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.

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: 1065/000 Message Type
- 3: I065/015 Service Identification

- 4: 1065/030 Time of Message
- 5: 1065/020 Batch Number
- 6: I065/040 SDPS Configuration and Status
- 7: 1065/050 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