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# Information processing systems — Data communications — Use of X.25 to provide the OSI connection-mode network service

## TECHNICAL CORRIGENDUM 4

*Systèmes de traitement de l'information — Communication de données — Utilisation du protocole X.25 pour fournir le service de réseau OSI en mode connexion*

*RECTIFICATIF TECHNIQUE 4*

Technical corrigendum 4 to International Standard ISO 8878 : 1987 was prepared by ISO/IEC JTC 1, *Information technology*.

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### Clause 12

Insert clause 12 as follows:

#### **"12 Response to protocol violations**

An NL entity may receive a packet that is valid in accordance with ISO 8208 but is not valid when considered as part of the mapping specified in clauses 6 to 11. In such cases it follows the actions given below:

a) Error conditions:

- INCOMING CALL packet without Fast Select Facility;
- INCOMING CALL packet without a TCN Facility;
- CALL CONNECTED packet without EETDN Facility; and
- CALL CONNECTED packet with a Selected QOS value, when present, that is not valid with respect to the CALL REQUEST packet (i.e., the Selected value is greater than the Target value or less than the Lowest Quality Acceptable value).

Actions:

The NL entity shall transmit a CLEAR REQUEST packet across the DTE/DXE interface with a Clearing Cause field of "DTE Originated." It is recommended that the diagnostic code be set to 228 (or 224). The NL entity shall not signal any primitive to the NS User.

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b) Error conditions:

- DATA packet with Q-bit set to 1;
- DATA packet with D-bit set to 1 when "no use of Receipt Confirmation" has been negotiated at NC establishment; and
- INTERRUPT packet when "no use of Expedited Data" has been negotiated.

Actions:

It is strongly recommended that the NL entity should transmit either of the packets given below across the DTE/DXE interface with a Cause field of "DTE Originated." The Originator parameter of the resulting primitive signaled to the NS User, in either case, shall be "NS Provider."

Packet to transmit	Recommended Diagnostic Code	Primitive signaled to NS User	Reason parameter
CLEAR REQUEST	226 (or 224)	N-DISCONNECT indication	disconnection — reason unspecified (permanent condition)
RESET REQUEST	233 (or 224)	N-RESET indication	reset — reason unspecified

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**Subclause 6.2.2.2**

Insert under 6.2.2.2 the following:

"If, after decoding the NSAP address as specified in the subclauses below, the NSAP address does not exist, then the NL entity clears the call by transmitting a CLEAR REQUEST packet across the DTE/DXE interface with a Clearing Cause code of "DTE Originated." It is recommended that the Diagnostic Code value be set to 232 (or 224), "Connection Rejection — NSAP Unreachable (Permanent Condition)." The NL entity shall not signal any primitive to the NS User."

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**Subclause 6.2.2.2.2**

Insert at the end of 6.2.2.2.2 the following:

"If an NSAP address cannot be derived from the Called AEF in an INCOMING CALL packet, then the call is rejected by transmission of a CLEAR REQUEST packet across the DTE/DXE interface. It is recommended that the Diagnostic Code value be set to 232 (or 224) "Connection Rejection — NSAP Unreachable (Permanent Condition)."

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**Subclause 6.2.5.1.2**

Insert at the end of 6.2.5.1.2 the following:

"If an NL entity receives an INCOMING CALL packet without the MTCN Facility, then the NL entity indicates the value "unspecified" for the Lowest Quality Acceptable subparameters of both the Throughput QOS parameters of the N-CONNECT indication primitive signaled to the Called NS user.

NOTE — From a practical standpoint, the value "unspecified" can be taken to be 75 bits per second due to restrictions concerning the discrete values than can be signaled in the CALL ACCEPTED packet, as shown in 6.2.5.1."

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**Subclause 6.2.5.2.1**

Insert the following after note 1 as part of the second paragraph:

"If both the Target and Lowest Quality Acceptable transit delays are unspecified, then the NL entity shall only encode the EETDN Facility as given in a) above; the TDSAI Facility shall not be used."

After note 2, delete "The TDSAI" and insert "The TDSAI (if present)"

**Subclause 6.2.5.2.2**

Line 1, delete "When receiving an INCOMING CALL packet, an NL entity" and insert the following:

"When receiving an INCOMING CALL packet, an NL entity determines whether the TDSA1 Facility and the "cumulative-transit-delay subfield" (i.e. octets 1 and 2) of the EETDN Facility are present. If either is absent, then the NL entity shall derive a value to use for the missing value from its local "routeing management information base." It then"

Paragraph b., delete "(i.e., octets 1 and 2)"

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