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Part 5: Incremental enrolment procedures

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Partie 5: Procédures d'enrôlement incrémentiel

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Telecommunications and information exchange between systems — Recursive inter-network architecture —

Part 5: Incremental enrolment procedures

1 Scope

This document defines the procedure executed by a Member of a distributed inter-process communication (IPC) facility (DIF) or distributed application facility (DAF) to initialize a new Member as a fully functioning Member. This document defines the procedure for a new Member to enrol when the new Member was recently a Member of the DIF or DAF. This document is defined for use with DIFs, but it can be used equally well by a DAF that wants to assign synonyms with a scope limited to the DAF.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4396-1, *Telecommunications and information exchange between systems — Recursive Inter-Network Architecture — Part 1: Reference Model*

ISO 4396-2, *Telecommunications and information exchange between systems — Recursive inter-network architecture — Part 2: Common application connection establishment procedure (CACEP)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4396-1 and ISO 4396-2 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Overview of the procedures

Enrolment is the procedure by which an IPC-process joins an existing DIF. Enrolment occurs after an IPC-Process establishes an application connection with another IPC-Process, which is a Member of a DIF. Once the CDAP Connection is established this enrolment procedure may proceed.

This procedure is intended to minimize the amount of data to send to the new Member on the assumption that it had been a Member and lost contact with the DIF, either through a crash or failure of the physical media. Other enrolment procedures are possible.

The Member reads the new Member's address. If null or expired, it assigns a new address; otherwise, it assumes the new Member was very recently a Member. The new Member then reads the information it does not have, taking into account how new it is. These parameters characterize the operation of this DIF and can include parameters, e.g. max PDU size, various time-out ranges, ranges of policies. Once complete, the new Member becomes a Member and this triggers a normal resource information base (RIB) update.

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