

FRENCH REPORT to ISO/TC20/SC13
submitted by CNES on behalf of AFNOR
Darmstadt, April 2012

1 – MANAGEMENT:

1-1 ORGANIZATION

No change.

1-2 AREA OF AGENCY INVOLVEMENT

Global, for category A missions.

1-3 MANPOWER ALLOTTED TO TC-20/SC-13

Tentatively maintained to 0.1 man x year on the SC-13 specifics.

In the order of 4 to 5 FTE in the CCSDS activities.

2 – IMPLEMENTATION ACTIVITIES

2-1 SPACECRAFT UTILIZING SC13 STANDARDS FOR TLM / CMD

All CNES satellites make use of CCSDS / SC13 standards, at least partially.

Product lines Proteus and Myriade make use of Space Link Standards. Future product lines, ISIS and Myriade Evolution will be compliant on the Space Link and the Space Link Extension.

Four ELISA satellites, belonging to the Myriade series, were launched in December 2011.

PLEIADES satellite was launched in December 2011 and already makes use of the same CCSDS standards.

2-2 GROUND FACILITIES UTILIZING SC-13 STANDARDS

Implementation of CCSDS standards (RF&Modulation, Packet TM&TC, OPM, SLE transfer services) is qualified in all CNES Ground Stations. The provider side is now fully available from CNES Networks.

The future generic Ground Segments of CNES, developed in coordination with the ISIS generic bus, will also comply with the core Mission Operations standards.

3 – DOCUMENTATION ACTIVITIES

3-1 ADOPTION OF SC13 STANDARDS AT FRANCE NATIONAL LEVEL

Ballots completed since SC-13 meeting in Moscow (Fall 2011):

REFERENCE	TITLE	STADE	DATE OF RESPONSE	CNES RESPONSE	CORRESPONDENCE IN CCSDS
ISO 22641 ED.2	TM synchronization and channel coding	DIS	23/03/12	Approval without comment	CCSDS 131.0-B-2

ISO 17807 ED.1	Asynchronous message service	DIS	06/04/12	Approval without comment	CCSDS 735.1-B-1
ISO 17808 ED.1	Telemetry TM channel coding profiles	DID	06/04/12	Approval without comment	CCSDS 131.4-M-1
ISO 17809 ED.1	Delta-differential one-way ranging (Delta-DOR) operations	DIS	06/04/12	Approval without comment	CCSDS 506.0-M-1
ISO 17810 ED.1	Data transmission and pseudo-random noise (PN) ranging for 2 GHZ CDMA link via data relay satellite	DIS	06/04/12	Approval without comment	CCSDS 415.1-B-1

In progress :

ISO Reference	Title	Status	Expected response	CCSDS Reference
None in the period				

3-2 TRANSLATIONS

None in the period

4 – MISCELLANEOUS

4-1 Documents

No report.

4-2 Liaisons

No report.

4-3 Other

The SC13 meeting of Spring 2013 will be hosted by CNES in Toulouse. Details will be provided within a few months.

Respectfully submitted: **Jean-Marc Soula, CNES, French Representative to ISO-TC20-SC13 on behalf of AFNOR - BNAE.**