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INTERNATIONAL TELECOMMUNICATION UNION

ITU-T Addendum No. 1

ITU-T

X.216

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

(11/95)

**DATA NETWORKS AND OPEN SYSTEM
COMMUNICATIONS**

**OPEN SYSTEMS INTERCONNECTION –
SERVICE DEFINITIONS**

**OPEN SYSTEMS INTERCONNECTION –
SERVICE DEFINITION FOR PRESENTATION
LAYER EFFICIENCY ENHANCEMENTS**

ITU-T Addendum No. 1 to Recommendation X.216

(Previously "CCITT Recommendation")

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FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (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 (Helsinki, March 1-12, 1993).

ITU-T Addendum No. 1 to Recommendation X.216, was prepared by ITU-T Study Group 7 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 21th of November 1995.

NOTE

In this ITU-T Addendum, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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ITU-T X-SERIES RECOMMENDATIONS

DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

(February 1994)

ORGANIZATION OF X-SERIES RECOMMENDATIONS

Subject area	Recommendation Series
PUBLIC DATA NETWORKS	
Services and Facilities	X.1-X.19
Interfaces	X.20-X.49
Transmission, Signalling and Switching	X.50-X.89
Network Aspects	X.90-X.149
Maintenance	X.150-X.179
Administrative Arrangements	X.180-X.199
OPEN SYSTEMS INTERCONNECTION	
Model and Notation	X.200-X.209
Service Definitions	X.210-X.219
Connection-mode Protocol Specifications	X.220-X.229
Connectionless-mode Protocol Specifications	X.230-X.239
PICS Proformas	X.240-X.259
Protocol Identification	X.260-X.269
Security Protocols	X.270-X.279
Layer Managed Objects	X.280-X.289
Conformance Testing	X.290-X.299
INTERWORKING BETWEEN NETWORKS	
General	X.300-X.349
Mobile Data Transmission Systems	X.350-X.369
Management	X.370-X.399
MESSAGE HANDLING SYSTEMS	X.400-X.499
DIRECTORY	X.500-X.599
OSI NETWORKING AND SYSTEM ASPECTS	
Networking	X.600-X.649
Naming, Addressing and Registration	X.650-X.679
Abstract Syntax Notation One (ASN.1)	X.680-X.699
OSI MANAGEMENT	X.700-X.799
SECURITY	X.800-X.849
OSI APPLICATIONS	
Commitment, Concurrency and Recovery	X.850-X.859
Transaction Processing	X.860-X.879
Remote Operations	X.880-X.899
OPEN DISTRIBUTED PROCESSING	X.900-X.999

Superseded by a more recent version

CONTENTS

	<i>Page</i>
0 Preamble	1
1 Scope	1
2 Normative References	1
3 through 7 No change.....	1
8 Functional Units	1
9 Quality of Service	2
10 Presentation service primitives	3
11 Sequences	3
Annex A.....	3
Annex B.....	3

Superseded by a more recent version

SUMMARY

This ITU-T Addendum defines an enhancement to the presentation service definition (Recommendation X.216) to provide access to the services of the session “No Orderly Release” Functional Unit defined in ITU-T Addendum No. 1 to Recommendation X.215.

INTRODUCTION

This ITU-T Addendum is one of a set of Addenda produced to facilitate the interconnection of information processing systems in an open environment where efficiency of communications is paramount. Such efficiencies include:

- a) reduction in the overhead needed to encode control information for use in bandwidth-limited environments (such as radio links) or processing-limited systems (such as switching systems);
- b) reduction in the delay to set up the association between the communicating applications so that data transfer can begin expeditiously;
- c) reduction in the support of unneeded functionality in certain environments where the communications requirements of the applications are limited.

This set of Addenda covers the services and protocols required to achieve such interconnection within the framework of the layers defined in the Reference Model for Open Systems Interconnection (ITU-T Rec. X.200 | ISO/IEC 7498-1).

This ITU-T Addendum provides an enhancement to the services defined in ITU-T Rec. X.216 (1994) | ISO/IEC 8822 (1995) to allow the presentation service user pass-through access to an additional session service functional unit, the no orderly release functional unit, defined in ITU-T Addendum No. 1 to Recommendation X.215.

Superseded by a more recent version

ITU-T Addendum No. 1 to Recommendation X.216

OPEN SYSTEMS INTERCONNECTION – SERVICE DEFINITION FOR PRESENTATION LAYER EFFICIENCY ENHANCEMENTS

(Geneva, 1995)

0 Preamble

This ITU-T Addendum No. 1 incorporates by reference the presentation layer service specification, ITU-T Rec. X.216 (1994) | ISO/IEC 8822: (1995), and modifies it as specified below. It describes how the enhancement defined herein – namely, the pass-through access to the session no orderly release functional unit – is made available to the presentation service user.

1 Scope

{No change}

2 Normative References

2.1 through 2.2

{No change}

2.3 Additional references

{Add the following reference}

- ITU-T Addendum No. 1 to Recommendation X.215 (1995), *Open Systems Interconnection – Service definition for Session layer efficiency enhancements*.

3 through 7

{No change}

8 Functional Units

8.1

{No change}

Superseded by a more recent version

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 and ITU-T Addendum No. 1 to Recommendation X.215, 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;
 - the no orderly release functional unit.

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 and ITU-T Addendum No. 1 to Recommendation X.215.

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

8.3 through 8.5

{No change}

9 Quality of Service

{No change}

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10 Presentation service primitives

{No change}

10.1 User data parameters

{No change}

10.2 P-CONNECT service

10.2.1 Structure

10.2.1.1 through 10.2.1.10

{No change}

10.2.1.11 Session requirements

{Add the following text underlined}

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 and ITU-T Addendum No. 1 to Recommendation X.215.

10.2.1.12 through 10.2.1.16

{No change}

10.3 through 10.24

{No change}

11 Sequences

{No change}

Annex A

{No change}

Annex B

{No change}