OPTIONAL,  
 exporterParty [ExporterParty](#) OPTIONAL,  
 consignorParty [ConsignorParty](#) OPTIONAL,  
 importerParty [ImporterParty](#) OPTIONAL,  
 carrierParty [CarrierParty](#) OPTIONAL,  
 freightForwarderParty [FreightForwarderParty](#) OPTIONAL,  
 notifyParty [NotifyParty](#) OPTIONAL,  
 originalDespatchParty [OriginalDespatchParty](#) OPTIONAL,  
 finalDeliveryParty [FinalDeliveryParty](#) OPTIONAL,  
 performingCarrierParty [PerformingCarrierParty](#) OPTIONAL,  
 substituteCarrierParty [SubstituteCarrierParty](#) OPTIONAL,  
 logisticsOperatorParty [LogisticsOperatorParty](#) OPTIONAL,  
 transportAdvisorParty [TransportAdvisorParty](#) OPTIONAL,  
 hazardousItemNotificationParty  
[HazardousItemNotificationParty](#) OPTIONAL,  
 insuranceParty [InsuranceParty](#) OPTIONAL,  
 mortgageHolderParty [MortgageHolderParty](#) OPTIONAL,  
 billOfLadingHolderParty [BillOfLadingHolderParty](#) OPTIONAL,  
 originalDepartureCountry [OriginalDepartureCountry](#) OPTIONAL,  
 finalDestinationCountry [FinalDestinationCountry](#) OPTIONAL,  
 transitCountry-list  
**SEQUENCE OF** transitCountry [TransitCountry](#),  
 transportContract [TransportContract](#) OPTIONAL,  
 originalDespatchTransportationService  
[OriginalDespatchTransportationService](#) OPTIONAL,  
 finalDeliveryTransportationService  
[FinalDeliveryTransportationService](#) OPTIONAL,  
 deliveryTerms [DeliveryTerms](#) OPTIONAL,  
 paymentTerms [PaymentTerms](#) OPTIONAL,  
 collectPaymentTerms [CollectPaymentTerms](#) OPTIONAL,  
 disbursementPaymentTerms [DisbursementPaymentTerms](#) OPTIONAL,  
 prepaidPaymentTerms [PrepaidPaymentTerms](#) OPTIONAL,  
 freightAllowanceCharge-list  
**SEQUENCE OF** freightAllowanceCharge [FreightAllowanceCharge](#),  
 extraAllowanceCharge-list  
**SEQUENCE OF** extraAllowanceCharge [ExtraAllowanceCharge](#),  
 mainCarriageShipmentStage [MainCarriageShipmentStage](#) OPTIONAL,  
 preCarriageShipmentStage-list  
**SEQUENCE OF** preCarriageShipmentStage [PreCarriageShipmentStage](#),  
 onCarriageShipmentStage-list  
**SEQUENCE OF** onCarriageShipmentStage [OnCarriageShipmentStage](#),  
 transportHandlingUnit-list  
**SEQUENCE OF** transportHandlingUnit [TransportHandlingUnit](#),  
 firstArrivalPortLocation [FirstArrivalPortLocation](#) OPTIONAL,  
 lastExitPortLocation [LastExitPortLocation](#) OPTIONAL,  
 consolidatedShipment-list  
**SEQUENCE OF** consolidatedShipment [ConsolidatedShipment](#)}  
 }

### 7.5.2.2 ITS consignment in UBL ::Consignment format script definitions

XSD ::= CLASS { --dummy class to get CS11 compilable

&NormalizedString OPTIONAL,  
 &String OPTIONAL,

```

    &AnyURI          OPTIONAL,
    &Language        OPTIONAL,
    &Decimal          OPTIONAL
}

```

CS11 ::= TransportLibraryConsignment

```

TransportLibraryConsignment ::= SEQUENCE {
iD                  ID-1,
carrierAssignedID  CarrierAssignedIDType OPTIONAL,
consigneeAssignedID  ConsigneeAssignedIDType OPTIONAL,
consignorAssignedID  ConsignorAssignedIDType OPTIONAL,
freightForwarderAssignedID  FreightForwarderAssignedIDType OPTIONAL,
brokerAssignedID    BrokerAssignedIDType OPTIONAL,
contractedCarrierAssignedID  ContractedCarrierAssignedIDType OPTIONAL,
performingCarrierAssignedID  PerformingCarrierAssignedIDType OPTIONAL,
summaryDescription-list  SEQUENCE OF SummaryDescriptionType,
totalInvoiceAmount  TotalInvoiceAmountType OPTIONAL,
declaredCustomsValueAmount  DeclaredCustomsValueAmountType OPTIONAL,
tariffDescription-list  SEQUENCE OF TariffDescriptionType,
tariffCode          TariffCodeType OPTIONAL,
insurancePremiumAmount  InsurancePremiumAmountType OPTIONAL,
grossWeightMeasure  GrossWeightMeasureType OPTIONAL,
netWeightMeasure    NetWeightMeasureType OPTIONAL,
netNetWeightMeasure  NetNetWeightMeasureType OPTIONAL,
chargeableWeightMeasure  ChargeableWeightMeasureType OPTIONAL,
grossVolumeMeasure  GrossVolumeMeasureType OPTIONAL,
netVolumeMeasure    NetVolumeMeasureType OPTIONAL,
loadingLengthMeasure  LoadingLengthMeasureType OPTIONAL,
remarks-list        SEQUENCE OF RemarksType,
hazardousRiskIndicator  HazardousRiskIndicatorType OPTIONAL,
animalFoodIndicator  AnimalFoodIndicatorType OPTIONAL,

```

humanFoodIndicator	HumanFoodIndicatorType OPTIONAL,
livestockIndicator	LivestockIndicatorType OPTIONAL,
bulkCargoIndicator	BulkCargoIndicatorType OPTIONAL,
containerizedIndicator	ContainerizedIndicatorType OPTIONAL,
generalCargoIndicator	GeneralCargoIndicatorType OPTIONAL,
specialSecurityIndicator	SpecialSecurityIndicatorType OPTIONAL,
thirdPartyPayerIndicator	ThirdPartyPayerIndicatorType OPTIONAL,
carrierServiceInstructions	CarrierServiceInstructionsType OPTIONAL,
customsClearanceServiceInstructions	CustomsClearanceServiceInstructionsType OPTIONAL,
forwarderServiceInstructions	ForwarderServiceInstructionsType OPTIONAL,
specialServiceInstructions	SpecialServiceInstructionsType OPTIONAL,
sequenceID	SequenceIDType OPTIONAL,
shippingPriorityLevelCode	ShippingPriorityLevelCodeType OPTIONAL,
handlingCode	HandlingCodeType OPTIONAL,
handlingInstructions	HandlingInstructionsType OPTIONAL,
information	InformationType OPTIONAL,
totalGoodsItemQuantity	TotalGoodsItemQuantityType OPTIONAL,
totalTransportHandlingUnitQuantity	TotalTransportHandlingUnitQuantityType OPTIONAL,
insuranceValueAmount	InsuranceValueAmountType OPTIONAL,
declaredForCarriageValueAmount	DeclaredForCarriageValueAmountType OPTIONAL,
declaredStatisticsValueAmount	DeclaredStatisticsValueAmountType OPTIONAL,
freeOnBoardValueAmount	FreeOnBoardValueAmountType OPTIONAL,
specialInstructions-list	SEQUENCE OF SpecialInstructionsType,
splitConsignmentIndicator	SplitConsignmentIndicatorType OPTIONAL,
deliveryInstructions-list	SEQUENCE OF DeliveryInstructionsType,
consignmentQuantity	ConsignmentQuantityType OPTIONAL,
consolidatableIndicator	ConsolidatableIndicatorType OPTIONAL,
haulageInstructions-list	SEQUENCE OF HaulageInstructionsType,
loadingSequenceID	LoadingSequenceIDType OPTIONAL,
consigneeParty	ConsigneeParty OPTIONAL,
exporterParty	ExporterParty OPTIONAL,
consignorParty	ConsignorParty OPTIONAL,
importerParty	ImporterParty OPTIONAL,

carrierParty	CarrierParty OPTIONAL,
freightForwarderParty	FreightForwarderParty OPTIONAL,
notifyParty	NotifyParty OPTIONAL,
originalDespatchParty	OriginalDespatchParty OPTIONAL,
finalDeliveryParty	FinalDeliveryParty OPTIONAL,
performingCarrierParty	PerformingCarrierParty OPTIONAL,
substituteCarrierParty	SubstituteCarrierParty OPTIONAL,
logisticsOperatorParty	LogisticsOperatorParty OPTIONAL,
transportAdvisorParty	TransportAdvisorParty OPTIONAL,
hazardousItemNotificationParty	HazardousItemNotificationParty OPTIONAL,
insuranceParty	InsuranceParty OPTIONAL,
mortgageHolderParty	MortgageHolderParty OPTIONAL,
billOfLadingHolderParty	BillOfLadingHolderParty OPTIONAL,
originalDepartureCountry	OriginalDepartureCountry OPTIONAL,
finalDestinationCountry	FinalDestinationCountry OPTIONAL,
transitCountry-list	SEQUENCE OF TransitCountry,
transportContract	TransportContract OPTIONAL,
originalDespatchTransportationService	OriginalDespatchTransportationService OPTIONAL,
finalDeliveryTransportationService	FinalDeliveryTransportationService OPTIONAL,
deliveryTerms	DeliveryTerms OPTIONAL,
paymentTerms	PaymentTerms OPTIONAL,
collectPaymentTerms	CollectPaymentTerms OPTIONAL,
disbursementPaymentTerms	DisbursementPaymentTerms OPTIONAL,
prepaidPaymentTerms	PrepaidPaymentTerms OPTIONAL,
freightAllowanceCharge-list	SEQUENCE OF FreightAllowanceCharge,
extraAllowanceCharge-list	SEQUENCE OF ExtraAllowanceCharge,
mainCarriageShipmentStage	MainCarriageShipmentStage OPTIONAL,
preCarriageShipmentStage-list	SEQUENCE OF PreCarriageShipmentStage,
onCarriageShipmentStage-list	SEQUENCE OF OnCarriageShipmentStage,
transportHandlingUnit-list	SEQUENCE OF transportHandlingUnit TransportHandlingUnit,
firstArrivalPortLocation	FirstArrivalPortLocation OPTIONAL,
lastExitPortLocation	LastExitPortLocation OPTIONAL,
consolidatedShipment-list	SEQUENCE OF ConsolidatedShipment

}

```
CarrierAssignedIDType ::= SEQUENCE {
  schemeAgencyID XSD.&NormalizedString OPTIONAL,
  schemeAgencyName XSD.&String OPTIONAL,
  schemeDataURI XSD.&AnyURI OPTIONAL,
  schemeID XSD.&NormalizedString OPTIONAL,
  schemeName XSD.&String OPTIONAL,
  schemeURI XSD.&AnyURI OPTIONAL,
  schemeVersionID XSD.&NormalizedString OPTIONAL,
  base XSD.&NormalizedString
}
```

```
ConsigneeAssignedIDType ::= SEQUENCE {
  schemeAgencyID XSD.&NormalizedString OPTIONAL,
  schemeAgencyName XSD.&String OPTIONAL,
  schemeDataURI XSD.&AnyURI OPTIONAL,
  schemeID XSD.&NormalizedString OPTIONAL,
  schemeName XSD.&String OPTIONAL,
  schemeURI XSD.&AnyURI OPTIONAL,
  schemeVersionID XSD.&NormalizedString OPTIONAL,
  base XSD.&NormalizedString
}
```

```
ConsignorAssignedIDType ::= SEQUENCE {
  schemeAgencyID XSD.&NormalizedString OPTIONAL,
  schemeAgencyName XSD.&String OPTIONAL,
  schemeDataURI XSD.&AnyURI OPTIONAL,
  schemeID XSD.&NormalizedString OPTIONAL,
  schemeName XSD.&String OPTIONAL,
  schemeURI XSD.&AnyURI OPTIONAL,
  schemeVersionID XSD.&NormalizedString OPTIONAL,
  base XSD.&NormalizedString
}
```

```
FreightForwarderAssignedIDType ::= SEQUENCE {
```

schemeAgencyID XSD.&NormalizedString OPTIONAL,  
schemeAgencyName XSD.&String OPTIONAL,  
schemeDataURI XSD.&AnyURI OPTIONAL,  
schemeID XSD.&NormalizedString OPTIONAL,  
schemeName XSD.&String OPTIONAL,  
schemeURI XSD.&AnyURI OPTIONAL,  
schemeVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&NormalizedString  
}

BrokerAssignedIDType ::= SEQUENCE {  
schemeAgencyID XSD.&NormalizedString OPTIONAL,  
schemeAgencyName XSD.&String OPTIONAL,  
schemeDataURI XSD.&AnyURI OPTIONAL,  
schemeID XSD.&NormalizedString OPTIONAL,  
schemeName XSD.&String OPTIONAL,  
schemeURI XSD.&AnyURI OPTIONAL,  
schemeVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&NormalizedString  
}

ContractedCarrierAssignedIDType ::= SEQUENCE {  
schemeAgencyID XSD.&NormalizedString OPTIONAL,  
schemeAgencyName XSD.&String OPTIONAL,  
schemeDataURI XSD.&AnyURI OPTIONAL,  
schemeID XSD.&NormalizedString OPTIONAL,  
schemeName XSD.&String OPTIONAL,  
schemeURI XSD.&AnyURI OPTIONAL,  
schemeVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&NormalizedString  
}

PerformingCarrierAssignedIDType ::= SEQUENCE {  
schemeAgencyID XSD.&NormalizedString OPTIONAL,  
schemeAgencyName XSD.&String OPTIONAL,  
schemeDataURI XSD.&AnyURI OPTIONAL,

```

schemeID      XSD.&NormalizedString OPTIONAL,
schemeName    XSD.&String OPTIONAL,
schemeURI     XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base          XSD.&NormalizedString
}
SummaryDescriptionType ::= SEQUENCE {
languageID    XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base          XSD.&String
}
TotalInvoiceAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID    XSD.&NormalizedString OPTIONAL,
base          XSD.&Decimal
}
DeclaredCustomsValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID    XSD.&NormalizedString OPTIONAL,
base          XSD.&Decimal
}
TariffDescriptionType ::= SEQUENCE {
languageID    XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base          XSD.&String
}
TariffCodeType ::= SEQUENCE {
languageID    XSD.&Language OPTIONAL,
listAgencyID XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID        XSD.&NormalizedString OPTIONAL,
listName      XSD.&String OPTIONAL,
listSchemeURI XSD.&AnyURI OPTIONAL,

```

```
listURI    XSD.&AnyURI OPTIONAL,  
listVersionID XSD.&NormalizedString OPTIONAL,  
name      XSD.&String OPTIONAL,  
base      XSD.&NormalizedString  
}  
InsurancePremiumAmountType ::= SEQUENCE {  
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,  
currencyID XSD.&NormalizedString OPTIONAL,  
base XSD.&Decimal  
}  
GrossWeightMeasureType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&Decimal  
}  
NetWeightMeasureType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&Decimal  
}  
NetNetWeightMeasureType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&Decimal  
}  
ChargeableWeightMeasureType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,  
base XSD.&Decimal  
}  
GrossVolumeMeasureType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
```

STANDARDS17262.COM : Click to view the full PDF of ISO 17262:2012

```

base    XSD.&Decimal
}

```

```

NetVolumeMeasureType ::= SEQUENCE {
unitCode    XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base        XSD.&Decimal
}

```

```

LoadingLengthMeasureType ::= SEQUENCE {
unitCode    XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base        XSD.&Decimal
}

```

```

RemarksType ::= SEQUENCE {
languageID    XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base          XSD.&String
}

```

```

HazardousRiskIndicatorType ::= SEQUENCE {
base BOOLEAN
}

```

```

AnimalFoodIndicatorType ::= SEQUENCE {
base BOOLEAN
}

```

```

HumanFoodIndicatorType ::= SEQUENCE {
base BOOLEAN
}

```

```

LivestockIndicatorType ::= SEQUENCE {
base BOOLEAN
}

```

```

BulkCargoIndicatorType ::= SEQUENCE {

```

base BOOLEAN

}

ContainerizedIndicatorType ::= SEQUENCE {

base BOOLEAN

}

GeneralCargoIndicatorType ::= SEQUENCE {

base BOOLEAN

}

SpecialSecurityIndicatorType ::= SEQUENCE {

base BOOLEAN

}

ThirdPartyPayerIndicatorType ::= SEQUENCE {

base BOOLEAN

}

CarrierServiceInstructionsType ::= SEQUENCE {

languageID XSD.&Language OPTIONAL,

languageLocaleID XSD.&NormalizedString OPTIONAL,

base XSD.&String

}

CustomsClearanceServiceInstructionsType ::= SEQUENCE {

languageID XSD.&Language OPTIONAL,

languageLocaleID XSD.&NormalizedString OPTIONAL,

base XSD.&String

}

ForwarderServiceInstructionsType ::= SEQUENCE {

languageID XSD.&Language OPTIONAL,

languageLocaleID XSD.&NormalizedString OPTIONAL,

base XSD.&String

}

SpecialServiceInstructionsType ::= SEQUENCE {

languageID XSD.&Language OPTIONAL,

languageLocaleID XSD.&NormalizedString OPTIONAL,

```

base      XSD.&String
}

SequenceIDType ::= SEQUENCE {
schemeAgencyID  XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI   XSD.&AnyURI OPTIONAL,
schemeID        XSD.&NormalizedString OPTIONAL,
schemeName      XSD.&String OPTIONAL,
schemeURI       XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base            XSD.&NormalizedString
}

ShippingPriorityLevelCodeType ::= SEQUENCE {
languageID      XSD.&Language OPTIONAL,
listAgencyID   XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID          XSD.&NormalizedString OPTIONAL,
listName        XSD.&String OPTIONAL,
listSchemeURI   XSD.&AnyURI OPTIONAL,
listURI         XSD.&AnyURI OPTIONAL,
listVersionID   XSD.&NormalizedString OPTIONAL,
name            XSD.&String OPTIONAL,
base            XSD.&NormalizedString
}

HandlingCodeType ::= SEQUENCE {
languageID      XSD.&Language OPTIONAL,
listAgencyID   XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID          XSD.&NormalizedString OPTIONAL,
listName        XSD.&String OPTIONAL,
listSchemeURI   XSD.&AnyURI OPTIONAL,
listURI         XSD.&AnyURI OPTIONAL,
listVersionID   XSD.&NormalizedString OPTIONAL,

```

```
name      XSD.&String OPTIONAL,  
base      XSD.&NormalizedString  
}  
HandlingInstructionsType ::= SEQUENCE {  
languageID XSD.&Language OPTIONAL,  
languageLocaleID XSD.&NormalizedString OPTIONAL,  
base      XSD.&String  
}  
InformationType ::= SEQUENCE {  
languageID XSD.&Language OPTIONAL,  
languageLocaleID XSD.&NormalizedString OPTIONAL,  
base      XSD.&String  
}  
TotalGoodsItemQuantityType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,  
unitCodeListAgencyName XSD.&String OPTIONAL,  
unitCodeListID XSD.&NormalizedString OPTIONAL,  
base      XSD.&Decimal  
}  
TotalTransportHandlingUnitQuantityType ::= SEQUENCE {  
unitCode XSD.&NormalizedString OPTIONAL,  
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,  
unitCodeListAgencyName XSD.&String OPTIONAL,  
unitCodeListID XSD.&NormalizedString OPTIONAL,  
base      XSD.&Decimal  
}  
InsuranceValueAmountType ::= SEQUENCE {  
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,  
currencyID XSD.&NormalizedString OPTIONAL,  
base      XSD.&Decimal  
}  
DeclaredForCarriageValueAmountType ::= SEQUENCE {
```

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012

```

currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
DeclaredStatisticsValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
FreeOnBoardValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
SpecialInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
SplitConsignmentIndicatorType ::= SEQUENCE {
base BOOLEAN
}
DeliveryInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
ConsignmentQuantityType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyName XSD.&String OPTIONAL,
unitCodeListID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}

```

```
}  
ConsolidatableIndicatorType ::= SEQUENCE {  
  base BOOLEAN  
}
```

```
HaulageInstructionsType ::= SEQUENCE {  
  languageID XSD.&Language OPTIONAL,  
  languageLocaleID XSD.&NormalizedString OPTIONAL,  
  base XSD.&String  
}
```

```
LoadingSequenceIDType ::= SEQUENCE {  
  schemeAgencyID XSD.&NormalizedString OPTIONAL,  
  schemeAgencyName XSD.&String OPTIONAL,  
  schemeDataURI XSD.&AnyURI OPTIONAL,  
  schemeID XSD.&NormalizedString OPTIONAL,  
  schemeName XSD.&String OPTIONAL,  
  schemeURI XSD.&AnyURI OPTIONAL,  
  schemeVersionID XSD.&NormalizedString OPTIONAL,  
  base XSD.&NormalizedString  
}
```

```
PartyType ::= SEQUENCE {  
  markCareIndicator MarkCareIndicator OPTIONAL,  
  markAttentionIndicator MarkAttentionIndicator OPTIONAL,  
  websiteURI WebsiteURI OPTIONAL,  
  logoReferenceID LogoReferenceID OPTIONAL,  
  endpointID EndpointID OPTIONAL,  
  industryClassificationCode IndustryClassificationCode OPTIONAL,  
  partyIdentification-list SEQUENCE OF PartyIdentification,  
  partyName-list SEQUENCE OF PartyName,  
  language Language-1 OPTIONAL,  
  postalAddress PostalAddress OPTIONAL,
```

physicalLocation PhysicalLocation OPTIONAL,  
 partyTaxScheme-list SEQUENCE OF PartyTaxScheme,  
 partyLegalEntity-list SEQUENCE OF PartyLegalEntity,  
 contact Contact OPTIONAL,  
 person-list SEQUENCE OF Person,  
 agentParty AgentParty OPTIONAL,  
 serviceProviderParty-list SEQUENCE OF ServiceProviderParty,  
 powerOfAttorney-list SEQUENCE OF PowerOfAttorney,  
 financialAccount FinancialAccount OPTIONAL  
 }

ConsigneeParty ::= PartyType

ExporterParty ::= PartyType

ConsignorParty ::= PartyType

ImporterParty ::= PartyType

CarrierParty ::= PartyType

FreightForwarderParty ::= PartyType

NotifyParty ::= PartyType

OriginalDespatchParty ::= PartyType

FinalDeliveryParty ::= PartyType

PerformingCarrierParty ::= PartyType

SubstituteCarrierParty ::= PartyType

LogisticsOperatorParty ::= PartyType

TransportAdvisorParty ::= PartyType

HazardousItemNotificationParty ::= PartyType

InsuranceParty ::= PartyType

MortgageHolderParty ::= PartyType

BillOfLadingHolderParty ::= PartyType

OriginalDepartureCountry ::= CountryType

CountryType ::= SEQUENCE {

identificationCode IdentificationCode OPTIONAL,

name Name-1 OPTIONAL

}

FinalDestinationCountry ::= CountryType

TransitCountry ::= CountryType

TransportContract ::= ContractType

ContractType ::= SEQUENCE {

iD ID-1 OPTIONAL,

issueDate IssueDate OPTIONAL,

issueTime IssueTime OPTIONAL,

contractTypeCode ContractTypeCode OPTIONAL,

contractType ContractType-1 OPTIONAL,

note-list SEQUENCE OF Note,

validityPeriod ValidityPeriod OPTIONAL,

contractDocumentReference-list SEQUENCE OF ContractDocumentReference,

nominationPeriod NominationPeriod OPTIONAL,

contractualDelivery ContractualDelivery OPTIONAL

}

OriginalDespatchTransportationService ::= TransportationServiceType

TransportationServiceType ::= SEQUENCE {

transportServiceCode TransportServiceCode,

tariffClassCode TariffClassCode OPTIONAL,

priority Priority OPTIONAL,

freightRateClassCode FreightRateClassCode OPTIONAL,

transportationServiceDescription TransportationServiceDescription OPTIONAL,

transportationServiceDetailsURI TransportationServiceDetailsURI OPTIONAL

}

FinalDeliveryTransportationService ::= TransportationServiceType

DeliveryTerms ::= DeliveryTermsType

DeliveryTermsType ::= SEQUENCE {

iD ID-1 OPTIONAL,

specialTerms SpecialTerms OPTIONAL,

lossRiskResponsibilityCode LossRiskResponsibilityCode OPTIONAL,

lossRisk LossRisk OPTIONAL,  
 amount Amount OPTIONAL,  
 deliveryLocation DeliveryLocation OPTIONAL,  
 allowanceCharge AllowanceCharge OPTIONAL  
 }  
 PaymentTerms ::= PaymentTermsType  
 PaymentTermsType ::= SEQUENCE {  
 iD ID-1 OPTIONAL,  
 paymentMeansID-list SEQUENCE OF PaymentMeansID,  
 prepaidPaymentReferenceID PrepaidPaymentReferenceID OPTIONAL,  
 note-list SEQUENCE OF Note,  
 referenceEventCode ReferenceEventCode OPTIONAL,  
 settlementDiscountPercent SettlementDiscountPercent OPTIONAL,  
 penaltySurchargePercent PenaltySurchargePercent OPTIONAL,  
 paymentPercent PaymentPercent OPTIONAL,  
 amount Amount OPTIONAL,  
 settlementDiscountAmount SettlementDiscountAmount OPTIONAL,  
 penaltyAmount PenaltyAmount OPTIONAL,  
 paymentDueDate PaymentDueDate OPTIONAL,  
 installmentDueDate InstallmentDueDate OPTIONAL,  
 settlementPeriod SettlementPeriod OPTIONAL,  
 penaltyPeriod PenaltyPeriod OPTIONAL,  
 exchangeRate ExchangeRate OPTIONAL,  
 validityPeriod ValidityPeriod OPTIONAL  
 }  
 CollectPaymentTerms ::= PaymentTermsType  
 DisbursementPaymentTerms ::= PaymentTermsType  
 PrepaidPaymentTerms ::= PaymentTermsType  
  
 FreightAllowanceCharge ::= AllowanceChargeType  
 AllowanceChargeType ::= SEQUENCE {  
 iD ID-1 OPTIONAL,  
 chargeIndicator ChargeIndicator,

allowanceChargeReasonCode AllowanceChargeReasonCode OPTIONAL,  
allowanceChargeReason AllowanceChargeReason OPTIONAL,  
multiplierFactorNumeric MultiplierFactorNumeric OPTIONAL,  
prepaidIndicator PrepaidIndicator OPTIONAL,  
sequenceNumeric SequenceNumeric OPTIONAL,  
amount Amount,  
baseAmount BaseAmount OPTIONAL,  
accountingCostCode AccountingCostCode OPTIONAL,  
accountingCost AccountingCost OPTIONAL,  
perUnitAmount PerUnitAmount OPTIONAL,  
taxCategory-list SEQUENCE OF TaxCategory,  
taxTotal TaxTotal OPTIONAL,  
paymentMeans-list SEQUENCE OF PaymentMeans  
}

ExtraAllowanceCharge ::= AllowanceChargeType

MainCarriageShipmentStage ::= ShipmentStageType

ShipmentStageType ::= SEQUENCE {

iD ID-1 OPTIONAL,

transportModeCode TransportModeCode OPTIONAL,

transportMeansTypeCode TransportMeansTypeCode OPTIONAL,

transitDirectionCode TransitDirectionCode OPTIONAL,

preCarriageIndicator PreCarriageIndicator,

onCarriageIndicator OnCarriageIndicator,

estimatedDeliveryDate EstimatedDeliveryDate OPTIONAL,

estimatedDeliveryTime EstimatedDeliveryTime OPTIONAL,

requiredDeliveryDate RequiredDeliveryDate OPTIONAL,

requiredDeliveryTime RequiredDeliveryTime OPTIONAL,

loadingSequenceID LoadingSequenceID OPTIONAL,

successiveSequenceID SuccessiveSequenceID OPTIONAL,

instructions Instructions OPTIONAL,

demurrageInstructions DemurrageInstructions OPTIONAL,

transitPeriod TransitPeriod OPTIONAL,  
 carrierParty-list SEQUENCE OF CarrierParty,  
 transportMeans TransportMeans OPTIONAL,  
 loadingPortLocation LoadingPortLocation OPTIONAL,  
 unloadingPortLocation UnloadingPortLocation OPTIONAL,  
 transshipPortLocation TransshipPortLocation OPTIONAL,  
 loadingTransportEvent LoadingTransportEvent OPTIONAL,  
 examinationTransportEvent ExaminationTransportEvent OPTIONAL,  
 availabilityTransportEvent AvailabilityTransportEvent OPTIONAL,  
 exportationTransportEvent ExportationTransportEvent OPTIONAL,  
 dischargeTransportEvent DischargeTransportEvent OPTIONAL,  
 warehousingTransportEvent WarehousingTransportEvent OPTIONAL,  
 takeoverTransportEvent TakeoverTransportEvent OPTIONAL,  
 optionalTakeoverTransportEvent OptionalTakeoverTransportEvent OPTIONAL,  
 dropoffTransportEvent DropoffTransportEvent OPTIONAL,  
 actualPickupTransportEvent ActualPickupTransportEvent OPTIONAL,  
 deliveryTransportEvent DeliveryTransportEvent OPTIONAL,  
 receiptTransportEvent ReceiptTransportEvent OPTIONAL,  
 storageTransportEvent StorageTransportEvent OPTIONAL,  
 acceptanceTransportEvent AcceptanceTransportEvent OPTIONAL,  
 terminalOperatorParty TerminalOperatorParty OPTIONAL,  
 customsAgentParty CustomsAgentParty OPTIONAL  
 }  
 PreCarriageShipmentStage ::= ShipmentStageType  
  
 OnCarriageShipmentStage ::= ShipmentStageType  
 TransportHandlingUnit ::= TransportHandlingUnitType  
 TransportHandlingUnitType ::= SEQUENCE {  
 id ID-1 OPTIONAL,  
 transportHandlingUnitTypeCode TransportHandlingUnitTypeCode OPTIONAL,  
 handlingCode HandlingCode OPTIONAL,  
 handlingInstructions HandlingInstructions OPTIONAL,  
 hazardousRiskIndicator HazardousRiskIndicator OPTIONAL,

```

totalGoodsItemQuantity      TotalGoodsItemQuantity OPTIONAL,
totalPackageQuantity        TotalPackageQuantity OPTIONAL,
damageRemarks-list         SEQUENCE OF DamageRemarks,
shippingMarks-list          SEQUENCE OF ShippingMarks,
handlingUnitDespatchLine-list SEQUENCE OF HandlingUnitDespatchLine,
actualPackage-list           SEQUENCE OF ActualPackage,
receivedHandlingUnitReceiptLine-list SEQUENCE OF ReceivedHandlingUnitReceiptLine,
transportEquipment-list     SEQUENCE OF TransportEquipment,
hazardousGoodsTransit-list  SEQUENCE OF HazardousGoodsTransit,
measurementDimension-list   SEQUENCE OF MeasurementDimension,
minimumTemperature          MinimumTemperature OPTIONAL,
maximumTemperature           MaximumTemperature OPTIONAL,
goodsItem-list              SEQUENCE OF GoodsItem,
floorSpaceMeasurementDimension FloorSpaceMeasurementDimension OPTIONAL,
palletSpaceMeasurementDimension PalletSpaceMeasurementDimension OPTIONAL
}

```

```

LocationType ::= SEQUENCE {
  id          ID-1 OPTIONAL,
  description Description OPTIONAL,
  conditions  Conditions OPTIONAL,
  countrySubentity CountrySubentity OPTIONAL,
  countrySubentityCode CountrySubentityCode OPTIONAL,
  locationTypeCode LocationTypeCode OPTIONAL,
  validityPeriod-list SEQUENCE OF ValidityPeriod,
  address     Address OPTIONAL,
  subsidiaryLocation SubsidiaryLocation OPTIONAL,
  locationCoordinate LocationCoordinate OPTIONAL
}

```

FirstArrivalPortLocation ::= LocationType

LastExitPortLocation ::= LocationType

ConsolidatedShipment ::= ShipmentType

ShipmentType ::= SEQUENCE {

id ID-1,

shippingPriorityLevelCode ShippingPriorityLevelCode OPTIONAL,

handlingCode HandlingCode OPTIONAL,

handlingInstructions HandlingInstructions OPTIONAL,

information Information OPTIONAL,

grossWeightMeasure GrossWeightMeasure OPTIONAL,

netWeightMeasure NetWeightMeasure OPTIONAL,

netNetWeightMeasure NetNetWeightMeasure OPTIONAL,

grossVolumeMeasure GrossVolumeMeasure OPTIONAL,

netVolumeMeasure NetVolumeMeasure OPTIONAL,

totalGoodsItemQuantity TotalGoodsItemQuantity OPTIONAL,

totalTransportHandlingUnitQuantity TotalTransportHandlingUnitQuantity OPTIONAL,

insuranceValueAmount InsuranceValueAmount OPTIONAL,

declaredCustomsValueAmount DeclaredCustomsValueAmount OPTIONAL,

declaredForCarriageValueAmount DeclaredForCarriageValueAmount OPTIONAL,

declaredStatisticsValueAmount DeclaredStatisticsValueAmount OPTIONAL,

freeOnBoardValueAmount FreeOnBoardValueAmount OPTIONAL,

specialInstructions-list SEQUENCE OF SpecialInstructions,

deliveryInstructions-list SEQUENCE OF DeliveryInstructions,

splitConsignmentIndicator SplitConsignmentIndicator OPTIONAL,

consignmentQuantity ConsignmentQuantity OPTIONAL,

consignment-list SEQUENCE (SIZE(1..MAX)) OF Consignment,

goodsItem-list SEQUENCE OF GoodsItem,

shipmentStage-list SEQUENCE OF ShipmentStage,

delivery Delivery OPTIONAL,

transportHandlingUnit-list SEQUENCE OF TransportHandlingUnit,

returnAddress ReturnAddress OPTIONAL,

originAddress OriginAddress OPTIONAL,

firstArrivalPortLocation FirstArrivalPortLocation OPTIONAL,

lastExitPortLocation LastExitPortLocation OPTIONAL,  
exportCountry ExportCountry OPTIONAL,  
freightAllowanceCharge-list SEQUENCE OF FreightAllowanceCharge  
}

## 7.6 'Display Message Type'

### 7.6.1 Description

'Display Message Type' is a message issued by the AEI manager to a message display to indicate the actual access control and access related information of a transport means, load unit or a goods item to a terminal monitoring point.

### 7.6.2 ASN.1 type

```
DisplayMessageType ::= SEQUENCE {  
    accessControlStatus AccessControlStatus,  
    transportObjId TransportObjectIdentifier OPTIONAL,  
    msgInfo MsgInfo OPTIONAL  
}
```

## 7.7 Message information

### 7.7.1 Description

Message information is a data element, which an AEI manager can use to indicate visual information on a display by access control of a transport means, load unit or goods item.

### 7.7.2 ASN.1 type

```
MsgInfo ::= VISIBLE STRING
```

NOTE The Message Information may comprise information resided in the TAG and/or the AEI reader.

## 7.8 'Position'

### 7.8.1 Description

'Position' is relative to a reference point defined by the AEI manager. The three-dimensional position reference is given in metric precision.

### 7.8.2 ASN.1 type

```
Position ::= SEQUENCE {  
    xCoordinate INTEGER,  
    yCoordinate INTEGER,  
    zCoordinate INTEGER  
}
```

## 7.9 Geographic point location

### 7.9.1 Description

The type Geographic point location is defined as a printable string that contains a geographic point locations in accordance with ISO6709.

### 7.9.2 ASN.1 type

```
Geographicpoint ::= PrintableString (FROM ("0123456789" | "+" | "-" | "." | "/")) (SIZE (4..36))
```

-- in accordance with ISO 6709

NOTE The '/' symbol may be omitted as it is only used in 6709 an optional string terminated symbol (which is not necessary in an ASN.1 encoding)

## 7.10 'Reader Location'

### 7.10.1 Description

'Reader Location' is a unique location reference of the AEI reader administered by the AEI manager.

The geometrical position of the reader location is relative to a reference point defined by AEI manager.

### 7.10.2 ASN.1 type

```
ReaderLocation ::= SEQUENCE {
  readerIdentity CS2 OPTIONAL, -- Global Manufacturer
  -- Identifier from
  -- ENV ISO 14816
  localIdentity INTEGER(1..65535) OPTIONAL, -- Locally determined
  -- reader identity
  unlocode UNlocode OPTIONAL,
  position Position OPTIONAL
}
```

## 7.11 'Terminal Monitoring Type'

### 7.11.1 Description

The 'Terminal Monitoring Type' is the type of monitoring, which the AEI manager uses for the purpose of conducting business processes for control and monitoring transport means, load units and goods items by AEI.

### 7.11.2 ASN.1 type

```
TerminalMonitoringType ::= BIT STRING {
  entry (0),
  exit (1),
  loading (2),
  unloading (3),
  stacking (4),
  unstacking (5),
  stuffing (6),
  stripping (7),
  registration (8) --automatic reading of transport objects
}
```

## 7.12 'Transport Component Status'

### 7.12.1 Description

'Transport Component Status' is a status code to indicate the operational status of the components (AEI Reader, Transport Object, and Message Display) defined within this International Standard.

### 7.12.2 ASN.1 type

```
TransportComponentStatus ::= ENUMERATED {  
    oK (0),  
    malFunction (1),  
    batteryLow (2)  
}
```

## 7.13 'Transport Object Identifier'

### 7.13.1 Description

The 'Transport Object Identifier' is the identifier of a transport means, package or goods item.

NOTE The 'Transport Object Identifier' normally comprises the TAG identity.

### 7.13.2 ASN.1 type

```
TransportObjectIdentifier ::= CHOICE {  
c1 CS1, --imported from ISO14816, AVIAEI Unambiguous identifier  
c2 CS2, --ditto  
c4 CS4, --ditto  
c5 CS5, --ditto  
c7 CS7, --ditto  
c8 CS8, --ditto  
c9 CS9, --Swap Body Structure  
c10 CS10, --freight conveyance identifier  
c11 CS11  
--private defined data can be added here  
}
```

## 7.14 'Transport Object Type'

### 7.14.1 Description

The 'Transport Object Type' is a qualifier for the type of unit, which is included in a transport chain.

### 7.14.2 ASN.1 type

```
TransportObjectType ::= ENUMERATED {  
    goodsItem (0),  
    package (1), --or load unit  
    transportMeans (2)  
}
```

## 7.15 'Transport Object Message Type'

### 7.15.1 Description

A message comprising the identity, type and, if present the battery status of the transport object.

```

ASN.1 type
TransportObjectMessageType ::= SEQUENCE
    TransportObjectIdentifier, -- Depending on the Transport Object
                               -- Type
    TransportObjectType OPTIONAL, -- Transport Means, Package, Goods
                                   -- Item
TransportComponentStatus OPTIONAL
}

```

## 7.16 UN/LOCODE

### 7.16.1 Description

The UN/Locode specifies the geographical location of the AEI reader or the terminal monitoring point subject to administration from the AEI manager.

### 7.16.2 ASN.1 type

```

UNLocode ::= OCTET STRING -- UNLocode comprises country code + set of
                           -- location code(s)

```

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012

## Annex A (normative)

### ASN.1 Module for intermodal goods transport numbering and data structures

#### A.1 Data definitions

According to advice from ISO/IEC 8824, and in order to make the data defined within this International Standard valid for use in other RTTT/ITS application standards, the definitions below shall be their reference.

AVIAEIIntermodalNumberingAndDataStructures

```
{iso(1) standard(0) iso17262(17262) rev1 (1)} AUTOMATIC TAGS DEFINITIONS ::= BEGIN
--EXPORTS everything;
IMPORTS CS1, CS2, CS3, CS4, CS5, CS7, CS8 FROM ENV ISO 14816:2005
TimeReal FROM ENV ISO 14906:1998
ExportCountry, OriginAddress, ReturnAddress, Delivery, ShipmentStage, Consignment,
ConsignmentQuantity, SplitConsignmentIndicator, DeliveryInstructions, SpecialInstructions,
FreeOnBoardValueAmount, DeclaredStatisticsValueAmount, DeclaredForCarriageValueAmount,
DeclaredCustomsValueAmount, InsuranceValueAmount, TotalTransportHandlingUnitQuantity,
NetVolumeMeasure, GrossVolumeMeasure, NetNetWeightMeasure, NetWeightMeasure,
GrossWeightMeasure, Information, ShippingPriorityLevelCode, LocationCoordinate,
SubsidiaryLocation, Address, LocationTypeCode, CountrySubentityCode,
CountrySubentity, Conditions, Description, PalletSpaceMeasurementDimension,
FloorSpaceMeasurementDimension, GoodsItem, MaximumTemperature, MinimumTemperature,
MeasurementDimension, HazardousGoodsTransit, TransportEquipment,
ReceivedHandlingUnitReceiptLine, ActualPackage, HandlingUnitDespatchLine, ShippingMarks,
DamageRemarks, TotalPackageQuantity, TotalGoodsItemQuantity, HazardousRiskIndicator,
HandlingInstructions, HandlingCode, TransportHandlingUnitTypeCode, CustomsAgentParty,
TerminalOperatorParty, AcceptanceTransportEvent, StorageTransportEvent,
ReceiptTransportEvent, DeliveryTransportEvent, ActualPickupTransportEvent,
DropoffTransportEvent, OptionalTakeoverTransportEvent, TakeoverTransportEvent,
WarehousingTransportEvent, DischargeTransportEvent, ExportationTransportEvent,
AvailabilityTransportEvent, ExaminationTransportEvent, LoadingTransportEvent,
TransshipPortLocation, UnloadingPortLocation, LoadingPortLocation, TransportMeans,
TransitPeriod, DemurrageInstructions, Instructions, SuccessiveSequenceID,
LoadingSequenceID, RequiredDeliveryTime, RequiredDeliveryDate, EstimatedDeliveryTime,
EstimatedDeliveryDate, OnCarriageIndicator, PreCarriageIndicator,
TransitDirectionCode, TransportMeansTypeCode, TransportModeCode, PaymentMeans,
TaxTotal, TaxCategory, PerUnitAmount, AccountingCost, AccountingCostCode, BaseAmount,
SequenceNumeric, PrepaidIndicator, MultiplierFactorNumeric, AllowanceChargeReason,
AllowanceChargeReasonCode, ChargeIndicator, ExchangeRate, PenaltyPeriod,
SettlementPeriod, InstallmentDueDate, PaymentDueDate, PenaltyAmount,
SettlementDiscountAmount, PaymentPercent, PenaltySurchargePercent,
SettlementDiscountPercent, ReferenceEventCode, PrepaidPaymentReferenceID,
PaymentMeansID, AllowanceCharge, DeliveryLocation, Amount, LossRisk,
LossRiskResponsibilityCode, SpecialTerms, TransportationServiceDetailsURI,
TransportationServiceDescription, FreightRateClassCode, Priority, TariffClassCode,
TransportServiceCode, ContractualDelivery, NominationPeriod, ContractDocumentReference,
ValidityPeriod, Note, ContractType-1, ContractTypeCode, IssueTime, IssueDate, Name-1,
IdentificationCode, FinancialAccount, PowerOfAttorney, ServiceProviderParty, AgentParty,
Person, Contact, PartyLegalEntity, PartyTaxScheme, PhysicalLocation, PostalAddress,
Language-1, PartyName, PartyIdentification, IndustryClassificationCode, EndpointID,
LogoReferenceID, WebsiteURI, MarkAttentionIndicator, MarkCareIndicator, BrokerAssignedID,
ID-1 FROM UBL21Module
```

```

AccessControlStatus ::= ENUMERATED {
    accessOk (0),
    accessDenied (1),
    accessPending (2)
}

AEIMessageType ::= SEQUENCE {
    TimeReal, --Local time reference (precision in seconds)
    ReaderLocation,
    TerminalMonitoringType,
    TransportObjectMessageType , --Transport Means, Package, Goods Item
}

CS9 ::= SwapBodyStructure ::= SEQUENCE {
    ownerCode BIT STRING(SIZE(15)), -- EN 13044
    equipCategoryId BIT STRING(SIZE(3)), -- EN 13044
    serialNumber INTEGER(0 .. 1000000), -- EN 13044
    checkDigit INTEGER(0 .. 10), -- EN 13044
    length INTEGER(1 .. 2048), -- cm
    height INTEGER(1 .. 512), -- cm
    width INTEGER(200 .. 327), -- cm (7bits)
    containerTypeCode INTEGER(0 .. 63), -- EN 13044
    maximumGrossWeight INTEGER(1 .. 512), -- 100 kg
    tareWeight INTEGER(0 .. 63) -- 100 kg
}

CS10 ::= FreightConveyanceIdentifier
FreightConveyanceIdentifier ::=SEQUENCE{
multipleFreightConveyanceIdentification MultipleFreightConveyanceIdentification,
multipleLoadIdentification MultipleLoadIdentification
}

MultipleFreightConveyanceIdentification ::= SEQUENCE {
    identifierCode INTEGER {
        nofreightConveyanceIdentifier (0),
        freightContainerIdentification (1),
        multipleFreightContainerIdentification (2)
    } (0 .. 31),
    freightContainerTypeIdentification CS7
}

MultipleLoadIdentification ::= SEQUENCE{
    identifierCode INTEGER {
        noLoadIdentifier (0),
        transportMeansIdentification (1), --ISO14816
        intermodalGoodsTransportationIdentification (2), --ISO17262
        freightContainerIdentification (3), --ISO17363
        returnableTransportItemsIdentification (4), --ISO17364
        transportUnitsIdentification (5), --ISO17365
        productPackagingIdentification (6), --ISO17366
        goodsItemsIdentification (7), --ISO17367
        unused1 (8), -- 8-14 unused
        unused2 (9), -- 8-14 unused
        unused3 (10), -- 8-14 unused
        unused4 (11), -- 8-14 unused
        unused5 (12), -- 8-14 unused
        unused6 (13), -- 8-14 unused
        unused7 (14), -- 8-14 unused
        electronicSealsIdentification (15) --ISO18185
    } (0 .. 999),
    noLoadIdentifier PrintableString OPTIONAL,
    transportMeansIdentification PrintableString OPTIONAL,

```

```

-- Automatic vehicle and equipment identification -Numbering and data structure,
-- containing the corresponding identifier to be defined in ISO 14816,
intermodalGoodsTransportIdentification PrintableString OPTIONAL,
--Automatic vehicle and equipment identification- Numbering and data structures,
-- containing the corresponding identifier to be defined in ISO17262
freightContainerIdentification PrintableString OPTIONAL,
--Supply chain applications of RFID,
--containing the corresponding identifier to be defined in ISO17363
returnableTransportItemsIdentification PrintableString OPTIONAL,
--Supply chain applications of RFID,
--containing the corresponding identifier to be defined in ISO17364
transportUnitsIdentification PrintableString OPTIONAL,
--Supply chain applications of RFID,
--containing the corresponding identifier to be defined in ISO17365
productPckagingIdentification PrintableString OPTIONAL,
--Supply chain applications of RFID,
--containing the corresponding identifier to be defined in ISO17366
goodsItemsIdentification PrintableString OPTIONAL,
--Supply chain applications of RFID,
--containing the corresponding identifier to be defined in ISO17367
electronicSealsIdentification PrintableString OPTIONAL
--Freight containers
--Part 4: Data protection,
-- containing the corresponding identifier to be defined in ISO18185
}

```

```

XSD ::= CLASS { --XSD is dummy class to get CS11 compilable
&NormalizedString OPTIONAL,
&String OPTIONAL,
&AnyURI OPTIONAL,
&Language OPTIONAL,
&Decimal OPTIONAL
}
CS11 ::= TransportLibraryConsignment
TransportLibraryConsignment ::= SEQUENCE {
id ID-1,
carrierAssignedID CarrierAssignedIDType OPTIONAL,
consigneeAssignedID ConsigneeAssignedIDType OPTIONAL,
consignorAssignedID ConsignorAssignedIDType OPTIONAL,
freightForwarderAssignedID FreightForwarderAssignedIDType OPTIONAL,
brokerAssignedID BrokerAssignedIDType OPTIONAL,
contractedCarrierAssignedID ContractedCarrierAssignedIDType OPTIONAL,
performingCarrierAssignedID PerformingCarrierAssignedIDType OPTIONAL,
summaryDescription-list SEQUENCE OF SummaryDescriptionType,
totalInvoiceAmount TotalInvoiceAmountType OPTIONAL,
declaredCustomsValueAmount DeclaredCustomsValueAmountType OPTIONAL,
tariffDescription-list SEQUENCE OF TariffDescriptionType,
tariffCode TariffCodeType OPTIONAL,
insurancePremiumAmount InsurancePremiumAmountType OPTIONAL,
grossWeightMeasure GrossWeightMeasureType OPTIONAL,
netWeightMeasure NetWeightMeasureType OPTIONAL,
netNetWeightMeasure NetNetWeightMeasureType OPTIONAL,
chargeableWeightMeasure ChargeableWeightMeasureType OPTIONAL,
grossVolumeMeasure GrossVolumeMeasureType OPTIONAL,
netVolumeMeasure NetVolumeMeasureType OPTIONAL,
loadingLengthMeasure LoadingLengthMeasureType OPTIONAL,
remarks-list SEQUENCE OF RemarksType,
hazardousRiskIndicator HazardousRiskIndicatorType OPTIONAL,
animalFoodIndicator AnimalFoodIndicatorType OPTIONAL,
humanFoodIndicator HumanFoodIndicatorType OPTIONAL,
livestockIndicator LivestockIndicatorType OPTIONAL,
bulkCargoIndicator BulkCargoIndicatorType OPTIONAL,

```

containerizedIndicator ContainerizedIndicatorType OPTIONAL,  
 generalCargoIndicator GeneralCargoIndicatorType OPTIONAL,  
 specialSecurityIndicator SpecialSecurityIndicatorType OPTIONAL,  
 thirdPartyPayerIndicator ThirdPartyPayerIndicatorType OPTIONAL,  
 carrierServiceInstructions CarrierServiceInstructionsType OPTIONAL,  
 customsClearanceServiceInstructions CustomsClearanceServiceInstructionsType OPTIONAL,  
 forwarderServiceInstructions ForwarderServiceInstructionsType OPTIONAL,  
 specialServiceInstructions SpecialServiceInstructionsType OPTIONAL,  
 sequenceID SequenceIDType OPTIONAL,  
 shippingPriorityLevelCode ShippingPriorityLevelCodeType OPTIONAL,  
 handlingCode HandlingCodeType OPTIONAL,  
 handlingInstructions HandlingInstructionsType OPTIONAL,  
 information InformationType OPTIONAL,  
 totalGoodsItemQuantity TotalGoodsItemQuantityType OPTIONAL,  
 totalTransportHandlingUnitQuantity TotalTransportHandlingUnitQuantityType OPTIONAL,  
 insuranceValueAmount InsuranceValueAmountType OPTIONAL,  
 declaredForCarriageValueAmount DeclaredForCarriageValueAmountType OPTIONAL,  
 declaredStatisticsValueAmount DeclaredStatisticsValueAmountType OPTIONAL,  
 freeOnBoardValueAmount FreeOnBoardValueAmountType OPTIONAL,  
 specialInstructions-list SEQUENCE OF SpecialInstructionsType,  
 splitConsignmentIndicator SplitConsignmentIndicatorType OPTIONAL,  
 deliveryInstructions-list SEQUENCE OF DeliveryInstructionsType,  
 consignmentQuantity ConsignmentQuantityType OPTIONAL,  
 consolidatableIndicator ConsolidatableIndicatorType OPTIONAL,  
 haulageInstructions-list SEQUENCE OF HaulageInstructionsType,  
 loadingSequenceID LoadingSequenceIDType OPTIONAL,  
 consigneeParty ConsigneeParty OPTIONAL,  
 exporterParty ExporterParty OPTIONAL,  
 consignorParty ConsignorParty OPTIONAL,  
 importerParty ImporterParty OPTIONAL,  
 carrierParty CarrierParty OPTIONAL,  
 freightForwarderParty FreightForwarderParty OPTIONAL,  
 notifyParty NotifyParty OPTIONAL,  
 originalDespatchParty OriginalDespatchParty OPTIONAL,  
 finalDeliveryParty FinalDeliveryParty OPTIONAL,  
 performingCarrierParty PerformingCarrierParty OPTIONAL,  
 substituteCarrierParty SubstituteCarrierParty OPTIONAL,  
 logisticsOperatorParty LogisticsOperatorParty OPTIONAL,  
 transportAdvisorParty TransportAdvisorParty OPTIONAL,  
 hazardousItemNotificationParty HazardousItemNotificationParty OPTIONAL,  
 insuranceParty InsuranceParty OPTIONAL,  
 mortgageHolderParty MortgageHolderParty OPTIONAL,  
 billOfLadingHolderParty BillOfLadingHolderParty OPTIONAL,  
 originalDepartureCountry OriginalDepartureCountry OPTIONAL,  
 finalDestinationCountry FinalDestinationCountry OPTIONAL,  
 transitCountry-list SEQUENCE OF TransitCountry,  
 transportContract TransportContract OPTIONAL,  
 originalDespatchTransportationService OriginalDespatchTransportationService OPTIONAL,  
 finalDeliveryTransportationService FinalDeliveryTransportationService OPTIONAL,  
 deliveryTerms DeliveryTerms OPTIONAL,  
 paymentTerms PaymentTerms OPTIONAL,  
 collectPaymentTerms CollectPaymentTerms OPTIONAL,  
 disbursementPaymentTerms DisbursementPaymentTerms OPTIONAL,  
 prepaidPaymentTerms PrepaidPaymentTerms OPTIONAL,  
 freightAllowanceCharge-list SEQUENCE OF FreightAllowanceCharge,  
 extraAllowanceCharge-list SEQUENCE OF ExtraAllowanceCharge,  
 mainCarriageShipmentStage MainCarriageShipmentStage OPTIONAL,  
 preCarriageShipmentStage-list SEQUENCE OF PreCarriageShipmentStage,  
 onCarriageShipmentStage-list SEQUENCE OF OnCarriageShipmentStage,  
 transportHandlingUnit-list SEQUENCE OF transportHandlingUnit TransportHandlingUnit,  
 firstArrivalPortLocation FirstArrivalPortLocation OPTIONAL,  
 lastExitPortLocation LastExitPortLocation OPTIONAL,  
 consolidatedShipment-list SEQUENCE OF ConsolidatedShipment  
 }  
 CarrierAssignedIDType ::= SEQUENCE {

```

schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
ConsigneeAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
ConsignorAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
FreightForwarderAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
BrokerAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
ContractedCarrierAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
PerformingCarrierAssignedIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,

```

STANDARDS.PDF.COM - Click to view the full PDF of ISO 17262:2012

```

schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
SummaryDescriptionType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
TotalInvoiceAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
DeclaredCustomsValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
TariffDescriptionType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
TariffCodeType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
listAgencyID XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID XSD.&NormalizedString OPTIONAL,
listName XSD.&String OPTIONAL,
listSchemeURI XSD.&AnyURI OPTIONAL,
listURI XSD.&AnyURI OPTIONAL,
listVersionID XSD.&NormalizedString OPTIONAL,
name XSD.&String OPTIONAL,
base XSD.&NormalizedString
}
InsurancePremiumAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
GrossWeightMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
NetWeightMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
NetNetWeightMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
ChargeableWeightMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
GrossVolumeMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}

```

```

}
NetVolumeMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
LoadingLengthMeasureType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
RemarksType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
HazardousRiskIndicatorType ::= SEQUENCE {
base BOOLEAN
}
AnimalFoodIndicatorType ::= SEQUENCE {
base BOOLEAN
}
HumanFoodIndicatorType ::= SEQUENCE {
base BOOLEAN
}
LivestockIndicatorType ::= SEQUENCE {
base BOOLEAN
}
BulkCargoIndicatorType ::= SEQUENCE {
base BOOLEAN
}
ContainerizedIndicatorType ::= SEQUENCE {
base BOOLEAN
}
GeneralCargoIndicatorType ::= SEQUENCE {
base BOOLEAN
}
SpecialSecurityIndicatorType ::= SEQUENCE {
base BOOLEAN
}
ThirdPartyPayerIndicatorType ::= SEQUENCE {
base BOOLEAN
}
CarrierServiceInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
CustomsClearanceServiceInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
ForwarderServiceInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
SpecialServiceInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
SequenceIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,

```

```

schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString
}
ShippingPriorityLevelCodeType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
listAgencyID XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID XSD.&NormalizedString OPTIONAL,
listName XSD.&String OPTIONAL,
listSchemeURI XSD.&AnyURI OPTIONAL,
listURI XSD.&AnyURI OPTIONAL,
listVersionID XSD.&NormalizedString OPTIONAL,
name XSD.&String OPTIONAL,
base XSD.&NormalizedString
}
HandlingCodeType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
listAgencyID XSD.&NormalizedString OPTIONAL,
listAgencyName XSD.&String OPTIONAL,
listID XSD.&NormalizedString OPTIONAL,
listName XSD.&String OPTIONAL,
listSchemeURI XSD.&AnyURI OPTIONAL,
listURI XSD.&AnyURI OPTIONAL,
listVersionID XSD.&NormalizedString OPTIONAL,
name XSD.&String OPTIONAL,
base XSD.&NormalizedString
}
HandlingInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
InformationType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
TotalGoodsItemQuantityType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyName XSD.&String OPTIONAL,
unitCodeListID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
TotalTransportHandlingUnitQuantityType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyName XSD.&String OPTIONAL,
unitCodeListID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
InsuranceValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
DeclaredForCarriageValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}

```

```

}
DeclaredStatisticsValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
FreeOnBoardValueAmountType ::= SEQUENCE {
currencyCodeListVersionID XSD.&NormalizedString OPTIONAL,
currencyID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
SpecialInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
SplitConsignmentIndicatorType ::= SEQUENCE {
base BOOLEAN
}
DeliveryInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
ConsignmentQuantityType ::= SEQUENCE {
unitCode XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyID XSD.&NormalizedString OPTIONAL,
unitCodeListAgencyName XSD.&String OPTIONAL,
unitCodeListID XSD.&NormalizedString OPTIONAL,
base XSD.&Decimal
}
ConsolidatableIndicatorType ::= SEQUENCE {
base BOOLEAN
}
HaulageInstructionsType ::= SEQUENCE {
languageID XSD.&Language OPTIONAL,
languageLocaleID XSD.&NormalizedString OPTIONAL,
base XSD.&String
}
LoadingSequenceIDType ::= SEQUENCE {
schemeAgencyID XSD.&NormalizedString OPTIONAL,
schemeAgencyName XSD.&String OPTIONAL,
schemeDataURI XSD.&AnyURI OPTIONAL,
schemeID XSD.&NormalizedString OPTIONAL,
schemeName XSD.&String OPTIONAL,
schemeURI XSD.&AnyURI OPTIONAL,
schemeVersionID XSD.&NormalizedString OPTIONAL,
base XSD.&NormalizedString}
PartyType ::= SEQUENCE {
markCareIndicator MarkCareIndicator OPTIONAL,
markAttentionIndicator MarkAttentionIndicator OPTIONAL,
websiteURI WebsiteURI OPTIONAL,
logoReferenceID LogoReferenceID OPTIONAL,
endpointID EndpointID OPTIONAL,
industryClassificationCode IndustryClassificationCode OPTIONAL,
partyIdentification-list SEQUENCE OF PartyIdentification,
partyName-list SEQUENCE OF PartyName,
language Language-1 OPTIONAL,
postalAddress PostalAddress OPTIONAL,
physicalLocation PhysicalLocation OPTIONAL,
partyTaxScheme-list SEQUENCE OF PartyTaxScheme,
partyLegalEntity-list SEQUENCE OF PartyLegalEntity,
contact Contact OPTIONAL,
person-list SEQUENCE OF Person,
agentParty AgentParty OPTIONAL,

```