ITU-T

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU X.519

Corrigendum 1 (02/2011)

SERIES X: DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY Directory

Information technology – Open Systems Interconnection – The Directory: Protocol specifications

Technical Corrigendum 1

Recommendation ITU-T X.519 (2008) – Technical Corrigendum 1



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INTERNATIONAL STANDARD ISO/IEC 9594-5 RECOMMENDATION ITU-T X.519

Information technology – Open Systems Interconnection – The Directory: Protocol specifications

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History

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FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 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 – The Directory: Protocol specifications

Technical Corrigendum 1

(covering resolution to defect reports 337, 339, 347 and 350)

1) Correction of the defects reported in defect report 337

Update other parts of 9.1 and in addition 9.2 and 9.3 as follows:

bind PDU to be replaced with IdmBind PDU.

bindResult PDU to be replaced with IdmBindResult PDU.

bindError PDU to be replaced with IdmBindError.PDU.

request PDU to be replaced with Request PDU.

result PDU to be replaced with IdmResult PDU.

error PDU to be replaced with Error PDU.

reject PDU to be replaced with IdmReject PDU.

unbind PDU to be replaced with Unbind PDU.

ID

2) Correction of the defects reported in defect report 339

Replace in 10.2 and Annex E directoryBind with dSABind:

```
dsp-ip IDM-PROTOCOL ::=
                           directory SABind
     BIND-OPERATION
     OPERATIONS
                                 { chainedRead | chainedCompare | chainedAbandon
                                              chainedList | chainedSearch
                                              chainedAddEntry | chainedRemoveEntry
                                              chainedModifyEntry | chainedModifyDN }
     ID
                                      id-idm-dsp }
Replace in 10.3 and Annex E directoryBind with dSAShadowBind:
disp-ip IDM-PROTOCOL
                           d_{irectory}SAShadowBind
     BIND-OPERATION
     OPERATIONS
                                 { requestShadowUpdate
                                            updateShadow
                                              coordinateShadowUpdate }
     ID
                                 id-idm-disp }
Replace in 10.4 and Annex E directoryBind with dSAOperationalBindingManagementBind:
dop-ip IDM-PROTOCOL
     BIND-OPERATION
                           directory SAOperational Binding Management Bind
     OPERATIONS
                                 { establishOperationalBinding
                                            | modifyOperationalBinding
                                              terminateOperationalBinding}
```

id-idm-dop }

ISO/IEC 9594-5:2008/Cor.1:2011 (E)

3) Correction of the defects reported in defect report 347

Replace in 7.6.6.5 and Annex B the current definition of OsiRej:

```
OsiRej ::= [4] IMPLICIT SEQUENCE {
invokeId
               InvokeId,
               CHOICE {
problem
               [0] GeneralProblem,[1] InvokeProblem,
  general
  invoke
  returnResult [2] ReturnResultProblem,
  returnError [3] ReturnErrorProblem } }
with:
OsiRej ::= [4] IMPLICIT SEQUENCE {
invokeId
               InvokeId,
               CHOICE {
problem
  general
               [0] IMPLICIT GeneralProblem,
              [1] IMPLICIT InvokeProblem,
  invoke
  returnResult [2] IMPLICIT ReturnResultProblem,
  returnError [3] IMPLICIT ReturnErrorProblem } }
```

4) Correction of the defects reported in defect report 350

In 9.1 in the IdmReject PDU type, add three new reason codes:

```
mistypedParameterError (10),
unsupportedIdmVersion (11),
unsuitableIdmVersion (12),
invalidIdmVersion (13)} }
```

In 9.4, add at the end:

An unsupportedIdmVersion reason code shall be returned if an unknown version is specified in the TCP/IP mapping format (see 9.6). The invokeID component shall take the absent choice.

An unsuitableIdmVersion reason code shall be returned if the DSA receives an IdmBind request using a mapping format different from that used in already established application-associations and the DSA chooses not to engage in a different type of communication. The invokeID component shall take the absent choice.

An invalidIdmVersion reason code shall be returned if a version number is different from the one specified when the IdmBind request was processed and accepted.

In 9.6, delete the NOTE and add in its place:

The version number shall be the same for all IDM-PDUs within an application-association. If a request or response is received violating this rule, the receiver shall return an IdmReject with reason code invalidIdmVersion. This reject shall be transferred using the version agreed for the application-association.

If the version field indicates an unsupported version, the receiving DSA shall return an IdmReject with reason code unsupportedIdmVersion. This reject shall be transferred using a version 1 format.

An implementation shall support the version 1 format in the response to an IdmBind.

A DSA may also reject an IdmBind if existing application-associations are using a version different from the one suggested in the format suggested by the IdmBind. In this case, an IdmReject with reason code unsuitableIdmVersion shall be returned. This reject shall be transferred using the same version as the one used for the request.

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