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TECHNICAL CORRIGENDUM 4

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Information technology — Open Systems Interconnection — Common management information service definition

TECHNICAL CORRIGENDUM 4

Technologies de l'information — Interconnexion de systèmes ouverts — Définition du service commun d'information de gestion

RECTIFICATIF TECHNIQUE 4

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Append the following annex.

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Annex C
(informative)

Preferred implementations

C.1 Introduction

Some interoperability problems have arisen due to different interpretations of the procedures specified in this International Standard and in ISO/IEC 9596-1 : 1991.

The purpose of this annex is to recommend one consistent interpretation and to notify users that these recommendations may become mandatory requirements in the next revisions of CMIS and CMIP.

Recommendations for preferred implementations are presented in C.2. Commentaries, rationale and associated information are provided by subsequent clauses of this annex.

C.2 Recommendations

C.2.1 If the invoking CMISE-service-user requests that a management operation be performed by a single managed object (i.e. the scope of the operation indicates that only the base object is selected and the filter parameter is absent), then the performing CMISE-service-user may optionally return the managed object class and managed object instance parameters in the response.

C.2.2 If the filter parameter is present or the scope of the operation indicates anything other than the base object alone, it is recommended that for each managed object that performs the operation, that the performing CMISE-service-user includes the managed object class and managed object instance parameters in the response.

NOTE – A conformant implementation of ISO/IEC 9596-1 : 1991 (CMIP version 2) may generate a success confirmation that is indicated by the return of the invoke identifier alone, in response to a request to perform a management operation on a single managed object. The invoking CMISE-service-user is forewarned that this confirmation does not guarantee that the managed object performed the operation, if a filter was specified that evaluated to false.

C.2.3 If the invoking CMISE-service-user requests that a management operation be performed by multiple managed objects (i.e. the scope parameter specifies other than the base object alone), then it is recommended that the performing CMISE-service-user generate a result for the final response that only contains the invoke identifier (to indicate the completion of the entire operation). If this is the only response, then the invoking CMISE-service-user shall assume that no managed object was selected by the scope and optional filter parameters.

C.3 Managed object selection and response issues

C.3.1 Selection of a single managed object

When the base object alone is specified, the service definitions in this International Standard indicate that it is not necessary to include the managed object class and managed object instance parameters in the success response. The rationale is that if there is only one managed object requested to perform the operation, then there is no need to repeat its identity in the response. In addition, the M-SET, M-ACTION and M-DELETE services do not mandate that there be a result parameter in the success confirmation.

C.3.1.1 If no filter parameter is specified and the managed object performs the operation as requested, a success confirmation can be indicated by the return of the invoke identifier parameter alone.

C.3.1.2 If a filter parameter is specified and the filter evaluates to TRUE, and the managed object performs the operation as requested, a success confirmation can be indicated by the return of the invoke identifier parameter alone.

C.3.1.3 If a filter parameter is specified and the filter evaluates to FALSE, and hence the managed object does not perform the operation, there are two possible interpretations predicated on the phrase "if the operation cannot be performed, then the performing CMISE-service-user rejects the M-XXX request by issuing an M-XXX response primitive with the appropriate error code".

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