



Deutsches Zentrum  
für Luft- und Raumfahrt e.V.

German  
Aerospace Center



## German report for the 38th meeting of the ISO/Technical Committee 20/Subcommittee 13

No new Standards went through a positive German voting in the reported period.

### Standards for systematic review

For the following documents (6) a systematic review by ISO was initiated and an answer was provided by DLR:

- ISO 15891 Space data and information transfer systems - Protocol specification for space communications -Network protocol (1.11.2010) **no**
- ISO 15888 Space data and information transfer systems - Standard formatted data units - Referencing environment (1.11.2010) **without changes**
- ISO 15894 Space data and information transfer systems - Protocol specification for space communications - File protocol (1.11.2010) **no**
- ISO 15892 Space data and information transfer systems - Protocol specification for space communications - Security protocol (1.11.2010) **no**
- ISO 15887 Space data and information transfer systems - Data systems – Lossless data compression (1.11.2010) **with changes**
- ISO 22666 Space data and information transfer systems - AOS (advanced orbiting systems) space data link protocol (1.11.2010) **with changes**

### DIN publication

There was no new TC20/SC13 standard published in the period according the German Standardization Institute (DIN, NA 131-06-01 AA) as a DIN publication.

### 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.

For Enmap the XTCE will be implemented on the basis of an ESA prototype to interact with the SCOS M&C system.

Activities to proof of the S/C M&C standard are ongoing in DLR by supporting a prototype activity with JSC. This prototype activity will end up in an implementation of the M&C standards for the interactions with DLRs M&C systems.

**Promotion**

During the Berlin Air Show 2010 DIN will present its activities in space standardization tomorrow (11.6.). We will present TC20/SC13 and CCSDS work with two lectures.

Martin Pilgram  
Oberpfaffenhofen, 1.11.2010