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Information technology — Open Systems Interconnection — The Directory —

Part 4: Procedures for distributed operation

TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Interconnexion de systèmes ouverts — L'annuaire —
Partie 4: Procédures pour le fonctionnement réparti
RECTIFICATIF TECHNIQUE 1*

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

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Subclause 10.4.1

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

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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,
aliasedRDNs         [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,

```

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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."

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Subclause 12.6.2

Replace the first sentence with the following:

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

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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 }

```

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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."

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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**."

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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:

"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**."

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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."