

ISO/IEC 8878:1992-12 (E)

Information technology; telecommunications and information exchange between systems; use of X.25 to provide the OSI connection-mode network service

Contents	Page
Foreword	IV
Introduction	V
1. Scope	1
2. Normative references	2
2.1 Identical Recommendations I International Standards	2
2.2 Paired Recommendations I International Standards equivalent in technical content	2
2.3 Additional references	2
3. Definitions	2
3.1 Reference Model definitions	2
3.2 Service Conventions definitions	3
3.3 Network Service definitions	3
3.4 X.25 definitions	3
3.5 X.96 definitions	3
4. Abbreviations	3
4.1 Network Service abbreviations	3
4.2 X.25 abbreviations	4
5. Overview	4
5.1 Elements of the X.25/PLP-1 984 used to Support the OSI CONS	4
5.2 General Operation of the X.25/PLP-1984 for supporting the OSI CONS	5
6. Network connection establishment phase	7
6.1 Primitive/Parameter and packet/field relationships	7
6.2 Procedures	7
7. Network connection release phase	15
7.1 Primitive/Parameter and packet/field relationships	15
7.2 Procedures	16
8. Data transfer phase — Data transfer service	17
8.1 Primitive/Parameter and packet/field relationships	17
8.2 Procedures	17
9. Data transfer phase — Receipt confirmation service	18
9.1 Primitive and packet/field relationships	18
9.2 Procedures	18
10. Data transfer phase — Expedited data transfer service	19
10.1 Primitive/Parameter and packet/field relationships	19
10.2 Procedures	19
11. Data transfer phase — Reset service	19
11.1 Primitive/Parameter and packet/field relationships	19
11.2 Procedures	19
12. Response to protocol violations	21

13.	Conformance.....	22
13.1	Conformance requirements.....	22
13.2	Optional features.....	22
Annex A: X.25 (1980) Subnetwork Dependent Convergence Protocol.....		23
A.1	Introduction.....	23
A.2	Scope.....	23
A.3	Abbreviations.....	24
A.4	Overview of the protocol.....	24
A.5	Protocol mechanisms.....	26
A.6	Protocol description.....	38
A.7	Protocol encoding in X.25 packets.....	48
Annex B: Classification.....		54
B.1	Classification of systems.....	54
B.2	Functionality of classes.....	54
B.3	Scenarios.....	54
B.4	Procedures for selecting class of operation.....	55
B.5	Interworking by relay system.....	55
Annex C: Subnetwork Convergence Protocol for Use With X.25 Permanent Virtual Circuits.....		58
C.1	Introduction and scope.....	58
C.2	Overview.....	58
C.3	Abbreviations.....	58
C.4	Protocol mechanisms.....	58
C.5	Protocol encoding for NC establishment and release.....	60
Annex D; Protocol Implementation Conformance Statement Proforma.....		62
D.1	Introduction.....	62
D.2	Scope.....	62
D.3	Normative references.....	62
D.4	Definitions.....	62
D.5	Abbreviations.....	63
D.6	Protocol Implementation Conformance Statement Proforma.....	64
D.7	Modified PICS requirements for ISO/IEC 8208.....	76
Annex E: Additional Considerations of CONS Primitives.....		83
E.1	Introduction.....	83
E.2	Environment for X.25/PLP operation.....	83
Annex F: Use of X.25/PLP NPAI.....		85
F.1	Introduction.....	85
F.2	Obtaining an SNPA address.....	85
F.3	Examples of Network Address encoding.....	85
Annex Q; Transit Delay Calculations.....		87
Annex H: Example of Priority Negotiation.....		89
Annex I: Differences between Recommendation X.223 and ISO/IEC 8878.....		91