International Standard

ISO/IEC 9594-8

Information technology — Open systems interconnection —

Part 8:
The Directory: Public-key and attribute certificate frameworks

TECHNICAL CORRIGENDUM 2

Ninth edition
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TECHNICAL
CORRIGENDUM 2

This document was prepared by ITU-T as ITU-T X.509 (2019) Cor. 2 (10/2023) and drafted in accordance with its editorial rules, in collaboration with Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

INTERNATIONAL STANDARD ISO/IEC 9594-8
RECOMMENDATION ITU-T X.509

Information technology – Open Systems Interconnection – The Directory: Public-key and attribute certificate frameworks

Technical Corrigendum 2

Summary

Corrigendum 2 to ITU-T X.509 (2019) | ISO/IEC 9594-8:2020 covers resolution to defect reports 434 and 435.

History [*]

Edition	Recommendation	Approval	Study Group	Unique ID
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2.0	ITU-T X.509	1993-11-16	7	11.1002/1000/3000
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3.1	ITU-T X.509 (1997) Technical Cor. 1	2000-03-31	7	11.1002/1000/5033
3.2	ITU-T X.509 (1997) Technical Cor. 2	2001-02-02	7	11.1002/1000/5311
3.3	ITU-T X.509 (1997) Technical Cor. 3	2001-10-29	7	11.1002/1000/5559
3.4	ITU-T X.509 (1997) Technical Cor. 4	2002-04-13	17	11.1002/1000/6025
3.5	ITU-T X.509 (1997) Technical Cor. 5	2003-02-13	17	11.1002/1000/6236
3.6	ITU-T X.509 (1997) Technical Cor. 6	2004-04-29	17	11.1002/1000/7285
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4.1	ITU-T X.509 (2000) Technical Cor. 1	2001-10-29	7	11.1002/1000/5560
4.2	ITU-T X.509 (2000) Technical Cor. 2	2002-04-13	17	11.1002/1000/6026
4.3	ITU-T X.509 (2000) Technical Cor. 3	2003-02-13	17	11.1002/1000/15258
4.3	ITU-T X.509 (2000) Technical Cor. 3	2004-04-29	17	11.1002/1000/7284
4.4	ITU-T X.509 (2000) Technical Cor. 4	2007-01-13	17	11.1002/1000/8637
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5.1	ITU-T X.509 (2005) Cor. 1	2007-01-13	17	11.1002/1000/9051
5.2	ITU-T X.509 (2005) Cor. 2	2008-11-13	17	11.1002/1000/9591
5.3	ITU-T X.509 (2005) Cor. 3	2011-02-13	17	11.1002/1000/11042
5.4	ITU-T X.509 (2005) Cor. 4	2012-04-13	17	11.1002/1000/11577
6.0	ITU-T X.509	2008-11-13	17	11.1002/1000/9590
6.1	ITU-T X.509 (2008) Cor. 1	2011-02-13	17	11.1002/1000/11043
6.2	ITU-T X.509 (2008) Cor. 2	2012-04-13	17	11.1002/1000/11578
6.3	ITU-T X.509 (2008) Cor. 3	2012-10-14	17	11.1002/1000/11736
7.0	ITU-T X.509	2012-10-14	17	11.1002/1000/11735

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[*] To access the Recommendation, type the URL https://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID.

Rec. ITU-T X.509 (2019) Cor. 2 (10/2023)

7.1	ITU-T X.509 (2012) Cor. 1	2015-05-29	17	11.1002/1000/12474
7.2	ITU-T X.509 (2012) Cor. 2	2016-04-29	17	11.1002/1000/12844
7.3	ITU-T X.509 (2012) Cor. 3	2016-10-14	17	11.1002/1000/13032
8.0	ITU-T X.509	2016-10-14	17	11.1002/1000/13031
9.0	ITU-T X.509	2019-10-14	17	11.1002/1000/14033
9.1	ITU-T X.509 (2019) Cor. 1	2021-10-14	17	11.1002/1000/14791
9.2	ITU-T X.509 (2019) Cor. 2	2023-10-29	17	11.1002/1000/15705

Rec. ITU-T X.509 (2019) Cor. 2 (10/2023)

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.

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INTERNATIONAL STANDARD
ITU-T RECOMMENDATION

Information technology – Open Systems Interconnection – The Directory: Public-key and attribute certificate frameworks

Technical Corrigendum 2

(Covering resolution to defect reports 434 and 435)

1) Correction of the defects reported in defect report 434

Replace the definition of the role attribute type in 16.5.1 with:

```
role ATTRIBUTE ::= {
  WITH SYNTAX   RoleSyntax
  LDAP-SYNTAX   ldapRoleSyntax.&id
  LDAP-NAME     {"role"}
  LDAP-DESC     "LDAP role"
  ID            id-at-role }
```

Replace the definition of xmlPrivilegeInfo in 16.7 with:

```
xmlPrivilegeInfo ATTRIBUTE ::= {
  WITH SYNTAX   UTF8String --contains XML-encoded privilege information
  LDAP-SYNTAX   directoryString.&id
  LDAP-NAME     {"xmlPrivInfo"}
  LDAP-DESC     "XML Privilege Info"
  ID            id-at-xMLPrivilegeInfo }
```

Replace the definition of permission attribute in 16.8.1 with:

```
permission ATTRIBUTE ::= {
  WITH SYNTAX             DualStringSyntax
  EQUALITY MATCHING RULE  dualStringMatch
  LDAP-SYNTAX             ldapDualStringSyntax.&id
  LDAP-NAME               {"permission"}
  LDAP-DESC               "LDAP permission"
  ID                      id-at-permission }
```

Replace the definition of dualStringMatch matching rule in 16.8.2 with:

```
dualStringMatch MATCHING-RULE ::= {
  SYNTAX        DualStringSyntax
  LDAP-SYNTAX   ldapDualStringSyntax.&id
  LDAP-NAME     {"permission"}
  LDAP-DESC     "LDAP permission match"
  ID            id-mr-dualStringMatch }
```

Replace the definition of the PMI user object class in 19.1.1 with:

```
pmiUser OBJECT-CLASS ::= {
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {attributeCertificateAttribute}
  LDAP-NAME    {"pmiUser"}
  LDAP-DESC    "Privilege holder"
  ID           id-oc-pmiUser }
```

Replace the definition of the PMI AA object class in 19.1.2 with:

```
pmiAA OBJECT-CLASS ::= { -- a PMI AA
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {aACertificate |
                attributeCertificateRevocationList |
                eeAttrCertificateRevocationList |
                attributeAuthorityRevocationList}
```

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```
  LDAP-NAME       {"pmiAA"}
  LDAP-DESC       "Privilege authority"
  ID              id-oc-pmiAA }
```

Replace the definition of the PMI SOA object class in 19.1.3 with:

```
pmiSOA OBJECT-CLASS ::= { -- a PMI Source of Authority
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {attributeCertificateRevocationList |
                eeAttrCertificateRevocationList |
                attributeAuthorityRevocationList |
                attributeDescriptorCertificate}
  LDAP-NAME    {"pmiSOA"}
  LDAP-DESC    "Source of authority"
  ID           id-oc-pmiSOA }
```

Replace the definition of the Attribute certificate CRL distribution point object class in 19.1.4 with:

```
attCertCRLDistributionPt OBJECT-CLASS ::= {
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {attributeCertificateRevocationList |
                eeAttrCertificateRevocationList |
                attributeAuthorityRevocationList}
  LDAP-NAME    {"ACRL distribution point"}
  ID           id-oc-attCertCRLDistributionPts }
```

Replace the definition of the Attribute certificate PMI delegation path object class in 19.1.5 with:

```
pmiDelegationPath OBJECT-CLASS ::= {
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {delegationPath}
  LDAP-NAME    {"pmiDelegationPath"}
  LDAP-DESC    "Privilege delegation path"
  ID           id-oc-pmiDelegationPath }
```

Replace the definition of the privilege policy object class in 19.1.6 with:

```
privilegePolicy OBJECT-CLASS ::= {
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {privPolicy}
  LDAP-NAME    {"privilegePolicy"}
  LDAP-DESC    "Privilege policy"
  ID           id-oc-privilegePolicy }
```

Replace the definition of the protected privilege policy object class in 19.1.7 with:

```
protectedPrivilegePolicy OBJECT-CLASS ::= {
  SUBCLASS OF  {top}
  KIND         auxiliary
  MAY CONTAIN  {protPrivPolicy}
  LDAP-NAME    {"protectedPrivilegePolicy"}
  LDAP-DESC    "Protected privilege policy"
  ID           id-oc-protectedPrivilegePolicy }
```

Replace the definition of attributeCertificateAttribute attribute type in 19.2.1 with:

```
attributeCertificateAttribute ATTRIBUTE ::= {
  WITH SYNTAX             AttributeCertificate
  EQUALITY MATCHING RULE  attributeCertificateExactMatch
  LDAP-SYNTAX             x509AttributeCertificate.&id
  LDAP-NAME               {"attributeCertificateAttribute"}
  LDAP-DESC               "X.509 Attr certificate attribute"
  ID                      id-at-attributeCertificate }
```

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Replace the definition of aACertificate attribute type in 19.2.2 with:

```
aACertificate ATTRIBUTE ::= {
  WITH SYNTAX              AttributeCertificate
  EQUALITY MATCHING RULE   attributeCertificateExactMatch
  LDAP-SYNTAX              x509AttributeCertificate.&id
  LDAP-NAME               {"aACertificate"}
  LDAP-DESC               "X.509 AA certificate"
  ID                      id-at-aACertificate }
```

Replace the definition of attributeDescriptorCertificate attribute type in 19.2.3 with:

```
attributeDescriptorCertificate ATTRIBUTE ::= {
  WITH SYNTAX              AttributeCertificate
  EQUALITY MATCHING RULE   attributeCertificateExactMatch
  LDAP-SYNTAX              x509AttributeCertificate.&id
  LDAP-NAME               {"AttributeDescriptorCertificate"}
  LDAP-DESC               "X.509 Attr descriptor certificate"
  ID                      id-at-attributeDescriptorCertificate }
```

Replace the definition of delegationPath attribute type in 19.2.7 with:

```
delegationPath ATTRIBUTE ::= {
  WITH SYNTAX              AttCertPath
  LDAP-SYNTAX              ldapAttCertPath.&id
  LDAP-NAME               {"delegationPath"}
  LDAP-DESC               "LDAP delegation path"
  ID                      id-at-delegationPath }
```

Replace the definition of privPolicy attribute type in 19.2.8 with:

```
privPolicy ATTRIBUTE ::= {
  WITH SYNTAX              PolicySyntax
  LDAP-SYNTAX              x509PolicySyntax.&id
  LDAP-NAME               {"privPolicy"}
  LDAP-DESC               "X.509 privPolicy"
  ID                      id-at-privPolicy }
```

Replace the definition of protPrivPolicy attribute type in 19.2.9 with:

```
protPrivPolicy ATTRIBUTE ::= {
  WITH SYNTAX              AttributeCertificate
  EQUALITY MATCHING RULE   attributeCertificateExactMatch
  LDAP-SYNTAX              x509AttributeCertificate.&id
  LDAP-NAME               {"protPrivPolicy"}
  LDAP-DESC               "X.509 prot priv policy"
  ID                      id-at-protPrivPolicy }
```

Replace the definition of xmlPrivPolicy attribute type in 19.2.10 with:

```
xmlPrivPolicy ATTRIBUTE ::= {
  WITH SYNTAX              UTF8String -- XML-encoded privilege policy information
  LDAP-SYNTAX              directoryString.&id
  LDAP-NAME               {"xmlPrivPolicy"}
  LDAP-DESC               "LDAP XML Priv Policy"
  ID                      id-at-xmlPrivPolicy }
```

Replace the definition of attribute certificate exact match matching rule in 19.3.1 with:

```
attributeCertificateExactMatch MATCHING-RULE ::= {
  SYNTAX        AttributeCertificateExactAssertion
  LDAP-SYNTAX   attCertExactAssertion.&id
  LDAP-NAME     {"attributeCertificateExactMatch"}
  LDAP-DESC     "Attribute Certificate Exact Match"
  ID            id-mr-attributeCertificateExactMatch }
```