Asterix expansion 062 - Coding rules for Reserved Expansion Field

category: 062

edition: 1.2

date: 2011-06-01

FSPEC byte size: 1

Items

CST - Contributing Sensors With Local Tracknumbers

definition: List of Sensors contributing to the system track and providing a local track-number

Repetitive

Regular, 1 byte(s) REP field size.

Group

CST/SAC - System Area Code

Element
bit size: 8
Raw Content

CST/SIC - System Identification Code

Element
bit size: 8
Raw Content

Spare bits: 4

CST/TYP

Element
bit size: 4
Values:
0: No detection
1: Single PSR detection
2: Single SSR detection
3: SSR+PSR detection
4: Single Mode S All-Call
5: Single Mode S Roll-Call
6: Mode S All-Call + PSR
7: Mode S Roll-Call + PSR
8: ADS-B
9: WAM

CST/LTN - Local Track Number

Element
bit size: 16
Raw Content

CSN - Contributing Sensors No Local Tracknumbers

definition: List of Sensors contributing to the system track and not providing a local track-number

Repetitive

Regular, 1 byte(s) REP field size.

Group

CSN/SAC - System Area Code

> Element
> bit size: 8
> Raw Content

CSN/SIC - System Identification Code

> Element
> bit size: 8
> Raw Content

Spare bits: 4

CSN/TYP

> Element
> bit size: 4
> Values:
>> **0:** No detection
>> **1:** Single PSR detection
>> **2:** Single SSR detection
>> **3:** SSR+PSR detection
>> **4:** Single Mode S All-Call
>> **5:** Single Mode S Roll-Call
>> **6:** Mode S All-Call + PSR
>> **7:** Mode S Roll-Call + PSR
>> **8:** ADS-B
>> **9:** WAM

TVS - Calculated Track Velocity Relative to System Reference Point

definition: Calculated track velocity expressed in Cartesian co-ordinates relative to the system reference point, in two's complement form.

Group

TVS/VX

> Element
> bit size: 16
> Signed quantity
> LSB = $1/2^2$ m/s $\approx$ 0.25 m/s
> unit: "m/s"
> >= -8192.0
> <= 8191.75

TVS/VY

> Element
> bit size: 16
> Signed quantity
> LSB = $1/2^2$ m/s $\approx$ 0.25 m/s
> unit: "m/s"
> >= -8192.0
> <= 8191.75

Note: The y-axis points to the Geographical North at the system reference point as available in the Reserved Expansion Field of category 065.

STS - Supplementary Track Status

definition: Track status information to be transmitted in addition to the information available in data item I062/080 (Track Status).

Extended

STS/FDR - Flight Data Retained

Element
bit size: 1
Values:

0: Flight plan data from active FDPS
1: Flight plan data retained from no longer active FDPS

Spare bits: 6
(FX) - extension bit