

# Asterix category 025 - CNS/ATM Ground System Status Reports

**category:** 025

**edition:** 1.5

**date:** 2021-07-01

## Preamble

Surveillance data exchange.

## Description of standard data items

### I025/000 - Report Type

definition: This Data Item allows for a more convenient handling of the reports at the receiver side by further defining the type of transaction.

Group

#### I025/000/RTYP - Report Type

Element

bit size: 7

Raw Content

#### I025/000/RG - Report Generation

Element

bit size: 1

Values:

**0:** Periodic Report

**1:** Event Driven Report

Notes:

1. In applications where transactions of various types are exchanged, the Report Type Data Item facilitates the proper report handling at the receiver side.
2. All Report Type values are reserved for common standard use.
3. **The following set of Report Types are standardised for Category 025 records:**
  - 001 Service and System Status report (see 4.5.1.1. above)
  - 002 Component Status report (see 4.5.1.2. above)
  - 003 Service Statistics report (see 4.5.1.3. above)
4. The list of items present for the three report types is defined in the following table. M stands for mandatory, O for optional, X for never present.

:

Item	001	002	003
I025/000	M	M	M
I025/010	M	M	M
I025/015	M	X	M
I025/020	O	X	O
I025/070	M	M	M
I025/100	O	X	X
I025/105	O	X	X
I025/120	O	M	X
I025/140	X	X	M

I025/200	0	0	0
I025/600	0 (See Note)	0	X
I025/610	0 (See Note)	0	X

5. With Edition 1.3 of this specification the Encoding Rules for Data Item I025/600 and I025/610 in Message Type 001 have been changed from “Mandatory” to “Optional”. Before changing the data source such that the encoding of these Data Items is changed from “included” to “not included” it needs to be ensured that downstream systems do not apply “Mandatory Item Checks”. Otherwise this may lead to suppression of the Category 025 Record by the receiving system.

## **I025/010 - Data Source Identifier**

definition: Identification of the Ground System from which the data is received.

Group

### **I025/010/SAC - System Area Code**

Element

bit size: 8

Raw Content

### **I025/010/SIC - System Identification Code**

Element

bit size: 8

Raw Content

Notes:

1. The up-to-date list of SACs is published on the EUROCONTROL Web Site (<http://www.eurocontrol.int/asterix>).
2. The SICs are allocated by the national authority responsible for the surveillance infrastructure.

## **I025/015 - Service Identification**

definition: Identifies the service being reported.

Element

bit size: 8

Raw Content

**Note:**

- The service identification is allocated by the system.

## **I025/020 - Service Designator**

definition: Designator of the service being reported.

Element

bit size: 48

ICAO string (6-bits per char)

Notes:

1. bits-48/1 Service Designator. Characters 1-8 (coded on 6 Bits each) defining the text readable designator for each Service. Each character of the service designator is encoded as defined below (see ICAO Annex 10, Volume IV, page 3-77, table 3-9): :

.	.	.	.	b6	0	0	1	1
.	.	.	.	b5	0	1	0	1
b4	b3	b2	b1					
0	0	0	0			P	SP	0
0	0	0	1		A	Q		1
0	0	1	0		B	R		2
0	0	1	1		C	S		3
0	1	0	0		D	T		4
0	1	0	1		E	U		5
0	1	1	0		F	V		6
0	1	1	1		G	W		7
1	0	0	0		H	X		8
1	0	0	1		I	Y		9
1	0	1	0		J	Z		
1	0	1	1		K			
1	1	0	0		L			
1	1	0	1		M			
1	1	1	0		N			
1	1	1	1		O			

SP 1 = SPACE code For each character the following bit numbering convention shall be observed:

b6 b5 b4 b3 b2 b1

2. Assignments of Service designators to specific services/systems and interpretation of these fields are implementation dependent.
3. Examples of Service Designators are "1090ADSB", "WAM", "1090TISB", etc.
4. Multiple Service Type Designators may be used to describe a single service where applicable

## I025/070 - Time of Day

definition: Absolute time stamping expressed as UTC time.

Element

bit size: 24

Unsigned quantity

LSB =  $1/2^7$  s  $\approx 7.8125e-3$  s

unit: "s"

### Note:

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

## I025/100 - System and Service Status

definition: Information concerning the status of the Service Volume.

Extended

### I025/100/NOGO

Element

bit size: 1

Values:

**0:** Data is released for operational use

**1:** Data must not be used operationally

### I025/100/OPS

Element

bit size: 2

Values:

- 0: Operational
- 1: Operational but in Standby
- 2: Maintenance
- 3: Reserved for future use

#### **I025/100/SSTAT**

Element

bit size: 4

Values:

- 0: Running
- 1: Failed
- 2: Degraded
- 3: Undefined
- 4: Reserved for future use
- 5: Reserved for future use
- 6: Reserved for future use
- 7: Reserved for future use
- 8: Reserved for future use
- 9: Reserved for future use
- 10: Reserved for future use
- 11: Reserved for future use
- 12: Reserved for future use
- 13: Reserved for future use
- 14: Reserved for future use
- 15: Reserved for future use

*(FX) - extension bit*

Spare bits: 1

#### **I025/100/SYSTAT**

Element

bit size: 3

Values:

- 0: Running / OK
- 1: Failed
- 2: Degraded
- 3: Undefined
- 4: Reserved for future use
- 5: Reserved for future use
- 6: Reserved for future use
- 7: Reserved for future use

#### **I025/100/SESTAT**

Element

bit size: 3

Values:

- 0: OK
- 1: Failed
- 2: Degraded
- 3: Undefined
- 4: Reserved for future use
- 5: Reserved for future use
- 6: Reserved for future use
- 7: Reserved for future use

*(FX) - extension bit*

Notes:

1. Bit 8 (NOGO), when set to "1" indicates that the data transmitted by the system/service is not released for operational use. This indication is independent from the status of the system itself or that of the service. It just indicates that the system or service volume output must not be used

- for operational services but may be used for, e.g. test and validation purposes. The indication GO/NO-GO indicates a mode of the system rather than a status. Usually this bit will be set by operator input.
2. Bit 7/6 (OPS), when set to "1" indicates that the service is running but not operationally used (e.g. for a standby system in a redundant configuration).
  3. Bits 5/2 (SSTAT): This information informs about the state of the overall service volume status. The actual implementation of this field is service dependent and should be described in the system/service specification. However, it is expected that - as far as this information is available - a mapping is performed between the states of individual components as reported in data item I025/120. As an example, if one component fails but the system is still operational (at least partially), the service status should change to "Degraded".
  4. To bit 7 (ERR): This bit set to "1" indicates that the range of the target is beyond the maximum range in data item I048/040. In this case - and this case only - the ERR Data Item in the Reserved Expansion Field shall provide the range value of the Measured Position in Polar Coordinates.
  5. This octet allows to separate reporting of the system and the service status as in particular in distributed systems it is possible that the degraded system state may not have an impact on the service state. For reasons of backwards compatibility (for systems that are not yet capable to decode the first extension), the system and service status shall be propagated to the field SSTAT in the primary part of I025/100, bits 5/2 according to the following table: :

SeSTAT	SySTAT	SSTAT
0	0	0
0	1	1
0	2	2
0	3	1
1	0	1
1	1	1
1	2	1
1	3	1
2	0	2
2	1	1
2	2	2
2	3	1
3	0	1
3	1	1
3	2	1
3	3	1

The value of 3 'Undefined' is assumed to represent that the status cannot be determined. This inherently indicates a failure in system monitoring. Therefore, a value of 3 'Undefined' is equivalent to 1 'Failed', leading to rejection of data and prompting maintenance/operator investigation to occur.

The population of SSTAT is determined to be the worst-case combination of SeSTAT and SySTAT, taking into account Note 1, where the hierarchy of best to worst case is as follows: Running, Degraded, Failed.

## I025/105 - System and Service Error Codes

definition: Error Status of the System and the Service.

Repetitive

Regular, 1 byte(s) REP field size.

Element

bit size: 8

Values:

- 0:** No error detected (shall not be sent)
- 1:** Error Code Undefined
- 2:** Time Source Invalid
- 3:** Time Source Coasting
- 4:** Track ID numbering has restarted
- 5:** Data Processor Overload
- 6:** Ground Interface Data Communications Overload
- 7:** System stopped by operator
- 8:** CBIT failed
- 9:** Test Target Failure
- 10:** Reserved for allocation by the AMG
- 11:** Reserved for allocation by the AMG
- 12:** Reserved for allocation by the AMG
- 13:** Reserved for allocation by the AMG
- 14:** Reserved for allocation by the AMG
- 15:** Reserved for allocation by the AMG
- 16:** Reserved for allocation by the AMG
- 17:** Reserved for allocation by the AMG
- 18:** Reserved for allocation by the AMG
- 19:** Reserved for allocation by the AMG
- 20:** Reserved for allocation by the AMG
- 21:** Reserved for allocation by the AMG
- 22:** Reserved for allocation by the AMG
- 23:** Reserved for allocation by the AMG
- 24:** Reserved for allocation by the AMG
- 25:** Reserved for allocation by the AMG
- 26:** Reserved for allocation by the AMG
- 27:** Reserved for allocation by the AMG
- 28:** Reserved for allocation by the AMG
- 29:** Reserved for allocation by the AMG
- 30:** Reserved for allocation by the AMG
- 31:** Reserved for allocation by the AMG
- 32:** Reserved for allocation by system manufacturers
- 33:** Reserved for allocation by system manufacturers
- 34:** Reserved for allocation by system manufacturers
- 35:** Reserved for allocation by system manufacturers
- 36:** Reserved for allocation by system manufacturers
- 37:** Reserved for allocation by system manufacturers
- 38:** Reserved for allocation by system manufacturers
- 39:** Reserved for allocation by system manufacturers
- 40:** Reserved for allocation by system manufacturers
- 41:** Reserved for allocation by system manufacturers
- 42:** Reserved for allocation by system manufacturers
- 43:** Reserved for allocation by system manufacturers
- 44:** Reserved for allocation by system manufacturers
- 45:** Reserved for allocation by system manufacturers
- 46:** Reserved for allocation by system manufacturers
- 47:** Reserved for allocation by system manufacturers
- 48:** Reserved for allocation by system manufacturers
- 49:** Reserved for allocation by system manufacturers
- 50:** Reserved for allocation by system manufacturers
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- 53:** Reserved for allocation by system manufacturers
- 54:** Reserved for allocation by system manufacturers
- 55:** Reserved for allocation by system manufacturers
- 56:** Reserved for allocation by system manufacturers
- 57:** Reserved for allocation by system manufacturers

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**241:** Reserved for allocation by system manufacturers  
**242:** Reserved for allocation by system manufacturers  
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**248:** Reserved for allocation by system manufacturers  
**249:** Reserved for allocation by system manufacturers  
**250:** Reserved for allocation by system manufacturers  
**251:** Reserved for allocation by system manufacturers  
**252:** Reserved for allocation by system manufacturers  
**253:** Reserved for allocation by system manufacturers  
**254:** Reserved for allocation by system manufacturers  
**255:** Reserved for allocation by system manufacturers

Notes:

1. The Warning & Error codes contain information about the reason why the System and Service State (SSTAT in item I025/100) is different from "running".
2. A time source is considered as valid when either externally synchronised or running on a local oscillator within the required accuracy of UTC.
3. A value of 4 indicates that the allocation of Track-IDs was re-started.
4. Multiple error codes can be transmitted within the same ASTERIX record.
5. Error codes in the range 0 to 31 shall be allocated centrally by the AMG. Error codes in the range from 32 to 255 are available for specification by the system manufacturers. They are not standardised and shall be described in the Interface Control Document (ICD) of the respective system.

## **I025/120 - Component Status**

definition: Indications of status of various system components and, when applicable, error codes.

Repetitive

Regular, 1 byte(s) REP field size.

Group

### **I025/120/CID - Component ID**

Element

bit size: 16

Raw Content

### **I025/120/ERRC - Error Code**

Element

bit size: 6

Values:

- 0:** No Error Detected
- 1:** Error Code Undefined
- 2:** Reserved for allocation by the AMG
- 3:** Reserved for allocation by the AMG
- 4:** Reserved for allocation by the AMG
- 5:** Reserved for allocation by the AMG
- 6:** Reserved for allocation by the AMG
- 7:** Reserved for allocation by the AMG
- 8:** Reserved for allocation by the AMG
- 9:** Reserved for allocation by the AMG
- 10:** Reserved for allocation by the AMG
- 11:** Reserved for allocation by the AMG

12: Reserved for allocation by the AMG  
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15: Reserved for allocation by the AMG  
16: Reserved for allocation by system manufacturers  
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22: Reserved for allocation by system manufacturers  
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63: Reserved for allocation by system manufacturers

#### **I025/120/CS - Component State/Mode**

Element

bit size: 2

Values:

- 0: Running
- 1: Failed
- 2: Maintenance
- 3: Reserved

**Note:**

- Error codes in the range 2 to 15 shall be allocated centrally by the AMG. Error codes in the range from 16 to 63 are available for specification by the system manufacturers. They are not standardised and shall be described in the Interface Control Document (ICD) of the respective system.

**I025/140 - Service Statistics**

definition: Statistics concerning the service. Provides counts of various message types that have been received since the report was last sent.

Repetitive

Regular, 1 byte(s) REP field size.

Group

**I025/140/TYPE - Type of Report Counter**

Element

bit size: 8

Values:

- 0:** Number of unknown messages received
- 1:** Number of too old messages received
- 2:** Number of failed message conversions
- 3:** Total Number of messages received
- 4:** Total number of messages transmitted
- 5:** Reserved for AMG
- 6:** Reserved for AMG
- 7:** Reserved for AMG
- 8:** Reserved for AMG
- 9:** Reserved for AMG
- 10:** Reserved for AMG
- 11:** Reserved for AMG
- 12:** Reserved for AMG
- 13:** Reserved for AMG
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- 16:** Reserved for AMG
- 17:** Reserved for AMG
- 18:** Reserved for AMG
- 19:** Reserved for AMG
- 20:** Implementation specific
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#### **I025/140/REF - Reference from which the Messages Are Counted**

Element

bit size: 1

Values:

**0:** From UTC midnight

**1:** From the previous report

Spare bits: 7

#### **I025/140/COUNT - Counter Value**

Element

bit size: 32

Unsigned integer

#### **Note:**

- There is no special significance attributed to the numbering of the TYPE field. However the range from 0 to 19 is intended to cover generic messages which may be applicable to many types of service.

#### **I025/200 - Message Identification**

definition: Identification of a unique message.

Element

bit size: 24

Unsigned integer

Notes:



1. The Message Identification Number is to be used to uniquely identify each message. If messages are being sent on redundant links then this number shall be identical for the same message on each link. This will allow the receiver to easily identify and discard duplicate messages.
2. It is not required that Message Identification Numbers be assigned in ascending order by time of message transmission.

### **I025/600 - Position of the System Reference Point**

definition: Position of the reference point in WGS-84 Coordinates.

Group

#### **I025/600/LAT - Latitude**

Element

bit size: 32

Signed quantity

LSB =  $180/2^{32} \text{ }^\circ \approx 4.1909515857696533203125e - 8 \text{ }^\circ$

unit: "°"

$\geq -90.0$

$< 90.0$

#### **I025/600/LON - Longitude**

Element

bit size: 32

Signed quantity

LSB =  $180/2^{32} \text{ }^\circ \approx 4.1909515857696533203125e - 8 \text{ }^\circ$

unit: "°"

$\geq -180.0$

$< 180.0$

Notes:

- Positive longitude indicates East. Positive latitude indicates North.

### **I025/610 - Height of the System Reference Point**

definition: Height of the system reference point in two's complement form. The height shall use mean sea level as the zero reference level.

Element

bit size: 16

Signed quantity

LSB =  $1/2^2 \text{ m} \approx 0.25 \text{ m}$

unit: "m"

$\geq -8192.0$

$\leq 8191.75$

Notes:

- Item I025/610 shall only be sent together with item I025/600 "Position of the System Reference Point".

### **I025/SP - Special Purpose Field**

definition: Special Purpose Field

Explicit (SpecialPurpose)

## User Application Profile

- 1: I025/010 - Data Source Identifier
- 2: I025/000 - Report Type
- 3: I025/200 - Message Identification
- 4: I025/015 - Service Identification
- 5: I025/020 - Service Designator
- 6: I025/070 - Time of Day
- 7: I025/100 - System and Service Status
- (FX) - Field extension indicator
- 8: I025/105 - System and Service Error Codes
- 9: I025/120 - Component Status
- 10: I025/140 - Service Statistics
- 11: I025/SP - Special Purpose Field
- 12: I025/600 - Position of the System Reference Point
- 13: I025/610 - Height of the System Reference Point
- *Spare*
- (FX) - Field extension indicator