



INTERNATIONAL STANDARD ISO/IEC 9594-4 : 1990
TECHNICAL CORRIGENDUM 1

Published 1991-12-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ELECTROTECHNIQUE INTERNATIONALE

Information technology — Open Systems Interconnection — The Directory —

Part 4: Procedures for distributed operation

TECHNICAL CORRIGENDUM 1

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Technologies de l'information — Interconnexion de systèmes ouverts — L'annuaire —

Partie 4: Procédures pour le fonctionnement réparti

RECTIFICATIF TECHNIQUE 1

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Technical corrigendum 1 to International Standard ISO/IEC 9594-4 : 1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Page 9

Subclause 10.4.1

Second paragraph, first sentence, and third paragraph, second sentence, replace “returnCrossReference” with “returnCrossRefs”.

UDC 681.3 : 621.39

Ref. No. ISO/IEC 9594-4 : 1990/Cor.1 : 1991 (E)

Descriptors: data processing, information interchange, network interconnection, open systems interconnection, directories, procedure.

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Printed in Switzerland

Subclause 12.3.1

Because a DSA involved in chaining is unable to change the value of the subset argument (as required when dereferencing aliases for a one level search operation), add the new boolean argument "entryOnly" to the **ChainingArguments** ASN.1 definition as follows:

```

aliasDereferenced    [4]    BOOLEAN DEFAULT FALSE,
aliasRDNs             [5]    INTEGER OPTIONAL,
--absent unless aliasDereferenced is TRUE
entryOnly             [11]   BOOLEAN DEFAULT FALSE,
--absent unless aliasDereferenced is TRUE
--and operation is search, one-level
returnCrossRefs      [6]    BOOLEAN DEFAULT FALSE,
    
```

Subclause 12.3.2.7

Renumber existing subclauses 12.3.2.7 and 12.3.2.8 to 12.3.2.8 and 12.3.2.9 respectively.

Add new subclause 12.3.2.7 with the following text to define the new **entryOnly** argument:

"12.3.2.7 The **entryOnly** component is set to **TRUE** if the original operation was a search, with the **subset** argument set to **oneLevel**, and an alias entry was encountered as an immediate subordinate of the **baseObject**. The DSA which successfully performs name resolution on the **targetObject** name, shall perform object evaluation on only the named entry."



Subclause 12.6.2

Replace the first sentence with the following:

[ISO/IEC 9594-4:1990/Cor 1:1991](https://standards.iteh.ai/catalog/standards/sist/9c9d8aa6-2112-4596-8ea7-47d9ff29d79/iso-iec-9594-4-1990-cor-1-1991)

"Each DSA which is propagating an operation to another adds a new item to the end of the sequence of **TraceItem**."

Subclause 13.1.1

First sentence, replace "chainedRead, chainedSearch, and chainedModify ports" with "chainedReadPort, chainedSearchPort, and chainedModifyPort".

Replace the ASN.1 specification of **DSABind** with the following specification:

```

DSABind ::= ABSTRACT-BIND
TO { chainedReadPort,
    chainedSearchPort,
    chainedModifyPort }

BIND
ARGUMENT      DirectoryBindArgument
RESULT        DirectoryBindResult
BIND-ERROR    DirectoryBindError
    
```

Subclause 13.2.1

First sentence, replace "Chained Read, Chained Search, and Chained Modify ports" with "chainedReadPort, chainedSearchPort and chainedModifyPort".

Replace the ASN.1 specification of **DSAUnbind** with the following specification:

```

DSAUnbind ::= ABSTRACT-UNBIND
FROM { chainedReadPort,
    chainedSearchPort,
    chainedModifyPort }
    
```

Page 17

Subclause 17.2

Add the following to the end of the penultimate paragraph:

“In the particular case where a DSA already contains an entry of the same name as that of the **object** in the **AddEntry**, **RemoveEntry** or **ModifyRDN** operation, or of the new name in the **ModifyRDN** operation, and receives the operation before name resolution has been completed, because another (as yet uncontacted) DSA holds the immediately superior entry, then it may optionally return an **UpdateError** instead of first passing the operation to the latter DSA for name resolution to be completed.”

Page 22

Subclause 18.4.2.3

Replace text with the following:

“**TraceInformation** is always updated, by appending a new **TraceItem**, before including it in any outgoing **ChainingArguments**. This is the case for both chained operations and newly generated subrequests.”

Subclause 18.4.6

Item 1), second paragraph, replace first sentence with “If the operation originates from a DUA, adopt the value of **TRUE** for **aliasDereferenced** if **aliasedRDNs** is present, otherwise adopt the value **FALSE**.”

Page 32

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Subclause 18.7.2.2.1

Item 1), to include the new **entryOnly** argument, replace “If the **subset** argument is **baseObject** or **wholeSubtree**, then apply” with the following:

<https://standards.iteh.ai/catalog/standards/sist/9c9d8aa6-2112-4596-8ea7-47d9ff29d79/iso-iec-9594-4-1990-cor-1-1991>

“If the **subset** argument is one of

- (i) **baseObject**, or
- (ii) **wholeSubtree**, or
- (iii) **oneLevel** and **entryOnly** in **ChainingArguments** is set to **TRUE**,

then apply”

Item 5), line 6, replace “**targetObject** created from the **aliasedObjectName** attribute and the old **targetObject** name” with “set **targetObject** to **aliasedObjectName**”.

Second paragraph, to include the omitted step and to incorporate the **entryOnly** argument, delete and replace with the following:

“Set **aliasDereferenced** and **aliasedRDNs** in **ChainingArguments** to **TRUE** and to the number of RDNs in **aliasedObjectName**, respectively.

If the **subset** argument was **oneLevel**, set **entryOnly** to **TRUE** in **ChainingArguments**.”

Page 33

Subclause 18.8

Add the following to the end of the penultimate paragraph:

“When the incoming result has been signed, the DSA shall not act upon the **ContinuationReference** unless an a priori agreement exists between the DSA and the DUA which will receive the result, and any intermediate DSAs. Where such an agreement exists,

- the DSA may explore as described above except the continuation reference shall not be removed from the result;
- any additional results shall be returned as described in 18.9.2;
- the DUA and any intermediate DSAs processing the result shall ignore the referrals contained in the result.”

Page 35

Annex A

EXPORTS production, line 2, delete "DSABind,".

IMPORTS production, line 11, replace "DirectoryBind," with "DirectoryBindArgument, DirectoryBindResult, DirectoryBindError,".

Page 36

Annex A

Replace ASN.1 of DSABind with:

```
DSABind      ::= ABSTRACT-BIND
  TO         { chainedReadPort,
              chainedSearchPort,
              chainedModifyPort }

  BIND
    ARGUMENT      DirectoryBindArgument
    RESULT        DirectoryBindResult
    BIND-ERROR    DirectoryBindError
```

Replace ASN.1 of DSAUnbind with:

```
DSAUnbind    ::= ABSTRACT-UNBIND
  FROM       { chainedReadPort,
              chainedSearchPort,
              chainedModifyPort }
```

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