



cat247 category specification

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Version Number Exchange

2008-02-01

CONTENTS:

1	Preamble	3
2	Description of standard data items	5
2.1	I247/010 - Data Source Identifier	5
2.2	I247/015 - Service Identification	5
2.3	I247/140 - Time of Day	5
2.4	I247/550 - Category Version Number Report	6
2.5	I247/RE - Reserved Expansion Field	6
2.6	I247/SP - Special Purpose Field	6
3	User Application Profile for Category 247	7
4	Indices and tables	9

category: 247

edition: 1.2

date: 2008-02-01

PREAMBLE

Surveillance data exchange.

DESCRIPTION OF STANDARD DATA ITEMS

2.1 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)

2.2 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.

2.3 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"

- $\text{LSB} = 1/2^7 \text{ s} = 1/128 \text{ s} \approx 0.0078125 \text{ s}$

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

2.4 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

2.5 I247/RE - Reserved Expansion Field

Definition: Expansion

Structure:

Explicit item

2.6 I247/SP - Special Purpose Field

Definition: Special Purpose Field

Structure:

Explicit item

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

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`