Asterix category 247 - Version Number Exchange

category: 247
edition: 1.3
date: 2021-08-31

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
- unit: "s"
- LSB = $1/2^7$ s $\approx 7.81e-3$ 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

Notes:

1. The Version Number corresponds to the Edition of the ASTERIX Category specification
2. The version number(s) corresponding to the Edition of the ASTERIX Category Reserved Expansion Field(s) can be specified in the REF.
3. The version number(s) corresponding to the Edition of the ASTERIX Category Special Purpose Field(s) may be specified in the SPF.

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