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AMENDMENT 1
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**Information technology — Open Systems
Interconnection — Session service
definition**

AMENDMENT 1: Efficiency enhancements

*Technologies de l'information — Interconnexion de systèmes ouverts
(OSI) — Définition du service de session*

AMENDEMENT 1: Améliorations d'efficacité

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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 1 to ISO/IEC 8326:1996 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 33, *Distributed application services*, in collaboration with ITU-T. The identical text is published as ITU-T Rec. X.215/Amd.1.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION –
SESSION SERVICE DEFINITIONAMENDMENT 1
Efficiency enhancements1) **New subclause 2.3**

Add a new subclause as shown below:

2.3 **Additional references**

- ITU-T Recommendation X.225/Add.1 (1995), *Open Systems Interconnection – Protocol specification for Session layer efficiency enhancements*.

2) **Subclause 3.3**

Add a new subclause 3.3.12, after 3.3.11 as shown below:

3.3.12 Special-user-data: A parameter exchanged in the S-CONNECT and S-DATA primitives between the SS-users to indicate the nature of the encodings in the SS-user-data parameter.

3) **Subclause 9.1**

Add the following row and the following Note to Table 2:

Functional unit	Service(s)	Reference
No-orderly-release	Note	9.1.1 <i>bis</i>
NOTE – This functional unit removes the orderly release services from the kernel functional unit. This “negative” functional unit provides compatibility with ITU-T Rec. X.215 ISO/IEC 8326 which requires the (non-negotiable) kernel to be indivisible.		

4) **New subclause 9.1.1 bis**

Add the following new subclause after 9.1.1:

9.1.1 bis No-orderly-release functional unit

This functional unit removes orderly release from the kernel functional unit. Abortive release is available. It is not possible to select this functional unit and the negotiated release functional unit for use on the same session connection.

NOTE – This orderly release capability would more logically be a functional unit separate from the kernel; this “negative” functional unit provides compatibility with earlier specifications that require the (non-negotiable) kernel to be indivisible.

5) **Subclause 11.1**

In Table 5, add User Summary and Special-user-data at the end of the list of parameters.

6) Subclause 12.1.2

Add two rows in Table 9, after SS-user data:

Parameter	Primitive	Request	Indication	Response	Confirm
User Summary		U	C(=)	U	C(=)
Special user-data		U	C(=)	U	C(=)

7) Subclause 12.1.2.7

Add the following item to the list of functional units:

- n) no-orderly-release functional unit

Add the following sentence to the antepenultimate sentence of this subclause:

It is not possible to select the no-orderly-release functional unit and the negotiated release functional unit for use on the same session connection.

8) New subclauses 12.1.2.11 and 12.1.2.12

Add after 12.1.2.10:

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

12.1.2.12 Special user-data is a parameter that may be exchanged by SS-users to indicate the nature of the encodings of the SS-user-data parameter.

NOTE – The Special user-data parameter is not visible at the Presentation service interface defined in ITU-T Rec. X.216 | ISO/IEC 8822. This parameter is intended for use at the Presentation/Session boundary.

9) Subclause 13.1.2

Add the following text to the end of this subclause with the accompanying Note:

The Special user-data parameter may be exchanged between two SS-users.

NOTE – The Special user-data parameter is not visible at the Presentation service interface defined in ITU-T Rec. X.216 | ISO/IEC 8822. This parameter is intended for use at the Presentation/Session boundary.

Add the following row in Table 10, after SS-user data:

Parameter	Primitive	Request	Indication
Special user-data		U	C(=)

10) Subclause 14.1.1

Change the first sentence as shown by the underlined text:

The orderly-release service is always provided and allows either SS-user to release the session connection in an orderly manner unless the no-orderly-release functional unit is selected on the session connection.