

ISO/IEC 10164-22:2000-04 (E)

Information technology - Open Systems Interconnection - Systems Management: Response time monitoring function

CONTENTS

	<i>Page</i>
1	Scope 1
2	Normative references..... 2
2.1	Identical ITU-T Recommendations International Standards 2
2.2	Paired ITU-T Recommendations International Standards 3
2.3	Additional references 3
3	Definitions 3
3.1	Management framework definitions..... 4
3.2	Systems management overview definitions 4
3.3	CMIS definitions 4
3.4	Management information model definitions 4
3.5	Guidelines for the definition of managed objects definitions..... 5
3.6	Requirement and guidelines for implementation conformance statement proformas associated with OSI management definitions 5
3.7	State management function definitions 5
3.8	Time management function definitions 5
3.9	Additional Definitions 5
4	Symbols and abbreviations 6
5	Conventions 6
6	Requirements 6
6.1	Summarization of response times 7
6.2	Management and control of the summarization 7
6.3	Monitoring statistics on the response time 7
7	Model..... 7
7.1	Response monitoring relationship 7
7.2	Selection of response information 9
8	Generic definitions 9
8.1	Managed relationship classes 9
8.2	Managed object class..... 10
8.3	Conditional packages 12
8.4	Attributes 13
8.5	Notifications 15
8.6	Relationship mapping definitions..... 16
8.7	Compliance..... 16
9	Service definition..... 16
9.1	Introduction 16
9.2	Establishment of response monitoring 17
9.3	Termination of response monitoring 17
9.4	Binding route role objects 17
9.5	Unbinding route role objects 17
9.6	QUERY bound object 17
9.7	Response Confirmation Reporting Service 17
10	Functional units 18
11	Protocol..... 18
11.1	Elements of procedures 18
11.2	Abstract Syntax 18
11.3	Negotiation of functional units 20

	<i>Page</i>
12 Relationship with other functions.....	21
13 Conformance	22
13.1 Static conformance	22
13.2 Dynamic conformance	22
13.3 Management implementation conformance statement requirements.....	22
Annex A – Management Information Definitions for Response Time Monitoring.....	23
A.1 Relationship class definition	23
A.2 Managed object classes	23
A.3 Packages	27
A.4 Attributes.....	29
A.5 Notification.....	34
A.6 Relationship mapping definition	35
A.7 ASN.1 definitions.....	36
Annex B – MCS proforma.....	38
B.1 Introduction	38
B.2 Identification of the implementation	40
B.3 Identification of the Recommendations International Standards in which the management information is defined	40
B.4 Management conformance summary.....	41
Annex C – MOCS proforma.....	44
C.1 Introduction	44
C.2 Instructions for completing the MOCS proforma to produce a MOCS.....	44
C.3 Statement of conformance to the responseConfirmationObject object class	45
C.4 Statement of conformance to the responseConfirmationRecord object class.....	47
C.5 Statement of conformance to the responseDelayMonitor object class	52
C.6 Statement of conformance to the responseMonitor object class	59
C.7 Statement of conformance to the responseRequester object class.....	67
C.8 Statement of conformance to the route object class	69
Annex D – MRCS proforma.....	71
D.1 Introduction	71
D.2 Instructions for completing the MRCS.....	71
D.3 Managed relationship support	71
D.4 Roles support.....	71
D.5 Relationship management operations, notifications, and parameters support.....	72
D.6 Relationship object support.....	72
Annex E – MICS proforma.....	73
E.1 Introduction	73
E.2 Instructions for completing the MICS proforma to produce a MICS.....	73
E.3 Statement of conformance to the management information.....	73
Annex F – An Example Procedure to Summarize Histogram Data.....	81
Annex G – An example to summarize statistics on response times.....	82
1 Statistics for periodical response-request	82
2 Statistics for irregular response-request.....	82
3 Summarization of frequency distribution (ex., histogram data)	82