

## German report for the 41th meeting of the ISO/Technical Committee 20/Subcommittee 13

### DIS votes during the reported time interval (gray ones covered already by the intermediate report during the Moscow meeting)

For the following documents (xx) came up for ISO acceptance, either as new standards or for a systematic review. All got a positive German vote:

- ISO-DIS-22641 Space data and information transfer systems -- TM (telemetry) synchronization and channel coding (CCSDS 131.0-B-2), 5.3.2012
- ISO-DIS 17807 Space data and information transfer systems - Asynchronous message service (CCSDS 735.1-B-1), 16.3.2012
- ISO-DIS-17808 Space data and information transfer systems -- Telemetry (TM) channel coding profile (CCSDS 401-0-B-21), 16.3.2012
- ISO-DIS 17809 Space data and information transfer systems - Delta-differential one-way ranging (Delta-DOR) operations (CCSDS 506.0-M-1), 16.3.2012
- ISO-DIS 17810 Space data and information transfer systems -- Data transmission and pseudo-random noise (PN) ranging for 2 GHz code division multiple access (CDMA) link via data relay satellite (CCSDS 415.1-B-1), 16.3.2012
- ISO/DIS 16919 Space data and information transfer systems -Requirements for bodies providing audit and certification of candidate trustworthy digital repositories (CCSDS 652.1-M-1), 30.5.2011
- ISO-DIS 17107Space data and information transfer systems --XML specification for navigation data messages (CCSDS 505.0-B-1 ), 24.6.2011
- ISO-DIS17214 Space data and information transfer systems --Spacecraft onboard interface services --Time access service (CCSDS 872.0-M-1), 24.6.2011
- ISO-DIS 22671 Space data and information transfer systems --Space link extension (SLE) --Forward communications link transmission unit (CLTU) service (CCSDS 912.1-B-3), 13.5.2011
- ISO-DIS 22672 Space data and information transfer systems --Space link extension (SLE) --Forward space packet service specification (CCSDS 912.3-B-2), 13.5.2011

### German votes in ISO TC20/SC13 during systematic reviews:

- DIS 11104 Space data and information transfer systems --Time code formats (CCSDS 301.0-B-4 ), 24.6.2011

### **New working proposals votes during the reported time interval**

- ISO/NP TR 18200 Space data and informations transfer systems -- Rationale, scenarios and requirements for DTN space (CCSDS 734.0-G-1 ), 14.3.2012
- ISO NP 18201 Space data and information transfer systems -- Missions operations reference model (CCSDS 520.1-M-1 ), 14.3.2012
- ISO/NP 18202 Space data and information transfer systems -- Mission operations message abstraction layer (CCSDS 521.0-B-1 ), 14.3.2012

### **Problematic TC20 standard proposals:**

No-vote on ISO 10784 Space Systems -Space Systems -Early Operations (TC20/S14) due to incompatibilities with ECSS E-70.

Problems with upcoming votes on TC20/SC14 standards:

ISO 11233: Space Systems -- Orbit determination and estimation -- Process for describing techniques

### **DIN publication**

New ISO standards are published as well as DIN standards.

### **Use of standards within DLR projects**

All DLR space projects are forced to make use of the standards defined by CCSDS and ECSS, especially those standards, which are relevant for ground systems as coding and frequency standards, packet TM/TC, SLE services and Navigation Standards. Beside the already in use standards DLR is implementing the upcoming Voice and MIA already in the development status of the standard.

### **New TC space within CEN**

An attempt to create a CEN TC space in February was canceled due to internal problems. A new kick-off is planned for June 2012 time frame.

The secretary of this TC space of CEN is said to be located at DIN in Berlin.

Martin Pilgram  
Oberpfaffenhofen, 24.04.2012