INTERNATIONAL STANDARD ISO/IEC 9506-1:1990
TECHNICAL CORRIGENDUM 1

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Industrial automation systems — Manufacturing Message Specification —

Part 1:
Service definition

TECHNICAL CORRIGENDUM 1

Systèmes d'automatisation industrielle — Spécification de messagerie industrielle —

Partie 1: Définition de service

RECTIFICATIF TECHNIQUE 1

Technical corrigendum 1 to International Standard ISO/IEC 9506-1:1990 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 5, *Architecture and communications.*

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Subclause 7.2

In the VMD Object model, replace

```
    Attribute: Logical Status (STATE-CHANGES-ALLOWED,
NO-STATE-CHANGES-ALLOWED, LIMITED-SERVICES-PERMITTED,
SUPPORT-SERVICES-ALLOWED)
    Attribute: List Of Capabilities
    Attribute: Physical Status (OPERATIONAL, PARTIALLY-OPERATIONAL,
INOPERABLE, NEEDS-COMMISSIONING)
```

with

```
    Attribute: Logical Status (STATE-CHANGES-ALLOWED,
NO-STATE-CHANGES-ALLOWED, LIMITED-SERVICES-PERMITTED,
SUPPORT-SERVICES-ALLOWED)
    Attribute: Physical Status (OPERATIONAL, PARTIALLY-OPERATIONAL,
INOPERABLE, NEEDS-COMMISSIONING)
```

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```
Attribute: Local Status Detail
Attribute: List Of Capabilities
```

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Subclause 7.2.14

Renumber subclause 7.2.14 as 7.2.15.

Page 24

Subclause 7.2.14

Insert a new subclause:

7.2.14 Local Status Detail

This attribute is a bitstring which represents additional detail about the status of the VMD as specified by the vendor of the device. The maximum length of the bitstring is 128 bits. The contents of this attribute is a local matter and not a subject for further standardization.

Page 25

Subclause 7.3.2

In NOTE line 2, change "semaphonre" to semaphore".

Page 33

Subclause 8.2.3.2

Insert a note at the end of the subclause:

> NOTE — The set of Parameter CBBs used in this parameter only contains those that can be represented by a binary value. The value of the NEST Parameter CBB is conveyed in the Data Structure Nesting Level parameter.

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Subclause 8.2.4.2.

Insert a note at the end of the subclause:

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NOTE — The set of Parameter CBBs used in this parameter only contains those that can be represented by a binary value. The value of the NEST Parameter CBB is conveyed in the Data Structure Nesting Level parameter.

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Subclause 9.2.1.2.3

Replace the text with:

This optional parameter, of type bitstring, shall convey the value of the Local Status Detail attribute of the VMD object. The VMD object is defined in 7.2.

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Subclause 9.4.1.2.2

In the third line, change

"List Of Names"

to

"List Of Identifier"

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Subclause 9.4.2

Replace with the following:

The responding MMS-user shall determine which objects at the responding MMS-user have a name attribute value that satisfies the class and scope specified in the Extended Object Class and Object Scope parameters of the indication service primitive. The responding MMS-user shall return this list of object names in the List Of Identifier parameter of the response service primitive. The elements of the List Of Identifier shall be ordered as determined by the collating sequence of the International Reference Version of ISO 646. If the Continue After parameter is not present in the indication service primitive, the List of Identifier shall begin with the first name, as determined by the collating sequence of the International Reference Version of ISO 646. Otherwise, the List Of Identifier shall begin with the first name after the name specified in the Continue After parameter, using the ordering described above. The More Follows parameter shall be returned with the value determined as described above.

The responding MMS-user shall not issue a Result(-) parameter to indicate that no objects of the requested class and scope exist. Instead, a Result(+) parameter shall be issued with an empty List Of Identifier.

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NOTE — Repeated usage of this service with the Continue After parameter does not guarantee a list that is consistent in time with any other instance of use of this service. This service returns a segment of the list of object names for which the starting point is based on the Continue After parameter.

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Subclause 10.8.1

In table 22, change the List Of Capabilities parameter from "M" to "U".

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Subclause 10.8.1.1.2

Change the text to the following:

This optional parameter, of type list of character string, shall be used, if present, as the value of the List Of Capabilities parameter in the subsequent Initiate Download Sequence service request.

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Subclause 10.8.2

In the second sentence, delete the phrase

, List Of Capabilities.

Insert the following sentence after the second sentence:

If the List Of Capabilities parameter is present in the service indication, then this value shall be used as the value of the parameter of the same name for the Initiate Download Sequence service request; otherwise, the value of this parameter of the Initiate Download Sequence service request shall be a local matter.

Add the following note after this paragraph:

> NOTE 1 — If the Domain Content at the responding MMS-user was the result of a previous Domain Upload, the value of the List Of Capabilities parameter retained from that upload will normally be used as the value of the List Of Capabilities parameter in the Initiate Download Sequence service request.

Change "NOTE" to "NOTE 2".

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Subclause 10.9.2

Add the following sentence after the first sentence:

The value of the List Of Capabilities shall be retained and associated with the load data.

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Subclause 10.10.1

In table 24, change the List Of Capabilities parameter from "M" to "U".

Page 73

Subclause 10.10.1.1.2

Change the text to the following:

This optional parameter, of type list of character string, shall be used, if present, in the creation of the named Domain.

Page 77

Subclause 10.11.2

Add the following sentence after the third sentence:

The value of the List Of Capabilities shall be retained and associated with the load data.

Page 86

Subclause 11.2.1

In table 28, replace "Resusable" with "Reusable".

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Subclause 12.4.3

Insert the following between OBJECT-NON-EXISTANT and the note:

OBJECT-VALUE-INVALID - The proposed value is not consistent with the set of allowable values for this object.

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