

ISO/IEC 9594-5:2008-12 (E)

Information technology_ - Open Systems Interconnection_ - The Directory: Protocol specifications

CONTENTS

Page

Foreword	v
Introduction	vi
1 Scope	1
2 References	1
2.1 Normative references	1
2.2 Non-normative references	2
3 Definitions	2
3.1 Basic Directory definitions	3
3.2 Distributed Operation Definitions	3
3.3 Protocol specification definitions	3
4 Abbreviations	4
5 Conventions	4
6 Common protocol specification	5
6.1 Directory associations and operations	5
6.2 Specification for Directory operations	5
6.3 Directory protocol overview	7
6.4 Operation codes	8
6.5 Error codes	8
6.6 Abstract syntaxes	9
7 Directory protocols using the OSI stack	9
7.1 OSI-PDUs	9
7.2 Directory PDU structure	9
7.3 Session PDUs	10
7.4 OSI addressing	10
7.5 Procedure and sequencing	10
7.6 Directory PDU specifications	11
8 Directory protocol mapping onto OSI services	24
8.1 Abstract syntaxes and transfer syntaxes	24
8.2 Application-contexts	25
8.3 Session Layer specification	26
8.4 Use of transport service	32
8.5 OSI Transport Layer on top of TCP	33
9 IDM protocol	47
9.1 IDM-PDUs	47
9.2 Sequencing requirements	49
9.3 Protocols	49
9.4 Reject reasons	50
9.5 Abort reasons	50
9.6 Mapping onto TCP/IP	51
9.7 Addressing	51
9.8 Use of TLS	51
10 Directory protocol mapping onto the IDM protocol	52
10.1 DAP-IP protocol	52
10.2 DSP-IP protocol	52
10.3 DISP-IP protocol	52
10.4 DOP-IP protocol	53

	<i>Page</i>
11	Protocol stack coexistence..... 53
11.1	Coexistence between OSI and IDM stacks 53
11.2	Coexistence in the presence of LDAP 53
11.3	Defining network addresses for Internet Protocol, Version 4 support..... 53
11.4	Definition of NSAP like address for long addressing information 54
12	Versions and the rules for extensibility 55
12.1	DUA to DSA..... 55
12.2	DSA to DSA 56
12.3	Rules of extensibility for NSAP addresses..... 57
12.4	Rules of extensibility for object classes 57
12.5	Rules of extensibility for user attribute types 57
13	Conformance 57
13.1	Conformance by DUAs 57
13.2	Conformance by DSAs..... 58
13.3	Conformance by a shadow supplier 62
13.4	Conformance by a shadow consumer 62
	Annex A – Common protocol specifications in ASN.1 64
	Annex B – OSI Protocol in ASN.1 66
	Annex C – Directory OSI Protocols in ASN.1..... 72
	Annex D – IDM Protocol in ASN.1 75
	Annex E – Directory IDM Protocols in ASN.1..... 78
	Annex F – Directory operational binding types 80
	Annex G – Amendments and corrigenda..... 81