

# Asterix category 065 - SDPS Service Status Reports

**category:** 065

**edition:** 1.6

**date:** 2023-03-21

## 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