# 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.

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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(=) |