# INTERNATIONAL STANDARD

## ISO/IEC
## 8823-1

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**AMENDMENT 2**
1998-12-15

# Information technology — Open Systems Interconnection — Connection-oriented presentation protocol: Protocol specification

## AMENDMENT 2: Nested connections functional unit

*Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Protocole de présentation en mode connexion: Spécification du protocole*

*AMENDEMENT 2: Unité fonctionnelle de connexions nichée*

# 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 2 to ISO/IEC 8823-1:1994 was prepared by ITU-T (as ITU-T Rec. X.226/Amd.2) and was adopted under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC. The identical text is published as ITU-T Rec. X.226/Amd.2.

**INTERNATIONAL STANDARD**

**ITU-T RECOMMENDATION**

## INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – CONNECTION-ORIENTED PRESENTATION PROTOCOL: PROTOCOL SPECIFICATION

### AMENDMENT 2
### Nested connections functional unit

### 1)	Subclause 2.1

*Insert the following to this subclause, by numerical order:*

–	ITU-T Recommendation X.215 (1995)/Amd.2 (1997) | ISO/IEC 8326:1996/Amd.2:1998, *Information technology – Open Systems Interconnection – Session service definition – Amendment 2: Nested connections functional unit.*

–	ITU-T Recommendation X.216 (1994)/Amd.2 (1997) | ISO/IEC 8822:1994/Amd.2:1998, *Information technology – Open Systems Interconnection – Presentation service definition – Amendment 2: Nested connections functional unit.*

### 2)	Subclause 3.4

*Add a new item:*

l)	nested presentation connection.

### 3)	Subclause 5.1

*In this subclause, add* and ITU-T Rec. X.216/Amd.2 | ISO/IEC 8822/Amd.2 *after reference to* ITU-T Rec. X.216 | ISO/IEC 8822.

### 4)	Subclause 5.2

*In this subclause, add* and ITU-T Rec. X.215/Amd.2 | ISO/IEC 8326/Amd.2 *after reference to* ITU-T Rec. X.215 | ISO/IEC 8326.

### 5)	Subclause 5.5

*Add two new paragraphs after paragraph one:*

Presentation connections can be established nested within existing presentation connections. Such connections are entirely independent in relation to services provided directly by the presentation layer, but have some dependencies (specified in ITU-T Rec. X.215 | ISO/IEC 8326) in relation to services passed through from the session layer.

The PPM maintains a one-to-one correspondence between presentation connection end-points and session connection end-points, and the nesting structure (if any) within an outer-level session connection end-point is identical to the nesting structure within the corresponding presentation end-point.

## 6)    Subclauses 6.2.2.3 through 6.2.2.6

*Add a new sentence to the end of each subclause 6.2.2.3 through 6.2.2.6:*

This parameter shall be absent on a CP that is issued on an S-CONNECT that is seeking to establish a nested session connection.

## 7)    Subclause 8.2

*In this subclause, add the following ASN.1 comment after the* **X.410-mode parameters** *elements in* **CP-type**, **CPA-PPDU** *and* **CPR-PPDU** *(the parameter is erroneously named x400-mode-parameters in some places in the original printing):*

   -- *This OPTIONAL element shall be absent for a*

   -- *nested presentation connection.*

## 8)    Subclause A.1

*Add at the end of this subclause:*

A request or response primitive on a nested presentation connection (including a P-CONNECT request) can occur only if both the following apply:

- it is permitted by the state table for the PPM for that connection;

- the state tables for the PPM for all enclosing presentation connections permit a P-DTreq event.

A PPDU event can only occur on the nested session connection supporting a nested presentation connection, if both the following apply:

- it is permitted by the state table for the PPM for that presentation connection;

- the state tables for the PPM for all enclosing presentation connections permit a TD event.