

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
 $\text{LSB} = 1/2^2 \text{ m/s} \approx 0.25 \text{ m/s}$
unit: "m/s"
 ≥ -8192.0
 ≤ 8191.75

TVS/VY

Element
bit size: 16
Signed quantity
 $\text{LSB} = 1/2^2 \text{ m/s} \approx 0.25 \text{ m/s}$
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1: Flight plan data retained from no longer active FDPS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