

Asterix category 065 - SDPS Service Status Reports

category: 065

edition: 1.5

date: 2020-06-18

Preamble

Surveillance data exchange.

Description of standard data items

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.

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>).

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.

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

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"
- $\text{LSB} = 1/2^7 \text{ s} = 1/128 \text{ s} \approx 7.8125e - 3 \text{ s}$

Note:

- The time is reset to zero at every midnight.

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 [.]

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

I065/RE - Reserved Expansion Field

Definition: Expansion

Structure:

Explicit item (RE)

I065/SP - Special Purpose Field

Definition: Special Purpose Field

Structure:

Explicit item (SP)

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