

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.

Element

bit size: 8

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.

Group

I065/010/SAC - System Area Code

Element

bit size: 8

Raw Content

I065/010/SIC - System Identification Code

Element

bit size: 8

Raw Content

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.

Element

bit size: 8

Raw Content

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.

Element

bit size: 8

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.

Element

bit size: 24

Unsigned quantity

LSB = $1/2^7$ s $\approx 7.8125e - 3$ s

unit: "s"

Note:

- The time is reset to zero at every midnight.

I065/040 - SDPS Configuration and Status

definition: Status of an SDPS.

Group

I065/040/NOGO

Element

bit size: 2

Values:

0: Operational

1: Degraded

2: Not currently connected

3: Unknown

I065/040/OVL

Element

bit size: 1

Values:

0: Default

1: Overload

I065/040/TSV

Element

bit size: 1

Values:

0: Default

1: Invalid Time Source

I065/040/PSS - Processing System Status

Element

bit size: 2

Values:

- 0: Not applicable
- 1: SDPS-1 selected
- 2: SDPS-2 selected
- 3: SDPS-3 selected

I065/040/STTN - Track Re-numbering Indication

Element

bit size: 1

Raw Content

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).

Spare bits: 1

I065/050 - Service Status Report

definition: Report sent by the SDPS related to a service

Element

bit size: 8

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

Explicit (ReservedExpansion)

I065/SP - Special Purpose Field

definition: Special Purpose Field

Explicit (SpecialPurpose)

User Application Profile

- 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
- *Spare*
- *Spare*
- *Spare*
- *Spare*
- *Spare*
- 13: I065/RE - Reserved Expansion Field
- 14: I065/SP - Special Purpose Field
- (FX) - Field extension indicator