INTERNATIONAL TELECOMMUNICATION UNION

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X.737

Corrigendum 1
(06/98)

SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

OSI management – Management functions and ODMA functions

Information technology – Open Systems Interconnection – Systems management: Confidence and diagnostic test categories

Technical corrigendum 1

ITU-T Recommendation X.737 – Corrigendum 1

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 10164-14

ITU-T RECOMMENDATION X.737

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SYSTEMS MANAGEMENT: CONFIDENCE AND DIAGNOSTIC TEST CATEGORIES

TECHNICAL CORRIGENDUM 1

Source

The ITU-T Recommendation X.737, corrigendum 1 was approved on the 26th of June 1998. The identical text is also published as ISO/IEC International Standard 10164-14.

FOREWORD

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The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SYSTEMS MANAGEMENT: CONFIDENCE AND DIAGNOSTIC TEST CATEGORIES

TECHNICAL CORRIGENDUM 1

1)   Subclause A.2.1

Replace   **connectionTestResultPackage PACKAGE NOTIFICATIONS
"Rec. X.745 (1993) | ISO/IEC 10164-12:1994":testResultNotification connectionControlledResultsParam;;
                                   PRESENT IF !Unsolicited reporting is supported.!;**

with   **connectionTestResultPackage PRESENT IF !Unsolicited reporting is supported.!;**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 1};**

2)   Subclause A.2.2

Replace   **connectivityTestResultPackage PACKAGE NOTIFICATIONS
"Rec. X.745 (1993) | ISO/IEC 10164-12:1994":testResultNotification connectivityControlledResultsParam;;
                                   PRESENT IF !Unsolicited reporting is supported.!;**

with   **connectivityTestResultPackage PRESENT IF !Unsolicited reporting is supported.!;**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 2};**

3)   Subclause A.2.3

Replace   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994":timeoutPeriodPkg   PRESENT IF**

with   **timeoutPeriodPkg PRESENT IF**

Replace   **dataIntegrityTestResultPackage PACKAGE NOTIFICATIONS
"Rec. X.745 (1993) | ISO/IEC 10164-12:1994":testResultNotification dataIntegrityControlledResultsParam;;
                                   PRESENT IF !Unsolicited reporting is supported.!,**

with   **dataIntegrityTestResultPackage PRESENT IF !Unsolicited reporting is supported.!,**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 3};**

4)   Subclause A.2.4

Replace   **loopbackTestResultPackage PACKAGE NOTIFICATIONS
"Rec. X.745 (1993) | ISO/IEC 10164-12:1994":testResultNotification loopbackControlledResultsParam;;
                                   PRESENT IF !Unsolicited reporting is supported.!;**

with   **loopbackTestResultPackage PRESENT IF !Unsolicited reporting is supported.!,**

Replace   REGISTERED AS {part14ObjectClass ??};

with   REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 4};

5)   Subclause A.2.5

Replace   **"Rec. X.721 (1992) | ISO/IEC 10165-2:1992 ":actualTestTimePackage,**

with   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":actualTestTimePackage,**

Replace   **protocolIntegrityTestResultPackage PACKAGE NOTIFICATIONS**
             "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification protocolIntegrityControlledResultsParam;;
                                          PRESENT IF !Unsolicited reporting is supported.!,

with   **protocolIntegrityTestResultPackage PRESENT IF !Unsolicited reporting is supported.!,**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 5};**

6)   Subclause A.2.6

Replace   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification**
                             resourceBoundaryControlledResultsParam;;

with   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification**
                             resourceBoundaryControlledResultsParam;;,

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 6};**

7)   Subclause A.2.7

Replace   **ATTRIBUTES resourceSelfTestResults;;**

with   **ATTRIBUTES resourceSelfTestResults;;;**

Replace   **resourceSelfTestResultPackage PACKAGE NOTIFICATIONS**
             "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification resourceSelfControlledResultsParam;;
                                          PRESENT IF !Unsolicited reporting is supported.!,

with   **resourceSelfTestResultPackage PRESENT IF !Unsolicited reporting is supported.!,**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 7};**

8)   Subclause A.2.8

Replace ;;; *with* ;;;;

Replace   **testInfrastructureTestResultPackage PACKAGE NOTIFICATIONS**
             "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification testInfrastructureControlledResultsParam;;
                                              PRESENT IF !Unsolicited reporting is supported.!,

with   **testInfrastructureTestResultPackage PRESENT IF !Unsolicited reporting is supported.!,**

Replace   **REGISTERED AS {part14ObjectClass ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) managedObjectClass(3) 8};**

2   **ITU-T Rec. X.737 (1995)/Cor.1 (1998 E)**

9) Subclause A.3

Insert the following before **connectivityThresholdPkg***:*

connectionTestResultPackage   PACKAGE NOTIFICATIONS
          "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification connectionControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 1};

connectivityTestResultPackagePACKAGE NOTIFICATIONS
          "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification connectivityControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 2};

In **connectivityThresholdPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 3};**

In **DataIntegrityResultsPkg**

replace   **DataIntegrityResultsPkg**

with   **dataIntegrityResultsPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 4};**

Insert the following before **dataIntegrityThresholdPkg***:*

dataIntegrityTestResultPackage   PACKAGE NOTIFICATIONS
          "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification dataIntegrityControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 5};"

In **dataIntegrityThresholdPkg**

replace   **dataIntegrityResultsBehaviour**

with   **dataIntegrityThresholdBehaviour**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 6};**

In **dataUnitsPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 7};**

In **loopbackResultsPkg**

replace   **ATTRIBUTES   loopbackResults   GET;**

with   **ATTRIBUTES   loopbackResult   GET;**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 8};**

Insert the following before **loopbackThresholdPkg***:*

loopbackTestResultPackage   PACKAGE NOTIFICATIONS
          "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification loopbackControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 9};

In **loopbackThresholdPkg**

replace   **REGISTERED AS {part14Package 6};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 10};**

In **loopbackTimeoutPkg**

replace   **Rec. X.745 (1993) | ISO/IEC 10164-12:1994:testResultNotification loopbackTxDelayParam**

with   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification loopbackTxDelayParam;"**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 11};**

In **pDUReceptionPackage**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 12};**

In **protocolIntegrityResultsPackage**

Remove   **BEHAVIOUR protocolIntegrityResultsBehaviour;**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 13};**

Insert the following before **resultIntervalPkg***:*

protocolIntegrityTestResultPackagePACKAGE NOTIFICATIONS
        "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification protocolIntegrityControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 14};

resourceSelfTestResultPackage   PACKAGE NOTIFICATIONS
        "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification resourceSelfTestControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 15};

In **resultIntervalPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 16};**

In **stateTransitionTimeInternalPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 17};**

In **testConditionsPkg**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 18};**

Insert the following before **timeoutPeriodPkg***:*

testInfrastructureTestResultPackage   PACKAGE NOTIFICATIONS
        "Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":testResultNotification testInfrastructureControlledResultsParam;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 19};

In **timeoutPeriodPkg**

replace   **timeoutPeriod**

with   **"Rec. X.745 (1993) | ISO/IEC 10164-12:1994 ":timeoutPeriod**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 20};**

In **waitingIntervalPackage**

remove   **BEHAVIOUR waitingIntervalBehaviour;**

replace   **REGISTERED AS {part14Package ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) package(4) 21};**

10)   Subclause A.4

Replace   **REGISTERED AS {part14NameBinding 1};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) nameBinding(6) 1};**

11)   Subclause A.5.1

Replace   **TestCategories-ASN1Module.ConnectionTestResults;**

with   **connectionTestResults;**

12)   Subclause A.5.2

Replace   **TestCategories-ASN.1Module.ConnectionTestInfo;**

with   **TestCategories-ASN1Module.ConnectionTestInfo;**

Replace   **connectionTestInfoParamBehaviour;**

with   **connectionTestInfoParamBehaviour BEHAVIOUR**

Replace   **;;;** *with* **;;**

REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 1};

13)   Subclause A.5.3

Remove   **BEHAVIOUR connectionUncontrolledResultsParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 2};**

14)   Subclause A.5.4

Replace   **connectivityResultsParamBehaviour**

with   **connectivityResultsParamBehaviour BEHAVIOUR**

15)   Subclause A.5.5

Replace   **connectivityUncontrolledResultsParamBehaviour;**

with   **connectivityUncontrolledResultsParamBehaviour BEHAVIOUR**

Replace   **;;;** *with* **;;.**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 3};**

16)   Subclause A.5.6

Remove   **BEHAVIOUR connectivityTestInfoParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 4};**

17)   Subclause A.5.7

Remove   **BEHAVIOUR dataIntegrityControlledResultsParamBehaviour;**

18)   Subclause A.5.8

Remove   **BEHAVIOUR dataIntegrityUncontrolledResultsParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 5};**

19)   Subclause A.5.9

Remove   **BEHAVIOUR dataIntegrityTestInfoParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 6};**

20)   Subclause A.5.10

Replace   **TestCategories-ASN1Module.LoopbackTestResults;**

with   **loopbackResult;**

Remove   **BEHAVIOUR loopbackControlledResultsParamBehaviour;**

21)   Subclause A.5.11

Replace   **TestCategories-ASN1Module.LoopbackTestResults;**

with   **TestCategories-ASN1Module.LoopbackTestResult;**

Remove   **BEHAVIOUR loopbackUncontrolledResultsParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 7};**

22)   Subclause A.5.12

Remove   **BEHAVIOUR loopbackTestInfoParamBehaviour;**

Replace   **REGISTERED AS {part14Parameter ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 8};**

23)   Subclause A.5

Insert the following before **A.5.13** *and renumber subsequent subclauses:*

A.5.13   Loopback transmission delay

```
loopbackTxDelayParam   PARAMETER
        CONTEXT          EVENT-INFO;
        WITH SYNTAX      TestCategories-ASN1Module.LoopbackTxDelayInfo;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 9};
```


24)   Subclause A.5.13

Replace   **TestCategories-ASN1Module.ProtocolIntegrityTestResults;**

with   **protocolIntegrityResults;**

Remove   **BEHAVIOUR protocolIntegrityControlledResultsParamBehaviour;**

25) Subclause A.5.14

Remove **BEHAVIOUR protocolIntegrityUncontrolledResultsParamBehaviour;**

Replace **REGISTERED AS {part14Parameter ??};**

with **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 10};**

26) Subclause A.5.15

Remove **BEHAVIOUR protocolIntegrityTestInfoParamBehaviour;**

Replace **REGISTERED AS {part14Parameter ??};**

with **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 11};**

27) Subclause A.5.16

Replace **TestCategories-ASN1Module.ResourceBoundaryTestResults;**

with **resourceBoundaryTestResults;**

28) Subclause A.5.17

Replace **REGISTERED AS {part14Parameter ??};**

with **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 12};**

29) Subclause A.5.18

Replace **resourceSelfTestInfoParamBehaviour;**

with **resourceSelfTestInfoParamBehaviour BEHAVIOUR**

Replace **REGISTERED AS {part14Parameter ??};**

with **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 13};**

30) New subclauses A.5.19 and A.5.20

Insert the following before A.6:

A.5.19 Resource self test controlled results

```
resourceSelfTestControlledResultsParamPARAMETER
        CONTEXT        EVENT-INFO;
        WITH SYNTAX    TestCategories-ASN1Module.ResourceSelfTestResults;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 14};
```

A.5.20 Test infrastructure controlled results

```
testInfrastructureControlledResultsParam    PARAMETER
        CONTEXT        EVENT-INFO;
        WITH SYNTAX    TestCategories-ASN1Module.TestInfrastructureTestResults;
REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) parameter(5) 15};
```


31) Subclause A.6.1

Replace **REGISTERED AS {part14Attribute ??};**

with **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 1};**

32)   Subclause A.6.2

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 2};**

33)   Subclause A.6.3

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 3};**

34)   Subclause A.6.4

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 4};**

35)   Subclause A.6.5

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 5};**

36)   Subclause A.6.6

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 6};**

37)   Subclause A.6.7

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 7};**

38)   Subclause A.6.8

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 8};**

39)   Subclause A.6.9

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 9};**

40)   Subclause A.6.10

Replace   **loopbackResults ATTRIBUTE**

with   **loopbackResult ATTRIBUTE**

Replace   **TestCategories-ASN1Module.loopbackTestResults;**

with   **TestCategories-ASN1Module.LoopbackTestResult;**

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 10};**

41)   Subclause A.6.11

Replace   **???????;**

with   **TestCategories-ASN1Module.Timespec;**

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 11};**

42)   Subclause A.6.12

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 12};**

43)   Subclause A.6.13

Append a second semi-colon to the end of the **DEFINED AS** *clause.*

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 13};**

44)   Subclause A.6.14

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 14};**

45)   Subclause A.6.15

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 15};**

46)   Subclause A.6.16

Append a second semi-colon to the end of the **DEFINED AS** *clause.*

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 16};**

47)   Subclause A.6.17

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 17};**

48)   Subclause A.6.18

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 18};**

49)   Subclause A.6.19

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 19};**

50)   Subclause A.6.20

Append a second semi-colon to the end of the **DEFINED AS** *clause.*

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 20};**

51)   Subclause A.6.21

Replace   **statetTransitionTimeInterval**

with   **stateTransitionTimeInterval**

Replace   **TestCategories-ASN1Module.StatetTransitionTimeInterval;**

with   **TestCategories-ASN1Module.StateTransitionTimeInterval;**

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 21};**

52)   Subclause A.6.22

Replace   **TestCategories-ASN1Module.TestConditions**

with   **TestCategories-ASN1Module.TestConditions;**

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 22};**

53)   Subclause A.6.23

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 23};**

54)   Subclause A.6.24

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 24};**

55)   Subclause A.6.25

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 25};**

56)   Subclause A.6.26

Replace   **REGISTERED AS {part14Attribute ??};**

with   **REGISTERED AS {joint-iso-itu-t ms(9) function(2) part14(14) attribute(7) 26};**

57)   Subclause A.7

Replace   **DEFINITION IMPLICIT TAGS**

with   **DEFINITIONS IMPLICIT TAGS**

In **IMPORTS FROM CMIP-1**

replace   **{joint-iso-ccitt ms(9) cmip(1) modules0(0) protocol(3) }**

with   **{joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3) }**

Remove the following:

part14ObjectClass   OBJECT IDENTIFIER ::= {joint-iso-ccitt ms(9) function(2) part14(14) managedObjectClass(3)}
part14Package   OBJECT IDENTIFIER ::= {joint-iso-ccitt ms(9) function(2) part14(14) package(4)}
part14Parameter   OBJECT IDENTIFIER ::= {joint-iso-ccitt ms(9) function(2) part14(14) parameter(5)}
part14NameBinding OBJECT IDENTIFIER ::= {joint-iso-ccitt ms(9) function(2) part14(14) nameBinding(6)}
part14Attribute   OBJECT IDENTIFIER ::= {joint-iso-ccitt ms(9) function(2) part14(14) attribute(7)}

In **ConnectionTestInfo**

replace   **[0] TestPattern OPTIONAL,**

with   **[0] EXPLICIT TestPattern OPTIONAL,**

replace   **[2] TestDuration OPTIONAL,**

with   **[2] EXPLICIT TestDuration OPTIONAL,**

replace   **[3] TimeSpec**

with   **[3] Timespec**

In **ConnectionTestResults**

replace   **[0] TestPattern OPTIONAL,**

with   **[0] EXPLICIT TestPattern OPTIONAL,**

replace   **[1] Real**

with   **[1] REAL**

In **ConnectivityTestInfo**

replace   **[0] CHOICE {**

with   **[0] EXPLICIT CHOICE {**

In **ConnectivityTestResults**

replace   **[0] TimeSpec,**

with   **[0] Timespec,**

replace   **[2] TestThreshold,**

with   **[2] EXPLICIT TestThreshold,**

In **DataCategory**

replace   **--...}**

with   **--...--}**

In **DataIntegrityTestInfo**

replace   **SEQUENCE OF { dataUnits DataUnits }**

with   **SEQUENCE OF DataUnits**

In **DataIntegrityTestResults**

replace   **[5] TestThreshold**

with   **[5] EXPLICIT TestThreshold**

Replace the production for **DataRate** *with the following:*

DataRate ::= CHOICE {
    real   REAL,
    oi   OBJECT IDENTIFIER }

In **DataType**

replace   **OBJECT IDENTIFER }**

with   **OBJECT IDENTIFIER }**

In **DataUnits**

replace   **[0] DataType,**

with   **[0] EXPLICIT DataType,**

replace   **[4] DataRate OPTIONAL**

with   **[4] EXPLICIT DataRate OPTIONAL**

Before **ErrorRatioReportType** *insert the following:*

EndConnectionTestResults ::= ConnectionTestResults

In **ErrorUnitThreshold**

replace   **[0] UnitType,**

with   **[0] UnitsType,**

In **IntegerDataType**

replace   **--...}**

with   **--...--}**

Replace the production for **LoopbackTestInfo** *with the following:*

LoopbackTestInfo ::= SEQUENCE {
    loopbackData   TestPatternSequence OPTIONAL,
    testStartTime   GeneralizedTime OPTIONAL,
    testIntervalTime   [1] Timespec OPTIONAL,
    reportingIntervalTime   [2] Timespec OPTIONAL,
    loopbackType   OBJECT IDENTIFIER OPTIONAL,
    loopbackTimeout   [3] Timespec OPTIONAL,
    loopbackErrorThreshold LoopbackError OPTIONAL }

Replace the production for **LoopbackTestResult** *with the following:*

LoopbackFailInfo ::= INTEGER {
    errorRatioThresholdExceeded (0),
    loopbackTimeoutExceeded   (1) }

LoopbackTestResult ::= SEQUENCE {
    passed   SEQUENCE {
        loopbackDataReceived   TestPatternSequence,
        loopbackErrorReceived   LoopbackError },
    fail   LoopbackFailInfo,
    timeout   [1] NULL, -- *test timeout period exceeded*
    prematureTermination   [2] NULL,
    inconclusive   [3] NULL }

LoopbackTxDelayInfo ::= NULL

In **Pattern Type**

replace   **Pattern Type**

with   **PatternType**

Before **ResourceBoundaryTestInfo** *insert the following:*

RawData ::= OCTET STRING

In **ResourceSelfTestInfo**

replace   **iteration [1] INTEGER**

with   **iteration [1] INTEGER,**

In **ResourceSelfTestResults**

replace   **SEQUENCE {**

with   **nonIntermediate SEQUENCE {**

Before **ResultInterval** *insert the following:*

ResponseTimeout ::= TimeoutPeriod

Replace the production for **TestConditions** *with the following:*

```
TestConditions ::= SEQUENCE {
    first       INTEGER {
                    testIfBusy      (0),
                    rejectIfBusy    (1),
                    waitIfBusy      (2) },
    second      INTEGER {
                    customerOverrideTest      (0),
                    noCustomerOverrideTest    (1) } OPTIONAL }
```

In **TestDuration**

replace   **size INTEGER**

with   **size INTEGER,**

replace   **dataRate dataRate OPTIONAL**

with   **dataRate DataRate OPTIONAL }}**

Before **TestPatternSequence** *insert the following:*

TestInfrastructureTestResults ::= NULL

In **TestPatternSequence**

replace   **SEQUENCE OF { TestSignal }**

with   **SEQUENCE OF TestPattern**

In **TestThreshold**

replace   **[2] UnitErrorThreshold**

with   **[2] ErrorUnitThreshold**

In **UnitType**,

replace   **UnitType**

with   **UnitsType**

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