



ISO 17365:2007	Space data and information transfer systems – CCSDS file delivery protocol	2005-10-27	90.92	2007-09-10		36	ISO/TC 20/SC 13	43829	CCSDS 727.0-B-3 S: 2005	
ISO/CD 17365	Space data and information transfer systems – CCSDS file delivery protocol	2007-08-10	30.98	2010-03-05		48	ISO/TC 20/SC 13	50246	CCSDS 727.0-B-4: 2007	
ISO 17433:2001	Space data and information transfer systems – Packet telemetry services	1998-06-30	95.99	2003-02-11			ISO/TC 20/SC 13	28480	CCSDS 103.0-B-1 S:1996	
ISO 17433:2003	Space data and information transfer systems – Packet telemetry services	2001-10-19	95.99	2007-03-05			ISO/TC 20/SC 13	36448	CCSDS 103.0-B-2 S:2001	
	Rationale, Scenarios, and Requirements for DTN in Space								CCSDS 734.0-G-1 (Aug 2010)	For ISO processing
ISO/DIS 17807	Space data and information transfer systems – Telemetry (TM) channel coding profiles	11/10/2011	40.99	04/05/2012	11/04/2014	36	ISO/TC 20/SC 13	60592	CCSDS 735.1-B-1	Report of voting on DIS submitted to ISO/TC for direct publication (04/2012)
ISO/DIS 17808	Space data and information transfer systems – Telemetry (TM) channel coding profiles	11/10/2011	40.99	04/05/2012	11/04/2014	36	ISO/TC 20/SC 13	60593	CCSDS 131.4-M-1	Report of voting on DIS submitted to ISO/TC for direct publication (04/2012)
ISO/DIS 17809	Space data and information transfer systems – Delta-Differential One Way Ranging (Delta-DOR) Operations	11/10/2011	40.99	04/05/2012	11/04/2014	36	ISO/TC 20/SC 13	60594	CCSDS 506.0-M-1	Report of voting on DIS submitted to ISO/TC for direct publication (04/2012)
	Mission Operations Reference Model								CCSDS 520.1-M-1 (Jul 2010)	For ISO processing
	Mission Operations Message Abstraction Layer								CCSDS 520.0-B-1 (Sep 2010)	For ISO processing
ISO/DIS 17810	Space data and information transfer systems – Data Transmission and PN Ranging for 2 GHz CDMA Link via Data Relay Satellite	11/10/2011	40.99	04/05/2012	11/04/2014	36	ISO/TC 20/SC 13	60595	CCSDS 415.1-B-1	Report of voting on DIS submitted to ISO/TC for direct publication (04/2012)
NP 17854	Flexible Advance Coding and Modulation Scheme for High Rate Telemetry Applications	16/05/2012	40.60	14/12/2012	16/11/2014	36	ISO/TC 20/SC 13		CCSDS 131.2-B-1 (Mar 2012)	Report of voting on DIS submitted to ISO/TC for direct publication (04/2012) SCCC patent resolved (1/2012)
ISO/DIS 18201	Space data and information transfer systems – Mission operations reference model	07/03/2012	40.20	03/11/2012	07/09/2013	24	ISO/TC 20/SC 13		CCSDS 520.1-M-1 (Jul 2010)	
ISO/DIS 18202	Space data and information transfer systems – Mission operations message abstraction layer	07/03/2012	40.20	03/11/2012	07/09/2013	24	ISO/TC 20/SC 13		CCSDS 521.0-B-1 (Sep 2010)	
ISO/DIS 18381	Space data and information transfer systems – Lossless multispectral and hyperspectral image compression	08/06/2012	40.60	04/12/2012	08/12/2014	36	ISO/TC 20/SC 13		CCSDS 123.0-B-1 (May 2012)	
ISO/DIS 18382	Space data and information transfer systems – Spacecraft on-orbit interface services – RFID-based inventory management systems	08/06/2012	40.60	04/12/2012	08/12/2014	36	ISO/TC 20/SC 13		CCSDS 852.0-M-1 (May 2012)	
ISO/DIS 18423	Pseudo-Noise (PN) Ranging Systems	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62447	CCSDS 414.1-B-1	
ISO/DIS 18424	XML Telemetric and Command Exchange (XTCE)	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62448	CCSDS 660.0-B-1	
ISO/DIS 18425	Spacecraft Onboard Interface Services – Subnetwork Packet Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62449	CCSDS 851.0-M-1	
ISO/DIS 18426	Spacecraft Onboard Interface Services – Subnetwork Memory Access Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62450	CCSDS 852.0-M-1	
ISO/DIS 18427	Spacecraft Onboard Interface Services – Subnetwork Synchronization Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62451	CCSDS 852.0-M-1	
ISO/DIS 18428	Spacecraft Onboard Interface Services – Subnetwork Device Discovery Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62452	CCSDS 854.0-M-1	
ISO/DIS 18438	Spacecraft Onboard Interface Services – Subnetwork Test Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62453	CCSDS 855.0-M-1	
ISO/DIS 18439	Space Communication Cross Support – Service Management – Service Specification	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62454	CCSDS 910.11-M-1	
ISO/DIS 18440	Space Link Extension – Internet Protocol for Transfer Services	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62455	CCSDS 913.1-B-1	
ISO/DIS 18441	Space Link Extension – Application Program Interface for Transfer Services – Core Specification	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62456	CCSDS 914.0-M-1	
ISO/DIS 18442	Space Link Extension – Application Program Interface for Return All Frames Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62457	CCSDS 915.1-M-1	
ISO/DIS 18443	Space Link Extension – Application Program Interface for Return Channel Frames Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62458	CCSDS 915.2-M-1	
ISO/DIS 18444	Space Link Extension – Application Program Interface for Return Operational Control Fields Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62459	CCSDS 915.5-M-1	
ISO/DIS 18445	Space Link Extension – Application Program Interface for the Forward C/U Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62460	CCSDS 916.1-M-1	
ISO/DIS 18446	Space Link Extension – Application Program Interface for the Forward Space Packet Service	03/07/2012	40.20	12/11/2012	03/01/2015	36	ISO/TC 20/SC 13	62461	CCSDS 916.3-M-1	
ISO 20662:2006	Space data and information transfer systems – Producer-archive interface – Methodology abstract standard	2003-04-10	90.93	2009-06-30	15/04/2013		ISO/TC 20/SC 13	39577	CCSDS 651.0-M-1:2004	30/06/2014
ISO 21459:2006	Space data and information transfer systems – Proximity-1 space link protocol – Coding and synchronization sublayer	2004-01-09	90.93	2009-12-31	15/10/2014	48	ISO/TC 20/SC 13	40247	CCSDS 211.2-B-1:2003	31/12/2014
ISO 21460:2006	Space data and information transfer systems – Proximity-1 space link protocol – Physical layer	2004-01-09	95.99	2007-10-10		48	ISO/TC 20/SC 13	40248	CCSDS 211.1-B-1	
ISO 21460:2007	Space data and information transfer systems – Proximity-1 space link protocol – Physical layer	2006-09-12	90.93	20/09/2011		36	ISO/TC 20/SC 13	44999	CCSDS 211.1-B-3:2006	20/09/2016 Reaffirmed 2011-09-20
ISO 21961:2003	Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – Abstract syntax	2001-06-29	90.20	2008-06-30	15/04/2013		ISO/TC 20/SC 13	36036	CCSDS 647.1-B-1:2001	30/06/2013
ISO 21962:2003	Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – PVL syntax	2001-06-29	90.20	2008-06-30	15/04/2013		ISO/TC 20/SC 13	36037	CCSDS 647.2-B-1:2001	30/06/2013
ISO 22641:2005	Space data and information transfer systems – TM (telemetry) synchronization and channel coding	2001-10-12	95.99	13/07/2012		36	ISO/TC 20/SC 13	36375	CCSDS 131.0-B-1:2003	Patent Policy & Declaration Form (CalTech) submitted to ISO on 7/8/2011. DIS text submitted to ISO/TC (10/11/11)
ISO 22641:2012	Space data and information transfer systems – TM (telemetry) synchronization and channel coding	11/10/2011	60.60	13/07/2012		36	ISO/TC 20/SC 13	60590	CCSDS 131.1-B-2	
ISO 22642:2005	Space data and information transfer systems – TC (telecommand) synchronization and channel coding	2001-10-12	90.92	28/09/2012			ISO/TC 20/SC 13	36376	CCSDS 231.0-B-1:2003	CCSDS Cor. 1 – Sep. '03, ISO Cor. 1 – 07
ISO 22642:2005/Cor 1:2007	Space data and information transfer systems – TC (telecommand) synchronization and channel coding – Technical Contingendum 1	2007-08-21	60.60	2007-10-03			ISO/TC 20/SC 13	50342		
ISO/DP 22642	Space data and information transfer systems – TC (telecommand) synchronization and channel coding	28/06/2012	10.99	28/06/2012	28/12/2013	36	ISO/TC 20/SC 13	62446		
ISO 22643:2003	Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – XML/EDT Syntax	2001-07-20	90.93	2009-04-01	15/04/2014		ISO/TC 20/SC 13	36377	CCSDS 647.3-B-1:2002	01/04/2014
ISO 22644:2006	Space data and information transfer systems – Onbit data messages	19/05/2005	95.99	13/07/2012		36	ISO/TC 20/SC 13	42722	CCSDS 502.0-B-1	ISO designation changed to ISO 26200 under SC 14 work program
ISO/CD 22644	Space data and information transfer systems – Onbit data messages	12/10/2001	30.98	03/11/2004			ISO/TC 20/SC 13	36379		
ISO 22645:2005	Space data and information transfer systems – TM (telemetry) space data link protocol	2001-10-12	90.20	2008-12-31	15/10/2013		ISO/TC 20/SC 13	36380	CCSDS 132.0-B-1:2003	31/12/2013
ISO 22646:2005	Space data and information transfer systems – Space packet protocol	2001-10-12	90.92	03/07/2012			ISO/TC 20/SC 13	36381	CCSDS 133.0-B-1:2003	31/12/2013 For ISO processing
ISO/CD 22646	Space data and information transfer systems – Space packet protocol	03/07/2012	30.99	03/07/2012	03/01/2014	36	ISO/TC 20/SC 13	62471		
ISO 22647:2006	Space data and information transfer systems – Space link identifiers	2001-10-12	95.99	20/10-09-10			ISO/TC 20/SC 13	36383	CCSDS 135.0-B-1:2002	
ISO 22647:2010	Space data and information transfer systems – Space link identifiers	2007-03-14	60.60	20/10-09-10		48	ISO/TC 20/SC 13	45987	CCSDS 135.0-B-3	
ISO 22663:2006	Space data and information transfer systems – Proximity-1 space link protocol – Data link layer	2001-10-12	95.99	2007-10-10			ISO/TC 20/SC 13	36386	CCSDS 211.0-B-3:2004	
ISO 22663:2007	Space data and information transfer systems – Proximity-1 space link protocol – Data link layer	2006-09-12	90.93	20/09/2011		36	ISO/TC 20/SC 13	45000	CCSDS 211.0-B-4	20/09/2016 Reaffirmed 2011-09-20
ISO 22664:2005	Space data and information transfer systems – TC (telecommand) space data link protocol	2001-10-12	90.92	14/03/2012			ISO/TC 20/SC 13	36389	CCSDS 232.0-B-1:2003	For DIS text submission
ISO/DP 22664	Space data and information transfer systems – TC (telecommand) space data link protocol	07/03/2012	40.60	10/11/2012	07/09/2014	36	ISO/TC 20/SC 13	61746	CCSDS 232.0-B-2	
ISO 22666:2005	Space data and information transfer systems – ACS (advanced orbiting systems) space data link protocol	2001-10-12	95.99	2007-08-15			ISO/TC 20/SC 13	36391	CCSDS 732.0-B-1:2003	
ISO 22666:2007	Space data and information transfer systems – ACS (advanced orbiting systems) space data link protocol	2006-08-23	90.60	17/12/2010		36	ISO/TC 20/SC 13	44866	CCSDS 732.0-B-2	15/08/2012
ISO/CD 22666	Space data and information transfer systems – ACS (advanced orbiting systems) space data link protocol	22/09/2011	30.98	18/10/2011	2013-03-22 (Cancelled) date: 2013-09-22	36	ISO/TC 20/SC 13	60519		
ISO 22667:2005	Space data and information transfer systems – Communication operations Procedure-1	2001-10-12	90.92	14/03/2012			ISO/TC 20/SC 13	36392	CCSDS 232.1-B-1:2003	31/12/2013 For DIS text submission
ISO/DP 22667	Space data and information transfer systems – Communication operations Procedure-1	07/03/2012	40.60	10/11/2012	07/09/2014	36	ISO/TC 20/SC 13	61747	CCSDS 232.1-B-2	
ISO/WD 22668	Space data and information transfer systems – Space link extension (SLE) – Service management specification	2001-10-12	20.98	2003-11-07			ISO/TC 20/SC 13	36393		
ISO 22669:2003	Space data and information transfer systems – Space link extension (SLE) – Return-all-frames service	2001-10-12	95.99	2007-01-26			ISO/TC 20/SC 13	36394	CCSDS 911.1-B-1:2002	
ISO 22669:2007	Space data and information transfer systems – Space link extension (SLE) – Return-all-frames service	2004-12-08	90.92	14/03/2012		36	ISO/TC 20/SC 13	43442	CCSDS 911.1-B-2	For DIS text submission
ISO/DP 22669	Space data and information transfer systems – Space link extension (SLE) – Return-all-frames service	07/03/2012	40.60	10/11/2012	07/09/2014	36	ISO/TC 20/SC 13	61743	CCSDS 911.1-B-3	
ISO 22670:2006	Space data and information transfer systems – Space link extension (SLE) – Return-channel-frames service	2001-10-12	90.92	14/03/2012			ISO/TC 20/SC 13	36395	CCSDS 911.2-B-1:2004	For DIS text submission
ISO/DP 22670	Space data and information transfer systems – Space link extension (SLE) – Return-channel-frames service	07/03/2012	40.60	10/11/2012	07/09/2014	36	ISO/TC 20/SC 13	61744	CCSDS 911.2-B-2	

	ISO 22671:2005	Space data and information transfer systems -- Space link extension (SLE) -- Forward command link transmission unit (CLTU)	2001-10-12	95.99	2007-01-26					ISO/TC 20/SC 13	36396	CCSDS 912.1-B-1-2002		
	ISO 22671:2007	Space data and information transfer systems -- Space link extension (SLE) -- Forward communications link transmission unit (CLTU) service	2004-12-08	95.99	08/11/2011				36	ISO/TC 20/SC 13	43443	CCSDS 912.1-B-2		
	ISO 22671:2007/CD Cor 1	Space data and information transfer systems -- Space link extension (SLE) -- Forward communications link transmission unit (CLTU) service -- Technical Corrigendum 1	2007-10-01	30.98	17/01/2011					ISO/TC 20/SC 13	50583			
	ISO 22671:2011	Space data and information transfer systems -- Space link extension (SLE) -- Forward communications link transmission unit (CLTU) service	22/12/2010	60.60	08/11/2011				36	ISO/TC 20/SC 13	58052			
	ISO 22672:2006	Space data and information transfer systems -- Space link extension (SLE) -- Forward space packet	19/05/2005	95.99	08/11/2011				36	ISO/TC 20/SC 13	42721	CCSDS 912.3-B-1		
	ISO/CD 22672	Space data and information transfer systems -- Space link extension (SLE) -- Forward space packet service	12/10/2001	30.98	04/05/2004				36	ISO/TC 20/SC 13	36397			
	ISO 22672:2011	Space data and information transfer systems -- Space link extension (SLE) -- Forward space packet service specification	22/12/2010	60.60	08/11/2011				36	ISO/TC 20/SC 13	58052	CCSDS 912.3-B-2		
	ISO 26143:2007	Space data and information transfer systems -- Space link extension (SLE) -- Return operational control fields service	2005-09-08	90.92	14/03/2012				36	ISO/TC 20/SC 13	43394	CCSDS 911.5-B-1		For DIS test submission
	ISONP 26143	Space data and information transfer systems -- Space link extension (SLE) -- Return operational control fields service	07/03/2012	40.60	10/11/2012	07/09/2014			36	ISO/TC 20/SC 13	61745	CCSDS 911.5-B-2		
	ISO 26868:2009	Space data and information transfer systems -- Image data compression	2005-12-02	60.60	2009-01-29	15/01/2014			36	ISO/TC 20/SC 13	43849	CCSDS 122.0-B-1	Under Revision	CCSDS Cor.1 = Jul. 08; Cor.2 = Jul. 08; no Cor. 1 or 2 in ISO; current CCSDS version has both Cor incorporated; all 3 CCSDS Cor submitted to ISO/TC for processing
	ISO 26868:2009/CD Cor 1	Space data and information transfer systems -- Image data compression -- Technical Corrigendum 1	09/11/2011	30.99	27/05/2012	95/2012 (Cancellation date 2012-11-09)			24	ISO/TC 20/SC 13	60964			

### International harmonized stage codes

STAGE	SUBSTAGE								
	00 Registration	20 Start of main action	60 Completion of main action	90 Decision Substages				98 Abandon	99 Proceed
				92 Repeat an earlier phase	93 Repeat current phase				
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 months	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 months. 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