

Asterix category 247 - Version Number Exchange

category: 247

edition: 1.2

date: 2008-02-01

Preamble

Surveillance data exchange.

Description of standard data items

I247/010 - Data Source Identifier

Definition: Identification of the radar station from which the data are received.

Structure:

I247/010/SAC - System Area Code

- 8 bits [.]
- raw value

I247/010/SIC - System Identification Code

- 8 bits [.]
- raw value

Note: The defined SACs are on the EUROCONTROL ASTERIX website (www.eurocontrol.int/asterix)

I247/015 - Service Identification

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

Structure:

- 8 bits [.]
- raw value

The service identification is allocated by the system.

I247/140 - Time of Day

Definition: Absolute time stamping expressed as UTC.

Structure:

- 24 bits [.]
- unsigned quantity
- scaling factor: 1
- fractional bits: 7
- unit: "s"
- $LSB = 1/2^7 \text{ s} = 1/128 \text{ s} \approx 7.8125e-3 \text{ s}$

The time of day value is reset to zero each day at midnight.

I247/550 - Category Version Number Report

Definition: Version number of Categories used.

Structure:

Repetitive item, repetition factor 8 bits.

I247/550/CAT - Category

- 8 bits [.]
- unsigned integer

I247/550/MAIN - Main Version Number

- 8 bits [.]
- unsigned integer

I247/550/SUB - Sub Version Number

- 8 bits [.]
- unsigned integer

I247/RE - Reserved Expansion Field

Definition: Expansion

Structure:

Explicit item (RE)

I247/SP - Special Purpose Field

Definition: Special Purpose Field

Structure:

Explicit item (SP)

User Application Profile for Category 247

- (1) I247/010 - Data Source Identifier
- (2) I247/015 - Service Identification
- (3) I247/140 - Time of Day
- (4) I247/550 - Category Version Number Report
- (5) (spare)
- (6) I247/SP - Special Purpose Field
- (7) I247/RE - Reserved Expansion Field
- (FX) - Field extension indicator