

FRENCH REPORT to ISO/TC20/SC13
submitted by CNES on behalf of AFNOR
Nagano, Japan, May 2015

1 – MANAGEMENT:

1-1 ORGANIZATION

No organization 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 French satellites make use of CCSDS / SC13 standards, at least partially.

CNES product lines Proteus and Myriade make use of Space Link Standards.

The new product lines, ISIS and Myriade Evolution, will be compliant with the Space Link and the Space Link Extension standards. All future CNES projects will be SLE compliant on the user side.

2-2 GROUND FACILITIES UTILIZING SC-13 STANDARDS

Implementation of CCSDS / SC13 standards (RF&Modulation, Packet TM&TC, OPM, SLE transfer services) is qualified in all CNES Ground Stations. The provider side is fully available from CNES Networks.

The generic ground segment which is part of both the ISIS and the Myriade Evolution product lines is progressing in development phases, confirming SLE and embarking on Mission Operations core standards. From its delivery date, future missions will fully comply to CCSDS / SC13 standards on the user side.

3 – DOCUMENTATION ACTIVITIES

3-1 ADOPTION OF SC13 STANDARDS AT FRANCE NATIONAL LEVEL

Ballots completed since SC-13 meeting in London, UK (Fall 2014):

| REFÉRENCE | TITLE | STATUS | RESPONSE DATE | RÉPONSE | CCSDS BOOK |
|-----------|---|--------|---------------|----------|-----------------|
| ISO 20104 | Producer-Archive Interface Specification (PAIS) | DIS | 19/12/14 | Approval | CCSDS 651.1-B-1 |
| ISO 20105 | Operation of CFDP over encapsulation service | DIS | 19/12/14 | Approval | CCSDS 722.1-M-1 |
| ISO 20106 | Mission operations common object model | DIS | 19/12/14 | Approval | CCSDS 521.1-B-1 |

| | | | | | |
|------------------|--|-----|----------|----------|------------------------|
| ISO 20107 | Spacecraft onboard interface services -- Device virtualization service | DIS | 19/12/14 | | CCSDS 871.2-M-1 |
| ISO 22663 | Proximity-1 space link protocol -- Data link layer | DIS | 19/12/14 | Approval | CCSDS 211.0-B-5 |
| ISO 21460 | Proximity-1 space link protocol -- Physical layer | DIS | 19/12/14 | Approval | CCSDS 211.1-B-4 |
| ISO 21459 | Proximity-1 space link protocol -- Coding and synchronization sublayer | DIS | 19/12/14 | Approval | CCSDS 211.2-B-2 |
| ISO 18423 | Pseudo-Noise (PN) Ranging Systems | DIS | 19/12/14 | Approval | CCSDS 414.1-B-2 |

In progress :

| ISO Reference | Title | Status | Expected response | CCSDS Reference |
|----------------------|--------------|---------------|--------------------------|------------------------|
| | | | | |

3-2 TRANSLATIONS

None in the period

4 – MISCELLANEOUS

4-1 Documents

N1505 = Missing information on the ballots for minor revisions of documents (Corrigenda in CCSD): what is the process supposed to be ?

4-2 Liaisons

No report.

4-3 Other

CNES expresses his warmest thanks to NASA And JPL for hosting and supporting the Spring 2015 Working Group meetings.

CNES expresses his warmest thanks to JAXA for hosting and supporting the CCSDS Management / ISO-TC20-SC13 meetings.

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