INTERNATIONAL STANDARD

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AMENDMENT 1
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Information technology — Open Systems Interconnection — Service definition for the Association Control Service Element

AMENDMENT 1: Support of authentication mechanisms for the connectionless mode

Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Définition du service pour l'élément de service de contrôle d'association

AMENDEMENT 1: Support des mécanismes d'authentification pour le mode sans connexion

Foreword

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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 8649:1996 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee 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.217/Amd.1.

Introduction

This amendment to the ACSE service definition defines the use of the authentication functional unit in the connectionless mode.

ISO/IEC 8649:1996/Amd 1:1997
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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SERVICE DEFINITION FOR THE ASSOCIATION CONTROL SERVICE ELEMENT

AMENDMENT 1
Support of authentication mechanisms for the connectionless mode

1)   Subclause 7.2

Delete the second paragraph and replace with the following subclause and table.

7.2.1   Functional units

Functional units are used by this Service Definition to identify ACSE user requirements. Two functional units are defined:

   a)   Kernel functional unit; and

   b)   Authentication functional unit.

The Kernel functional unit is always available.

The Authentication functional unit supports peer entity authentication. This functional unit does not include additional services. It adds parameters to the A-UNIT-DATA service.

Table 2 *bis* shows the services and parameters associated with the ACSE functional units for the connectionless mode of communication.

Table 2 *bis* – Functional unit services and their parameters (connectionless mode)

Functional Unit	Service	Parameter
Kernel	A-UNIT-DATA	Application Context Name
		Calling AP Title
		Calling AE Qualifier
		Calling AP Invocation-identifier
		Calling AE Invocation-identifier
		Called AP Title
		Called AE Qualifier
		Called AP Invocation-identifier
		Called AE Invocation-identifier
		User Information
		Calling Presentation Address
		Called Presentation Address
		Presentation Context Definition List
		Quality of Service
Authentication	A-UNIT-DATA	Authentication-mechanism Name
		Authentication-value
		ACSE Requirements

2)   Subclause 9.5.1.14

Add the following new subclauses after subclause 9.5.1.14:

9.5.1.15 ACSE Requirements

This parameter is used by the requestor to indicate the functional units requested for the transfer of the data unit. If it is not present, only the Kernel functional unit is requested.

This parameter takes on the following symbolic value:

  –   authentication.

9.5.1.16 Authentication-mechanism Name

This parameter shall only be used if the ACSE Requirements parameter includes the Authentication functional unit. If present, the value of this parameter identifies the authentication-mechanism in use. If not present, the communicating AEIs must implicitly know the mechanism in use (e.g. by prior understanding).

9.5.1.17 Authentication value

This parameter shall only be used if the ACSE Requirements parameter includes the Authentication functional unit.

If present, this parameter contains an authentication-value generated by the authentication-function in the AEI that issued the service primitive. It is intended for the peer's authentication-function.

3)   Subclause 9.5.1, Table 7

Add the following rows to the end of Table 7:

ACSE Requirements	U	C
Authentication-mechanism Name	U	C(=)
Authentication value	U	C(=)

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