



Deutsches Zentrum
für Luft- und Raumfahrt e.V.

German
Aerospace Center



German report for the 37th 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 (4) a systematic review by ISO was initiated and a positive answer was provided by DLR:

- ISO 15396 Space data and information transfer systems — Cross support reference model — Space link extension services
- ISO 26143 Space data and information transfer systems - Space link extension (SLE) - Return operational control fields service
- ISO 22671 Space data and information transfer systems - Space link extension (SLE) - Forward communications link transmission unit (CLTU) service
- ISO 22669 Space data and information transfer systems - Space link extension (SLE) - Return-all-frames-service

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.

Standardization support for Ukraine

Within the EU *Twinning Project "Boosting Ukrainian Space Cooperation with the European Union (UA/06/PCA/OT/05)"* Germany participated in the work package 5: *Space Standards and Norms*. Last December we held a three days training on ISO TC20/SC13 and CCSDS in Kiev.

In the final report of that program beside others the following detailed recommendations with planned/proposed next steps in regards to TC20/SC13 were given:

- 6) Activate participation in ISO TC20 SC13 and participate in ISO meetings.
- 7) Collaboration with/Join CCSDS → NSAU to send a letter to CCSDS to express interest in collaboration by 2010 (as a member or observer).

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, 10.06.2010