

ISO/IEC 9594-5:2014-03 (E)

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

Contents		Page
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	51
9.3	Protocols.....	52
9.4	Reject reasons	52
9.5	Abort reasons	53
9.6	Mapping onto TCP/IP	53
9.7	Addressing	54
9.8	Use of TLS.....	54
10	Directory protocol mapping onto the IDM protocol.....	55
10.1	DAP-IP protocol	55
10.2	DSP-IP protocol	55
10.3	DISP-IP protocol.....	55
10.4	DOP-IP protocol	56

11	Protocol stack coexistence.....	56
11.1	Coexistence between OSI and IDM stacks	56
11.2	Coexistence in the presence of LDAP.....	56
11.3	Defining network addresses for Internet Protocol, version 4 support	57
11.4	Definition of NSAP-like address for long addressing information	58
12	Versions and the rules for extensibility	58
12.1	Use of extension markers	58
12.2	DUA to DSA.....	58
12.3	DSA to DSA.....	59
12.4	Rules of extensibility for NSAP addresses.....	60
12.5	Rules of extensibility for object classes	60
12.6	Rules of extensibility for user attribute types.....	61
13	Conformance	61
13.1	Conformance by DUAs.....	61
13.2	Conformance by DSAs	61
13.3	Conformance by a shadow supplier	65
13.4	Conformance by a shadow consumer.....	66
	Annex A – Common protocol specifications in ASN.1.....	67
	Annex B – OSI Protocol in ASN.1	69
	Annex C – Directory OSI Protocols in ASN.1	75
	Annex D – IDM Protocol in ASN.1	78
	Annex E – Directory IDM Protocols in ASN.1	81
	Annex F – Directory operational binding types.....	83
	Annex G – Amendments and corrigenda.....	84