INTERNATIONAL STANDARD

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AMENDMENT 1
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Information technology — Open Systems Interconnection — Connectionless protocol for the Association Control Service Element: Protocol specification

AMENDMENT 1: Incorporation of extensibility markers and authentication parameters

Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Protocole en mode sans connexion pour l'élément de service de contrôle d'association: Spécification du protocole

AMENDEMENT 1: Incorporation de marqueurs d'extensibilité et de paramètres d'authentification

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.

Amendment 1 to International Standard ISO/IEC 10035-1:1995 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Sub-committee SC 21, *Open systems interconnection, data management and open distributed processing,* in collaboration with ITU-T. The identical text is published as ITU-T Rec. X.237/Amd.1.

Introduction

This amendment to the connectionless ACSE protocol specification includes the ASN.1 extensibility marker in the module describing the protocol. It also enhances the connectionless ACSE protocol specification to provide support for conveyance of authentication parameters in the A-UNIT-DATA APDU.

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ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – CONNECTIONLESS PROTOCOL FOR THE ASSOCIATION CONTROL SERVICE ELEMENT: PROTOCOL SPECIFICATION

AMENDMENT 1
Incorporation of extensibility markers and authentication parameters

1) Subclause 7.1.4

Add the following to the end of Table 1 – AUDT APDU Fields

Authentication mechanism name	U	req	ind
Authentication value	U	req	ind

2) Subclauses 7.1.4.13 and 7.1.4.14

Add the following two new clauses, immediately after 7.1.4.12.

7.1.4.13 Authentication mechanism name

For the sending ACPM: This value is determined by the value of the Authentication Mechanism Name parameter of the A-UNIT-DATA request primitive.

For the receiving ACPM: This value is used to determine the value of the Authentication Mechanism Name parameter of the A-UNIT-DATA indication primitive, if issued.

7.1.4.14 Authentication Value

For the sending ACPM: This value is determined by the value of the Authentication Value parameter of the Λ-UNIT-DATA request primitive.

For the receiving ACPM: This value is used to determine the value of the Authentication Value parameter of the A-UNIT-DATA indication primitive, if issued.

NOTE – There is no need for an "ACSE requirements" field in the connectionless protocol. The use of the authentication functional unit by the sending ACPM is implicit in the presence of the mechanism-name or calling-authentication-value fields.

3) Subclause 7.2

Add the following new item c) *and replace the full stop at the end of item* b) *with a semi-colon.*

    c)   if the authentication functional unit is not supported, ignore any mechanism-name or calling-authentication-value field.

4)   Subclause 9.1

Replace the ASN.1 module with the following:

Connectionless-ACSE-1{joint-iso-itu-t association-control(2) module(2) clacse1(2) version(1) }

DEFINITIONS::=

BEGIN
-- *Connectionless-ACSE-1 refers to ITU-T Rec. X.237 | ISO/IEC 10035-1*

IMPORTS
        AP-title, AE-qualifier, AE-title, Authentication-value, Mechanism-name, ObjectSet
        FROM ACSE-1
            {joint-iso-itu-t association-control(2) module(2) acse1(1) version(1) }
-- *The data types AP-title and AE-qualifier are imported from ITU-T Rec. X.227 | ISO/IEC 8650-1*

AUDT-apdu ::= [APPLICATION 0]		**IMPLICIT SEQUENCE**	
{ protocol-version	**[0]**	**IMPLICIT BIT STRING**	
		{version1 (0)} DEFAULT {version1},	
application-context-name	**[1]**	**Application-context-name,**	
called-AP-title	**[2]**	**AP-title**	**OPTIONAL,**
called-AE-qualifier	**[3]**	**AE-qualifier**	**OPTIONAL,**
called-AP-invocation-id	**[4]**	**AP-invocation-id**	**OPTIONAL,**
called-AE-invocation-id	**[5]**	**AE-invocation-id**	**OPTIONAL,**
calling-AP-title	**[6]**	**AP-title**	**OPTIONAL,**
calling-AE-qualifier	**[7]**	**AE-qualifier**	**OPTIONAL,**
calling-AP-invocation-id	**[8]**	**AP-invocation-id**	**OPTIONAL,**
calling-AE-invocation-id	**[9]**	**AE-invocation-id**	**OPTIONAL,**

-- *the following field shall only be present if the Authentication functional unit is selected*

mechanism-name	**[11]**	**IMPLICIT Mechanism-name**	**OPTIONAL,**

-- *the following field shall only be present if the Authentication functional unit is selected*

calling-authentication-value		**EXPLICIT Authentication-value**	**OPTIONAL,**
implementation-information	**[29]**	**IMPLICIT Graphic String**	**OPTIONAL,**

...,

...,

user-information	**[30]**	**IMPLICIT SEQUENCE SIZE (1, ..., 0,2..MAX)**
		OF EXTERNAL

}

Application-context-name ::= OBJECT IDENTIFIER

-- *As defined in CCITT Rec. X.650 | ISO 7498-3, an application-entity title is composed of an*
-- *application-process title and an application-entity qualifier. The ACSE protocol provides for the*
-- *transfer of an application-entity title value by the transfer of its component values.*

AE-invocation-id ::= INTEGER

AE-invocation-id ::= INTEGER

END