

MEETING SUMMARY

CCSDS Engineering Steering Group Meeting

17 May 2004, CSA, Montreal, Canada

1. Attendees: F. Brosi; R. Durst; J-L. Gerner; A. Hooke; N. Peccia; P. Plancke; C. Plummer; R. Thompson; P. Shames; D. Stanton; T. Yamada; S. Harris (Secretariat).
2. The as-run Agenda is contained in Attachment 1.
3. Area reports and the integrated CESG report to the CMC are downloadable from the Meeting folder located at:

<http://www.ccsds.org/docu/dscqi/ds.py/View/Collection-492>
4. Resolutions from the meeting are contained in Attachment 2.
5. Action Items from the meeting are contained in Attachment 3.
6. Next Meeting: 22-23 November 2004, CNES, Toulouse.

Respectfully submitted:

CESG Chairman
01 June 2004

Attachment 1:

CCSDS Engineering Steering Group Meeting
Monday, 17 May 2004
CSA, Montreal, Canada

Meeting Objectives:

- ◆ Review technical status, Area by Area
- ◆ Identify cross-Area issues
- ◆ Prepare CESG report to CMC

Required Attendees:

- ◆ Area Directors and Deputies (12)
 - ◆ CESG Chair (1)
 - ◆ Secretariat (1)
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08:00	Welcome, Introductions, Agenda bashing. Review of CESG operations and status	Adrian Hooke
08:10	Secretariat/Document Rapporteur Report – Summary of Document flow and approval status during last work period	Steve Harris
08:30	<i>Begin Area Reports – see template:</i> <ul style="list-style-type: none">- <i>List of currently-active WGs and BOFs (<05 min)</i>- <i>Technical Status of each WG/BOF (<<5 min each)</i>- <i>Identification of Cross-Area technical issues (<10 min)</i>- <i>Identification of other issue and concerns(<05 min)</i>- <i>Draft Resolutions/Actions for CMC approval (<10 min)</i>	
08:30	Systems Engineering Area Report	Peter Shames
09:15	MOIMS Area Report	Nestor Peccia
10:00	CSS Area Report	Fred Brosi
10:45	SOIS Area Report	Patrick Plancke
11:30	SLS Area Report	Jean-Luc Gerner
12:15	<i>Lunch</i>	
13:00	SIS Area Report	Bob Durst
13:45	Discussion Area comments: CCSDS organization Area comments: CCSDS procedures/meetings Area comments: OMG/SC13-14/Customer interfaces	
15:15	Resolutions + Action Items	
16:00	<i>Adjourn</i>	

Attachment 2:

CESG Resolutions, Spring 2004

CESG-Spring04-R-01

CESG resolves to request the CMC to perform the following actions:

1. Formally review and comment on the CCSDS STRATEGIC PLAN, CCSDS A01.1-Y-2, dated April 2004
 2. Update the "Draft Resource Allocation Matrix" (13 May 2004 version) to reflect the commitments of the Agencies for the upcoming work period (May-November 2004), and send this information back to the CESG within two weeks.
 3. Complete the "Resource Commitments for CESG Leadership" Matrix and send this information back to the CESG within two weeks.
 4. Approve the updated CCSDS OPERATING PLAN, CCSDS A01.2-Y-2, that will be produced by the CESG in response to the above resource allocations
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CESG-Spring04-R-02

CESG resolves to request the CMC to reaffirm its requirement for the inclusion of a security section in all future Blue Books, including those that are in an advanced stage of development. To accomplish this, the CMC is asked to increase the resources for the Security WG to support an additional "Security Audit" function that will assist each WG in developing the rationale and explanation as to why or why not Security must be addressed in the CCSDS document, or to clearly state that Security has not been addressed owing to lack of resources. In the event that Security is addressed, the Security Template includes the following information:

- 1.0 Security Background/Introduction
 - 2.0 Statements of security concerns with respect to the CCSDS document:
 - data privacy
 - data integrity
 - authentication of communicating entities
 - control of access to resources
 - availability of resources
 - auditing of resource usage
 - 3.0 Potential threats and attack scenarios (how could someone break the technology and why)
 - 4.0 Consequences of not applying security to the technology (e.g., loss of life, loss of mission).
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CESG-Spring04-R-03

CESG resolves to request the CMC to decide whether to approve production of Producer-Archive Interface Methodology Abstract Standard as either a “CCSDS Recommended Standard” (Blue Book) or a “CCSDS Recommended Practice” (Magenta Book). Implementations are not appropriate and are waived. Request parallel ISO review.

CESG-Spring04-R-04

CESG resolves to request the CMC to approve publication of the Cross Support Reference Model - CCSDS 910.4-P-1.1 (Pink Book) for Agency review.

CESG-Spring04-R-05

CESG resolves to request the CMC to approve publication of the SLE Data Transfer books (Red Books) for Agency review. The following WG drafts will be sent to Secretariat for editing and distribution 2004.05.14:

RAF 911.1-P-1.1	FCLTU 912.1-P-1.1
RCF 911.2-R-2	FSP 912.3-R-2
ROCF 911.5-R-1	

CESG-Spring04-R-06

CESG resolves to request the CMC to approve publication of the editorially updated Radio Frequency and Modulation Recommendation 401 as a Blue Book.

CESG-Spring04-R-07

CESG resolves to request the CMC to approve publication of Radio Frequency and Modulation Pink Sheet 2.4.10 for Agency Review.

CESG-Spring04-R-08

CESG resolves to request the CMC to approve publication of Ranging Pink Sheet 2.5.6B for Agency Review

[CESG-Spring04-R-09](#)

CESG resolves to request the CMC to approve publication of Space Link Protocol Encapsulation Service as Red-2 for Agency Review.

[CESG-Spring04-R-10](#)

CESG resolves to request the CMC to approve publication of Pink Sheets to AOS Space Data Link Protocol for Agency Review.

[CESG-Spring04-R-11](#)

CESG resolves to request the CMC to clarify whether it is a NASA position that the NASA Goddard submission relative to Low Density Parity Check Codes should be approved to enter the Experimental track with a view to eventual publication as an Orange Book.

[CESG-Spring04-R-12](#)

CESG resolves to request the CMC to approve publication of the UCE Pink Sheets to 727.0-B-2 for formal agency review and approval.

[CESG-Spring04-R-13](#)

CESG resolves to thank its host, Mr. Leo Hartman of the Canadian Space Agency, for the most excellent meeting arrangements.

Attachment 3:

CESG Action Items, Spring 2004

CESG-Spring04-A-01

SE – Shames:

Identify interface issues between Systems Engineering Information Architecture WG and other WGs (e.g., MOIMS Information Packaging and Registries WG, Global Information Grid activities). Recommend a course of action by mid-June.

CESG-Spring04-A-02

SE – Shames:

Distribute draft Reference Architecture Red Book to CESG for approval. The CESG is to verify that this document is sufficiently prescriptive to become a Blue Book. [This is a Reference Architecture and does not require a prototype implementation. A Green Book will accompany the final Recommendation with examples on use. The initial Red Book with a formal meta-model specified in UML will be produced within a year]

CESG-Spring04-A-03

SE – Shames:

Send update of Security Green Book, APPLICATION OF CCSDS PROTOCOLS TO SECURE SYSTEMS, CCSDS-350.0-G-1v3 to CESG for comment.

CESG-Spring04-A-04

SE - Shames:

Send a Draft “CCSDS Security Recommendation “ to CESG for approval as a Red Book. This will have multiple referenced sections as needed, the first proposed referenced standards being:

1. Proposal for a profile for an encryption standard based on FIPS 197 specification of AES-128
 2. Proposal for a profile for an authentication/integrity standard based on FIPS 186-2 specification of the Digital Signature Standard.
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CESG-Spring04-A-05

MOIMS – Peccia:

Send “XML Structure and Construction Rules” to CESG for approval as a Red Book. CESG to verify that this document is sufficiently prescriptive to become a Blue Book.

CESG-Spring04-A-06

MOIMS – Peccia:

Send “EAST Pink Pages” to CESG for approval prior to Agency Review.

CESG-Spring04-A-07

MOIMS - Peccia:

Send “ODM Red Book” to CESG for approval as a CCSDS Recommended Standard (Blue Book) upon completion of a final internal WG review in May 2004.

CESG-Spring04-A-08

MOIMS – Peccia:

Send “S/C M&C WG” Revised WG Charter to CESG for approval

CESG-Spring04-A-09

MOIMS - Peccia:

Send “MOIMS-SOIS MoU” to CESG for approval.

CESG-Spring04-A-10

MOIMS – Peccia:

Send “XTCE Review” proposal to CESG for approval and request CESG to ask the OMG to consider this as CCSDS-OMG joint project.

CESG-Spring04-A-11

CSS – Brosi:

Send Concept Paper to CESG for approval discussing the impact of developing a new “Super Service”, with 2 initial prototype applications: Return all Data, and Return Radiometric Data. Revise the CSSA charter to accommodate new approach to specifying future SLE services and submit to CESG for approval.

CESG-Spring04-A-12

SLS – Gerner:

Send “Prox-1 Data Link” and “Prox-1 Physical Layer” Pink Sheets to CESG for approval as Blue Books.

CESG-Spring04-A-13

SLS – Gerner:

Send “image compression White Book” to CESG for approval as Red-1 status

CESG-Spring04-A-14

SLS – Gerner:

Send proposed Charter change for “Coding and Synchronization WG” to CESG for approval.

CESG-Spring04-A-15

SIS - Durst:

Send draft Cislunar Working Group charter to CESG for approval and, if approved, forward to the CMC so that resources may be allocated as soon as possible.

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