

---

**ASTERIX-Category 128:**

ASTERIX data category 128 is reserved for exchange of C<sup>3</sup>I messages between radarstations and (or) track servers.

The common structure of category 128 is following:

CAT	LEN	FSPEC	Data Items ....
-----	-----	-------	-----------------

- CAT = 128 (length = 1 byte)
- LEN = 2 byte length information
- FSPEC **2** byte in length at the moment

The layout of the FSPEC for category 128 is following:

FRN	DATA ITEM	PRESENCE	LENGTH
1	I128/010: SAC/SIC (Transmitter)	compulsory	2
2	I128/020: SAC/SIC (Receivers)	compulsory	variabel
3	I128/030: data item	optional	4
4	I128/040: data item	optional	4
5	I128/050: data item	optional	variabel
6	I128/060: data item	optional	variabel
7	I128/070: data item	optional	4
FX	extension bit		
8	I128/080: data item	optional	variabel
9	I128/090: data item	optional	variabel
10	I128/100: data item	optional	variabel
11	I128/110: data item	optional	variabel
12	I128/120: data item	optional	variabel
13	I128/130: data item	optional	variabel
14	I128/140: data item	optional	variabel
FX	Bit is 0 (future use)		

**I128/010 Data source Id. of transmitter:**

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
SAC								SIC							

**I128/020 Data source Id of receivers:** The Data Item I128/020 is a repetitive data field and contains the SAC/SIC of N receivers where N is greater equal 1.

Oct.no.1	Oct.no.2	Oct.no.3	.....	Oct.no.N*2	Oct.no. N*2+1
N	SAC/SIC of 1st rec.	.....		SAC/SIC of Nth receiver	

**Data Item I128/030:** The data item I128/030 has a fixed length of 4 Octets.

**Data Item I128/040:** The data item I128/040 has a fixed length of 4 Octets.

**Data Item I128/050:** The data item I128/050 is a repetitive data field and contains N elements where N is greater equal 1. One element is 6 Octets in length.

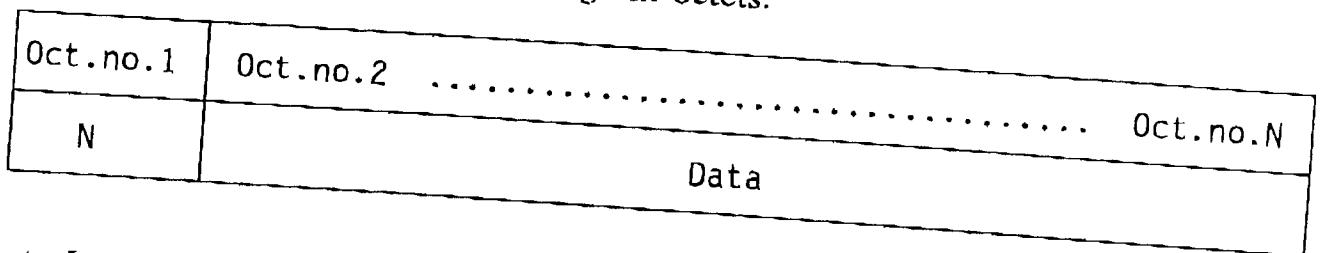
Oct.no.1	Oct.no.2...Oct.no.7	.....	Oct.no.N*6-4..Oct.no.N*6+1
N	1st Element	.....	Nth Element

**Data Item I128/060:** The data item I128/060 is a repetitive data field and contains N elements where N is greater equal 3. One element is 4 Octets in length.

Oct.no.1	Oct.no.2...Oct.no.5	.....	Oct.no.N*4-2..Oct.no.N*4+1
N	1st Element	.....	Nth Element

**Data Item I128/070:** The data item I128/070 is a data field with a fixed lenght of 4 Octets.

**Data Item I128/080:** The data item I128/080 is an explicit length data field. The Octet.no.1 contains the total field length in octets.



**Data Item I128/090:** The data item I128/090 is of same type as data item I128/080.

**Data Item I128/100:** The data item I128/100 is of same type as data item I128/080.

**Data Item I128/110:** The data item I128/110 is of same type as data item I128/080.

**Data Item I128/120:** The data item I128/120 is of same type as data item I128/080.

**Data Item I128/130:** The data item I128/130 is of same type as data item I128/080.

**Data Item I128/140:** The data item I128/140 is of same type as data item I128/080.