

ISO/IEC 7498-1:1994-11 (E)

Information technology - Open Systems Interconnection - Basic reference model: The basic model

Contents	Page
1 Scope	1
2 Definitions	2
3 Notation	2
4 Introduction to Open Systems Interconnection (OSI)	2
4.1 Definitions	2
4.2 Open System Interconnection Environment	3
4.3 Modeling the OSI Environment	4
5 Concepts of a layered architecture	5
5.1 Introduction	5
5.2 Principles of layering	6
5.3 Communication between peer-entities	9
5.4 Identifiers	13
5.5 Properties of service-access-points	14
5.6 Data-units	15
5.7 The nature of the (N)-service	16
5.8 Elements of layer operation	16
5.9 Routing	27
5.10 Quality Of Service (QOS)	27
6 Introduction to the specific OSI layers	28
6.1 Specific layers	28
6.2 The principles used to determine the seven layers in the Reference Model	29
6.3 Layer descriptions	30
6.4 Combinations of connection-mode and connectionless-mode	30
6.5 Configurations of OSI Open Systems	31
7 Detailed description of the resulting OSI architecture	32
7.1 Application Layer	32
7.2 Presentation Layer	33
7.3 Session Layer	34
7.4 Transport Layer	37
7.5 Network Layer	41
7.6 Data Link Layer	46
7.7 Physical Layer	49
8 Management aspects of OSI	52
8.1 Definitions	52
8.2 Introduction	53
8.3 Categories of management activities	53
8.4 Principles for positioning management functions	54
9 Compliance and Consistency with this reference model	54
9.1 Definitions	54
9.2 Application of consistency and compliance requirements	55
Annex A - Brief explanation of how the layers were chosen	56
Annex B - Alphabetical index to definitions	57