

CNES REPORT – ISO/TC20/SC13 RESTON – OCTOBER 2005

1 – MANAGEMENT:

1-1 ORGANIZATION

Changes in CNES organization: Mr Yves Trempat (CNES/IGQ) will be replaced by Mr Alain Cuquel on Nov. 01 as General Inspector in charge of Quality and Standardization.

1-2 AREA OF AGENCY INVOLVEMENT

Global.

1-3 MANPOWER ALLOTTED

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

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 are included for Space Link Standards. The upcoming Pleiades mission will make use of the CCSDS standards and SLE transfer services.

Calipso satellite, belonging to the Proteus series, is to be launched in November 2005.

2-2 GROUND FACILITIES UTILIZING SC-13 STANDARDS

The Provider Gateway for SLE transfer services was qualified. This will be used in cross support configurations with other European agencies in 2006.

Implementation of CCSDS standards (RF&Modulation, Packet TM&TC, OPM, SLE transfer services) are in progress (implementation phase) under an approved project on a global harmonization of CNES ground segments, from multimission thru product lines (Proteus and Myriade). As part of this project, the development of a User Gateway for SLE transfer services was decided and the product should become available by end 2005. This project plans for a progressive implementation in the longer term (2005 – 2008); one of the next steps concerns SLE transfer services at ground stations level in a later phase (2006). Other components of relevance in this project include a front end for management of external SLE Management interfaces.

The satellite control center for the Pleiades satellites (first launch by end of 2008) will be based on SLE interfaces: Design phase in progress.

3 – DOCUMENTATION ACTIVITIES

3-1 ADOPTION OF SC13 STANDARDS AT NATIONAL LEVEL

Ballots performed since last SC-13 meeting in Athens:

- **ISO IS 20652** Space data and information transfer systems -- Producer-Archive Interface -- Methodology Abstract Standard (document CCSDS 651.0-B1).

- **ISO IS 22670** Space data and information transfer systems - Space link extension (SLE) - Return – Channel Frames services (document CCSDS 911.2-B-1)

- **ISO DIS 22663** Space data and information transfer systems - Proximity - 1 Space link protocol - Data link layer (CCSDS 211.0-B-3)

In progress with a due date of December 2005:

- **ISO/DIS 22672:** Space data and information transfer systems-Space link extension (SLE) - Forward space packet (CCSDS 912.3-B-1)

- **ISO/DIS 22644:** Space data and information transfer systems-Orbit data messages (CCSDS 502.0-B-1)

Question:

What is the status of ballots on ISO side on the following documents, all belonging to the F04-R02 resolution of SC-13 together with ISO 22670 and 22672 ?

SLE Return All Frames (ISO 22669)	B-2 version
SLE Forward CLTU (ISO 22671)	B-2 version
SLE Return Operational Control Fields	B-1 version

3-2 TRANSLATION

None for new documents to be submitted to ISO.