

# ISO/IEC 9594-9:2014-03 (E)

## Information technology - Open Systems Interconnection - The Directory - Part 9: Replication

---

<b>Contents</b>		<b>Page</b>
1	Scope .....	1
2	Normative references .....	1
2.1	Identical Recommendations   International Standards .....	1
3	Definitions .....	2
3.1	Basic Directory definitions.....	2
3.2	Directory model definitions .....	2
3.3	Abstract service definitions.....	2
3.4	Distributed operation definitions.....	2
3.5	Protocol definitions .....	2
3.6	Replication definitions .....	2
4	Abbreviations .....	3
5	Conventions.....	4
6	Replication in the Directory .....	4
6.1	Caching .....	4
6.2	Shadowing.....	4
6.3	Shadowing functional model.....	5
7	Shadowing in the Directory.....	6
7.1	Shadowing agreement.....	7
7.2	Shadowed information .....	7
7.3	Shadow operations .....	11
7.4	DSA Shadow Bind and DSA Shadow Unbind operation.....	12
8	Shadow operational binding .....	12
8.1	Shadow operational binding type characteristics .....	12
8.2	DSA procedures for operational binding management .....	13
8.3	Operational binding.....	14
9	Shadowing agreement .....	15
9.1	Shadowing agreement specification.....	15
9.2	Unit of replication .....	16
9.3	Update mode .....	21
10	Directory information shadow service .....	22
10.1	Shadow supplier initiated service.....	22
10.2	Shadow consumer initiated service .....	23
11	Shadow operations .....	23
11.1	Coordinate Shadow Update operation.....	23
11.2	Request Shadow Update operation.....	25
11.3	Update Shadow operation .....	27
12	Shadow error .....	30
12.1	Shadow error problems .....	31
12.2	Last update .....	31
12.3	Update window .....	31
12.4	Common results .....	32
	Annex A – Directory shadow abstract service in ASN.1 .....	33
	Annex B – Amendments and corrigenda .....	39