

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

X.518 Corrigendum 1 (03/2000)

SERIES X: DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

Directory

Information technology – Open Systems Interconnection – The Directory: Procedures for distributed operation

Technical Corrigendum 1

ITU-T Recommendation X.518 - Corrigendum 1

(Formerly CCITT Recommendation)

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INTERNATIONAL STANDARD ISO/IEC 9594-4 ITU-T RECOMMENDATION X.518

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – THE DIRECTORY: PROCEDURES FOR DISTRIBUTED OPERATION

TECHNICAL CORRIGENDUM 1

Source

Corrigendum 1 to ITU-T Recommendation X.518 was prepared by ITU-T Study Group 7 (1997-2000) and approved on 31 March 2000. An identical text is also published as Technical Corrigendum 1 to ISO/IEC 9594-4.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), 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 WTSC 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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INTERNATIONAL STANDARD ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – THE DIRECTORY: PROCEDURES FOR DISTRIBUTED OPERATION

TECHNICAL CORRIGENDUM 1

1) Resolution to defect report 9594/157

Subclause 19.1.4 Modify DN operation

After the first paragraph of bullet 9), add the following new paragraph:

If the entry, alias entry or subentry was within the **UnitOfReplication** of one or more shadowing agreements held by the DSA, and the superior of the renamed entry, alias entry or subentry is not within this **UnitOfReplication**, the shadow consumers shall be updated using the procedures of the Directory shadow service specified in ITU-T Rec. X.525 | ISO/IEC 9594-9; in this case the shadowed entry and all its subordinates shall be removed.

If the entry, alias entry or subentry was not within the **UnitOfReplication** of one or more shadowing agreements held by the DSA, and the renamed entry, alias entry or subentry is now within this **UnitOfReplication**, the shadow consumers shall be updated using the procedures of the Directory shadow service specified in ITU-T Rec. X.525 | ISO/IEC 9594-9; in this case the shadowed entry and all its subordinates shall be shadowed.

2) Resolution to defect report 9594/159

Subclause 19.3.2.2.1 Search procedure (I)

Replace the whole text of the subclause 19.3.2.2.1 1) b) i) with the following text:

- i) If e is unsuitable, make a continuationReference as follows and add it to SRContinuationList:
 - targetObject set to the DN of DSE e;
 - operationProgress with nameResolutionPhase set to proceeding and nextRDNtoBeResolved set to the number of RDNs in e;
 - all other components of continuationReference are unchanged.

Then return.

In the Note following subclause 19.3.2.2.1.1) b) i), remove the brackets with their content.

Subclause 18.3.1 Find DSE procedure

Delete in step 9) the first paragraph and NOTE 5.

3) Resolution to defect report 9594/162

Subclause 20.4.5 APInfo procedure

Replace the text of the second to last dash of 5) c), "ChainingArguments.exclusions absent" with the following:

 "chainingArguments.exclusions is set to either the relevant exclusions for the current target object if called by the Search Continuation Reference procedure, or absent if the APInfo procedure was called by the Name Resolution or the List Continuation procedures."

4) Resolution to defect report 9594/180

Subclause 10.3 Chaining Arguments

Delete bullet g) (which is a duplicate of o)) and renumber the following items. Modify the order of m) n) and o) to o), n) m) which, with the renumbering will become:

- 1) The entryOnly ...
- m) uniqueldentifier ...
- n) authenticationLevel ...

5) Resolution to defect report 9594/190

Subclause 19.3.1.2.2 List procedure (II)

In bullet 1) add a new step before a) and renumber the subsequent steps accordingly:

- a) If e' is not an entry or alias, continue with the next immediate subordinate.
- b) Check ACI ...

6) Resolution to defect report 9594/198

Subclause 17.3.3.1 DUA request

Insert two new bullets e) and f) into 17.3.3.1 after bullet d) and renumber the existing e), f), g) as g), h), i) to read as follows:

- d) ChainingArguments.AuthenticationLevel and ChainginArgument.UniqueID are set according to the local security policy.
- e) ChainingArguments.nameResolveOnMaster is copied from CommonArguments.nameResolveOnMaster.
- f) ChainingArguments.exclusions, ChainingArguments.entryOnly and ChainingArguments.referenceType are copied from CommonArguments.exclusions, CommonArguments.entryOnly and CommonArguments.referenceType if they are present, otherwise they are omitted.
- g) If the **manageDSAIT** option is set ...

7) Resolution to defect report 9594/206

Clause 21 Results Merging procedure

Add the following Note after bullet 6):

"NOTE – In case a DSA receives search or list results from other DSAs, and such results have parameters unknown to the DSA, the uncorrelated results shall be returned. Otherwise, the DSA shall perform merging, if the search results are not signed.

A DSA which received unsigned, uncorrelated results from a DSA not able to perform consolidation, shall perform merging, if it has the proper knowledge of all parameters of the uncorrelated results."

8) Resolution to defect report 9594/209

Subclause 12.1 Chained operations and Annex A

Modify the ASN.1 of ERRORS as follows:

ERRORS {operation.&Errors Except referral| dsaReferral}

ISO/IEC 9594-4: 1998/Cor.1: 2001 (E)

9) Resolution to defect report 9594/211

Subclause 10.3

Change timeLimit in ChainingArguments to:

timeLimit

[9] Time OPTIONAL,

Insert the following after the ASN.1 definition of ChainingArguments:

Add the following to k):

Before a value of **Time** is used in any comparison operation, and if the syntax of **Time** has been chosen as the **UTCTime** type, the value of the two-digit year field shall be rationalized into a four-digit year value as follows:

- If the 2-digit value is 00 through 49 inclusive, the value shall have 2000 added to it.
- If the 2-digit value is 50 through 99 inclusive, the value shall have 1900 added to it.

NOTE – The use of **GeneralizedTime** may prevent interworking with implementations unaware of the possibility of choosing either **UTCTime** or **GeneralizedTime**. It is the responsibility of those specifying the domains in which this Directory Specification will be used, e.g. profiling groups, as to when the **GeneralizedTime** may be used. In no case shall **UTCTime** be used for representing dates beyond 2049.

Also make the ASN.1 changes to Annex A.

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