

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 oftheX.25/PLP-1 984 used to Support the OSI CONS	4
5.2 General Operation oftheX.25/PLP-1984forsupportingtheOSI 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