



20 May 2015  
ISO/TC 20/SC13

**ISO/TC 20/SC 13 Meeting  
Nagano, Japan – 20 May 2015**

**Report of the United States Technical Advisory Group to ISO/TC20/SC13  
May 2014 – May 2015**

**Meetings**

1. USTAG13 met on 22-23 September 2014 and 12-13 February 2015.

**Work Items**

1. The following ISO documents undergoing DIS ballot and Systematic Review were reviewed or are being reviewed by USTAG13 during the period between May 2014 and May 2015:

- a. **ISO/DIS 20104**  
Space data and information transfer systems — Producer-Archive Interface Specification (PAIS)
- b. **ISO/DIS 20105**  
Space data and information transfer systems — Operation of CFDP over encapsulation service
- c. **ISO/DIS 20106**  
Space data and information transfer systems — Mission operations common object model
- d. **ISO/DIS 20107**  
Space data and information transfer systems — Spacecraft onboard interface services — Device virtualization service
- e. **ISO/DIS 18423**  
Space data and information transfer systems — Pseudo-Noise (PN) Ranging Systems
- f. **ISO/DIS 22663**  
Space data and information transfer systems — Proximity-1 space link protocol — Data link layer
- g. **ISO/DIS 21460**  
Space data and information transfer systems — Proximity-1 space link protocol — Physical layer
- h. **ISO/DIS 21459**  
Space data and information transfer systems — Proximity-1 space link protocol — Coding and synchronization sublayer
- i. **ISO/DIS 20207**  
Space data and information transfer systems — CCSDS Space Link Protocols over ETSI DVB-S2 Standard
- j. **ISO/DIS 20214**  
Space data and information transfer systems — Security architecture for space data systems
- k. **ISO/DIS 20215**  
Space data and information transfer systems — CCSDS cryptographic algorithms

- l. ISO/DIS 20208**  
Space data and information transfer systems — Delta-DOR Raw Data Exchange Format
  - m. ISO/DIS 20210**  
Space data and information transfer systems — Mission Operations Message Abstraction Layer — JAVA API
  - n. ISO/DIS 20206**  
Space data and information transfer systems — IP over CCSDS space links
  - o. ISO/DIS 20211**  
Space data and information transfer systems — Spacecraft Onboard Interface Services — Device Access Service
  - p. ISO/DIS 20216**  
Space data and information transfer systems — Spacecraft onboard interface services — Device data pooling service
  - q. ISO/DIS 20217**  
Space data and information transfer systems — Spacecraft onboard interface services — File and packet store services
  - r. ISO/DIS 20213**  
Space data and information transfer systems — Spacecraft onboard interface services — Message transfer service
  - s. ISO/DIS 20205**  
Space data and information transfer systems — Spacecraft Onboard Interface Systems — Low Data-Rate Wireless Communications for Spacecraft Monitoring and Control
  - t. ISO/CIB SC13 N1505**  
Committee Internal Ballot to incorporate Technical Corrigenda to several SC13 documents
  - u. ISO 17355:2007**  
Space data and information transfer systems — CCSDS file delivery protocol (Deadline: 2015-09-15)
2. The following DIS ballots and Systematic Review votes were submitted by USTAG13 during the period between May 2014 and May 2015:
- a. ISO 13764:1996, Ed.3**  
Space data and information transfer systems — Standard formatted data units — Control authority procedures (Reaffirm)
  - b. ISO 14962:1997, Ed.3**  
Space data and information transfer systems — ASCII encoded English (Reaffirm)
  - c. ISO 20652:2006, Ed.2**  
Space data and information transfer systems — Producer-archive interface — Methodology abstract standard (Reaffirm)
  - d. ISO 21459:2006, Ed.2**  
Space data and information transfer systems — Proximity-1 space link protocol — Coding and synchronization sublayer (Reaffirm)

- e. **ISO 22643:2003, Ed.2**  
Space data and information transfer systems — Data entity dictionary specification language (DEDSL)  
— XML/DTD Syntax (Reaffirm)
- f. **ISO 26868:2009**  
Space data and information transfer systems — Image data compression (Reaffirm)
- g. **ISO/DIS 20104**  
Space data and information transfer systems — Producer-Archive Interface Specification (PAIS)  
(Approve)
- h. **ISO/DIS 20105**  
Space data and information transfer systems — Operation of CFDP over encapsulation service  
(Approve)
- i. **ISO/DIS 20106**  
Space data and information transfer systems — Mission operations common object model (Approve)
- j. **ISO/DIS 20107**  
Space data and information transfer systems — Spacecraft onboard interface services — Device  
virtualization service (Approve)
- k. **ISO/DIS 18423**  
Space data and information transfer systems — Pseudo-Noise (PN) Ranging Systems (Approve)
- l. **ISO/DIS 22663**  
Space data and information transfer systems — Proximity-1 space link protocol — Data link layer  
(Approve)
- m. **ISO/DIS 21460**  
Space data and information transfer systems — Proximity-1 space link protocol — Physical layer  
(Approve)
- n. **ISO/DIS 21459**  
Space data and information transfer systems — Proximity-1 space link protocol — Coding and  
synchronization sublayer (Approve)
- o. **ISO/DIS 20207**  
Space data and information transfer systems — CCSDS Space Link Protocols over ETSI DVB-S2  
Standard (Approve)
- p. **ISO/DIS 20214**  
Space data and information transfer systems — Security architecture for space data systems (Approve)
- q. **ISO/DIS 20215**  
Space data and information transfer systems — CCSDS cryptographic algorithms (Approve)
- r. **ISO/DIS 20208**  
Space data and information transfer systems — Delta-DOR Raw Data Exchange Format (Approve)
- s. **ISO/DIS 20210**  
Space data and information transfer systems — Mission Operations Message Abstraction Layer — JAVA  
API (Approve)
- t. **ISO/DIS 20206**  
Space data and information transfer systems — IP over CCSDS space links (Approve)

- u. ISO/DIS 20211**  
Space data and information transfer systems — Spacecraft Onboard Interface Services — Device Access Service (Approve)
- v. ISO/DIS 20216**  
Space data and information transfer systems — Spacecraft onboard interface services — Device data pooling service (Approve)
- w. ISO/DIS 20217**  
Space data and information transfer systems — Spacecraft onboard interface services — File and packet store services (Approve)
- x. ISO/DIS 20213**  
Space data and information transfer systems — Spacecraft onboard interface services — Message transfer service (Approve)
- y. ISO/DIS 20205**  
Space data and information transfer systems — Spacecraft Onboard Interface Systems — Low Data-Rate Wireless Communications for Spacecraft Monitoring and Control (Approve)
- z. ISO/CIB SC13 N1505**  
Committee Internal Ballot to incorporate Technical Corrigenda to several SC13 documents (Approve)

**Respectfully submitted:**

James Afarin, NASA-HQ, USA  
Chair, U.S. Technical Advisory Group (TAG) to ISO/TC 20/SC 13  
U.S. Representative to ISO/TC 20/SC 13