

# 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