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Partie 8: Procédures générales de délimitation RINA

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Foreword

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

Part 8:
RINA general delimiting procedures

1 Scope

This document provides a delimiting module that defines a mechanism for encoding Service Data Units (SDUs), the amount of data passed across the layer boundary within Protocol Data Units (PDUs), the amount of data sent to its peer. It is not necessary to use this document if each PDU carries precisely one SDU.

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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4396-1 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 Detailed specification of the procedure

4.1 General

The delimiting module produces on input, one or more User-Data fields for the error and flow control protocol (EFCP) to create PDUs; and on output, depending on quality of service (QoS) parameters, complete, incomplete, or partial SDUs for the user of the flow. Partial delivery refers to whole SDUs that are delivered incrementally, while incomplete delivery refers to an SDU that can have pieces missing. This implies that partial delivery of incomplete SDUs is possible. The described mechanism covers a range of policy options, allowing fragmentation of SDUs, concatenation of SDUs, and both fragmentation and concatenation of SDUs simultaneously. It also provides additional information needed for delivery despite gaps in the SDU stream, if delivery across a gap is permitted by the QoS-cube for the flow. The delimiting policy may be different between QoS-cubes. This module can be used with several QoS-cubes with different constraints on which flags can appear.

4.2 Syntax

The User Data field of an EFCP Transfer PDU may contain SDU fragments, entire SDUs, or prescribed combinations of the two. The User Data Field syntax is:

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