



**INTERNATIONAL STANDARD ISO/IEC 9594-5 : 1990**  
**TECHNICAL CORRIGENDUM 1**

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# Information technology — Open Systems Interconnection — The Directory —

## Part 5: Protocol specifications

### TECHNICAL CORRIGENDUM 1

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

*Partie 5: Spécification du protocole*

*RECTIFICATIF TECHNIQUE 1*

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## Clause 7

Add a new subclause 7.5 as follows:

### 7.5 Versions and the rules of extensibility

The Directory may be distributed and more than two Directory Application Entities may interoperate to service a request. The Directory AEs may be implemented conforming to the 1988 edition of the specification or some future edition, which may or may not be represented by different version numbers. The version number is negotiated to the highest common version number between two directly binding Directory AEs.

**Note** - for example a version 1 & 2 DUA may bind to a version 1 DSA with a resulting agreed version of 1. That DSA may further bind to a version 1 & 2 DSA with a resulting agreed version of 1. Even though both the DUA and this remote DSA can support version 2, the negotiated versions are 1.

Version negotiation is used only to support those aspects of communication which must be common between the two directly bound Directory AEs.

**Note** - for example, basic understanding of PDU exchange (ROSE), common understanding of name resolution would be aspects that would be agreed through version negotiation.

A DUA may issue a request conforming to the highest level it supports. Using the rules of extensibility defined below, that request shall be forwarded to the appropriate DSA that will respond to that request, regardless of the level of the intervening DSAs. The responding DSA shall function as defined below.

#### 7.5.1 DUA

7.5.1.1 When establishing an association, i.e., binding, utilizing the DAP, the version negotiated shall only affect the point to point aspects of the protocol exchanged between the DUA and the DSA to which it is connected. Subsequent requests on the association shall not be constrained by the version negotiated.

There are no point to point aspects of the DAP that are currently indicated by different versions.

7.5.1.2 The DUA may initiate requests at the highest level version of the specification of that request it supports. If one or more elements of the request are critical, it shall indicate these extensions in the Extension parameter.

7.5.1.3 When processing a known error type with unknown indicated problems and parameters, a DUA shall:

- a) not consider the receipt of unknown indicated problems and parameters as a protocol violation (i.e., it shall not issue a **RO-U-REJECT**); and
- b) optionally report the additional error information to the user.

#### 7.5.2 DSA

7.5.2.1 When accepting an association, i.e., binding, utilizing the DAP, the version negotiated shall only affect the point to point aspects of the protocol exchanged between the DUA and the DSA to which it is connected. Subsequent requests received on the association shall not be constrained by the version negotiated.

There are no point to point aspects of the DAP that are currently indicated by different versions.

7.5.2.2 When establishing or accepting an association, i.e., binding, utilizing the DSP, the version negotiated shall only affect the point to point aspects of the protocol exchanged between the DSA. Subsequent requests or responses on the association shall not be constrained by the version negotiated.

There are no point to point aspects of the DSP that are currently indicated by different versions.

7.5.2.3 If any DSA detects an extension whose semantic is unknown and indicated as Critical, it shall return an **unavailableCriticalExtension** (as a **serviceError** or a **partialOutcomeQualifier**). Otherwise, when processing a Directory PDU a DSA shall:

1. ignore all unknown bit name assignments within a bit string; and
2. ignore all unknown named numbers in an ENUMERATED type or INTEGER that is being used in the enumerated style; and
3. ignore all tag values not defined in the abstract syntaxes of this version of the Directory standard (these may be additional values at the end of a SEQUENCE or unknown types within a SET or CHOICE).

7.5.2.4 If the PDU is a request, the DSA shall forward the request containing the unknown values to any additional DSAs determined by the name resolution process.

7.5.2.5 If the PDU is a response, the DSA shall merge the unknown values as necessary and forward to the initiating DSA or DUA.

7.5.2.6 When processing a known error type with unknown indicated problems and parameters, a DSA shall not consider this a syntax error (i.e., it shall not issue a **RO-U-REJECT**).

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