cat065 category specification

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SDPS Service Status Reports

2020-06-18

CONTENTS:

category: 065

edition: 1.5

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PREAMBLE

Surveillance data exchange.

DESCRIPTION OF STANDARD DATA ITEMS

2.1 I065/000 - Message Type

Definition: This Data Item allows for a more convenient handling of the messages at the receiver side by further defining the type of transaction.

Structure:

- 8 bits [. . . . .]
- values:

    1: SDPS Status
    2: End of Batch
    3: Service Status Report

Notes:

- In application where transactions of various types are exchanged, the Message Type Data Item facilitates the proper message handling at the receiver side.

2.2 I065/010 - Data Source Identifier

Definition: Identification of the system sending the data.

Structure:

I065/010/SAC - *System Area Code*

- 8 bits [. . . . .]
- raw value

I065/010/SIC - *System Identification Code*

- 8 bits [. . . . .]
- raw value

Note:

- The up-to-date list of SACs is published on the EUROCONTROL Web Site (http://www.eurocontrol.int/asterix).

2.3 I065/015 - Service Identification

Definition: Identification of the service provided to one or more users.

Structure:

- 8 bits [. . . . .]
- raw value

Note:

- The service identification is allocated by the SDPS.

2.4 I065/020 - Batch Number

Definition: A number indicating the completion of a service for that batch of track data, from 0 to N-1, N being the number of batches used to make one complete processing cycle.

Structure:

- 8 bits [. . . . .]
- unsigned integer

2.5 I065/030 - Time of Message

Definition: Absolute time stamping of the message, in the form of elapsed time since last midnight, expressed as UTC.

Structure:

- 24 bits [. . . .]
- unsigned quantity
- scaling factor: 1
- fractional bits: 7
- unit: "s"
- LSB = $1/2^7$ s = $1/128$ s ≈ 0.0078125 s

Note:

- The time is reset to zero at every midnight.

2.6 I065/040 - SDPS Configuration and Status

Definition: Status of an SDPS.

Structure:

I065/040/NOGO

- 2 bits [. .]
- values:

    0: Operational
    1: Degraded

2: Not currently connected

3: Unknown

I065/040/OVL

- 1 bit [.]

- values:

0: Default

1: Overload

I065/040/TSV

- 1 bit [.]

- values:

0: Default

1: Invalid Time Source

I065/040/PSS - *Processing System Status*

- 2 bits [. .]

- values:

0: Not applicable

1: SDPS-1 selected

2: SDPS-2 selected

3: SDPS-3 selected

I065/040/STTN - *Track Re-numbering Indication*

- 1 bit [.]

- raw value

> **remark** The STTN bit indicates when track numbering has been restarted. The STTN bit is a toggle bit that changes its value whenever the SDPS system starts re-numbering its tracks. Re-numbering of the track takes place either after SDPS start-up (cold or hot start-up) or when a configuration set has been changed (please note that the latter case is ARTAS specific behaviour and may be different in another SDPS).

I065/040/(spare)

- 1 bit [.]

2.7 I065/050 - Service Status Report

Definition: Report sent by the SDPS related to a service

Structure:

- 8 bits [. . . . .]

- values:

1: Service degradation

2: Service degradation ended

3: Main radar out of service

4: Service interrupted by the operator

5: Service interrupted due to contingency

6: Ready for service restart after contingency
7: Service ended by the operator
8: Failure of user main radar
9: Service restarted by the operator
10: Main radar becoming operational
11: Main radar becoming degraded
12: Service continuity interrupted due to disconnection with adjacent unit
13: Service continuity restarted
14: Service synchronised on backup radar
15: Service synchronised on main radar
16: Main and backup radar, if any, failed

2.8 I065/RE - Reserved Expansion Field

Definition: Expansion

Structure:

Explicit item

2.9 I065/SP - Special Purpose Field

Definition: Special Purpose Field

Structure:

Explicit item

USER APPLICATION PROFILE FOR CATEGORY 065

- (1) `I065/010` - Data Source Identifier
- (2) `I065/000` - Message Type
- (3) `I065/015` - Service Identification
- (4) `I065/030` - Time of Message
- (5) `I065/020` - Batch Number
- (6) `I065/040` - SDPS Configuration and Status
- (7) `I065/050` - Service Status Report
- `(FX)` - Field extension indicator
- (8) `(spare)`
- (9) `(spare)`
- (10) `(spare)`
- (11) `(spare)`
- (12) `(spare)`
- (13) `I065/RE` - Reserved Expansion Field
- (14) `I065/SP` - Special Purpose Field
- `(FX)` - Field extension indicator

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