INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.216

Amendment 1

(08/97)

SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATION

Open System Interconnection – Service definitions

Information technology – Open Systems Interconnection – Presentation service definition

Amendment 1: Efficiency enhancements

ITU-T Recommendation X.216 – Amendment 1

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 8822

ITU-T RECOMMENDATION X.216

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – PRESENTATION SERVICE DEFINITION

AMENDMENT 1
Efficiency enhancements

Summary

The fast associate (upper-layer context identifier) mechanism allows a presentation connection, and the application association it carries to be established using a compressed form of the information that would otherwise be sent on the P-CONNECT exchange. In this Amendment, a conceptual parameter is added which summarizes the contents of the user-data of the P-CONNECT primitives.

Source

The ITU-T Recommendation X.216, Amendment 1 was approved on the 9th of August 1997. The identical text is also published as ISO/IEC International Standard 8822.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – PRESENTATION SERVICE DEFINITION

AMENDMENT 1
Efficiency enhancements

1) Subclause 2.1

Insert the following references by numerical order:

- ITU-T Recommendation X.215 (1995)/Amd.1 (1997) | ISO/IEC 8326:1996/Amd.1:1998, *Information technology – Open Systems Interconnection – Session Service definition – Amendment 1: Efficiency enhancements.*
- ITU-T Rec. X.227 (1995)/Amd.1 (1996) | ISO/IEC 8650-1:1996/Amd.1:1997, *Information technology – Open Systems Interconnection – Connection-oriented protocol for the association control service element: Protocol specification – Amendment 1: Incorporation of extensibility markers.*

2) Subclause 8.2

Modify item a) *as shown below, with the additional text underlined:*

a) **session functional units**, as defined in ITU-T Rec. X.215 | ISO/IEC 8326 <u>and ITU-T Rec. X.215/Amd.1 | ISO/IEC 8326/Amd.1</u>, comprising:

- the kernel functional unit;
- the half-duplex functional unit;
- the duplex functional unit;
- the expedited data functional unit;
- the minor synchronize functional unit;
- the symmetric synchronize functional unit;
- the data separation functional unit;
- the major synchronize functional unit;
- the resynchronize functional unit;
- the activity management functional unit;
- the negotiated release functional unit;
- the capability data functional unit;
- the exceptions functional unit;
- the typed data functional unit;
- <u>the no-orderly-release functional unit.</u>

The selection of session functional units which may be made is subject to the constraints imposed by the session-service, see ITU-T Rec. X.215 | ISO/IEC 8326 <u>and ITU-T Rec. X.215/Amd. 1 | ISO/IEC 8326/Amd.1</u>.

NOTE – The decision on which session functional units are to be used is made during presentation-connection establishment.

3) Clause 10

In Table 2 (Presentation service primitives), *add* User Summary *at the end of the list of parameters for* P-CONNECT request, P-CONNECT indication *and* P-CONNECT response/confirm.

4) Subclause 10.2.1

In Table 3 (P-CONNECT service), *add a row after User data:*

Parameter name	Request	Indication	Response	Confirm
User Summary	U	C(=)	U	C(=)

5) Subclause 10.2.1.11

Add the following text (underlined) at the end of the existing subclause, as shown below:

This parameter provides the PS-user with access to the Session requirements parameter of the Session service and is described for that parameter in ITU-T Rec. X.215 | ISO/IEC 8326 <u>and ITU-T Rec. X.215/Amd.1 | ISO/IEC 8326/Amd.1</u>.

6) New subclause 10.2.1.15 *bis*

Add the following new subclause:

10.2.1.15 *bis* User Summary is a parameter that summarizes the semantic content of the User data, by reference to an Upper-layer context specification.

7) Subclause 10.2.2.1

Add at the end of this subclause:

If the User Summary parameter is present, the presentation-service-provider may or may not convey the semantics of the User data parameter by conveying the User Summary parameter to the responding PS-user, rather than the User data parameter itself.

NOTE – If the PS-provider does not convey the User Summary parameter, or the responding PS-user is unable to interpret the User Summary parameter, the User Data parameter itself will be conveyed. (This may involve a second protocol exchange.)

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