



ISO/TC 20/SC 13 "Space data and information transfer systems"

Secretariat: **ANSI**

Committee manager: **Asmar Sami Mr**



ISO/TC 20 / SC 13 Status Report

Document type	Related content	Document date	Expected action
Meeting / Secretariat report	Meeting: Laurel (United States) 18 Jun 2025	2025-06-17	

Description

This is an update of the TC 20/SC 13 status for the 45th meeting on June 18th 2025.



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ISO/TC 20 / SC 13 Status Report

1 Title and Scope

Title: Space Data and Information transfer systems

Scope: Space data systems

2 Chairman and Committee Manager

Chairman:

Name (tenure): Suzuki, Kiyohisa (2024-
Organization/Country: JAXA/JAPAN
Phone:
E-mail: suzuki.kiyohisa@jaxa.jp

Secretariat (Optional)

Name (tenure):
Organization/Country:
Phone:
E-mail:

Committee Manager:

Name (tenure): Sami Asmar
Organization/Country: NASA/USA
Phone:
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3 Meetings Held Since Last Report (SC and WG)

Meetings held

No.	Date	Place
44	2024-11-13	UKSA, London

Schedule of future meetings

46

2025-09-24

Technical University of
Hamburg (TUHH) in
Hamburg, Germany

4 Participation and liaisons

4.1 P-member bodies

Participating Members (13)

Country/Territory	Acronym
Brazil	ABNT
China	SAC
Finland	SFS
France	AFNOR
Germany	DIN
India	BIS
Italy	UNI
Japan	JISC
Russian Federation	GOST R
Sweden	SIS
Ukraine	SE UkrNDNC
United Kingdom	BSI
United States	ANSI (Secretariat)

4.2 O-member bodies

Observing Members (14)

Country/Territory	Acronym
Argentina	IRAM
Austria	ASI
Belgium	NBN
Cyprus	CYS
Czech Republic	UNMZ
Iran, Islamic Republic of	INSO
Kazakhstan	CTRM
Korea, Republic of	KATS
Luxembourg	ILNAS
Netherlands	NEN
Norway	SN
Philippines	BPS
Poland	PKN
Romania	ASRO

Total (S+P+O): = 27

4.3 Countries contacted for membership consideration

(List countries that have been contacted for consideration of membership on TC/SC)

None

4.4 Liaisons

4.4.1 Liaison Committees to ISO/TC 20/SC 13

The committees below can access the documents of ISO/TC 20/SC 13

TC/SC	Organization	Category	TC 20 liaison to committee	
			Person	E-mail
TC 20/ SC 14	ISO			
TC 46/ SC4	ISO			
TC 46/ SC11	ISO			
TC 211	ISO			

4.4.2 Liaison Committees from ISO/TC 20/SC 13

ISO/TC 20 can access the documents of the committees below:

TC/SC	Organization	Category	Contact	
			Person	E-mail
TC 46/ SC 11	ISO			
CASCO	ISO		Dr. David Giaretta	david@giaretta.org
TC 211	ISO		Mr. John Garrett	garrett@his.com
TC 46/ SC 4	ISO			

4.4.3 Organizations in Liaison (A & B)

TC/SC	Organization	Category	Contact	
			Person	E-mail
	CCSDS	A		
	ESA	A	Mariella Spada	Mariella.Spada@esa.int

4.5 Changes since last plenary meeting of ISO/TC 20

1) NONE

4.6 Inactive P-member bodies

1)

Inactive P-member criteria

- Has not participated in meetings for the last 2-3 years, or
- Has not met the voting participation requirements from the ISO Directives.

The purpose of noting inactive participants is to verify the correct person is assigned to the committee and to encourage future participation.

5 Constitution

5.1 Working Groups (total number)

NONE

5.2 Changes since last plenary meeting of ISO/TC 20 (2024-11-26)

NONE

6 Any other matters of importance to ISO/TC 20

NONE

7 Programme of work

Please use the ISO Project Portal to generate the requested information below. Use the exported spreadsheet from ISO Project Portal to copy and paste here. Add a remarks column to each table as needed but this is not required. The tables provided below are an example of how to provide the requested information. It is recommended include the following columns and use a stage filter in the Project Portal to sort by stage; use repeating header row on each page.

Notes

- 1) The 4 documents, ISO 14721, 16363, 16919 and 23507 which were being used to test the reinstated CCSDS→ISO process have successfully been published by ISO.
- 2) There are many documents where, following an ISO Systematic Review, there is an action “Proceed to decision”. These will be approved in the normal way.
 - a. This should normally be done within 6 months of entering that stage. The cases where a longer time has elapsed will be investigated and a resolution will be proposed for the next meeting.
- 3) Many new and updated CCSDS documents are awaiting the newly appointed Chief Technical Editors to process the documents.
- 4) The previous meeting resolved to normalize the status of a large number of documents – the checks have not been completed to ensure these resolutions have been actioned. The links to the resolutions are included next for convenience.
 - a. Resolution 2024-2 Updates of ISO documents to align with CCSDS latest versions <https://sd.iso.org/documents/open/ec865e9b-a251-4340-b394-2e71f4704d91>
 - b. Resolution 2024-3 on publication to be retired <https://sd.iso.org/documents/open/50ce3f09-2098-496e-a4df-313025ec8dec>
 - c. Resolution 2024-4 on New CCSDS Publications Submitted to ISO in August 2020 and Subsequently Deleted from SC13 Program of Work <https://sd.iso.org/documents/open/b00a7dc2-d758-4841-b7ed-961683a73f45>
 - d. Resolution 2024-5 on new submissions to ISO <https://sd.iso.org/documents/open/db3d6054-64e5-4cdb-9480-7379aeec29d>

A status report will be included at the next meeting.

Reference	Document title	Current stage	Stage date	Action
ISO 23103:2020	Space link extension — Cross support transfer service — Specification framework	90.60	2025-06-05	Proceed to decision
ISO 23104:2020	Space link extension — Cross support transfer service — Monitored data service	90.60	2025-06-05	Proceed to decision
ISO 13526:2010	Tracking data message	90.20	2025-04-15	
ISO 12175:1994	Standard formatted data units — Structure and construction rules	90.20	2025-04-15	
ISO 22646:2005	Space packet protocol	90.20	2025-04-15	
ISO 14721:2025	Space Data System Practices — Reference model for an open archival information system (OAIS)	60.60	2025-03-10	
ISO 16919:2025	Requirements for bodies providing audit and certification of candidate trustworthy digital repositories	60.60	2025-03-07	
ISO 14962:1997	ASCII encoded English	90.60	2025-03-05	Proceed to decision
ISO 23507:2025	Information preparation to enable long term use	60.60	2025-03-05	
ISO 22643:2003	Data entity dictionary specification language (DEDSL) — XML/DTD Syntax	90.60	2025-03-05	Proceed to decision
ISO 26868:2009	Image data compression	90.60	2025-03-05	Proceed to decision
ISO 16363:2025	Audit and certification of trustworthy digital repositories	60.60	2025-03-05	
ISO 20652:2006	Producer-archive interface — Methodology abstract standard	90.60	2025-03-05	Proceed to decision
ISO 13764:1996	Standard formatted data units — Control authority procedures	90.60	2025-03-05	Proceed to decision
ISO 22672:2021	Space link extension (SLE) — Forward space packet service specification	95.60	2025-02-08	
ISO 17808:2014	Telemetry (TM) channel coding profiles	90.60	2024-12-03	Proceed to decision
ISO 17809:2014	Space data and information transfer systems - Delta-differential one-way ranging (Delta-DOR) operations	90.60	2024-12-03	Proceed to decision
ISO 17810:2014	Data transmission and pseudo-random noise (PN) ranging for 2 GHz code division multiple access (CDMA) link via data relay satellite	90.60	2024-12-03	Proceed to decision
ISO 19389:2014	Conjunction data message	90.60	2024-12-03	Proceed to decision
ISO 17355:2007	CCSDS file delivery protocol	90.60	2024-06-04	Proceed to decision
ISO 21961:2003	Data entity dictionary specification language (DEDSL) — Abstract syntax	90.60	2024-03-04	Proceed to decision
ISO 21962:2003	Data entity dictionary specification language (DEDSL) — PVL syntax	90.60	2024-03-04	Proceed to decision
ISO 14961:2002	Parameter value language specification	90.60	2024-03-04	Proceed to decision
ISO 15395:1998	Standard formatted data units — Control authority data structures	90.60	2024-03-04	Proceed to decision
ISO 17807:2013	Space data and information transfer systems - Asynchronous message service	90.60	2023-12-03	Proceed to decision
ISO 18428:2013	Spacecraft Onboard Interface Services — Subnetwork Device Discovery Service	90.60	2023-12-03	Proceed to decision

ISO 18425:2013	Spacecraft Onboard Interface Services — Subnetwork Packet Service	90.60	2023-12-03	Proceed to decision
ISO 17854:2013	Flexible advanced coding and modulation scheme for high rate telemetry applications	90.60	2023-12-03	Proceed to decision
ISO 18381:2013	Lossless multispectral and hyperspectral image compression	90.60	2023-12-03	Proceed to decision
ISO 18438:2013	Spacecraft Onboard Interface Services — Subnetwork Test Service	90.60	2023-12-03	Proceed to decision
ISO 15887:2013	Lossless data compression	90.60	2023-12-03	Proceed to decision
ISO 22667:2013	Communications operation procedure-1	90.60	2023-12-03	Proceed to decision
ISO 18426:2013	Spacecraft Onboard Interface Services — Subnetwork Memory Access Service	90.60	2023-12-03	Proceed to decision
ISO 18201:2013	Mission operations reference model	90.60	2023-12-03	Proceed to decision
ISO 18382:2013	Spacecraft onboard interface services — RFID-based inventory management systems	90.60	2023-12-03	Proceed to decision
ISO 18427:2013	Spacecraft Onboard Interface Services — Subnetwork Synchronization Service	90.60	2023-12-03	Proceed to decision
ISO 18424:2013	XML Telemetric and Command Exchange (XTCE)	90.60	2023-12-03	Proceed to decision
ISO 20207:2015	CCSDS Space Link Protocols over ETSI DVB-S2 Standard	90.93	2023-11-14	
ISO 18423:2015	Pseudo-Noise (PN) Ranging Systems	90.93	2023-11-14	
ISO 15893:2010	Space communications protocol specification (SCPS) — Transport protocol (SCPS-TP)	90.93	2023-11-14	
ISO 15888:2000	Standard formatted data units — Referencing environment	90.93	2023-11-14	
ISO 21323:2016	CCSDS Bundle protocol specification	90.93	2023-11-14	
ISO 18444:2016	Space link extension — Application program interface for return operational control fields service	90.93	2023-11-14	
ISO 10537:2016	Encapsulation service	90.93	2023-11-14	
ISO 13527:2010	XML formatted data unit (XFDU) structure and construction rules	90.93	2023-11-14	
ISO 20208:2015	Delta-DOR Raw Data Exchange Format	90.93	2023-11-14	
ISO 17107:2011	XML specification for navigation data messages	90.93	2023-11-14	
ISO 22645:2016	TM (telemetry) space data link protocol	90.93	2023-11-14	
ISO 21324:2016	Space data link security protocol	90.93	2023-11-14	
ISO 18445:2016	Space link extension — Application program interface for the forward CLTU service	90.93	2023-11-14	
ISO 22663:2015	Proximity-1 space link protocol — Data link layer	90.93	2023-11-14	
ISO 20210:2015	Mission Operations Message Abstraction Layer - JAVA API	90.93	2023-11-14	
ISO 11104:2011	Time code formats	90.93	2023-11-14	
ISO 22664:2016	TC (telecommand) space data link protocol	90.93	2023-11-14	

ISO 21076:2016	Space communications cross support — Architecture requirements document	90.93	2023-11-14	
ISO 20104:2015	Producer-Archive Interface Specification (PAIS)	90.93	2023-11-14	
ISO 18446:2016	Space link extension — Application program interface for the forward space packet service	90.93	2023-11-14	
ISO 21460:2015	Proximity-1 space link protocol — Physical layer	90.93	2023-11-14	
ISO 15889:2011	The data description language EAST specification	90.93	2023-11-14	
ISO 22666:2016	AOS (advanced orbiting systems) space data link protocol	90.93	2023-11-14	
ISO 20105:2015	Operation of CFDP over encapsulation service	90.93	2023-11-14	
ISO 21459:2015	Proximity-1 space link protocol — Coding and synchronization sublayer	90.93	2023-11-14	
ISO 18440:2016	Space link extension — Internet protocol for transfer services	90.93	2023-11-14	
ISO 20106:2015	Mission operations common object model	90.93	2023-11-14	
ISO 21082:2016	Mission operations — MAL space packet transport binding and binary encoding	90.93	2023-11-14	
ISO 22642:2015	TC synchronization and channel coding	90.93	2023-11-14	
ISO 20214:2015	Security architecture for space data systems	90.93	2023-11-14	
ISO 21080:2016	Licklider transmission protocol (LTP) for CCSDS	90.93	2023-11-14	
ISO 18202:2015	Mission operations message abstraction layer	90.93	2023-11-14	
ISO 20205:2015	Spacecraft Onboard Interface Systems — Low Data-Rate Wireless Communications for Spacecraft Monitoring and Control	90.93	2023-11-14	
ISO 15396:2007	Cross support reference model — Space link extension services	90.93	2023-11-14	
ISO 18442:2016	Space link extension — Application program interface for return all frames service	90.93	2023-11-14	
ISO 20215:2015	CCSDS cryptographic algorithms	90.93	2023-11-14	
ISO 20206:2015	IP over CCSDS space links	90.93	2023-11-14	
ISO 18443:2016	Space link extension — Application program interface for return channel frames service	90.93	2023-11-14	
ISO 22641:2012	TM (telemetry) synchronization and channel coding	90.93	2023-06-15	
ISO 22671:2021	Space link extension (SLE) — Forward communications link transmission unit (CLTU) service specification	60.60	2021-06-30	
ISO 13541:2021	Attitude data messages	60.60	2021-06-30	
ISO 21077:2021	Digital motion imagery	60.60	2021-06-30	
ISO 22669:2021	Space link extension (SLE) — Return-all-frames service specification	60.60	2021-06-30	
ISO 22670:2021	Space link extension (SLE) — Return-channel-frames service specification	60.60	2021-06-30	
ISO 26143:2021	Space link extension (SLE) — Return operational control fields service specification	60.60	2021-06-30	

ISO 18441:2021	Space link extension — Application program interface for transfer services — Core specification	60.60	2021-06-30	
ISO 13537:2010	Reference architecture for space data systems	90.60	2021-03-05	Proceed to decision
ISO 22646:2005/ Amd 1:2015	Space packet protocol — Amendment 1	60.60	2015-07-09	
ISO 12175:1994/ Amd 1:2015	Standard formatted data units — Structure and construction rules — Amendment 1	60.60	2015-06-16	
ISO 13526:2010/ Amd 1:2015	Tracking data message — Amendment 1	60.60	2015-06-16	

International harmonized stage codes

STAGE	SUBSTAGE						
				90 Decision Substages			
	00 Registration	20 Start of main action	60 Completion of main action	92 Repeat an earlier phase	93 Repeat current phase	98 Abandon	99 Proceed
00 Preliminary stage	00.00 Proposal for new project received	00.20 Proposal for new project under review	00.60 Close of review			00.98 Proposal for new project abandoned	00.99 Approval to ballot proposal for new project
10 Proposal stage	10.00 Proposal for new project registered	10.20 New project ballot initiated	10.60 Close of voting	10.92 Proposal returned to submitter for further definition		10.98 New project rejected	10.99 New project approved
20 Preparatory stage	20.00 New project registered in TC/SC work programme	20.20 Working draft (WD) study initiated	20.60 Close of comment period			20.98 Project deleted	20.99 WD approved for registration as CD
30 Committee stage	30.00 Committee draft (CD) registered	30.20 CD study/ballot initiated	30.60 Close of voting/ comment period	30.92 CD referred back to Working Group		30.98 Project deleted	30.99 CD approved for registration as DIS
40 Enquiry stage	40.00 DIS registered	40.20 DIS ballot initiated: 5 <i>months</i>	40.60 Close of voting	40.92 Full report circulated: DIS referred back to TC or SC	40.93 Full report circulated: decision for new DIS ballot	40.98 Project deleted	40.99 Full report circulated: DIS approved for registration as FDIS
50 Approval stage	50.00 FDIS registered for formal approval	50.20 FDIS ballot initiated: 2 <i>months</i> . Proof sent to secretariat	50.60 Close of voting. Proof returned by secretariat	50.92 FDIS referred back to TC or SC		50.98 Project deleted	50.99 FDIS approved for publication
60 Publication stage	60.00 International Standard under publication		60.60 International Standard published				
90 Review stage		90.20 International Standard under periodical review	90.60 Close of review	90.92 International Standard to be revised	90.93 International Standard confirmed		90.99 Withdrawal of International Standard proposed by TC or SC
95 Withdrawal stage		95.20 Withdrawal ballot initiated	95.60 Close of voting	95.92 Decision not to withdraw International Standard			95.99 Withdrawal of International Standard