

ISO/IEC 9594-5:2017-05 (E)

Information technology - Open Systems Interconnection - The Directory - Part 5: Protocol specifications

CONTENTS

	<i>Page</i>
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.....	2
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	6
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	11
7.5 Procedure and sequencing.....	11
7.6 Directory PDU specifications.....	11
8 Directory protocol mapping onto OSI services	26
8.1 Abstract syntaxes and transfer syntaxes	26
8.2 Application-context.....	26
8.3 Session Layer specification	28
8.4 Use of transport service.....	34
8.5 OSI Transport Layer on top of TCP.....	34
9 IDM protocol.....	48
9.1 IDM-PDUs	48
9.2 Sequencing requirements	50
9.3 Protocols.....	51
9.4 Reject reasons.....	51
9.5 Abort reasons	52
9.6 Mapping onto TCP/IP	52
9.7 Addressing	53
9.8 Use of TLS	53
10 Directory protocol mapping onto the IDM protocol.....	54
10.1 DAP-IP protocol.....	54
10.2 DSP-IP protocol	54
10.3 DISP-IP protocol.....	55
10.4 DOP-IP protocol.....	55

11	Protocol stack coexistence.....	55
11.1	Coexistence between OSI and IDM stacks	55
11.2	Coexistence in the presence of LDAP.....	56
11.3	Defining network addresses for Internet Protocol, version 4 support	56
11.4	Definition of NSAP-like address for long addressing information	57
12	Versions and the rules for extensibility	57
12.1	Use of extension markers	57
12.2	DUA to DSA	58
12.3	DSA to DSA.....	58
12.4	Rules of extensibility for NSAP addresses.....	59
12.5	Rules of extensibility for object classes	60
12.6	Rules of extensibility for user attribute types.....	60
13	Conformance	60
13.1	Conformance by DUAs.....	60
13.2	Conformance by DSAs.....	61
13.3	Conformance by a shadow supplier	64
13.4	Conformance by a shadow consumer.....	65
	Annex A – Common protocol specifications in ASN.1	66
	Annex B – OSI Protocol in ASN.1	68
	Annex C – Directory OSI Protocols in ASN.1	74
	Annex D – IDM Protocol in ASN.1	77
	Annex E – Directory IDM Protocols in ASN.1	80
	Annex F – Directory operational binding types.....	82
	Annex G – Amendments and corrigenda.....	83