

ISO TC 20/SC 13

Space data

and information transfer systems

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Overview

- **Secretariat: ANSI (American National Standards Institute)**
- **Secretary: Mr. Mike Kearney (NASA, Marshal Space Flight Center)**
- **Chairperson: Mr. Eduardo Bergamini (Brazil) until end 2011**
- **Number of published ISO standards: 40**

Participation

★ Participating countries: 14

★ Observing countries: 6



MEMBER AGENCIES	
Brazil/ABNT	
Canada/SCC	
China/SAC	
France/AFNOR	
Germany/DIN	
India/BIS	
Israel/SII	
Italy/UNI	
Japan/JISC	
Kazakhstan /KAZMEMST	
Russian Federation /GOST R	
Ukraine/DSSU	
United Kingdom/BSI	
USA/ANSI	
OBSERVER AGENCIES	
Argentina /IRAM	
Republic of Korea/KATS	
Poland/PKN	
Romania/ASRO	
Slovakia/SUTN	
Sweden/SIS	

Liaisons

- **TC 46/SC 4: Technical interoperability**
- **TC 46/SC 11: Archives/records management**
- **TC 211: Geographic information/Geomatics**
- **(TC 20/SC 13: Space systems and operations)
(overlaps on navigation issues)**

- **ESA** (only nations are member of ISO)
- **CCSDS** (CCSDS management council (CMC) = ISO TC 20/SC 13)

Ballots

- **SR ISO 22669:2007 (Ed 2), 2010-06-15**
Space data and information transfer systems -- Space link extension (SLE) -- Return-all-frames service
- **SR ISO 22671:2007 (Ed 2), 2010-06-15:**
Space Link Extension – Forward CLTU (Command Link transfer unit) Service Specification
- **SR ISO 26143:2007, 2010-06-15**
Space data and information transfer systems -- Space Link Extension (SLE) -- Return operational control fields service
- **SR ISO 15396:2007 (Ed 2), 2010-09-15**
Cross Support Reference Model—Part 1: Space Link Extension Services.

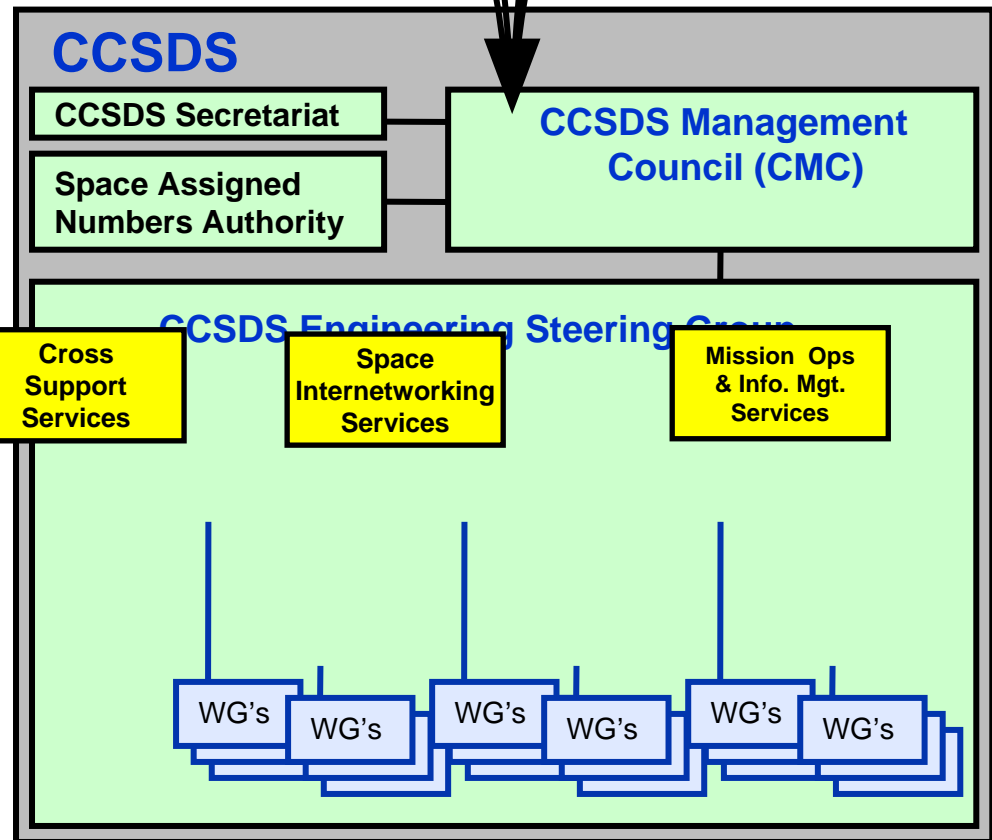


CCSDS Standards

CCSDS Overview



Systems Engineering



Spacecraft Onboard Interface Services

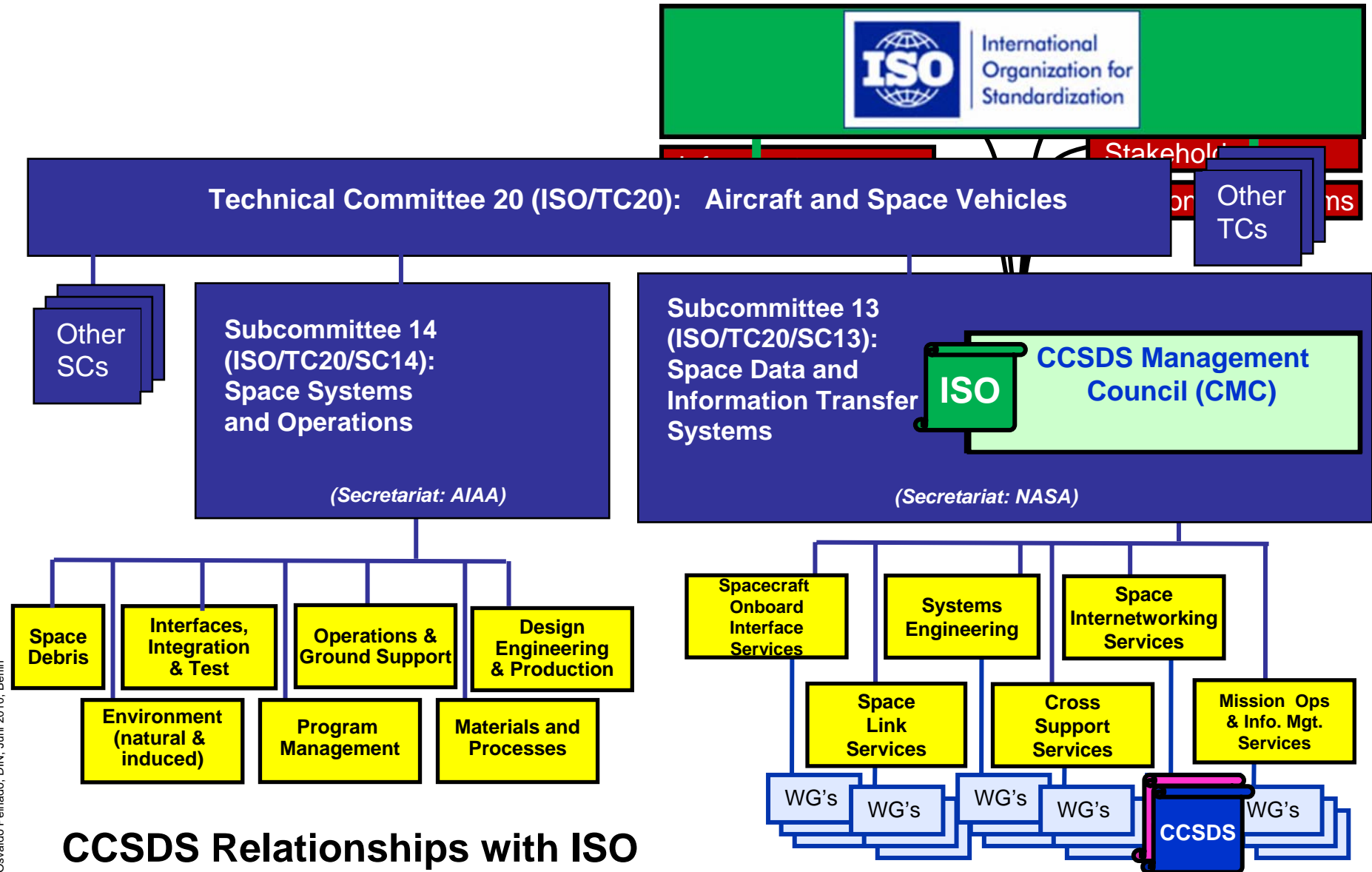
Space Link Services

CCSDS Structure and Organization



CCSDS Standards

CCSDS Overview



CCSDS Relationships with ISO

Remarks

- **CCSDS (TC 20/SC13) publications are free of charge**
- **Membership in CCSDS and ISO are different**
- **Participation in the WG based on space agencies**



CCSDS Standards



International
Organization for
Standardization

DANKE für ihrer Aufmerksamkeit !