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ISO TC 20 / SC 13 Status Report

FOREWORD: This report is being submitted to the coming 48th ISO TC20 Committee on Aircraft and Space Vehicles Plenary Meeting to be held in Bremen, Germany, October 6-8, 2014.

1 Title and Scope

Title: Space data and information transfer systems

Scope: Space data systems

2 Chairman and secretary

Chairman:

Name (tenure): Eduardo Whitaker Bergamini (ABNT/Brazil)

Organization/Country: National Institute for Space Research-INPE (Brazil)

Address: Avenida dos Astronautas, 1758, São José dos Campos, SP, Brazil

Phones/Fax: + 55 12 3208 6166/6603 / Fax: + 55 12 3208 6150

E-mail: <u>e.w.bergamini@uol.com.br</u>

Secretary:

Name (tenure): Mike W. Kearney (ANSI/U.S.A.)

Organization/Country: National Aeronautics and Space Administration-NASA

Address: NASA MSFC EO-01, Huntsville, AL, U.S.A.

Phone: + 1 256 544 2029

E-mail: <u>Mike.Kearney@nasa.gov</u>

Secretariat:

Name (tenure): Nick Tongson (ANSI/U.S.A.)

Organization/Country: American Institute of Aeronautics and Astronautics - AIAA

Address: 1801 Alexander Bell Drive, Suite 500, Reston, VA 20191, U.S.A.

Phone: +1-703-264-7515 E-mail: <u>nickt@aiaa.org</u>

3 Meetings Held Since Last Report (SC and WG)

Meetings held

No.	Date	Place
39	2011-05-24	Berlin, Germany
40	2011-11-16	Moscow, Russia
41	2012-04-24	Darmstadt, Germany
42	2012-12-11	Kennedy Space Center, FA, U.S.A.
43	2013-04-23	Bordeaux-Latresne, France
44	2013-12-10	St. Hubert-Montreal, Canada
45	2014-04-08	Noordwijk, Netherlands

Schedule of future meetings

46 2015-May_June Tokyo-Nagano, Japan

OBSERVATION -

ISO TC20/SC13 Subcommittee Plenary meetings have been occurring under a methodical alternation between Formal and Informal meetings, where Member reports are not expected. For instance, last plenary meeting 45 was a Formal one. Next, Informal meeting that would be held in BSI, in London, U.K., in November 2014 but, it is not going to happen due to the very stringent scheduling that will have to be also observed by the same, main delegates who will also be attending the collocated CCSDS CMC meetings, at the same occasion. The Secretary informed the Chairman of the Subcommittee that ISO requires that at least one Formal meeting may be held, on a yearly basis. This is actually the current status of meetings of the Subcommittee, in 2014. As a result, it is being considered that the subsequent, 46th Subcommittee Plenary meeting, planned to be held May-June, 2015 in Tokyo-Nagano, Japan, will be a Formal one.

The meeting package of the 44th ISO TC20/SC13 Plenary Meeting can be accessed at the URL address:

http://isotc.iso.org/livelink/livelink?func=ll&objId=16490050&objAction=browse&viewType=1

The meeting package of the 45th ISO TC20/SC13 Plenary Meeting can be accessed at the URL address:

http://isotc.iso.org/livelink/livelink?func=Il&objId=16522271&objAction=browse&viewType=1

4 Participation and liaisons

4.1 P-member bodies

No.	Country	Member Body
1	U.S.A. (+ Secretariat)	ANSI
2	BRAZIL (+ Chairman)	ABNT
3	CHINA	SAC
4	FRANCE	AFNOR
5	GERMANY	DIN
6	INDIA	BIS
7	ISRAEL	SII
8	ITALY	UNI
9	JAPAN	JISC
10	RUSSIAN FEDERATION	GOST R
11	UKRAINE	DTR
12	UNITED KINGDOM	BSI

OBS. – Consistent attendance to the Subcommittee Plenaries have been observed in respect to P-Members 1, 2, 4, 5, 9 and 12 and, to a lesser extent for P-Members 3, 8 and 10.

4.2 O-member bodies

No.	Country	Member Body
1	Argentina	IRAM
2	Belgium	NBN
3	Finland	SFS
4	Kazakhstan	KAZMEMST
5	Korea, Republic of	KATS
6	Poland	PKN
7	Romania	ASRO
8	Sweden	SIS

Total (P + O) = 12/P + 8/O = 20/P + O Members

4.3 Liaisons (Contact)

OBS. – Liaisons of ISO TC20/SC13 Subcommittee are being maintained in close parity with those of the Consultative Committee for Space data Systems – CCSDS.

TC/SC	Organization	Category	Person	Contact E-Mail
n/a	CCSDS	Α	N. Tongson	NickT@aiaa.org
n/a	ECSS	Α	Gilles Moury	Gilles.Moury@cnes.fr
n/a	ESA	А	Juan Mirò	Juan.Miro@esa.int
n/a	ISOCS-TPM	В	Andy Dryden	dryden@iso.org
20/14	ISO	В	Fred Slane	freds@spacestandards.org
20/14/WG3	ISO	В	Fred Slane	freds@spacestandards.org
46/11	ISO	В	H. Hofman	hans.hofman@nationaalarchief.nl
211	ISO	В	B. Saeteroy	<u>b</u> įs@standard.no
46/04	ISO	В	K.Heiskanen	kati.heiskanen@sfs.fi
JTC1/SC2	ISO	В	T. Kimura	kimura@itscj.ipsj.or.jp
JTC1/SC29	ISO	В	Y. Ogura	sc29-sec@itscj.ipsj.or.jp
JTC1/SC29/	ISO	В	Y. Ogura	sc29-sec@itscj.ipsj.or.jp
WG1 JTC1/SC32	ISO	В	T.Schoechle.	timothy@schoechle.org

NAMES OF LIAISON BODIES:

- CCSDS: Consultative Committee for Space Data Systems
- ECSS: European Corporation for Space Standardization
- ESA: European Space Agency
- ISOCS-TPM: ISO Central Secretariat-Technical Program Management
- ISO TC20/SC14: Subcommittee on space systems and operations
- ISO TC20/SC14 WG3: Working Group on operations and ground support
- ISO TC46/SC11: Subcommittee on archives/records management
- ISO TC 211: Technical Committee on geographic information/geomatics
- ISO TC46/SC04: Subcommittee on technical interoperability
- ISO JTC1/SC2: Subcommittee on coded character sets
- ISO JTC1/SC29: Subcommittee on coding audio, picture, multimedia and hypermedia information
- ISO JTC1/SC29/WG1: Working Group on coding of still pictures
- ISO JTC1/SC32: Subcommittee on data management and interchange

4.4 Changes since last plenary meeting of ISO/TC 20

Eventual changes have been updated and maintained over the past 12 months.

4.5 Inactive P-member bodies

Justifications of absence have not been received from some of the P-members who have not been attending the Subcommittee Plenary meetings in recent years.

5 Constitution

5.1 Working Groups

The following explanation justifies the reason for maintaining the Subcommittee Working Groups which, in fact, have their executive role directly justified by the corresponding CCSDS Engineering Steering Areas which, in turn, have their many executive Working Groups associated to each of them.

ISO TC20/SC13 Subcommittee performs its functions under the structure and processes of the Consultative Committee for Space Data Systems – CCSDS. The production of documents which are standardized in the ISO domain by means of the ISO TC20/SC13 Subcommittee are, in principle, effectively originated and produced by the many CCSDS technical Working Groups - WGs. CCSDS WGs are "ad-hoc" or temporary technical groups that execute a CCSDS pre-approved program of work. The products generated by CCSDS WGs are: Recommended Standards (Blue Books), Recommended Practices (Magenta Books) and supporting technical (Green Books) documents. The CCSDS products are primarily oriented to guarantee interoperability of space data systems with special attention to cross-support of multilateral agents in the execution of space missions. More details on CCSDS activities that have an impact on ISO TC20/SC13 Subcommittee can be found at the Website www.ccsds.org. Blue and Magenta Books are the CCSDS products that are regularly submitted to DIS stage for processing by ISO, under the services of ISO TC20/SC13 Subcommittee, which observes the principle of the ISO Cover Sheet process.

5.2 Changes since last plenary meeting of ISO/TC 20

There are no changes to report in respect to the constitution of ISO TC20/SC13 Subcommittee over the one year period which is under consideration.

6 Any other matters of importance to ISO/TC 20

6.1 A structured and scalable information system in full operation

At this point in time, the Subcommittee could obtain, after almost four years of a continuous development work, an information system which is formed by structured information items (folders, files, etc.). The structured information items

of the new information system observe are now grouped in a modular fashion which, among other aspects, observe: 1) A convenient creation of a group of folders; 2) A homogeneous naming of files; 3) Scalability of files in a folder. A primary and fundamental work that had to be and was executed as part of the development of this new information system, is directly related to the complete re-encoding and renaming of the old Reference *numbering* and *naming* of items, which observed an encoding format of the type **Naaa** which, till then, used *alphanumeric* code assignments under the mentioned format The new Reference encoding that was then, since 2012, adopted for ALL the Referenced encoded items, observes the new format **Nnnnn** strictly uses *four digit decimal* numbers in its encoded assignments. The new item Reference encoding format **Nnnnn** is being applied not only for each new items that have been accounted for by the Subcommittee, since 2012, but was also applied, literally, to ALL the already existing, till 2012, Reference encoded items which had been created by the Subcommittee, since its creation, in 1990. Also important to mention that the new, complete listing of the already existing old items, which are now labeled under the new **Nxxxx** Reference encoding format, also *memorizes* the old Reference **Naaa** encoding for each of those items, therefore, covering the *complete* list of items, which also contain a whole new set of more appropriate descriptors for each of the listed items.

6.2 Example of a new structured item in the new information system

An example of a new structured and scalable item which is part of the new information system which is operating in the two Websites of ISO TC20/SC13 Subcommittee illustrates, in this case, the FOLDER which contains all the Subcommittee information packages, in this case, named *Meeting Packages*, which could be compiled and which are being maintained *constantly updated*, after the realization of each new meeting of the Subcommittee. Each *Meeting Package* contained in the associated *folder* can be publicly obtained in one of the two different Subcommittee Website pages (URLs):

6.2.1 In the ISO TC20/SC13 ISO-LiveLink Website:

http://isotc.iso.org/livelink/livelink?func=Il&objId=11659509&objAction=browse&viewType=1

6.2.1 In the ISO TC20/SC13 CCSDS-CWE Website:

http://cwe.ccsds.org/cmc/docs/Forms/AllItems.aspx?RootFolder=%2fcmc%2fdocs%2flSO%20TC20-SC13%20Subcommittee%2f04%2elSO%20TC20-

SC13%20Subcommittee%20Meeting%20Packages&FolderCTID=&View=%7bD5DD30F7-53FC-45B9-8B93-709B280A475B%7d

7 Programme of work

The **Programme of Work** which is presented below reflects the status of the work items of **ISO TC20/SC13 Subcommittee** in AUGUST 2014. A more detailed presentation of the Subcommittee Program of Work, in this case, associated to its *AUGUST 2014* issue, can be found at the item http://isotc.iso.org/livelink/livelink/fetch/-8790761/8791593/8791604/10035623/46.ISO TC20-SC13 Program of Work -">http://isotc.iso.org/livelink/livelink/fetch/-8790761/8791593/8791604/10035623/46.ISO TC20-SC13 Program of Work -">http://isotc.iso.org/livelink/livelink/livelink/fetch/-8790761/8791593/8791604/10035623/46.ISO TC20-SC13 Program of Work -">http://isotc.iso.org/livelink/liveli

<u>AUGUST.2014.V.10.Sep.2014.pdf?nodeid=16791573&vernum=-2</u>, which belongs to a folder which is cumulatively updated on a monthly basis, in this way, containing also the previous monthly issues of the Subcommittee *Program of Work*. The Chairman of ISO TC20/SC13 Subcommittee wishes to mention that, on a monthly basis, if any, the updating inputs for a subsequent Subcommittee Program of Work are regularly provided by Mr. Nick Tongson who works for the secretariat of the Subcommittee. He also wishes to mention the careful and detailed, corresponding work that has been methodically executed on a monthly basis by INPE/Brazil secretary, Ms. Helen Joyce A. F. Leite in the updating work for each new, monthly issue of the Subcommittee Program of Work. This is also the case for her effort in preparing each new version of the Programme of Work for the annual Subcommittee Report to ISO/TC20, which is also the case of the current version of the *Programme of Work* which is being presented, as follows:

7.1 Published standards: 60 (Publication Stage)

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
45990	ISO 10537:2010 Space data and information transfer systems Encapsulation service	60.60	n/a	10/09/2010	CCSDS 133.1-B-2 Encapsulation Service Blue Book. Issue 2. October 2009.
59415	ISO 11104:2011 Space data and information transfer systems Time code formats	60.60	n/a	05/12/2011	CCSDS 301.0-B-4:2010 <i>Time Code Formats</i> . Blue Book. Issue 4. November 2010.
62314	ISO 15887:2013 Space data and information transfer systems Lossless data compression	60.60	n/a	29/05/2013	CCSDS 121.0-B-2:2012 Lossless Data Compression . Blue Book. Issue 2. May 2012.
61746	ISO 22664:2013 Space data and information transfer systems TC space data link protocol	60.60	n/a	29/05/2013	CCSDS 232.0-B-2:2010 TC Space Data Link Protocol . Blue Book. Issue 2. September 2010.
59415	ISO 11104:2011 Space data and information transfer systems Time code formats	60.60	n/a	05/12/2011	CCSDS 301.0-B-4 Time Code Formats . Blue Book. Issue 4. November 2010.
53985	ISO 13527:2010 Space data and information transfer systems XML formatted data unit (XFDU) structure and construction rules	60.60	n/a	10/09/2010	CCSDS 661.0-B-1 XML de dados formatados Unidade Estrutura (XFDU) e regras de construção. Blue Book. Edição 1. Setembro de 2008.
53986	ISO 13537:2010 Space data and information transfer systems Reference architecture for space data systems	60.60	n/a	29/09/2010	CCSDS 311.0-M-1 Arquitetura de Referência para Sistemas Espaciais de Dados. Livro Magenta.Edição 1. Setembro de 2008.

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
53987	ISO 13541:2010 Space data and information transfer systems Attitude data messages	60.60	n/a	10/09/2010	CCSDS 504.0-B-1 Attitude Data Messages Attitude Data Messages . Blue Book. Issue 1. May 2008 Blue Book. Issue 1. May 2008.
57284	ISO 14721:2012 Space data and information transfer systems Open archival information system (OAIS) Reference model	60.60	n/a	21/08/2012	CCSDS 650.0-M-2:2012
62314	ISO 15887:2013 Space data and information transfer systems Lossless data compression	60.60	n/a	29/05/2013	CCSDS 121.0-B-2 Lossless Data Compression . Blue Book. Issue 2. May 2012.
57320	ISO 15889:2011 Space data and information transfer systems The data description language EAST specification	60.60	n/a	14/10/2011	CCSDS 644.0-B-3 The Data Description Language EAST Specification (CCSD0010) . Blue Book. Issue 3. June 2010.
45986	ISO 15893:2010 Space data and information transfer systems Space communications protocol specification (SCPS) Transport protocol (SCPS-TP)	60.60	n/a	10/09/2010	CCSDS 714.0-B-2 Space Communications Protocol Specification (SCPS)—Transport Protocol . Blue Book. Issue 2. October 2006.
56510	ISO 16363:2012 Space data and information transfer systems - Audit and certification of trustworthy digital repositories	60.60	n/a	14/02/2012	CCSDS 652.0-M-1:2011 Audit and Certification of Trustworthy Digital Repositories . Magenta Book. Issue 1. September 2011.
59155	ISO 17107:2011 Space data and information transfer systems XML specification for navigation data messages	60.60	n/a	8/11/2011	CCSDS 505.0-B-1 <i>XML Specification for Navigation Data Messages</i> . Blue Book. Issue 1. December 2010.
59416	ISO 17214:2011 Space data and information transfer systems Spacecraft onboard interface services Time access service	60.60	n/a	15/12/2011	CCSDS 872.0-M-1 Spacecraft Onboard Interface ServicesRFID-Based Inventory Management Systems . Magenta Book. Issue 1. May 2012.
60592	ISO 17807:2013 Space data and information transfer systems - Asynchronous message service	60.60	n/a	29/05/2013	CCSDS 735.1-B-1 Asynchronous Message Service . Blue Book. Issue 1. September 2011.
60827	ISO 17854:2013 Space data and information transfer systems Flexible advanced coding and modulation scheme for high rate telemetry applications	60.60	n/a	29/05/2013	CCSDS 131.2-B-1 Flexible Advanced Coding and Modulation Scheme for High Rate Telemetry Applications .Blue Book. Issue 1. March 2012.
61741	ISO 18201:2013 Space data and information transfer systems Mission operations reference model	60.60	n/a	30/05/2013	CCSDS 520.1-M-1 Mission Operations Reference Model . Magenta Book. Issue 1. July 2010.
61742	ISO 18202:2013 Space data and information transfer systems Mission operations message abstraction layer	60.60	n/a	29/05/2013	CCSDS 521.0-B-1 - S Mission Operations Message Abstraction Layer. Silver Book. Issue 1. October 2010.
62319	ISO 18381:2013 Space data and information transfer systems Lossless multispectral and hyperspectral image compression	60.60	n/a	29/05/2013	CCSDS 123.0-B-1 Lossless Multispectral & Hyperspectral Image Compression . Blue Book. Issue 1. May 2012.
62320	ISO 18382:2013 Space data and information transfer systems Spacecraft onboard interface services RFID-based inventory management systems	60.60	n/a	29/05/2013	CCSDS 881.0-M-1 Spacecraft Onboard Interface ServicesRFID-Based Inventory Management Systems .Magenta Book. Issue 1. May 2012.

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
62447	ISO 18423:2013 Space data and information transfer systems Pseudo-Noise (PN) Ranging Systems	60.60	n/a	29/05/2013	CCSDS 414.1-B-1 Pseudo-Noise (PN) Ranging Systems . Blue Book. Issue 1. March 2009.
62448	ISO 18424:2013 Space data and information transfer systems XML Telemetric and Command Exchange (XTCE)	60.60	n/a	29/05/2013	CCSDS 660.0-B-1 XML Telemetric and Command Exchange (XTCE) . Blue Book. Issue 1. October 2007.
62449	ISO 18425:2013 Space data and information transfer systems Spacecraft Onboard Interface Services Subnetwork Packet Service	60.60	n/a	29/05/2013	CCSDS 851.0-M-1 Spacecraft Onboard Interface ServicesSubnetwork Packet Service . Magenta Book. Issue 1. December 2009.
62450	ISO 18426:2013 Space data and information transfer systems Spacecraft Onboard Interface Services Subnetwork Memory Access Service	60.60	n/a	29/05/2013	CCSDS 852.0-M-1 Spacecraft Onboard Interface ServicesSubnetwork Memory Access Service .Magenta Book. Issue 1. December 2009.
62451	ISO 18427:2013 Space data and information transfer systems Spacecraft Onboard Interface Services Subnetwork Synchronization Service	60.60	n/a	30/05/2013	CCSDS 853.0-M-1 Spacecraft Onboard Interface ServicesSubnetwork Synchronisation Service . Magenta Book. Issue 1. December 2009.
62452	ISO 18428:2013 Space data and information transfer systems Spacecraft Onboard Interface Services Subnetwork Device Discovery Service	60.60	n/a	29/05/2013	CCSDS 854.0-M-1 Spacecraft Onboard Interface ServicesSubnetwork Device Discovery Service .Magenta Book. Issue 1. December 2009.
62453	ISO 18438:2013 Space data and information transfer systems Spacecraft Onboard Interface Services Subnetwork Test Service	60.60	n/a	29/05/2013	CCSDS 855.0-M-1 Spacecraft Onboard Interface ServicesSubnetwork Test Service . Magenta Book. Issue 1. December 2009.
62454	ISO 18439:2013 Space data and information transfer systems Space Communication Cross Support Service Management Service Specification	60.60	n/a	29/05/2013	CCSDS 910.11-B-1 Space Communication Cross Support— Service Management—Service Specification . Blue Book. Issue 1. August 2009.
62455	ISO 18440:2013 Space data and information transfer systems Space Link Extension Internet Protocol for Transfer Services	60.60	n/a	29/05/2013	CCSDS 913.1-B-1 Space Link Extension—Internet Protocol for Transfer Services . Blue Book. Issue 1. September 2008.
62456	ISO 18441:2013 Space data and information transfer systems Space Link Extension Application Program Interface for Transfer Services Core Specification	60.60	n/a	29/05/2013	CCSDS 914.0-M-1 Space Link Extension—Application Program Interface for Transfer Services—Core Specification . Magenta Book. Issue 1. October 2008.
62457	ISO 18442:2013 Space data and information transfer systems Space Link Extension Application Program Interface for Return All Frames Service	60.60	n/a	29/05/2013	CCSDS 915.1-M-1 Space Link Extension—Application Program Interface for Return All Frames Service . Magenta Book. Issue 1. October 2008.
62458	ISO 18443:2013 Space data and information transfer systems Space Link Extension Application Program Interface for Return Channel Frames Service	60.60	n/a	29/05/2013	CCSDS 915.2-M-1 Space Link Extension—Application Program Interface for Return Channel Frames Service . Magenta Book. Issue 1. October 2008.

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
62459	ISO 18444:2013 Space data and information transfer systems Space Link Extension Application Program Interface for Return Operational Control Fields Service	60.60	n/a	29/05/2013	CCSDS 915.5-M-1 Space Link Extension—Application Program Interface for Return Operational Control Fields . Magenta Book. Issue 1. October 2008.
62460	ISO 18445:2013 Space data and information transfer systems Space Link Extension Application Program Interface for the Forward CLTU Service	60.60	n/a	29/05/2013	CCSDS 916.1-M-1 Space Link Extension—Application Program Interface for the Forward CLTU Service .Magenta Book. Issue 1. October 2008.
62461	ISO 18446:2013 Space data and information transfer systems Space Link Extension Application Program Interface for the Forward Space Packet Service	60.60	n/a	29/05/2013	CCSDS 916.3-M-1 Space Link Extension—Application Program Interface for the Forward Space Packet Service . Magenta Book. Issue 1. October 2008.
60590	ISO 22641:2012 Space data and information transfer systems TM (telemetry) synchronization and channel coding	60.60	n/a	13/07/2012	CCSDS 131.0-B-2:2011 TM Synchronization and Channel Coding . Blue Book. Issue 2. August 2011.
50342	ISO 22642:2005/Cor 1:2007 Space data and information transfer systems TC (telecommand) synchronization and channel coding Technical Corrigendum 1	60.60	n/a	03/10/2007	
45987	ISO 22647:2010 Space data and information transfer systems Space link identifiers	60.60	n/a	10/09/2010	CCSDS 135.0-B-3 Space Link Identifiers. Silver Book. Issue 3. October 2006.
61746	ISO 22664:2013 Space data and information transfer systems TC (telecommand) space data link protocol	60.60	n/a	29/05/2013	CCSDS 232.0-B-2 TC Space Data Link Protocol . Blue Book. Issue 2. September 2010.
61747	ISO 22667:2013 Space data and information transfer systems Communications operation procedure-1	60.60	n/a	29/05/2013	CCSDS 232.1-B-2 Communications Operation Procedure-1 . Blue Book. Issue 2. September 2010.
61743	ISO 22669:2013 Space data and information transfer systems Space link extension (SLE) Return-all-frames service	60.60	n/a	29/05/2013	CCSDS 911.1-B-3 Space Link Extension—Return All Frames Service Specification . Blue Book. Issue 3. January 2010.
61744	ISO 22670:2013 Space data and information transfer systems Space link extension (SLE) Return-channel-frames service	60.60	n/a	29/05/2013	CCSDS 911.2-B-2 Space Link Extension—Return Channel Frames Service Specification . Blue Book. Issue 2. January 2010.
58052	ISO 22671:2011 Space data and information transfer systems Space link extension (SLE) Forward communications link transmission unit (CLTU) service	60.60	n/a	08/11/2011	CCSDS 912.1-B-3 Space Link Extension—Forward CLTU Service Specification . Blue Book. Issue 3. July 2010
58053	ISO 22672:2011 Space data and information transfer systems Space link extension (SLE) Forward space packet service specification	60.60	n/a	08/11/2011	CCSDS 912.3-B-2 Space Link Extension—Forward Space Packet Service Specification . Blue Book. Issue 2. July 2010.
61745	ISO 26143:2013 Space data and information transfer systems Space link extension (SLE) Return operational control fields service	60.60	n/a	29/05/2013	CCSDS 911.5-B-2 Space Link Extension—Return Operational Control Fields Service Specification . Blue Book. Issue 2. January 2010.

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
64784	ISO/DIS 19389 Space data and information transfer systems Conjunction data message	60.60	n/a	10/09/2013	CCSDS 508.0-B-1:2013 Conjunction Data Message . Blue Book. Issue 1. June 2013.
60593	ISO/DIS 17808 Space data and information transfer systems Telemetry (TM) channel coding profiles	60.60	n/a	23/06/2014	CCSDS 131.4-M-1 <i>TM Channel Coding Profiles</i> . Magenta Book. Issue 1. July 2011.
60594	ISO/DIS 17809 Space data and information transfer systems - Delta-Differential One Way Ranging (Delta-DOR) Operations	60.60	n/a	23/062014	CCSDS 506.0-M-1 Delta-Differential One Way Ranging (Delta-DOR) Operations . Magenta Book. Issue 1. A pril 2011.
60595	ISO/DIS 17810 Space data and information transfer systems - Data Transmission and PN Ranging for 2 GHz CDMA Link via Data Relay Satellite	60.60	n/a	23/06/2014	CCSDS 415.1-B-1 Data Transmission and PN Ranging for 2 GHz CDMA Link via Data Relay Satellite .Blue Book. Issue 1. September 2011.

7.2 Registered Work items: 147 including 30 revisions

Approval stage: 50 (Approval stages)

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
57950	ISO/DIS 16919 Requirements for bodies providing audit and certification of candidate trustworthy digital repositories	50.20	n/a	24/06/2014	CCSDS 652.1-M-2:2014 Requirements for Bodies Providing Audit and Certification of Candidate Trustworthy Digital Repositories . Magenta Book. Issue 2. March 2014.

Enquiry stage: 40 (Enquiry stage)

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
38562	ISO/DIS 11754 Space data and information transfer systems Telemetry channel coding	40.98	n/a	24/10/2005	CCSDS 101.0-B-6:2002 Telemetry Channel Coding. Silver Book. Issue 6. October 2002.
36450	ISO/DIS 13420 Space data and information transfer systems Advanced orbiting systems, networks and data links Architectural specification	40.98	n/a	03/11/2004	CCSDS 701.0-B-3:2001 Advanced Orbiting Systems, Networks and Data Links: Architectural Specification.Silver Book. Issue 3. June 2001.
29443	ISO/DIS 15890 Space data and information transfer systems Advanced orbiting systems, networks and data links Audio, video and still-image communications services	40.98	n/a	04/09/2001	CCSDS 704.0-B-1-S:1994 Advanced Orbiting Systems, Networks and Data Links: Audio, Video and Still-Image Communications Services. Silver Book. Issue 1. May 1994.
67300	DIS 20205 Spacecraft Onboard Interface Systens - Low Data Rate Wireless Communications for Spacecraft Monitoring and Control	40.00	n/a	20/08/2014	CCSDS 882.0.M-1:2013 Spacecraft Onboard Interface SystemsLow Data- Rate Wireless Communications for Spacecraft Monitoring and Control . Magenta Book. Issue 1. May 2013.
67301	DIS 20206 IP over CCSDS space links	40.00	n/a	20/08/2014	CCSDS 702.1-B-1:2012 IP over CCSDS

					Space Links . Blue Book. Issue 1. September 2012.
Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
67302	DIS 20207 CCSDS Space Link Protocols over ETSI DVB- S2 Standard	40.00	n/a	20/08/2014	CCSDS 131.3-B-1:2013 CCSDS Space Link Protocols over ETSI DVB-S2 Standard . Blue Book. Issue 1. March 2013.
67303	DIS 20208 Delta - DOR Raw Data Exchange Format	40.00	n/a	20/08/2014	CCSDS 506.1-B-1:2013 Delta-DOR Raw Data Exchange Format . Blue Book. Issue 1. June 2013.
67305	DIS 20211 Spacecraft Onboard Interface Services - Device Access Service	40.00	n/a	20/08/2014	CCSDS 871.0-M-1:2013 Spacecraft Onboard Interface ServicesDevice Access Service . Magenta Book. Issue 1. March 2013.
67309	DIS 20216 Spacecraft Onboard Interface Services - Device Data Pooling Service	40.00	n/a	20/08/2014	CCSDS 871.1-M-1:2012 Spacecraft Onboard Interface ServicesDevice Data Pooling Service . Magenta Book. Issue 1. November 2012.
67306	DIS 20213 Spacecraft Onboard Interface Services - Message Transfer Service	40.00	n/a	20/08/2014	CCSDS 875.0-M-1:2012 Spacecraft Onboard Interface ServicesMessage Transfer Service . Magenta Book. Issue 1. November 2012.
67307	DIS 20214 Security Architecture for Space Data Systems	40.00	n/a	20/08/2014	CCSDS 351.0-M-1:2012 Security Architecture for Space Data Systems . Magenta Book. Issue 1. November 2012.
67308	DIS 20215 CCSDS Cryptographic Algorihtms	40.00	n/a	20/08/2014	CCSDS 352.0-B-1:2012 CCSDS Cryptographic Algorithms . Blue Book. Issue 1. November 2012.
67311	DIS 20217 Spacecraft Onboard Interface Services - File and Packet Store Services	40.00	n/a	20/08/2014	CCSDS 873.0-M-1:2012 Spacecraft Onboard Interface ServicesFile and Packet Store Services . Magenta Book. Issue 1. September 2012.

Committee Stage: 30 (Committee stage)

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
35681	ISO 13419:1997/CD Amd 1 Space data and information transfer systems Packet telemetry Amendment 1	30.98	n/a	12/10/2001	
46185	ISO 15887:2000/CD Cor 2 Space data and information transfer systems Data systems Lossless data compression Technical Corrigendum 2	30.98	n/a	26/11/2008	
35682	ISO 15889:2000/CD Amd 1 Space data and information transfer systems Data description language EAST specification Amendment 1	30.98	n/a	12/10/2011	
50246	ISO/CD 17355 Space data and information transfer systems CCSDS file delivery protocol	30.98	n/a	05/03/2010	CCSDS 727.0-B-4: 2007 CCSDS File Delivery Protocol (CFDP) . Blue Book. Issue 4. January 2007.
36379	ISO/CD 22644 Space data and information transfer systems Orbit data messages	30.98	n/a	03/11/2004	

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
60519	ISO/CD 22666 Space data and information transfer systems AOS (advanced orbiting systems) space data link protocol	30.98	n/a	18/10/2011	
50583	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	30.98	n/a 17/01/2011		
36397	ISO/CD 22672 Space data and information transfer systems Space link extension (SLE) Forward space packet service	30.98	n/a	04/05/2004	
62470	ISO/CD 12175 Space data and information transfer systems Standard formatted data units Structure and construction rules	30.99	n/a	03/07/2012	CCSDS 620.0-B-2 Standard Formatted Data Units — Structure and Construction Rules . Blue Book. Issue 2. May 1992.
62472	ISO/CD 13526 Space data and information transfer systems Tracking data message	30.99	n/a	03/07/2012	CCSDS 503.0-B-1 <i>Tracking Data Message</i> . Blue Book. Issue 1. November 2007.
62471	ISO/CD 22646 Space data and information transfer systems Space packet protocol	30.99	n/a	03/07/2012	CCSDS 133.0-B-1 Space Packet Protocol . Blue Book. Issue 1. September 2003.
67056	DIS 20104 Space data and information transfer systems Producer-Archive Interface Specification (PAIS)	30.99	n/a	16/07/2014	CCSDS 651.1-B-1:2014 Producer- Archive Interface Specification (PAIS) . Blue Book. Issue 1. February 2014.
67057	DIS 20105 Space data and information transfer systems Operation of CFDP over encapsulation service	30.99	n/a	16/07/2014	CCSDS 722.1-M-1:2014 Operation of CFDP over Encapsulation Service . Magenta Book. Issue 1. March 2014.
67058	DIS 20106 Space data and information transfer systems Mission operations common object model	30.99	n/a	16/07/2014	CCSDS 521.1-B-1:2014 Mission Operations Common Object Model . Blue Book. Issue 1. February 2014.
67059	DIS 20107 Space data and information transfer systems Spacecraft onboard interface services Device virtualization service	30.99	n/a	16/07/2014	CCSDS 871.2-M-1:2014 Spacecraft Onboard Interface ServicesDevice Virtualization Service . Magenta Book. Issue 1. March 2014.

Preparatory Stage: 20 (Preparatory stage)

Internal No.	Designate No. and Title	Stage	WG	Published on	Remarks
24682	ISO/WD 14712 Space systems Mission operations functions	20.98	n/a	13/07/1995	
36393	ISO/WD 22668 Space data and information transfer systems Space link extension (SLE) Service management specification	20.98	n/a	07/11/2003	

7.3 Possible new work items: 01 including 01 revision

Proposal Stage: 10 (Proposal stage)

Internal No.	Designate No. and Title	Stage	WG	Remarks
62446	ISO/NP 22642 Space data and information transfer systems TC	10.99	n/a	
	(telecommand) synchronization and channel coding		,	

Preliminary Stage: 00 (Preliminary stage)

Internal No.	Designate No. and Title	Stage	WG	Remarks

7.4 Work Programme Reallocation: 90 (Review stage)

Internal No.	Designate No. and Title	Stage	WG	Remarks
44866	ISO 22666:2007 Space data and information transfer systems AOS (advanced orbiting systems) space data link protocol	90.60	n/a	CCSDS 732.0-B-2 AOS Space Data Link Protocol . Blue Book. Issue 2. July 2006.
43849	ISO 26868:2009 Space data and information transfer systems Image data compression	90.60	n/a	CCSDS 122.0-B-1 Image Data Compression . Blue Book. Issue 1. November 2005.
21118	ISO 12175:1994 Space data and information transfer systems Standard formatted data units Structure and construction rules	90.92	n/a	CCSDS 620.0-B-2:1992 Standard Formatted Data Units — Structure and Construction Rules . Blue Book. Issue 2. May 1992.
53984	ISO 13526:2010 Space data and information transfer systems Tracking data message	90.92	n/a	CCSDS 503.0-B-1 Tracking Data Message . Blue Book. Issue 1. November 2007.
43829	ISO 17355:2007 Space data and information transfer systems CCSDS file delivery protocol	90.93	n/a	CCSDS 727.0-B-4:2007 CCSDS File Delivery Protocol (CFDP) . Blue Book. Issue 4. January 2007.
36376	ISO 22642:2005 Space data and information transfer systems TC (telecommand) synchronization and channel coding	90.92	n/a	CCSDS 231.0-B-2:2010 TC Synchronization and Channel Coding . Blue Book. Issue 2. September 2010.
36381	ISO 22646:2005 Space data and information transfer systems Space packet protocol	90.92	n/a	CCSDS 133.0-B-1:2003 Space Packet Protocol . Blue Book. Issue 1. September 2003.
22845	ISO 13764:1996 Space data and information transfer systems Standard formatted data units Control authority procedures	90.60	n/a	CCSDS 630.0-B-1:1993 Standard Formatted Data Units — Control Authority Procedures . Blue Book. Issue 1. June 1993.
34701	ISO 14961:2002 Space data and information transfer systems Parameter value language specification	90.93	n/a	CCSDS 641.0-B-2:2000 Parameter Value Language Specification (CCSD0006 and CCSD0008) Blue Book. Issue 2. June 2000.
26096	ISO 14962:1997 Space data and information transfer systems ASCII encoded English	90.93	n/a	CCSDS 643.0-B-1:1992 ASCII Encoded English (CCSD0002) . Blue Book. Issue 1. November 1992.
27534	ISO 15395:1998 Space data and information transfer systems Standard formatted data units Control authority data structures	90.93	n/a	CCSDS 632.0-B-1:1994 Standard Formatted Data Units — Control Authority Data Structures . Blue Book. Issue 1. November 1994.

Internal No.	Designate No. and Title	Stage	WG	Remarks
43828	ISO 15396:2007 Space data and information transfer systems Cross support reference model Space link extension services	90.93	n/a	CCSDS 910.4-B-2:2005 Cross Support Reference Model—Part 1: Space Link Extension Services . Blue Book. Issue 2. October 2005.
29441	ISO 15888:2000 Space data and information transfer systems Standard formatted data units Referencing environment	90.93	n/a	CCSDS 622.0-B-1:1997 Standard Formatted Data Units — Referencing Environment . Blue Book. Issue 1. May 1997.
39577	ISO 20652:2006 Space data and information transfer systems Producer- archive interface Methodology abstract standard	90.60	n/a	CCSDS 651.0-B-1:2004 Producer-Archive Interface Methodology Abstract Standard . Magenta Book. Issue 1. May 2004.
40247	ISO 21459:2006 Space data and information transfer systems Proximity-1 space link protocol Coding and synchronization sublayer	90.60	n/a	CCSDS 211.2-B-2:2013 Proximity-1 Space Link ProtocolCoding and Synchronization Sublayer . Blue Book. Issue 2. December 2013.
44999	ISO 21460:2007 Space data and information transfer systems Proximity-1 space link protocol Physical layer	90.93	n/a	CCSDS 211.1-B-4:2013 Proximity-1 Space Link ProtocolPhysical Layer . Blue Book. Issue 4. December 2013.
36036	ISO 21961:2003 Space data and information transfer systems Data entity dictionary specification language (DEDSL) Abstract syntax	90.93	n/a	CCSDS 647.1-B-1:2001 Data Entity Dictionary Specification Language (DEDSL)—Abstract Syntax (CCSD0011) . Blue Book. Issue 1. June 2001.
36037	ISO 21962:2003 Space data and information transfer systems Data entity dictionary specification language (DEDSL) PVL syntax	90.93	n/a	CCSDS 647.2-B-1:2001 Data Entity Dictionary Specification Language (DEDSL)—PVL Syntax (CCSD0012) .Blue Book. Issue 1. June 2001.
36377	ISO 22643:2003 Space data and information transfer systems Data entity dictionary specification language (DEDSL) XML/DTD Syntax	90.60	n/a	CCSDS 647.3-B-1:2002 Data Entity Dictionary Specification Language (DEDSL)—XML/DTD Syntax (CCSD0013) . Blue Book. Issue 1. January 2002.
36380	ISO 22645:2005 Space data and information transfer systems TM (telemetry) space data link protocol	90.93	n/a	CCSDS 132.0-B-1:2003 Lossless Multispectral & Hyperspectral Image Compression . Blue Book. Issue 1. May 2012.
45000	ISO 22663:2007 Space data and information transfer systems Proximity-1 space link protocol Data link layer	90.93	n/a	CCSDS 211.0-B-5:2013 Proximity-1 Space Link ProtocolData Link Layer . Blue Book. Issue 5. December 2013.

7.5 Standards withdrawn: 95 (Withdrawal stage)

Internal No.	Designate No. and Title	Remarks
19092	ISO 11103:1991 Space data and information transfer systems Radio metric and orbit data	CCSDS 501.0-B-1:1987 Radio Metric and Orbit Data. Silver Book. Issue 1. January 1987.
19093	ISO 11104:1991 Space data and information transfer systems Time code formats	CCSDS 301.0-B-2:1990 Time Code Formats. Silver Book. Issue 2. April 1990.
38141	ISO 11104:2003 Space data and information transfer systems Time code formats	CCSDS 301.0-B-3:2002 Time Code Formats. Silver Book. Issue 3. January 2002.
19675	ISO 11754:1994 Space data and information transfer systems Telemetry channel coding	CCSDS 101.0-B-3:1992 <i>Telemetry Channel Coding</i> . Silver Book. Issue 3. May 1992.
33004	ISO 11754:2003 Space data and information transfer systems Telemetry channel coding	CCSDS 101.0-B-5:2001 Telemetry Channel Coding. Silver Book. Issue 5. June 2001.
21114	ISO 12171:1998 Space data and information transfer systems Telecommand Channel service Architectural specification	CCSDS 201.0-B-2:1995 <i>Telecommand Part 1—Channel Service</i> . Silver Book. Issue 2. November 1995.
34711	ISO 12171:2002 Space data and information transfer systems Telecommand Channel service	CCSDS 201.0-B-3-S <i>Telecommand Part 1—Channel Service</i> . Silver Book. Issue 3. June 2000.

Internal No.	Designate No. and Title	Remarks
21115	ISO 12172:1998 Space data and information transfer systems Telecommand Data routing service	CCSDS 202.0-B-2-S Telecommand Part 2—Data Routing Service. Silver Book. Issue 2. November 1992.
36591	ISO 12172:2003 Space data and information transfer systems Telecommand Data routing service	CCSDS 202.0-B-3:2001 <i>Telecommand Part 2—Data Routing Service.</i> Silver Book. Issue 3. June 2001.
21116	ISO 12173:1998 Space data and information transfer systems Telecommand Command operation procedures	CCSDS 202.1-B-1:1991 Telecommand Part 2.1—Command Operation Procedures. Silver Book. Issue 1. October 1991.
36447	ISO 12173:2003 Space data and information transfer systems Telecommand Command operation procedures	CCSDS 202.1-B-2:2001 Telecommand Part 2.1—Command Operation Procedures. Silver Book. Issue 2. June 2001.
21117	ISO 12174:1998 Space data and information transfer systems Telecommand Data management service Architectural specification	CCSDS 203.0-B-1:1987 Telecommand Part 3—Data Management Service. Silver Book. Issue 1. January 1987.
36446	ISO 12174:2003 Space data and information transfer systems Telecommand Architectural specification for the data management service	CCSDS 203.0-B-2:2001 Telecommand Part 3—Data Management Service. Silver Book. Issue 2. June 2001.
21968	ISO 13419:1997 Space data and information transfer systems Packet telemetry	CCSDS 102.0-B-4:1995 Packet Telemetry. Silver Book. Issue 4. November 1995.
36479	ISO 13419:2003 Space data and information transfer systems Packet telemetry	CCSDS 102.0-B-5:2000 Packet Telemetry. Silver Book. Issue 5. November 2000.
21969	ISO 13420:1997 Space data and information transfer systems Advanced orbiting systems Networks and data links Architectural specification	CCSDS 701.0-B-2:1992 Advanced Orbiting Systems, Networks and Data Links: Architectural Specification.Silver Book. Issue 2. November 1992.
24683	ISO 14721:2003 Space data and information transfer systems Open archival information system Reference model	CCSDS 650.0-B-1:2002 Reference Model for an Open Archival Information System (OAIS). Silver Book. Issue 1. January 2002.
26095	ISO 14961:1997 Space data and information transfer systems Parameter value language specification	CCSDS 641.0-B-1:1992 Parameter Value Language Specification (CCSD0006). Silver Book. Issue 1. May 1992.
27535	ISO 15396:1998 Space data and information transfer systems Cross support reference model Space link extension services	CCSDS 910.4-B-1-S:1996 Cross Support Reference Model—Part 1: Space Link Extension Services. Silver Book. Issue 1. May 1996.
29440	ISO 15887:2000 Space data and information transfer systems Data systems Lossless data compression	CCSDS 121.0-B-1-S Lossless Data Compression. Silver Book. Issue 1. May 1997.
52985	ISO 15887:2000/Cor 1:2009 Space data and information transfer systems Data systems Lossless data compression Technical Corrigendum 1	
29442	ISO 15889:2000 Space data and information transfer systems Data description language EAST specification	CCSDS 644.0-B-1-S:1997 The Data Description Language EAST Specification (CCSD0010). Silver Book. Issue 1. May 1997.
36451	ISO 15889:2003 Space data and information transfer systems Data description language EAST specification	CCSDS 644.0-B-2-S:2000 The Data Description Language EAST Specification (CCSD0010). Silver Book. Issue 2. November 2000.
29444	ISO 15891:2000 Space data and information transfer systems Protocol specification for space communications Network protocol	CCSDS 713.0-B-1:1999 Space Communications Protocol Specification (SCPS)— Network Protocol (SCPS-NP).Silver Book. Issue 1. May 1999.
29445	ISO 15892:2000 Space data and information transfer systems Protocol specification for space communications Security protocol	CCSDS 713.5-B-1:1999 Space Communications Protocol Specification (SCPS)— Security Protocol (SCPS-SP).Silver Book. Issue 1. May 1999.
29446	ISO 15893:2000 Space data and information transfer systems Protocol specification for space communications Transport protocol	CCSDS 714.0-B-1:1999 Space Communications Protocol Specification (SCPS)— Transport Protocol (SCPS-TP).Silver Book. Issue 1. May 1999.
29447	ISO 15894:2000 Space data and information transfer systems Protocol specification for space communications File protocol	CCSDS 717.0-B-1-S Space Communications Protocol Specification (SCPS)—File Protocol (SCPS-FP). Silver Book. Issue 1. May 1999.
33005	ISO 17355:2003 Space data and information transfer systems CCSDS file delivery protocol	CCSDS 727.0-B-1 S:2002 CCSDS File Delivery Protocol (CFDP). Silver Book. Issue 1. January 2002.
38593	ISO 17355:2004 Space data and information transfer systems CCSDS file delivery protocol	
28460	ISO 17433:2001 Space data and information transfer systems	CCSDS 103.0-B-1 S:1996 Packet Telemetry Services. Silver Book. Issue 1. May

	Packet telemetry services	1996.
Internal No.	Designate No. and Title	Remarks
36448	ISO 17433:2003 Space data and information transfer systems Packet telemetry services	CCSDS 103.0-B-2 S:2001 Packet Telemetry Service Specification. Silver Book. Issue 2. June 2001.
40248	ISO 21460:2006 Space data and information transfer systems Proximity-1 space link protocol Physical layer	CCSDS 211.1-B-1 Proximity-1 Space Link Protocol—Physical Layer. Silver Book. Issue 1. April 2003.
36375	ISO 22641:2005 Space data and information transfer systems TM (telemetry) synchronization and channel coding	CCSDS 131.0-B-1:2003 TM Synchronization and Channel Coding. Silver Book. Issue 1. September 2003.
42722	ISO 22644:2006 Space data and information transfer systems Orbit data messages	CCSDS 502.0-B-2-S:2009 Orbit Data Messages . Blue Book. Issue 2. November 2009
36383	ISO 22647:2006 Space data and information transfer systems Space link identifiers	CCSDS 135.0-B-2-S:2005 Space Link Identifiers. Silver Book. Issue 1. January 2002.
36386	ISO 22663:2006 Space data and information transfer systems Proximity-1 space link protocol Data link layer	CCSDS 211.0-B-3:2004 Proximity-1 Space Link Protocol—Data Link Layer. Silver Book. Issue 3. May 2004.
36389	ISO 22664:2005 Space data and information transfer systems TC (telecommand) space data link protocol	CCSDS 232.0-B-1-S <i>TC Space Data Link Protocol.</i> Silver Book. Issue 1. September 2003.
36391	ISO 22666:2005 Space data and information transfer systems AOS (advanced orbiting systems) space data link protocol	CCSDS 732.0-B-1:2003 AOS Space Data Link Protocol. Silver Book. Issue 1. September 2003.
36392	ISO 22667:2005 Space data and information transfer systems Communication operations Procedure-1	CCSDS 232.1-B-1-S Communications Operation Procedure-1. Silver Book. Issue 1. September 2003.
36394	ISO 22669:2003 Space data and information transfer systems Space link extension (SLE) Return-all-frames service	CCSDS 911.1-B-1:2002 Space Link Extension – Return All Frames Service Specification. Silver Book. Issue 1. April 2002.
43442	ISO 22669:2007 Space data and information transfer systems Space link extension (SLE) Return-all-frames service	CCSDS 911.1-B-2-S Space Link Extension – Return All Frames Service Specification. Silver Book. Issue 2. November 2004.
36396	ISO 22671:2005 Space data and information transfer systems Space link extension (SLE) Forward command link transmission unit (CLTU)	CCSDS 912.1-B-1:2002 Space Link Extension – Forward CLTU Service Specification. Silver Book. Issue 1. April 2002.
42721	ISO 22672:2006 Space data and information transfer systems Space link extension (SLE) Forward space packet	CCSDS 912.3-B-1 Space Link Extension – Forward Space Packet Service Specification. Silver Book. Issue 1. November 2004.
43394	ISO 26143:2007 Space data and information transfer systems Space link extension (SLE) Return operational control fields service	CCSDS 911.5-B-1-S Space Link Extension – Return Operational Control Fields Service Specification. Silver Book. Issue 1. November 2004.

International harmonized stage codes

STAGE	SUBSTAGE						
				90 Decision Subst	ages		
	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 proposa 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

This annual report was prepared by the undersigned ISO TC20/SC13 Subcommittee Chairman and Secretary, as follows:

EDUARDO W. BERGAMINI Chairman, ISO TC20/SC13 Subcommittee MICHAEL W. KEARNEY Secretary, ISO TC20/SC13 Subcommittee

September 25, 2014

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