INTERNATIONAL STANDARD

ISO/IEC 10742

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Information technology — Telecommunications and information exchange between systems — Elements of management information related to Teh SOSI Data Link Layer standards

AMENDMENT Addition of DCE conditions and new attributes

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Technologies de l'information — Télécommunications et échange d'information entre systèmes — Éléments d'information de gestion concernant les normes de la couche de liaison de données OSI

AMENDEMENT 1: Addition de conditions DCE et de nouveaux atrtributs



Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote. and ards. iteh. ai

Amendment 1 to International Standard ISO/IEC 10742:1994 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 6, Telecommunications and information exchange 93-4617-4071-between systems.

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Introduction

This amendment to ISO/IEC 10742:1994 adds specifications answering to requirements for DCE aspects and some new attributes for LAPBDLE MOs and IVMOs.

These new specifications came out of the comments to DIS 10742. They will be merged into the base document ISO/IEC 10742:1994 at the next revision.

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Information technology - Telecommunications and information exchange between systems - Elements of management information related to OSI Data Link Layer standards

AMENDMENT 1: Addition of DCE conditions and new attributes

5.1.3.2 DLE

Change the last sentence to:

"The sN-ServiceProvider attribute of the Network layer Linkage,X25PLE-DTE MOs and X25PLE-DCE" MOs contains the local distinguished name of a DLE MO".

5.6 The LAPB Data Link Entity managed object s.iteh.ai)

Add a new CONDITIONAL PACKAGE to IAPBDLE MO CLASS:

ISO/IEC 10742:1994/Amd 1:1995

"mLP-Counters-P PRESENT IF ITU-T DCE mode operation is supported 7-4071-

9d84-f1c8deab935c/iso-iec-10742-1994-amd-1-1995

Add the attributes mW and mX in the mLP-P PACKAGE:

"mW REPLACE-WITH-DEFAULT GET-REPLACE mX REPLACE-WITH-DEFAULT GET-REPLACE"

Add the following definition of the new CONDITIONAL PACKAGE in Packages:

"mLP-Counters-P PACKAGE BEHAVIOUR mLP-Counters-P-B BEH

BEHAVIOUR mLP-Counters-P-B BEHAVIOUR DEFINED AS

Additional properties present when ITU-T DCE mode operation is supported;; ATTRIBUTES

receivedMlpResets REPLACE-WITH-DEFAULT GET-REPLACE, timesMT1Expired REPLACE-WITH-DEFAULT GET-REPLACE,

iFramesReassignments REPLACE-WITH-DEFAULT GET-REPLACE,

receivedMlpFramesInGuardRegion REPLACE-WITH-DEFAULT GET-REPLACE, REGISTERED AS {DLM.poi mLP-Counters-P(6)};"

Add the following definitions of the new ATTRIBUTES in Attributes:

"iFramesReassignments ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR iFramesReassignments-B BEHAVIOUR
DEFINED AS

Counter. Number of reassignments of IFrames on another slp.;; REGISTERED AS {DLM.aoi iFramesReassignments(46)};

mW ATTRIBUTE
WITH ATTRIBUTE SYNTAX DLM.MW;

MATCHES FOR EQUALITY, ORDERING;
BEHAVIOUR mW-B BEHAVIOUR
DEFINED AS
MLP window size.;;
REGISTERED AS {DLM.aoi mW(47)};

mX ATTRIBUTE
WITH ATTRIBUTE SYNTAX DLM.MX;
MATCHES FOR EQUALITY, ORDERING;
BEHAVIOUR mX-B BEHAVIOUR
DEFINED AS
Receive MLP window in the Guard Region.;;
REGISTERED AS {DLM.aoi mX(48)};

receivedMlpFramesInGuardRegion ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR receivedMlpFramesInGuardRegion-B BEHAVIOUR
DEFINED AS

Counter. Number of MLP Frames received in the Guard Region.;; REGISTERED AS {DLM.aoi receivedMlpFramesInGuardRegion(49)};

receivedMlpResets ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR receivedMlpResets-B BEHAVIOUR
DEFINED AS
Counter. Number of received MLP Resets.;;

REGISTERED AS {DLM.aoi receivedMlpResets(50)}; PREVIEW

timesMT1Expired ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter; rds.iteh.ai)
BEHAVIOUR timesMT1Expired-B BEHAVIOUR
DEFINED AS
Counter. Lost multilink frames.ids iteh ai/catalog/standards/sist/d44449093_461

Counter. Lost multilink frames ind. iteh ai/catalog/standards/sist/d4449093-4617-4071-REGISTERED AS {DLM.aoi.times.MT.1 Expired(51)}:"

(DLM.aoi.times.MT.1 Expired(51)):"
(DLM.aoi.times.MT.1

5.8 The LAPB Single Link Protocol Connection managed object

Complete the condition for the CONDITIONAL PACKAGE t3-P with:

"or ITU-T DCE mode operation is supported"

Add a new CONDITIONAL PACKAGE to sLPConnection MO CLASS:

"t4-P PRESENT IF Timer T4 of ISO/IEC 7776 or ITU-T DCE mode is supported"

Add a new CONDITIONAL PACKAGE to sLPConnection MO CLASS:

"link-reset-disconnect-n2-P PRESENT IF supported"

Remove in commonSLPConnection-P PACKAGE:

"ATTRIBUTE: t4Timer" and "ATTRIBUTE GROUP: t4Timer"

Add in Packages the following definitions:

"link-reset-disconnect-n2-P PACKAGE
BEHAVIOUR link-reset-disconnect-n2-P-B BEHAVIOUR
DEFINED AS
Present if supported.;;
ATTRIBUTES
abnormalLinkDisconnectsReceived GET,
abnormalLinkDisconnectsSent GET,

```
linkResetsReceived GET,
    linkResetsSent GET.
    timesN2Reached GET;
 ATTRIBUTE GROUPS
      "GMI":counters
           abnormalLinkDisconnectsReceived
           abnormalLinkDisconnectsSent
           linkResetsReceived
           linkResetsSent
           timesN2Reached:
 REGISTERED AS {DLM.poi link-reset-disconnect-n2-P(4)};
t4-P PACKAGE
 BEHAVIOUR t4-P-B BEHAVIOUR
    DEFINED AS
          Present if the Timer T4 is supported.;;
 ATTRIBUTES
    t4Timer REPLACE-WITH-DEFAULT GET REPLACE,
    times T4Expired GET;
 ATTRIBUTES GROUPS
      "GMI":counters
           timesT4Expired,
      timers
           t4Timer;
 REGISTERED AS {DLM.poi t4-P(7)};"
Add the following definitions in Attributes:
                                                                         NDARD PREVIEW
                                   ileh SIAI
"abnormalLinkDisconnectsReceived ATTRIBUTE
 DERIVED FROM "GMI":nonWrapping64BitCounter, 11eh 21
 BEHAVIOUR abnormalLinkDisconnectsReceived-B BEHAVIOUR
      DEFINED AS
          Counter. Total number of received abnormal Link Disconnects,;;
 REGISTERED AS (DLM.aoi abnormall inkDisconnectsReceived(41));

Alexandres as the standard of t
 abnormalLinkDisconnectsSent ATTRIBUTE
 DERIVED FROM "GMI":nonWrapping64BitCounter;
 BEHAVIOUR abnormalLinkDisconnectsSent-B BEHAVIOUR
      DEFINED AS
          Counter. Total number of sent abnormal Link Disconnects.;;
 REGISTERED AS {DLM.aoi abnormalLinkDisconnectsSent(42)};
 linkResetsReceived ATTRIBUTE
 DERIVED FROM "GMI":nonWrapping64BitCounter;
 BEHAVIOUR linkResetsReceived-B BEHAVIOUR
      DEFINED AS
          Counter. Total number of received Link Resets.;;
 REGISTERED AS {DLM.aoi linkResetsReceived(43)};
 linkResetsSent ATTRIBUTE
 DERIVED FROM "GMI":nonWrapping64BitCounter;
 BEHAVIOUR linkResetsSent-B BEHAVIOUR
      DEFINED AS
           Counter. Total number of sent Link Resets.;;
 REGISTERED AS {DLM.aoi linkResetsSent(44)};
 timesN2Reached ATTRIBUTE
 DERIVED FROM "GMI":nonWrapping64BitCounter;
 BEHAVIOUR timesN2Reached-B BEHAVIOUR
      DEFINED AS
           Counter. Total number of times N2 was Reached.;;
 REGISTERED AS {DLM.aoi timesN2Reached(45)};"
```

Add in the definition of Attribute t3Timer ATTRIBUTE for DEFINED AS:

"or ITU-T X25 mandatory parameter"

Add in the definition of Attribute t4Timer ATTRIBUTE for DEFINED AS:

"or a DCF"

5.9 The LAPB Single Link Protocol Connection Initial Values managed object

Complete the condition for the CONDITIONAL PACKAGE t3IVMO-P with:

"or ITU-T DCE mode operation is supported"

Add a new CONDITIONAL PACKAGE to sLPConnection IVMO CLASS:

"t4IVMO-P PRESENT IF Timer T4 of ISO/IEC 7776 or ITU-T DCE mode is supported"

Add the following definition in Packages:

```
"t4IVMO-P PACKAGE
BEHAVIOUR t4IVMO-P-B BEHAVIOUR
DEFINED AS
Present if the Timer T4 is supported.;;
ATTRIBUTES
t4Timer REPLACE-WITH-DEFAULT GET REPLACE,
times T4Expired GET;
ATTRIBUTES GROUPSI Teh STANDARD PREVIEW
"GMI":counters
timesT4Expired,
timers
t4Timer;
REGISTERED AS {DLM.poi t4IVMO-P(8):"
REGISTERED AS {DLM.poi t4IVMO-P(8):"
9d84-flc8deab935c/iso-icc-10742-1994-amd-1-1995
```

6 ASN.1 module

Add to other definitions

```
"MW ::= SEQUENCE{
  mWSend [0] IMPLICIT INTEGER (1...4095),
  mWReceive [1] IMPLICIT INTEGER (1...4095)}

MX ::= SEQUENCE{
  mXSend [0] IMPLICIT INTEGER (1...4095),
  mXReceive [1] IMPLICIT INTEGER (1...4095)}"
```

Annex A (normative) Allocation of Object Identifiers

Add the following Object Identifiers to package(4)

```
"link-reset-disconnect-n2-P(4) mLP-Counters-P(6)" t4-P(7)} t4IVMO-P(8)"
```

Add the following Object Identifiers to attribute (7)

```
"abnormalLinkDisconnectsReceived(41)
abnormalLinkDisconnectsSent(42)
linkResetsReceived(43)
linkResetsSent(44)
timesN2Reached(45)
iFramesReassignments(46)
```

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mW(47) mX(48) receivedMlpFramesInGuardRegion(49) receivedMlpResets(50) timesMT1Expired(51)

New Annex

Add the following informative annex E.

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