



Secretariat of ISO/TC 20/SC 13

our date  
2002-06-05

our reference  
ISO/TC 20/SC 13/N274

your date

your reference

TO: ISO/TC20/SC13 Distribution List

FROM: ISO/TC20/SC13 Secretariat

SUBJECT: Draft Minutes of ISO/TC20/SC13 Meeting of 19 April 2002

Attached is a copy of the draft minutes of the 19 April 2002 meeting of ISO/TC20/SC13 (SC13) held in Oberpfaffenhofen, Germany.

Best regards,

A handwritten signature in black ink, reading 'John D. Kelley' in a cursive script.

John D. Kelley  
ISO/TC 20/SC 13 General Secretary

**SUBJECT:** Minutes of the Twenty-second International Organization for Standardization (ISO)/Technical Committee (TC) 20/ Subcommittee (SC) 13 Meeting

**PLACE:** Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) Oberpfaffenhofen, Germany

**DATE:** 19 April 2002

## 1. ATTENDANCE

<u>Organization</u>	<u>Name</u>
ASI	Loredana Bruca
BNSC/RAL	Peter Allan David Giaretta
CAST	Chonghua Liu Yu-Jia-Ying Zhao Heping
CNES	Geneviève Campan François Forestier
DLR	Manfred Drexler
ESA	Jean-François Kaufeler Michel Morlon
ISAS	Takahiro Yamada
NASA	Jack Kelley Adrian Hooke Andy Downen Felipe Flores-Amaya Linda Kezer Neil Dissinger
NASDA	Mikio Sawabe

## 2. OPENING OF MEETING

Mr. François Forestier convened the meeting at 1100 hours on 19 April 2002.

## 3. ROLL CALL

Mr. Forestier conducted a roll call; representatives from Canada, Ukraine, and the Russian Federation were not in attendance.

## 4. ADOPTION OF THE AGENDA

The agenda was approved as presented. The agenda is Attachment 1.

## 5. APPOINTMENT OF DRAFTING COMMITTEE

In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolved that Ms. Linda Kezer and Mr. Neil Dissinger, in support of the SC 13 Secretariat, would be responsible for drafting and distributing the meeting minutes.

## 6. REPORT OF THE SC13 SECRETARIAT

Mr. Kelley presented the Secretariat's report (Attachment 2). The minutes of the June 2001 meeting were approved. Mr. Forestier stated that he will continue as the chairman of ISO TC20/SC13 in place of Mr. Roland Ivarnez until November 2002.

Concerning action items from the previous meeting, it was reported that CNES and NASDA provided updates to the SC13 directory. Also, Ms. Kezer reported that no responses were received from the requests to verify the status of TC20/SC13 Liaisons. TC20/SC13 will continue to provide documentation and correspondence to the Liaisons. Both the open action items were closed

## 7. REPORT OF DELEGATES REGARDING ACTIVITY RELATING TO SC 13

**Brazil.** Mr. Eduardo Bergamini was not in attendance, but provide his report in Attachment 3.

**Canada.** There was no representative from Canada and no report.

**China.** No report.

**France.** Mr. Forestier reported that France is represented by AFNOR (French Normalisation Organisation) for the ISO votes. The Bureau de Normalisation de l'Aeronautique et de l'Espace

(BNAE) is responsible for the review of the documentation. CNES implementations and document activities are shown in Attachment 4.

**Germany.** No report.

**Italy.** No report.

**Japan.** Mr. Mikio Sawabe provided directory updates and ISO document dispositions in Attachment 5.

**United Kingdom.** Dr. Peter Allan stated that tracking of the standards work of TC20/SC13, TC20/14, and liaison with ECSS has been centralized under panel panel ACE/68/-/7 at the British Standards Institute. The BNSC Mosaic programme is jointly funding the TOPSAT mission that will utilize SC13 standards. The United Kingdom Report is shown in Attachment 6.

**United States.** Mr. Adrian Hooke reported that the TC 20 Plenary was poorly attended and no report was provided. Also, the USSCAG13 is not receiving documents for review. There apparently is a problem either at ANSI or SAE. The TC20/SC13 Secretariat will investigate the distribution problem (SC-F02-1). The United States Report is shown in Attachment 7.

## **8. REPORT OF DELEGATES REGARDING SC13 LIAISON ACTIVITIES**

There were no liaison reports.

## **9. CONSIDERATION OF NEW PROJECTS/ENDORSEMENT OF EXISTING STANDARDS FROM NON-ISO BODIES**

There were no items presented.

## **10. ANY OTHER BUSINESS**

The CCSDS Management Council submitted two documents for consideration by TC20/SC13. These items were approved and are included in the Resolutions.

## **11. REQUIREMENTS CONCERNING A SUBSEQUENT MEETING**

The next SC13 meeting was set for fall 2002 in the US to be contiguous with the CCSDS Management Council meeting.

**12. APPROVAL OF RESOLUTIONS**

Ms. Kezer itemized the Resolutions taken during the meeting together with the Action Items. These were approved.

**13. ADJOURN**

Mr. Forestier adjourned the meeting.

**ISO/TC20/SC 13**  
**Draft Resolutions**  
**19 April 2002**

- SC-F02-R01** In compliance with the ISO requirement to appoint a drafting committee, TC20/SC 13 resolves that Ms. Linda Kezer and Mr. Neil Dissinger, TC20/SC13 Secretariat, will be responsible for drafting and distributing the 19 April 2002 meeting minutes.
- SC-F02-R02** TC20/SC13 resolves to register the CCSDS document *Space Link Extension - Return All Frames Service Specification* (CCSDS 911.1) as a Draft International Standard document.
- SC-F02-R03** TC20/SC13 resolves to register the CCSDS document *Space Link Extension – Forward CLTU Service Specification* (CCSDS 912.1) as a Draft International Standard document.
- SC-F02-R04** TC20/SC13 thanks the Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) for the gracious hospitality shown during the meeting.

**ISO/TC20/SC 13**  
**Action Items**  
**19 April 2002**

The following action was developed during the meeting.

**SC-F02-1**      Investigate why USSCAG13 is not receiving review documents from ANSI.  
Assignee:      Secretariat  
Due Date:      July 2002

**ATTACHMENT 1**

**DRAFT AGENDA**

**22nd Meeting of ISO/TC 20/SC 13**  
**DLR Oberpfaffenhofen, Germany**  
**19 April 2002**

**DRAFT AGENDA**

1. Opening of the meeting (1000 hours)
2. Roll call of delegates
3. Adoption of the agenda (ISO/TC 20/SC 13/N268.1)
4. Appointment of drafting committee
5. Report of the secretariat
  - Approval of Draft Minutes of the Spring 2001 Meeting
  - Review Program of Work
  - Status of Open Action Items
6. Report of delegates regarding activities relating to SC 13
7. Report of delegates regarding SC13 liaison activities
8. Consideration of new projects/endorsement of existing standards from non-ISO bodies
9. Any other business
  - Appointment of successor to Mr. Ivarnez for SC13 chairmanship
10. Requirements concerning a subsequent meeting
11. Approval of resolutions and action items
12. Adjourn – 1200

**ATTACHMENT 2**  
**SECRETARIAT'S REPORT**

**ISO TC 20/SC 13 Secretariat's Report**  
**Oberpfaffenhofen, Germany**  
**19 April 2002**

Enclosed are the following documents:

<b>Document</b>	<b>N #</b>
Draft Agenda	N268.1
Status of ISO TC 20/SC 13 Work Programme	N132
Status of SC 13 Open Action Items	N/A
Log of Documents for ISO TC 20/SC 13	N18
Log of Documents Received from ISO Central	N/A



## Status of ISO TC20/SC13 Work Program

02-3-13

Status	ISO #	CCSDS #	Form 8A Release	Cover Letter Approved	Balloting Received	Form 13 Release	ISO Date	Comments
ISO	11103	501.0-B-1					1991	Reconfirmed 2000
ISO	11104	301.0-B-2					1991	Reconfirmed 2000
DIS	11754	101.0-B-5	01-11-27	01-12-14				Voting begins 02-02-07; ends 02-07-07
DIS	12171	201.0-B-3	00-08-24	00-10-13	01-10-11			DIS balloting completed 01-07-23 IS scheduled for 02-01-31
DIS	12172	202.0-B-3	01-11-02	01-11-28				Voting begins 02-02-07; ends 02-07-07
DIS	12173	202.1-B-2	01-11-02	01-11-28				Voting begins 02-02-07; ends 02-07-07
DIS	12174	203.0-B-2	01-11-02	01-11-28				Voting begins 02-02-07; ends 02-07-07
ISO	12175	620.0-B-2					1994	Reconfirmed 1999
DIS	13419	102.0-B-5	01-05-14	01-11-28				Voting begins 02-02-31; ends 02-06-30
DIS	13420	701.0-B-3	01-11-02	01-11-28				Voting begins 02-02-07; ends 02-07-07
ISO	13764	630.0-B-1					1996	
DIS	14721	650.0-R-2	99-08-06	01-11-27				Voting begins 02-01-24; ends 02-03-24 Expect to skip FDIS phase if 2nd DIS is approved by all members
FDIS	14961	641.0-B-2	00-08-24	00-10-13	01-08-01	01-11-27		Final Proof received and approved.
ISO	14962	643.0-B-1					1997	
ISO	15395	632.0-B-1					1998	
ISO	15396	910.4-0-1					1998	
ISO	15887	121.0-B-1					2000	



# Status of ISO TC20/SC13 Work Program

02-3-13

Status	ISO #	CCSDS #	Form 8A Release	Cover Letter Approved	Balloting Received	Form 13 Release	ISO Date	Comments
ISO	15888	622.0-B-1					2000	
DIS	15889	644.0-B-2	01-03-02	02-02-05				DIS registered on 02-03-07
ISO	15891	713.0-B-1					2000	Being revised
ISO	15892	713.5-B-1					2000	
ISO	15893	714.0-B-1					2000	
ISO	15894	717.0-B-1					2000	
DIS	17355	727.0-B-1	01-03-02	01-11-27				Voting begins 02-01-24; ends 02-06-24
DIS	17433	103.0-B-2	01-11-21	01-11-28				Voting begins 02-02-07; ends 02-07-07
DIS	21961	647.1-B-1	02-02-06					DIS registered on 02-03-07
DIS	21962	647.2-B-1	02-02-06					DIS registered on 02-03-07
AWI	22641	131.0-R-1						
AWI	22642	231.0-R-1						
DIS	22643	647.3-R-1	01-07-21	01-11-28				Voting begins 02-02-07; ends 02-07-07
AWI	22644	502.0-R-1						
AWI	22645	132.0-R-1						
AWI	22646	133.0-R-1						
AWI	22647	135.0-R-1						

# Status of ISO TC20/SC13 Work Program



Status	ISO #	CCSDS #	Form 8A Release	Cover Letter Approved	Balloting Received	Form 13 Release	ISO Date	Comments
AWI	22663	211.0-R-3						
AWI	22664	232.0-R-1						
AWI	22666	732.0-R-1						
AWI	22667	232.1-R-1						
AWI	22668	910.5-R-2						
AWI	22669	911.1-R-2						
AWI	22670	911.2-R-2						
AWI	22671	912.1-R-2						
AWI	22672	912.3-R-3						
	xxxx	910.7-R-1						

ISO TC20/SC13 Minutes

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**ACTION ITEMS**  
**ISO/TC 20/SC 13 MEETING**  
**RAL, UK**  
**6-7 June 2001**

The following actions were developed during the Spring 2001 SC13 meeting.

- SC-S01-1**      Review SC13 Directory and provide any updates, especially for the ISO body within the respective country, including email addresses.  
Assignee:      All Members  
Due Date:      November 2001  
Status:        **Open**
- SC-S01-2**      Review SC 13 liaisons list as to who requested the liaison and if there is still an interest in maintaining a liaison relationship. Agencies should review and confirm appropriate contacts within SC 13.  
Assignee:      All Members  
Due Date:      November 2001  
Status:        **Open**
- SC-S01-3**      Review “Stagnating Items” list received from ISO Central for CCSDS documents that have become obsolete and withdraw any identified items from ISO.  
Assignee:      Secretariat  
Due Date:      November 2001  
Status:        **Closed.** Notified ISO of cancellation of DIS 15890.

**LOG OF DOCUMENTS FOR ISO TC 20/SC 13**

as of April 2002

<b>N #</b>	<b>Date Issued</b>	<b>Status *</b>	<b>Description</b>
N1	90-04-26	S (N1/1)	Notice of 90-09-24 meeting/Draft Agenda
N1/1	90-08-14		Revised Agenda
N2	90-09-24		USSR Proposal on Liquid Rocket Engine Testing
N3	90-09-24	S (N20)	ISO TC 20/SC 13 Charter & Scope
N4	90-09-25		Report of SC 13 Secretariat
N5	90-09-25		Resolutions of First Meeting
N6	90-10-15		Minutes of First Meeting
N7	90-10-15	S (N18)	Communications Log
N8	90-10-15	S (N15)	Project Log
N9	91-02-14		DIS 11103 Radio Metric & Orbit Data (English)
N10	91-02-14		DIS 11103 Radio Metric & Orbit Data (French)
N11	91-02-14		DIS 11104 Time Code Formats (English)
N12	91-02-14		DIS 11104 Time Code Formats (French)
N13	91-02-14		Cancellation Notice for 25 April 1991 SC 13 Meeting
N14	91-02-14	S (N18)	Communications Log
N15	91-02-14		Project Log
N16	91-03-05		SC 13 Status Report to TC 20 Plenary
N17	91-03-05	S (N165)	SC 13 Master Plan
N18	91-03-05		Log of "N" Numbered Documents
N19	91-04-26		Preliminary Notice of Meeting and Status Report
N20	91-04-26		ISO TC 20/SC 13 Charter & Scope (Approved at TC 20 Plenary)
N21	91-04-26		SC 13 Master Directory
N22	91-06-19		Notice of 91-10-03 meeting/Draft Agenda
N23	91-06-27		Meeting Arrangement Letter to Delegates
N24	91-09-13		ISO/TC 20/WG 6 Status and Future Activities (reissue of ISO/TC 20 N2671)
N25	91-09-13		Report on Ballot for DIS 11103 and DIS 11104
N26	91-10-03		Liaison to CCSDS re new topics
N27	91-10-03		Contribution on the formation of new TC for Space (Abram)
N28	91-10-03		New work proposal by France (included in ballot response to DIS 11103/11104)
N29	91-10-03		Work on ISO on Certification and Quality Assurance (Abram)
N30	91-10-03		Draft of ISO Development Program for 1992-1994 (Abram)
N31	91-10-09		Liaison Report to CCSDS
N32	91-12-01		ISO 11103 (IS on Radio Metric and Orbit Data)
N33	91-12-01		ISO 11104 (IS on Time Code Formats)
N34	91-12-31		Welcoming letter to JISC as P-Member
N35	91-12-31		Minutes of second meeting of ISO/TC 20/SC 13
N36	92-02-21	S(N38/1)	Draft agenda for 92-05-22 meeting
N37	92-04-22		Report of the secretariat at 92-05-22 meeting
N38	92-04-22	S(N38/1)	Second notice/agenda for 92-05-22 meeting
N38/1	92-05-22		Approved agenda of 92-05-22 meeting
N39	92-05-22		Presentation by Mr. Abram

N40	92-05-22	Sustainable Industrial Development paper (Abram)
N41	92-05-22	Article (N40 topic) from ISO Bulletin (92-04)
N42	92-05-22	Notice on Symp. on Space Tech. for Environment
N43	92-05-22	World-wide Recognition of OSI Test Results
N44	92-05-22	Resolutions of 92-05-22 meeting of ISO/TC 20/SC 13
N45	92-07-22	Minutes of 92-05-22 meeting of ISO/TC 20/SC 13
N46	92-07-22	Report of ISO/TC 20/SC 13 to ISO/TC 20 Plenary (92-10)
N47	92-08-10	Draft Agenda for 92-11-17 meeting of ISO/TC 20/SC 13
N48	92-08-10	Hotel Arrangements for 92-11-17 Meeting
N49	92-12-15	Letter to ISO Central Secretariat re 92-11-17 Meeting
N50	92-12-11	Letter to Ziemann re ISPRS Type B Liaison
N51	92-12-17	Minutes of 4th meeting of ISO/TC 20/SC 13
N52	93-01-29	Letter to ISO Central Secretariat re DIS 12175 ballot request
N53	93-03-17	Draft Agenda for 93-06-09 meeting of ISO/TC 20/SC 13
N54	93-02-22	SC13 Secretariat Report for 93-06-09 Meeting
N55	93-04-26	Revised Notice of 93-06-09 Meeting and Agenda
N56	93-06-09	Minutes of 5th meeting of ISO/TC20/SC13 (Brazil)
N57	93-07-08	Letter to ISO Central Secretariat
N58	93-07-26	Preliminary Notice of 93-10 Meeting and Agenda
N59	93-09-20	Revised Notice of 93-10 Meeting and Agenda
N60	93-10-29	SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Vienna
N61	93-11-14	Minutes of 6th Meeting of ISO/TC20/SC13 (Vienna)
N62	94-01-24	Preliminary Notice of 93-05-06 Meeting and Agenda
N63	94-02-25	SC13 Secretariat Report to TC20 Plenary at Beijing
N64	94-02-25	Revised Notice of 93-05-06 Meeting and Agenda
N65	94-03-09	Form 8A Submission for DIS 13419 (Packet Telemetry)
N66	94-03-09	Form 8A Submission for DIS 13764 (SFDU CA)
N67	94-03-09	Transmittal Letter to ISO re DIS13419/13764
N68	94-03-24	Form 8A Submission for DIS 12171 (T/C-Channel Services)
N69	94-03-24	Form 8A Submission for DIS 12172 (T/C-Data Routing Services)
N70	94-03-24	Form 8A Submission for DIS 12173 (T/C-Command Operating Procedures)
N71	94-03-24	Form 8A Submission for DIS 12174 (T/C-Data Management Services)
N72	94-03-24	Form 8A Submission for DIS 12175 (SFDU-Structure & Construction Rules)
N73	94-03-24	Transmittal Letter to ISO re DIS12171-12175
N74	94-04-08	SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Villafranca
N75	94-09-27	S(N75/1) Minutes of 7th Meeting of ISO/TC20/SC13 (Villafranca)
N75/1	94-10-14	Correction to Attachment D to Minutes of 7th Meeting
N76	94-09-28	Form 8A Submission for DIS 13764 F (SFDUs CA Procedures)
N77	94-09-29	Transmittal Letter to ISO re DIS 13764 F
N78	94-10-13	Draft Agenda for 94-11-11 Meeting
N79	94-10-13	SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Greenbelt
N80	94-11-02	Letter to Mr. A. V. Mitin, NIISU Director (Russia)
N81	95-02-01	Minutes of 8th Meeting of ISO/TC20/SC13 Meeting in Greenbelt
N82F	94-11-15	Form 8A Submission for DIS 12172 (F) (T/C-Data Routing Services)
N83F	94-11-15	Form 8A Submission for DIS 12174(F) (T/C-Data Management Services)
N84	94-11-15	Transmittal Letter to ISO re DIS 12172 and 12174 (F)

N85	94-11-15		New Work Item Proposal by SC 14 re Space Systems-Archiving Space Data
N86	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Concept
N87	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Function
N88	94-12-20		Liaison between ISO/TC 211 and ISO/TC 20/SC 13
N89F	94-11-15		Form 8A Submission for DIS 13419 (Packet Telemetry) (F)
N90	94-11-15		Transmittal Letter to ISO re DIS 13419
N91	94-12-12		Letter to ISO Central Secretariat re 94-11-11 Meeting
N92	94-12-13		Current Status of ISO/TC 20 Draft Standards
N93	95-01-06		Liaison between INTELSAT and ISO/TC 20/SC 13
N94	95-01-06		Liaison between CEOS and ISO/TC 20/SC 13
N95	95-01-12	S(N95/1)	Preliminary Notice of 1995-05-12 Meeting and Agenda
N95/1	95-03-10		Draft Agenda for 95-05-12 Meeting
N96	95-03-17		Letter to ISO/TC20/SC13 Distribution re 1995-05-12 Mtg
N97	95-05-01		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in St. Hubert
N98	95-05-12		Form 8A for DIS 13420 (AOS Networks&Data Links:Architectural Specification)
N99	95-05-	C	Transmittal Letter to ISO re DIS 13420
N100	95-05-26		Letter to ISO Central Secretariat re 95-05-12 Meeting
N101	95-05-12		Minutes of 9th Meeting of ISO/TC20/SC13 in St. Hubert
N102	95-05-12		Form 8A Submission for CCSDS 641.0-B-1 (Parameter Value Language Spec) DIS
N103	95-05-12		Form 8A Submission for CCSDS 642.0-B-1 (ASCII Encoded English) as DIS
N104	95-06-09		Letter to ISO/TC 20/SC 13 Distribution re Update to Directory
N105	95-06-12		Letter to Standards Council of Canada
N106	95-07-10		SC13 Secretariat Report to TC20 Plenary at Washington DC
N107	95-07-05		Letter to ISO Central Secretariat re Data Archiving WI
N108	95-07-05		Letter to ISO Central Secretariat re Mission Ops WI's (joint letter from SC13 and 14)
N109	95-07-03	S(N109/1)	Preliminary Notice of 1995-11-16 Meeting and Agenda
N109/1	95-11-07		Draft Agenda for 95-11-16 Meeting
N110	95-10-12		SC 13 Secretariat Report to ISO/TC20/SC13 Mtg in Toulouse
N111	95-08-07		Letter to ISO/TC20/SC13 Chair re 13419 Report of Voting
N112	95-08-08		Letter to ISO Central, Approval of coversheet document for ISO/DIS 14961 and 14962
N113	95-08-09		Letter to ISO Central Secretariat re Request for Addition to Cover Pages for ISO/DIS 12171 thru 12174
N114	95-08-21		Letter to ISO/TC20/SC13 Chair re 13764 Report of Voting
N115	95-09-11		Letter to ISO/TC20/SC13 Distribution re 1995-11-16 Mtg
N116	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12172 Report of Voting
N117	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12174 Report of Voting
N118	95-10-02		Letter to ISO Central, Approval of coversheet document for ISO/DIS 13420
N119	95-10-05		Letter to ISO Central Secretariat re Addition to cover pages for ISO 12171, 12172, and 12173 and 12174
N120	95-10-12		Information for ISO/TC 20/SC 13 10th Meeting -16 November 1995
N121	95-11-10		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Toulouse
N122	95-11-16		Minutes of 10th Meeting of ISO/TC 20/SC 13 in Toulouse
N123	95-11-28		Letter to ISO Central Secretariat, Approval of Proof for ISO 13764
N124(F)	95-12-04		Letter to ISO Central Secretariat re ISO/DIS 13420 - corrected page to French text
N125	96-01-22		Letter to ISO Central Secretariat re 95-11-16 Meeting
N126(F)	95-12-04		Form 8A, Submission for ISO/DIS 14962 (ASCII Encoded English)

N127	96-01-22	Letter to Mr. Niechoda (Poland)
N128	96-01-22	Letter to Mr. Taneja (India)
N129	96-01-22	S(N129/1) Preliminary Notice of 1996-05-14 Meeting and Agenda
N129/1	96-05-01	Draft Agenda for 96-05-14 Meeting
N130(F)	96-01-17	Form 8A, Submission for ISO/DIS 14961 (Parameter value language Specification) (F)
N131	96-01-23	Letter to SC 13 re Review of ISO 11103 and 11104
N132	96-02-05	Status of ISO/TC 20/SC 13 Work Program
N133	96-03-05	Letter to TC 211 re Liaison activities
N134	96-02-07	Letter to ISO Central Secretariat re NWI 14721, Space systems - Archiving space data
N135	96-03-12	Letter to ISO/TC 20/SC 13 regarding May 1996 meeting
N136	96-05-01	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Pasadena
N137	96-05-14	Minutes of 11th Meeting of ISO/TC 20/SC 13 in Pasadena
N138	96-05-22	Archiving Model to Canada for transmittal to TC211
N139	96-06-11	Letter to ISO Central re DIS 12171.2 -- Telecommand--Channel Service
N140	96-06-11	Letter to ISO Central re DIS 13419 -- Packet Telemetry
N141	96-06-11	Letter to ISO Central Secretariat re 96-05-14 Meeting
N142	96-06-11	Letter to ISO/TC 211 re Relationship between CCSDS and TC 20/SC 13
N143(E)	96-06-11	Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units--Control Authority Data Structures)
N143(F)	97-05-09	Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units--Control Authority Data Structures)
N144(E)	96-06-11	Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (English text)
N144(F)	96-	Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (French text)
N145	96-07-03	Preliminary Notice of 1996-11-15 Meeting and Agenda
N146	96-07-15	Letter to ISO/TC 20/SC 13 regarding Status of Proposed Work Items in the Mission Operations Area
N147	96-07-22	Letter to ISO Central re revised French & English texts for ISO/DIS 13419
N148	96-07-22	Letter to ISO Central re English text for ISO/DIS 12171:2
N148(F)	96-08-07	Letter to ISO Central re French text for ISO/DIS 12171:2
N149	96-08-07-	Letter to ISO Central re Liaisons with other ISO committees
N150	96-09-06	Periodical Review of International Standards (11103 and 11104)
N151	96-09-16	Letter to ISO Central re CCSDS Work Items
N152	96-10-03	Letter to Mr. Wittner (Argentina)
N153	96-11-15	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Germany
N154	96-11-15	Minutes of 12th Meeting of ISO/TC 20/SC 13 in Germany
N155	97-01-21	Preliminary Notice of 1997-05-28 Meeting and Agenda
N155/1	97-05-15	Draft Agenda for 1997-05-28 Meeting
N156	97-01-28	SC13 Secretariat Report to TC20 - 1997
N157	97-05-15	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Brazil
N158	97-05-28	Minutes of 13th Meeting of ISO/TC 20/SC 13 Meeting in Brazil
N159	97-07-14	Preliminary Notice of 1997-11-14 Meeting and Agenda
N160	97-10-10	Form 8A Submission for CCSDS 121.0-B-1: Lossless Data Compression
N161	97-10-10	Form 8A Submission for CCSDS 622.0-B-1: Standard Formatted Data Units – Referencing Environment

N162	97-10-10	Form 8A for CCSDS 644.0-B-1: The Data Description Language EAST Specification
N163	97-10-10	Form 8A for CCSDS 704.0-B-1, AOS, Networks and Data Links: Audio, Video and Still-image Comm Services
N164	97-11-14	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in England
N165	97-11-14	Draft ISO/TC 20/SC 13 Master Plan
N166	97-11-14	Minutes of the 14th Meeting of ISO/TC 20/SC 13 Meeting in England
N167	97-12-02	Form 8A Submission of CCSDS 713.0-R, (SCPS-NP)
N168	97-12-02	Form 8A Submission of CCSDS 713.5-R, (SCPS-SP)
N169	97-12-02	Form 8A Submission of CCSDS 714.0-R, (SCPS-TP)
N170	97-12-02	Form 8A Submission of CCSDS 717.0-R, (SCPS-SP)
N171	98-01-28	Preliminary Notice of 1998-06-09 Meeting and Agenda
N171.1	98-05-08	Draft Agenda for 1998-06-09 Meeting
N172	98-06-09	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Japan
N173	98-09-25	Minutes of 15th Meeting of ISO/TC 20/SC 13 in Japan
N174	98-07-01	Letter forwarding PKT TLM Services BB for progressing to ISO IS
N175	98-07-24	Preliminary Notice of 1998-11-06 Meeting in Japan
N175.1	98-10-02	Draft Agenda for 1998-11-06 Meeting in Darmstat
N176	98-08-28	Letter accepting Dr. Markarian as CCSDS Associate Member
N177	-----	Not Used
N178	98-09-22	Form 8A Submission for CCSDS 103.0-B-1: Packet Telemetry Services Blue Book Dated May 1996
N179	98-12-02	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Germany
N180	98-12-02	Letter to Abram requesting delay in processing four SCPS DISs to FDISs
N181	98-12-04	Request to Secretary-General for information re Registering Control Authority with ISO
N182	98-12-07	Letter forwarding ISO form 13 to Abram re EAST DIS
N183	98-12-07	Letter forwarding ISO form 13 to Abram re Referencing Environment DIS
N184	98-12-29	Letter to Abram requesting delay in processing Audio/Video DISs
N185	99-03-03	Covering Letter for Draft Agenda for 1999-05-19 Meeting
N186	99-02-03	Draft Agenda for 1999-05-19 Meeting in California
N187	99-02-03	Letter to Abram re Cover Sheet for Packet Services, DIS 17433
N188	99-02-04	Letter forwarding ISO form 13 to Abram re Lossless Compression DIS
N189	99-05-03	Minutes of 16 <sup>th</sup> Meeting of ISO/TC20/SC13 in Darmstadt
N190	99-04-19	Covering Letter for Interim Agenda for 99-05-19 meeting
N191	99-04-19	Secretariat's package for 99-05-19 Meeting in California
N192	99-05-28	Letter to Abram approving proposed Cover Sheet for Packet Services
N193	99-05-08	Letter to Abram approving proposed Cover Sheet for Ref Environment
N194	99-07-01	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Newport Beach, CA
N195	99-07-01	Minutes of 17 <sup>th</sup> Meeting of ISO/TC20/SC13 in Newport Beach, California
N196	99-08-05	Letter to Abram reconfirming three ISO standards for five more years
N197.1	99-08-06	Form 13 to Abram requesting FDIS status for Four SCPS DISs
N197.2	00-03-03	Letter to Abram requesting FDIS status for Four SCPS DISs
N198	99-08-06	Letter/Form 8A to Abram requesting DIS status for OAIS Ref Model
N199	99-09-16	Covering Letter announcing for 99-12 meeting in Frascati, Italy
N200	99-09-16	Draft Agenda for 99-12 meeting in Frascati, Italy
N201	99-10-04	Letter to Abram updating ISO Lists as requested

N202	99-11-23	MC Secretariat's Report package for 99-12-13 Meeting in ESRIN Italy
N203	99-11-23	SC 13 Secretariat Report package for 99-12-14 to ISO/TC 20/SC 13 Meeting in Italy
N204	00-01-19	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Frascati, Italy
N205	00-01-12	Letter to Process Upgraded Channel Coding
N205.1	00-01-12	Form 8A for Upgraded Channel Coding
N206	00-03-27	Transmittal Letter to Members Announcing S2000 Meeting in Toulouse
N206.1	00-03-27	Draft Agenda for S2000 meeting in Toulouse, France
N207	00-04-24	Minutes of 18 <sup>th</sup> Meeting of ISO/TC20/SC13 at ESRIN in Frascati, Italy
N208	00-05-14	Invitation to Ukraine to attend June 2000 SC13 meeting
N209	00-05-14	Invitation to Sweden to attend June 2000 SC13 meeting
N210	00-05-22	Letter to Abram approving OASIS Cover Sheet
N211	00-05-22	Letter to Ivarnez forwarding OASIS Cover Sheet approval
N212	00-05-30	Form 13 requesting FDIS vote for Packet TLM Services
N213	00-05-30	Letter forwarding Form 13 re Packet TLM Services
N214	00-07-23	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Toulouse, France
N215	00-08-24	Letter requesting DIS processing of Revised TC Blue Book
N215.1	00-08-24	Form 8A requesting DIS processing of Revised TC Blue Book
N216	00-08-24	Letter requesting DIS processing of Upgraded PVL Blue Book
N216.1	00-08-24	Form 8A requesting DIS processing of Upgraded PVL Blue Book
N217	00-09-21	E-Mailed Draft Agenda for SC13 Fall 2000 meeting in Denver
N218	00-09-	Minutes of 19 <sup>th</sup> Meeting of ISO/TC20/ SC13 at Toulouse
N219	00-10-13	Letter to Abram approving Cover Sheet for Updated PVL
N220	00-10-13	Letter to Abram approving Cover Sheet for Updated Telecommand
N221	00-10-25	Letter forwarding Secretary's Package for F00 Meeting in Boulder, Colorado
N222	00-10-25	Secretary's Package for Fall 2000 Meeting in Boulder, Colorado
N223	01-02-05	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Boulder, Colorado
N224	01-04-24	Minutes of 20 <sup>th</sup> Meeting of ISO/TC20/SC13 at Boulder, Colorado, USA
N225	01-03-05	Transmittal Letter to Members Announcing S2001 Meeting in London, UK
N225.1	01-03-05	Draft Agenda for ISO/TC20/SC13 meeting at BNSC/RAL in London, UK
N226	01-03-07	Letter requesting DIS processing of CCSDS File Delivery Protocol (CFDP)
N226.1	01-03-07	Form 8A requesting DIS processing of CCSDS File Delivery Protocol (CFDP)
N227	01-03-07	Systematic Review of International Standard
N228	01-03-07	Letter requesting DIS processing of updated CCSDS DDL EAST Specification
N228.1	01-03-07	Form 8A requesting DIS processing of updated CCSDS DDL EAST Specification
N229	01-04-26	Letter requesting DIS processing of updated CCSDS Packet Telemetry
N229.1	01-04-26	Form 8A requesting DIS processing of updated CCSDS Packet Telemetry
N230	01-05-02	Letter forwarding Secretary's Package for S01 Meeting at BNSC in UK
N231	01-05-02	Secretary's Package for Spring 2001 Meeting at BNSC in UK
N232	01-06-29	Letter to Abram approving Cover Sheet for Updated Packet Telemetry
N233	01-06-29	Letter to Abram approving Cover Sheet for Updated EAST Specification
N234	01-06-29	Letter to Abram requesting DIS processing of CCSDS DEDSL Abstract Syntax Specification
N234.1	01-06-29	Form 8A requesting DIS processing of CCSDS DEDSL Abstract Syntax Specification
N235	01-06-29	Letter to Abram requesting DIS processing of CCSDS DEDSL PVL Syntax Specification
N235.1	01-06-29	Form 8A requesting DIS processing of CCSDS DEDSL PVL Syntax Specification
N236	01-07-20	SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Oxfordshire

N237	01-07-xx	Letter to Abram requesting DIS processing of CCSDS DEDSL XML Syntax
N237.1	01-07-xx	Form 8A requesting DIS processing of CCSDS DEDSL XML Syntax
N238	01-08-20	Letter to Abram requesting DIS re-processing of CCSDS OAIS Reference Model
N239	01-08-20	Form 8A requesting DIS re-processing of CCSDS OAIS Reference Model
N240	01-09-xx	Transmittal Letter to Members Announcing F2001 Meeting in Orlando, Florida
N241	01-09-yy	Preliminary Agenda for F2001 Meeting
N242	01-11-02	Letter to Abram requesting DIS processing of up-graded CCSDS Packet Telemetry Services
N243	01-11-02	Form 8A requesting DIS processing of up-graded CCSDS Packet Telemetry Services
N244	01-11-02	Letter to Abram requesting DIS processing of up-graded CCSDS TC - Data Routing Services
N245	01-11-02	Form 8A requesting DIS processing of up-graded CCSDS TC Data Routing Services
N246	01-11-02	Letter re reprocessing Telecommand Part 2.1
N247	01-11-02	Form 8A for reprocessing Telecommand Part 2.1
N248	01-11-02	Letter re reprocessing up-graded CCSDS Telecommand Part 3
N249	01-11-02	Form 8A for reprocessing up-graded CCSDS Telecommand Part 3
N250	01-11-02	Letter re reprocessing Upgraded AOS
N251	01-11-02	Form 8A re reprocessing Upgraded AOS
N252		C Letter to Abram requesting cancellation of ISO 15890
N253	01-10-23	Letter approving Cover Sheet for AWI 17355 (CFDP)
N254	01-10-23	Letter approving Cover Sheet for CD 14721 (OAIS)
N255	01-11-02	Minutes of Spring 2001 meeting
N256	01-11-06	Letter forwarding Form 13 to progress PVL to IS Status
N256.1	01-11-06	Form 13 to progress enhanced PVL (ISO 14961) to IS Status
N257	01-11-13	Form 21 re Confirmation of ISO 11103
N258	01-11-13	Form 21 re Confirmation of ISO 11104
N259	01-11-09	Letter re reprocessing Upgraded Channel Coding
N260	01-11-09	C Form 8A for reprocessing Upgraded Channel Coding (cancelled per L. Kezer)
N261	01-11-27	Letter approving Packet TLM Cover Sheet
N262	01-11-27	Letter approving C/S for 12173, 12174 and 17433
N263	01-11-15	Letter approving Cover Sheet for 22643
N264	01-11-27	Letter approving Cover Sheet for ISO 13420
N265	01-11-27	Letter approving Cover Sheet for ISO 12172
N266	01-12-13	Letter approving Cover Sheet for ISO 11754 (cancelled; included in N261)
N267	01-12-17	Transmittal Letter to Members Announcing S2002 Meeting in DLR, Germany
N267.1	01-12-17	Draft Agenda for ISO/TC20/SC13 meeting at DLR, Germany
N268	02-02-19	Transmittal letter for Revised Agenda
N268.1	02-02-19	Revised Agenda for Spring 2002 Meeting in DLR
N269	02-03-13	Cover Letter for Secretariat's Package for Spring 2002 Meeting
N270	02-03-18	C Cover letter and Form 13 (270.1) for Telecommand - Channel Service
N271	02-03-18	Withdrawal of DIS 15890 from ISO
N272	02-03-25	Cover letter and Form 13 (272.1) for Telecommand Part 1

**Documents Received from ISO Central Secretariat**  
**2001 October – 2002 April**

<b>From</b>	<b>Date</b>	<b>Subject</b>
Matthew Williams	2001-10-16	Follow-up of ISO/TC20 Work
Matthew Williams	2001-11-06	SC4 Activities
Matthew Williams	2001-11-20	ISO TC 20 Minutes – 38 <sup>th</sup> Plenary Meeting
Matthew Williams	2001-11-26	Aircraft – Integrated Data Processing Material Management – Bar Coding
Matthew Williams	2001-12-06	Follow-up of ISO TC20 Work
Michael Smith	2001-12-20	ISO/IEC Directives, Parts 1 and 2, 2001 and ISO Supplement
Lawrence Eicher	2002-02-21	2002 Edition of ISO Memento

**ATTACHMENT 3**  
**REPORT FROM BRAZIL**

**Brazil/ABNT REPORT  
to the  
SC-13/TC-20/ISO MEETING**

**DLR, Oberpfaffenhofen, Germany  
PM - 19 April, 2002**

At this opportunity it was not possible for the Brazilian Association for Technical Standards (ABNT) to attend this event, due to lack of financial support to its Principal Delegate, for travelling, for this purpose.

However, it is opportune to reaffirm the continuing Brazilian commitment with the Subcommittee SC-13/TC-20/ISO activity, so far, under the Observer (O) status.

The work being developed by the ABNT Commission-of-Studies CE 08:001.06 on Space Data and Information Systems continues , closely related to the SC-13/TC-20/ISO Subcommittee work. At the same time, it is worth mentioning that the natural, relatively high pace under which:1) New CCSDS genuine documents are being generated, to become Blue and Green Books; 2) Former Blue and Green books are being updated: 2a) To new versions, with their corresponding 'Superseded' (old) versions, or; 2b) Becoming 'Obsolete' (Withdrawn) , the priority of the working items of the ABNT CE 08:001.06 Commission-of-Studies is being adapted to consider this reality, in order to provide Brazil, to the best possible extent, with corresponding, updated standards on space data and information systems. The dynamics of such a situation has naturally forced the ABNT CE 08:001.06 Commission-of-Studies to pay close attention to the very last version of each of its new or old work item which, in many cases, tend to derive from documents which are still in the CCSDS domain, therefore, prior to its submission or, that may be still under the submission process, to the corresponding SC-13, ISO Subcommittee. Naturally, the ABNT CE 08:001.06 Commission-of-Studies is also in the loop for executing the review of the SC-13/TC-20/ISO originated documents, under its regular review process, which relies in the commitment of collaboration by its international associates, like ABNT, in Brazil.

EDUARDO W. BERGAMINI  
ABNT Principal Delegate to SC13/TC20/ISO  
ABNT Coordinator of CE 08:001.06 (SC 13 equivalent, in Brazil)  
(*'in absentia'*, to the meeting)

Sao Jose dos Campos, April 2002

**ATTACHMENT 4**  
**REPORT FROM FRANCE**

## **CNES REPORT - ISO/TC20/SC13 MEETING MUNICH - APRIL 2002**

### **1- MANAGEMENT :**

#### **1-1- ORGANIZATION :**

**No major change; in the CCSDS domain,**

- **CNES is working with SC13 secretariat and with ISO central secretariat in order to move CCSDS books to ISO standards, according to ISO procedures.**
- **France is represented by AFNOR (French Normalization Organization) for the ISO votes. Concerning CCSDS, AFNOR build up its position from BNAE (french office for space and aerospace standardization) advises. CNES is a member of BNAE, together with industry. CNES also uses the BNAE channel to inform the french industry community and to promote CCSDS recommendations.**
- **At CNES, after Roland IVARNEZ departure, temporary chairmanship of SC13 is accomplished by Francois FORESTIER, with Jacques LAPEYRE acting as support.**

#### **1-2- AREA OF AGENCY INVOLVEMENT :**

**Global**

#### **1-3- MANPOWER ALLOTTED :**

**Constant, to about 1/2 man x year.**

### **2- IMPLEMENTATION ACTIVITIES :**

#### **2-1- SPACECRAFT UTILIZING SC13 STANDARDS :**

**Ariane**

**Proteus family, Myriade family, Pleiades, Mars Premier.**

## **2-2- GROUND FACILITIES UTILIZING SC13 STANDARDS :**

**EAST data description language for Plasma Physic Center, Helios, Jason, Envisat data base**

**Data Dictionary Specification Language for ATV-CC, Helios, Plasma Physic Center.**

**It is planned to use SLE Transfer services (RAF, RCF, CLTU) for Mars Premier CC and for the future CNES Deep Space Station**

## **3- DOCUMENTATION ACTIVITIES :**

### **3-1- ADOPTION OF SC13 STANDARDS AT NATIONAL LEVEL:**

**Ballot performed :**

**DIS 14721 OAIS : Approved**

**DIS 14961 Parameter Value Language Specification : Approved to FDIS**

**DIS 12171 Telecommand Part 1 - Channel Services : Approved to IS**

**Ballot to be progressed to FDIS ending in june 02:**

**DIS 11754 Telemetry Channel Coding**

**DIS 12172 Telecommand Part 2 - Data Routing Services**

**DIS 12173 Telecommand Part 2.1 - Command Operating Procedures**

**DIS 12174 Telecommand Part 3 - Data Management Services**

**DIS 13419 Packet Telemetry**

**DIS 13420 AOS: Network and Data Links, Architectural specifications**

**DIS 17355 File delivery protocol (CFDP)**

**DIS 17433 Packet Telemetry Services**

**DIS 22643 DEDSL XML syntax**

**Ballot to be progressed to FDIS ending in september 02:**

**DIS 15889 Data description language - ESAT specification**

**DIS 21961 DEDSL Abstract syntax**

**DIS 21962 DEDSL "PVL syntax**

### **3-2- TRANSLATION :**

**All documents have been translated into french, except :**

**12171 Telecommand Part 1 - Channel Services**

**DIS 13419 Packet Telemetry;**

**for which translations are stagnating;**

**and**

**14961 PVL specifications**

**15889 East specifications**

**15891 to 15894 SCPS**

**17355 CFDP**

**21961 DEDSL Abstract syntax**

**21962 DEDSL PVL syntax**

**22643 DEDSL XML syntax**

**for which no translation are foreseen, as it concern few specialists, used to english documentation.**

#### **4- TECHNICAL ACTIVITIES :**

**None**

**ATTACHMENT 5**  
**REPORT FROM JAPAN**

## Japan Report to the 22<sup>nd</sup> meeting of ISO/TC20/SC13, April 2002

### 1. Reaction to action items

SC-S01-1 Review SC13 directory and provide any updates, especially for the ISO body within the respective country, including email addresses.

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### 2. DIS disposition

- Draft International Standards (DIS)

National Committee of Japan approved the following DIS

- (1) DIS12171 Telecommand – Channel Service
- (2) DIS14961 Parameter Value Language Specification
- (3) DIS14721 Open Archival Information System Reference Model

On-going to review the other 11 DIS documents (DIS 17355 etc.)

- Systematic Review (5 years)

National Committee of Japan approved the following ISO standards

- (1) ISO 11103:1991 Radiometric and orbit data
- (2) ISO 11104:1991 Time Code Formats

**ATTACHMENT 6**  
**REPORT FROM UNITED KINGDOM**

**United Kingdom report to ISO TC20/SC13, April 2002**

P Allan, 19 April 2002

***MANAGEMENT******Organization / Changes***

As indicated at the last meeting of ISO TC20/SC13, the committee structure at the British Standards Institute that deals with space related standards has been revised. Previously the committee ACE/67 tracked the work of TC20/SC13 and committee ACE/68 tracked the work of TC20/SC14. All of this work, plus other related activities such as liaison with ECSS, has been brought under the committee ACE/68, and the work of tracking the TC20/SC13 activities is now the responsibility of the panel ACE/68/-/7. The practical effect of this is very minor and Peter Allan remains as the chair of this panel.

Of greater relevance outside the British Standards Institute, is the fact that there is also a current reappraisal of the way that BNSC funds all standards activities. The proposal is that the panel ACE/68/-/7 should be the focal point for all CCSDS activities (plus related activities), including the discussion of which activities should be supported by having people attend panel meetings and contribute to the development of CCSDS recommendations, as well as the organization of the review of draft ISO standards. Previously these two activities were separate.

An Electronic Document system (<http://edd.bsi.org.uk/>) has been adopted for many committees, including ACE/68, and is now the sole means of distributing internal panel documents.

***Areas of Agency Involvement***

Funding for these activities in the current financial year is provided jointly by BNSC and the Particle Physics and Astronomy Research Council (PPARC). In previous years, the Natural Environment Research Council (NERC) also contributed.

***Manpower Allotted***

The manpower allotted to this area is mixed in with the funding provided to support CCSDS activities. The total funding amounts to approximately half a staff-year, although only a small part of this goes directly to SC13 and ACE/68/-/7 activities.

***IMPLEMENTATION ACTIVITIES******Spacecraft Utilizing SC13 Standards***

ACE – the RAL ground station is a major part of the ground system for this NOAA satellite.

Although the STRV-1c/d satellites failed in orbit, it is worth noting that the collaboration forged between RAL and QinetiQ in order to obtain some useful data from them is being taken forwards in the implementation of SLE services in both of their ground stations. It is our intention to set up a co-operative ground station, which both organizations can use to their advantage.

TOPSAT is a satellite funded through the BNSC Mosaic programme and jointly funded by the Ministry of Defense. It is a technology demonstrator for low cost imaging (2.5m resolution, £15M total cost, including one year of operations). Others are planned as a result of the next round of the Mosaic programme.

Most spacecraft that have a UK involvement are part of international consortia. Hence it is difficult to highlight ones that might be considered UK spacecraft.

### **Ground Facilities Utilizing SC13 Standards**

RAL ground station  
QinetiQ ground station  
Surrey Satellites Ltd

The above do not use all of the available standards, although the usage is increasing with time. In addition, staff who manage the 25m antenna at Chilbolton and other large antennae operated by QinetiQ have expressed an interest in becoming involved in satellite operations and data reception.

### **DOCUMENTATION ACTIVITIES**

All of the draft standards from SC13, are reviewed by ACE/68/-/7, and have been approved and passed on for issue as BSi Standards.

The standards now issued as BSi standards are as follows:

BS Z 1	Radio Metric and Orbit data
BS Z 2	Time Code Formats
BS Z 3	Telemetry Channel Coding
BS Z 4	SFDUs Structure and construction rules
BS Z 5	SFDUs Control authority procedures
BS Z 6	PVL specification
BS Z 7	ASCII encoded English
BS Z 8	Packet Telemetry
BS Z 9	AOS Network and data links
BS Z 10	SFDUs Control authority data structures
BS Z 11	Cross Support Reference Model – SLE
BS Z 12	Telecommand – Channel Service
BS Z 13	Telecommand – Data Management Service
BS Z 14	Telecommand – Command Operations procedures
BS Z 15	Telecommand – Data Routing Service
BS Z 17	Data systems – Lossless data compression
BS Z 18	Standard formatted data units – Referencing environment
BS Z 19	Data description language – EAST specification
ISO 15891	Space data and information transfer systems. Protocol specification for space communications. Network protocol

ISO 15892	Space data and information transfer systems. Protocol specification for space communications. Security protocol
ISO 15893	Space data and information transfer systems. Protocol specification for space communications. Transport protocol
ISO 15894	Space data and information transfer systems. Protocol specification for space communications. File protocol

Note that BSi has decided to stop giving ISO documents additional BS Z numbers and in the future it will refer to all such documents by their ISO number.

## ***TECHNICAL ACTIVITIES***

### ***Status of Action Items***

There are no action items that currently apply.

### ***Status of On-Going Assignments***

The on-going assignment is to receive documents from the British Standards Institute and to ensure that it is reviewed for BSi and to then approve it (or not) for issuance as a British Standard.

### ***Status of Liaison Activities***

The chair of ACE/68/-/7 (Peter Allan) attends meetings of ACE/68, which processes standards relating to space systems and operations. In addition, ACE/68 shadows the work of the European Co-operation for Space Standardization (ECSS) committees.

**ATTACHMENT 7**  
**REPORT FROM UNITED STATES**



18 April, 2002  
ISO/TC 20/SC13

**ISO/TC20/SC13 Meeting**  
**DLR, Oberpfaffenhofen, Germany, 18 April 2002**

**Report of US Subcommittee Advisory Group**  
**(USSCAG13) Activities,**  
**April 2002**

**Adrian J. Hooke, NASA-JPL**  
**U.S. Representative to ISO-TC20-SC13**

**Meetings**

There was a US Technical Advisory Group to TC20 (USTAG-20) meeting in Washington DC on 23 August 2001. Mr. Jack Kelley attended on behalf of NASA. Ms. Laura Hitchcock of Boeing assumed the chairmanship of USTAG20 from Mr. James Bagnall. There was a USTAG20 teleconference in October 2001 to prepare for the 38th Plenary meeting of TC20. There was no US representation at the Plenary.

**USCAG13 Membership and Operating Mode**

The membership of the US Subcommittee Advisory Group to SC13 (USSCAG13) is unchanged.

It has been noted that lately there has been a very low level of TC20 activity in the USA.

**Work Items**

The US reviewed and approved the following two documents:

ISO/DIS 21961, Space data and information transfer systems - Data entity dictionary specification language (DEDSL) - Abstract syntax

ISO/DIS 21962, Space data and information transfer systems - Data entity dictionary specification language (DEDSL) - PVL syntax

-o-o-o- end -o-o-o-

ISO/TC 20/SC13  
Space Data and Information Transfer Systems  
USSCAG13

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