

ISO/IEC 10021-1:2003-11 (E)

Information technology - Message Handling Systems (MHS) - Part 1: System and service overview

Contents		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	3
3.1	Open Systems Interconnection	3
3.2	Directory Systems	4
4	Abbreviations	4
5	Conventions	5
6	Purpose	5
7	Functional Model of MHS	5
7.1	Description of the MHS Model	5
7.2	Structure of Messages	6
7.3	Application of the MHS model	7
7.3.1	Physical Mapping	7
7.3.2	Organizational Mapping	8
7.3.3	Administration Management Domain	8
7.3.4	Private Management Domain	8
7.4	The Message Store	9
7.4.1	Physical Configurations	12
7.4.2	Organizational Configurations	12
8	The Message Transfer Service	12
8.1	Submission and Delivery	12
8.2	Transfer	12
8.3	Notifications	12
8.4	User Agent	13
8.5	Message Store	13
8.6	Access Unit	13
8.7	Use of the MTS in the Provision of Various Services	13
9	The IPM Service	13
9.1	IPM Service Functional Model	13
9.2	Structure of IP-messages	13
9.3	IP-notifications	14
10	Intercommunication with Physical Delivery Services	15
10.1	Introduction	15
10.2	Organizational Configurations	16
11	Specialized Access	16
11.1	Introduction	16
11.2	Telex Access	17
11.2.1	Registered Access to the IPM Service	17
11.2.2	Non-registered (Public) Access to the IPM Service	17
11.3	Facsimile Access	17
11.3.1	Non-registered (Public) Access from the IPM Service	17

12	Naming and Addressing	17
12.1	Introduction	17
12.2	Directory Names	17
12.3	OR-Names	18
12.4	OR-Addresses	18
13	MHS Use of Directory	18
13.1	Introduction	18
13.2	Functional Model	19
13.3	Physical Configurations	19
14	Distribution Lists in MHS	20
14.1	Introduction	20
14.2	Properties of a DL	20
14.3	Submission	21
14.4	DL Use of a Directory	21
14.5	DL Expansion	21
14.6	Nesting	21
14.7	Recursion Control	21
14.8	Delivery	21
14.9	Routing Loop Control	21
14.10	Notifications	22
14.11	DL Handling Policy	22
15	Security Capabilities of MHS	22
15.1	Introduction	22
15.2	MHS Security Threats	22
15.2.1	Access Threats	22
15.2.2	Inter-Message Threats	22
15.2.3	Intra-Message Threats	23
15.2.4	Data Store Threats	23
15.3	Security Model	23
15.3.1	Secure Access Management and Administration	23
15.3.2	Secure Messaging	23
15.4	MHS Security Capabilities	24
15.5	Security Management	25
15.6	MHS Security Dependencies	26
15.7	IPM Security	26
16	Conversion in MHS	27
17	Clause 17 of the corresponding ITU-T Recommendation is not part of this International Standard	28
18	Elements of Service - Purpose	28
19	Elements of service - Classification	31
19.1	Purpose of Classification	31
19.2	Basic Message Transfer Service	32
19.3	MT Service Optional User Facilities	32
19.4	Base MH/PD Service Intercommunication	34
19.5	Optional User Facilities for MH/PD Service Intercommunication	34
19.6	Base Message Store	34
19.7	MS Optional User Facilities	35
19.8	Basic Interpersonal Messaging Service	35
19.9	IPM Service Optional User Facilities	36
	Annex A (informative) Glossary of Terms	40
	Annex B (informative) Definitions Of Elements Of Service	55
	Annex C (informative) Elements of service changes from 1992	80