**CMC Comments on the on-line Strategic Plan (CMC-A-2014-11-14) 30 October 2015**

Preamble

* In Action Item CMC-A-2014-11-14, the CMC was requested to review the on-line CCSDS Strategic Plan following an update of it to be carried out by CESG according to Action Item CMC-A-2014-11-13
* The template provided by CESG foresees comments on the Strategic Plan as well as on the CWE and WG charters. While CMC is providing comments primarily on the Strategic Plan, in line with the perimeter of CMC-A-2014-11-14, some comments are also provided on the other items. However, only the comments on the strategic plan should be addressed during the joint meeting CMC CESG on Strategic Plan scheduled for the fall meeting in Darmstadt.
* The comments on the Strategic Plan are structured in three parts a.) comments on the layout of the on-line version, b) comments on the general part of the Strategic Plan, and c) comments on the *CCSDS Area Objectives and Goals*. The a) and b) parts are for discussion within the CMC, while c) is addressed to the CESG for response. In order to make this distinction clear in the text addressed to CESG is in blue, while the other is in dark red. Nevertheless CESG should take note of the comments on the general prat of the Strategic Plan, since they might have an impact on the Area Goals.
* The originator agency is identified at the beginning of the comment using the corresponding acronym, followed by a sequential number for each section e.g. DLR-01 or NASA-03.

General Comments to the CWE

1. On-line Strategic Plan
   1. Layout
      1. [ESA-01] The online version of the Strategic Plan should allow readers to understand the high level goals of the organisation, however it is not readable due to the small font, and the option for a printable version is not provided. Recommendation:
         1. increase the font and improve the formatting of the online version
         2. add a button from the online version to generate a printable version,
         3. alternatively provide a downloadable Strategic Plan document
      2. [ESA-02] The inconsistent font-type and size of Headers/sub-header together with the lack of header/sub-header numbering makes difficult to understand the hierarchy of the document. It is recommended to use a consistent Header/sub-header font/style.
      3. [NASA-01] Need better document structure. Table of content, Section number, ….
      4. [CNES-01] Introduction to CCSDS The CCSDS charter used to be part of the printable Strategic Plan and was useful there.
      5. [ESA-03] the view of the project charter through the link from the on-line Strategic Plan is not always the same as when the Project Charter is accessed via the CWE, some fields could be missing (e.g MO HTTP Transport and XML Encoding)
   2. Technical goals, existing / Approved / Draft Projects

Note: These comments (except NASA-12 and CNES-02) can also be found in the marked-up copy of the Startegic Plan word file

* + 1. [Jaxa-01] Introduction to CCSDS: “Strategic Plan should be updated whenever necessitated by changing events (or at least every 5 years).......”.   
       Do we keep mentioning “at least 5 years” in the Strategic Plan? Considering the present progress of CWE, there might be no chance to wait for 5 years.
    2. [ESA-05] Technical Strategic Goals: the sentence ”The strategic technical objectives and goals below are not intended be all-inclusive of ongoing CCSDS work, nor are they grouped by organization or teams within CCSDS” could be understood as that the technical goals are not covering all the technical activities, which is not correct, and that the technical strategy is not the guiding force behind the workplans. Recommendation: remove this sentence.
    3. [ESA-06] Technical Goal #2 (1st bullet, integrated mission planning for combined interagency operations taking into account resource needs) and Technical Goal #3 (second bullet, exchange of mission plans between cooperating agencies) both refer to interagency mission planning, that could be seen as an overlap. The text should be reworded to clearly distinguish between the two goals in the area of planning.
    4. [NASA-02] In the CCSDS Operating Concept section the CCSDS main objective should be providing interoperability among international space agencies.
    5. [NASA-03] CCSDS resource allocation should be in line with the primary goal of interoperability
    6. [NASA-04] In the CCSDS Target Missions and “CCSDS Conformance” section standardization should be widely recognized as a vehicle for the interoperability among member agencies first and stimulate the development of world markets is secondary.
    7. [NASA-05] In the CCSDS Objective section, “harmonize” should not be the objective but interoperability:

*“The objective of the CCSDS is to provide interoperability among member nations space communication by leading the worldwide standardization of space mission information and communication systems, thus promoting international cooperation and enabling these space systems to be effectively integrated with their terrestrial data communications and information systems counterparts”*

* + 1. [NASA-06] In the Rationale section after that facilitate their adoption add ”Theses standards enable space agencies to utilize space and ground assets of other agencies to execute their missions and therefore reduce their cost and operation risk”.
    2. [NASA-07] Top of page 7. If this is a list of requirements, then we should have priority, budget and schedule.
    3. [NASA-08] Top of page 7. What does it mean “commercial and military missions” requirement and why commercial and military missions have separate requirement?
    4. [NASA-09] Under CCSDS standardization concept, change the first sentence to read like:

CCSDS exists to develop the necessary agreements that allow standardized space communication between participating organizations.

* + 1. [NASA-10] Page 8 – put the list of 5 Areas in the order shown in the diagram (switch the last two).
    2. [NASA-11] Overall Strategic Goals

The CCSDS Mission Statement is “Advancing interoperability among international space agencies by developing internationally agreed interoperable space communication standards”

* + 1. [NASA-12] The number of goals far exceeds the reasonable amount of budget available to reach these goals. The plan should be much smaller a more realistic and achievable goals
    2. [NASA-13] Is there a priority for the technical strategic goals?
    3. [NASA-14] Technical Goal 3.

In the opening paragraph after “ground data system” add interfaces

* + 1. [CNES-02] Introduction to CCSDS Which decision did approve the transition from 3-years review to 5-years review?
  1. Area Strategic Goals
     1. [ESA-07] In a number of area goals, there are documents that have a TBD reference in the CWE. All documents being produced and approved should have a CWE reference number. Documents without a CWE reference number should be only under “Future Work”
     2. [ESA-08] Five year confirmation review process should be the same for all documents and WGS so does not need to be repeated in each Area Goal as Future work, which should be reserved for new work items.
     3. [ESA-09] Dates for Future work are often not given (e.g. SEA, SIS), this was available in the previous version of the strategic plan and is useful to see the future projections of the workplan and the horizon of the proposed wok. Recommendation: provide approximate dates for future work.
     4. [ESA-10] As for the SLS, it is recommended that all Area Goals be given a short name in order to provide an intuitive meaning and be able to refer to them in a meaningful way (a proposal is provided at the end of this document, AD should feel free to propose other names)
     5. [ESA-11] Some goals seem to have been achieved (no ongoing work and no future work beyond perhaps 5 year review). These goals should be marked as achieved. They could be referred to in a section on achievements.
     6. [CNES-03] No significant change detected compared to issue 1 of the SP (May 2014). This comment is applicable to all the areas
     7. [ESA-04] CMC Strategic Goals: the strategic Plan covers the technical strategy but does refer to the organisation of CCSDS nor to the terms of reference of the different bodies. Therefore it is not considered adequate to place strategic goals on the CMC. Recommendation: the objectives of SANA should be covered in the Strategy Plan as CCSDS Goal, without referring explicitly to the CMC.

1. Approved / Draft Projects (CWE Project Section Views existing and Draft Projects)
   1. [Jaxa-02, DLR-02, ESA-07] Some approved projects do not come along with CCSDS document number (xxx.x-B). How and when will they be numbered?
   2. [DLR-01] If there are two prototypes from the same agency it should be indicated, why they are independent.
   3. [DLR-03] The status “on schedule”/”behind schedule” is mysterious. All projects indicated as behind schedule are missing the timing goals within an acceptable margin. But there are many projects without “Actual Completion Dates”. The “Estimated Completion Dates” are only of interest for further planning, when these dates are future dates. Without an “Actual Completion Date” you cannot trust the “Estimated Completion Dates”, and take it for “Actual Completion Dates” if they are in the past.
   4. [DLR-Note] The xxx in DLR comments indicates the projects with missing CCSDS number!
2. WG Charters
   1. [DLR-04] A lot of charters are pending, this is valid not only for BOFs but also for long existing WGs. These charters should be approved during the November meeting.

SEA Area

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals  
      1. [ESA-SEA-01] General: No dates given for future work
      2. [ESA-SEA-02] Goal 1: Recommended standards in production have TBD references
      3. [ESA-SEA-03] Goal2: no future work other than 5 year review is proposed; is the work of the corresponding WG finished when the current projects are finished
      4. [ESA-SEA-04] Goal 3: Recommended standards in production have TBD references
      5. [CNES-SEA-01] Goal4: typo on list of related strategic goals (…2, 2…).
      6. [ESA-SEA-05] Goal 4: Recommended standards in production have TBD references
      7. [DLR-SEA-01] Is Goal 5 already a goal of this area? Or might that be a future goal?
      8. [ESA-SEA-06] Goal 7: the textual description reads more like a programme of work than an explanation of the strategic goal itself. In particular this text should explain the mail reasons for developing a reference architecture, e.g. provide an overview of the CCSDS work, understanding of the links/interactions between the different standards, identification of gaps etc.
      9. [ESA-SEA-07] Goal 7: Recommended Standards/Practices currently in productions contains the wrong document (Symmetric Key Management). Instead the document currently in production (based on the cartooning diagrams) should be identified.
2. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
   1. [DLR-SEA-02] CCSDS 350.9-G-1 Cryptographic Algorithms appears in goal 1 and 7, is that intended?
   2. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
   3. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
      1. [CNES-SEA-02] TBD reference on documents in production
   4. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
   5. [DLR-SEA-03] CWE Doc. TBD Symmetric Key Management Recommendations (Magenta Book) appears in goal 1 and 7, is that intended?
   6. [CNES-SEA-03] TBD reference on documents in production.
   7. Comments on Future Work ‎ (i.e. Draft Projects)
      1. [CNES-SEA-04] Future work was added which is not part of the charters (e.g.: Goal 1 and 7).   
         Does this comply with / complement / contradict the CCSDS procedures relative to the BOFs, WGs and Projects approval?
      2. [CNES-SEA-05] Goal7: 350.9-G-1 is duplicated from Goal1, among others. RASDS issues 2 and 3 of same document are listed**.**
3. Security WG
   1. Comments on Charter
   2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
      [DLR-SEA-04] Xxx Network Layer Security Adaptation Profile (Blue Book), no actual completion dates until CMC approval  
      [DLR-SEA-05] Xxx Symmetric Key Management Rationale (Green Book), actual completion dates till “Internal WG Review - Second draft circulated to WG” are missing.
   3. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)
4. Delta-DOR WG
   1. Comments on Charter
   2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
      [DLR-SEA-06] 506.0 Delta-DOR operations - Issue 2 (Magenta Book), actual completion dates till Rid resolution of first agency review are missing.  
      [DLR-SEA-07] Xxx Delta-DOR Quasar Catalogue development (Magenta Book), actual completion dates till Rid resolution of first agency review are missing.  
      [DLR-SEA-08] 500.1 Delta-DOR technical Characteristics and performance - Issue 2 (Green Book), actual completion dates till Internal WG - First draft comments due Review are missing.
   3. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

MOIMS Area (ditto SEA Area)

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals
      1. NASA-MOIMS-01] There is an overlap between MOIMS and SOIS. The first sentence in this section should probably read like:

*The objective of the MOIMS area is to address mission operations ground systems required to operate spacecraft and robots, in response to mission requirements.  This includes application-level standards and systems, their associated information management, and any data handling and archival systems making use of the information gathered by the mission.  Interactions of ground system functions with relevant spacecraft on-board systems supporting mission operations are also considered.*

* + 1. [ESA-MOIMS-01, CNES-MOIMS-01] Goal 1 and 2: there is a strong overlap between Goal 2 and Goal 1, for ODM, TDM, NHM, SMM. It seems that Goal 1 covers all the needs of Goal 2 except perhaps the CDM. It is propose to merge Goal 2 into Goal 1 (SSA being an application of the Navigation data exchange stad).
    2. [ESA-MOIMS-02] Goal4: no future work is proposed; will the goal have been achieved and the work of the corresponding WG finished when the current projects are finished?
    3. [ESA-MOIMS-03] Goal 5 and Goal 6: no ongoing work and nor future work is proposed; is the goal achieved and work of the corresponding WG finished ?
    4. [NASA-MOIMS-02] Does this goal follows the agreement that MOIMS has with CSS?
    5. [ESA-MOIMS-04] Goal 7, Goal 8 and Goal 9: Recommended standards in production have TBD references
    6. [NASA-MOIMS-03] “scheduling and automation”: Doesn't this overlap with CSS?
    7. [ESA-MOIMS-05] Goal 9: no future work is proposed; will the goal have been achieved and the work of the corresponding WG finished when the current projects are finished?
    8. **[**CNES-MOIMS-02] Goal2 : ADM is at work whereas it is not identified as existing for this goal.
    9. [DLR-MOIMS-01] MOIMS GOAL 4,7,8 and 9: Technical Strategic goal 4 should be added in the mentioned MOIMS Goals.
    10. [DLR-MOIMS-02] What means CW DOC, TBC? No number assigned for approved projects? (Recommended Standards / Practices Currently in Production)
  1. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
  2. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
  3. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
  4. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
  5. Comments on Future Work ‎ (i.e. Draft Projects)
     1. CNES-MOIMS-04, ESA-08] 5 years review never identified while it is always identified with the SEA. To be harmonized (incl. other Areas).

Including NAV, SM&C, DAI, TEL WGs

1. Comments on Charter
2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
     
   2.01 Data Archive Ingestion Working Group  
   [DLR-MOIMS-01] Xxx Data Entity Dictionary Specificaton Language (DEDSL) - XML Schema (Blue Book), actual completion dates till “Internal WG Review - Second draft circulated to WG” are missing.  
   [DLR-MOIMS-01] 653.0 Information Curation Process (Magenta Book), actual completion dates till First Agency Review are missing.  
   [DLR-MOIMS-01] Xxx Producer Archive Interface Specification Tutorial (Green Book), completion dates till Secretariat Document Processing are missing.  
     
   2.02 Navigation Working Group  
   [DLR-MOIMS-01] 500.0-G-4 Navigation Data—Definitions and Conventions, project is indicated as behind schedule. This could not be derived from the dates given with the project.  
   [DLR-MOIMS-01] 50x.y Navigation Data Messages Overview Green Book  
     
   2.04 Spacecraft Monitoring and Control Working Group  
   [DLR-MOIMS-01] Xxx Mission Operations - Mission Data Product Distribution Services  
   [DLR-MOIMS-01] Xxx Mission Operations - Message Abstraction Layer Binding to ZeroMQ Transport and CNES Binary Encoding  
   [DLR-MOIMS-01] Xxx Mission Operations - Massage Abstraction Layer Binding to TCP/IP Transport and Split Binary Encoding  
   [DLR-MOIMS-01] Xxx Mission Operations - HTTP Transport and XML Encoding  
   [DLR-MOIMS-01] Xxx Mission Operations - HTTP Transport and XML Encoding

2.06 Telerobotics Working Group  
[DLR-MOIMS-01] Xxx Telerobotic Standard (Blue Book), no actual completion dates until First Agency Review  
[DLR-MOIMS-01] Xxx Telerobotics Standard Roadmap (Green Book)

1. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

CSS Area (ditto SEA Area)

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals
      1. [ESA-CSS-01] Goal 1: no ongoing work (documents in production) is referenced, nor future work beyond 5 year review is proposed; is this goal achieved?
      2. [ESA-CSS-02] Goal 3: CWE Doc 902.2 B appears as document in production in both in Goal 2 and Goal 3; please explain rationale
      3. [ESA-CSS-03] Goal 4: it is not traced to the CCSDS Technical Strategic Golas
      4. [ESA-CSS-04] Goal 4: no future work is proposed; will the goal have been achieved and the work of the corresponding WG finished when the current projects are finished?
      5. [DLR-CSS-01] CSS GOAL 4— TERRESTRIAL GENERIC FILE TRANSFER: Here are not technical Strategic goal related, 4 and 7 must be added
   2. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
   3. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
   4. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
      1. [CNES-CSS-02] Is Simple schedule format really part of both Goals 2 & 3?
   5. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
   6. Comments on Future Work ‎ (i.e. Draft Projects)

Including SM and CSTS WGs

1. Comments on Charter
   * 1. [DLR-CSS-02] 3.06 Cross support Transfer Services WG should be approved in Darmstadt.
2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)
3. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

SOIS Area (ditto SEA Area)

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals
      1. [Jaxa-SOIS-01] Following information on the SOIS Link page (Related CCSDS Technical Strategic Goals) should be corrected:

Technical Strategic Goal 2, 3, 5 for Area Goals 1, 2, 3 (Incorrect)

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Technical Strategic Goal 2, 3, 5 for Area Goals 1, 2, 4 (Correct)

* + 1. [NASA-SOIS-01] The first paragraph of SOIS section should read:

*The objective of the Spacecraft Onboard Interface Services (SOIS) area is to address the services and protocols used by communication networks within a spacecraft and within close proximity of the spacecraft. These are applicable to the core spacecraft platform as well as to the interfaces with both internal and external payloads and extra-vehicular activities. SOIS also covers the use of wireless technology for ground, space and planetary surface communication within the spacecraft and within close proximity to the spacecraft.*

* + 1. [ESA-SOIS-01] Goal 1: Future Work includes an On-board Reference Architecture with two items, one based on ESA ‘s SAVOIR and another one based on NASA’s cFS. The rationale for CCSDS embarking in standardisation of onboard architectures needs to be discussed.
    2. [ESA-SOIS-01] Goal 2: The previous version of the strategic plan included the High Data Rate wireless Comms for S/c and M&C. What is the rationale for having removed this document from the plan?
    3. [ESA-SOIS-01] Goal 2: the document “Spacecraft Onboard Interface Services—RFID-Based Inventory Management Systems” it is included as Future work; it is assumed that this refers to the 5 year review, please confirm
    4. [ESA-SOIS-01] Goal 4: “To exploit the use of wireless technology wherever applicable”. This is a good principle but hardly a strategic goal of SOIS. It is suggested to remove this goal and state the principle in the general description of SOIS area goals
    5. [DLR-SOIS-01] SOIS GOAL 2: Technical Strategic goal 4 and 6 should be added in the mentioned Goals.
    6. [DLR-SOIS-02] SOIS GOAL 3: There are no documents or anything defined here
  1. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
  2. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
  3. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
  4. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
  5. Comments on Future Work ‎ (i.e. Draft Projects)

Including App and WIR WGs

1. Comments on Charter
2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
     
   4.02 Application Support Services Working Group   
   [DLR-SOIS-03] 876.1 Specification for Dictionary of Terms for Electronic Data Sheets for Onboard Components, no actual completion date till RID resolution of first agency review  
   [DLR-SOIS-04] 876.0 Electronic Data Sheets and Common Dictionary of Terms - Overview and Rationale, no actual completion date till RID resolution of first agency review
3. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

SLS Area (ditto SEA Area)

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals
   2. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
      1. [CNES-SLS-01] Goal2: why a completion date only for next generation uplink ?
      2. [CNES-SLS-01] Goal3: what happened with the AOS GB (700G3) ?
   3. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
      1. [CNES-SLS-01] Goal1: is TC Synch and channel coding (231) part of this goal (Modulations)?
   4. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
      1. [CNES-SLS-01] Goal3: are there two GB planned for NGSDLP (700.1 and TBD)?
      2. [CNES-SLS-01] Goal5: SDLS CONOPS is listed as BB and GB: is it a GB or BB or both?
   5. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
      1. [ESA-SLS-01] Goal 2: “CWE Doc. 231-.0-B TC Synchronisation and |Channel Coding:..” is being included in both Goal 1 and Goal 2 ongoing work. Pease explain the rationale.
   6. Comments on Future Work ‎ (i.e. Draft Projects)
      1. [CNES-SLS-01] Goal5: SDLS CONOPS is now listed as future work : is it in production or future ?

Including RFM, C&S, MHDC, SLP, SDLS AND OPT WGs

1. Comments on Charter
2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
     
   5.01 RF and Modulation Working Group  
   [DLR-SLS-01] 413.1 Simultaneous Transmission of GMSK Telemetry and PN Ranging, no actual completion date till Internal WG review - Final WB submitted to AD for further processing  
     
   5.02 Space Link Coding and Synchronization Working Group  
   4[DLR-SLS-02] 31.1 Variable Code and Modulation (VCM) Systems for CCSDS, no actual completion date till First Agency Review  
   [DLR-SLS-03] 131.0 Update TM channel coding Blue Book with LDPC slicing, no actual completion date till First Agency Review - RID Resolution  
   [DLR-SLS-04] 231.0 Next Generation Uplink Coding, no actual completion date till Secretariat Document Processing  
   [DLR-SLS-05] for 130.11 TM Channel Coding for SCCC, Green Book: outdated CMC approval date;   
     
   5.10 Optical Communications Working Group  
   [DLR-SLS-06] For 142.0 Optical Communications Coding & Synchronization Blue Book, actual completion dates till Internal WG Review - First draft comments due are missing, comments are outdated;  
   [DLR-SLS-07] For 141.0 Optical Communications Physical Layer Blue Book, comments are outdated;  
   [DLR-SLS-08] For 140.0 Optical Communications Concepts and Terminologies Green Book, comments are outdated;  
   [DLR-SLS-09] For 140.1 Real-Time Weather and Atmospheric Characterization Data Green Book, actual completion dates till Internal WG Review - Second draft circulated to WG are missing, comments are outdated;
3. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

SIS Area (ditto SEA Area)

1. On-line Strategic Plan
   1. Comments to Area Objectives and Technical strategic Goals
      1. [NASA-SIS-01] The SIS area needs to coordinate with private sector also specifically with IETF for the DTN development and maintenance.
      2. [ESA-SIS-01] Goal 2: Some standards in production have a TBD reference number. Please clarify.
      3. [ESA-SIS-02] Goal 2: Future work does not include approximate dates for production. Should be added.
      4. [DLR-SIS-01] SIS GOAL 3 Technical Strategic goal 2 and 6 should be added in the mentioned Goals
   2. Comments on Published Informational Reports and Experimental Specifications (i.e. GB / OB)
   3. Comments on Published Recommended Standards / Practices (i.e. BB/MB)
   4. Comments on Informational Reports in Production and Experimental Specifications ‎(i.e. approved GB / OB Projects)
   5. Comments on Recommended Standards / Practices Currently in Production ‎(i.e. approved BB / MB Projects)
   6. Comments on Future Work ‎ (i.e. Draft Projects)

Including MIA, DTN, VOICE and CFDP WGs

1. Comments on Charter
2. Comments on Approved Projects (the ones currently in the CWE Project section (View existing Project)  
     
   6.09 Delay Tolerant Networking Working Group   
   [DLR-SIS-02] Xxx Contact Graph Routing (CGR) for CCSDS  
   [DLR-SIS-03] Xxx Bundle Security Protocol for CCSDS  
     
   6.12 CFDP Revisions Working Group

[DLR-SIS-04] Xxx CCSDS File Delivery Protocol (CFDP) Update -- Implementer's Guide  
[DLR-SIS-05] Xxx CCSDS File Delivery Protocol (CFDP) Update -- Interoperability Test Plan  
[DLR-SIS-06] Xxx CCSDS File Delivery Protocol (CFDP) Update -- Introduction and Overview, no actual completion date till Final WB submitted to AD for further processing   
[DLR-SIS-07] Xxx CCSDS File Delivery Protocol (CFDP) Update -- Blue Book

1. Comments on Draft Projects (the ones currently in the CWE Project section (View Draft Project)

Additional comments (if any)

None

**Attachment: Proposal for Area Goals naming (see comment [ESA-10])**

SEA-Goal 1 Security Architecture

SEA-Goal 2 Delta-DOR

SEA-Goal 3 Reference Information architecture

SEA-Goal 4 XML Standards

SEA-Goal 5 Timelines

SEA-Goal 6 Time Service Architecture

SEA-Goal 7 CCSDS Standards Reference Architecture

MOIMS-Goal 1 Navigation Information Exchange

MOIMS-Goal 2 SSA Information Exchange

MOIMS-Goal 3 Data Exchange

MOIMS-Goal 4 Data Archival and Retrieval

MOIMS-Goal 5 Digital Repository

MOIMS-Goal 6 Mission Operations Service Framework

MOIMS-Goal 7 Mission Operations Services

MOIMS-Goal 8 Technology Mapping

MOIMS-Goal 9 Operators –Robots Information exchange

CSS Goal 1 – Cross Support Architecture Definition (given by AD)

CSS Goal 2 – Extensible Terrestrial Data Transfer Services (given by AD)

CSS Goal 3 – Extensible Service Management (given by AD)

CSS Goal 4 – Generic File Transfer (GFT) (given by AD)

SOIS-Goal 1 Standard Onboard Interfaces

SOIS-Goal 2 Onboard Wireless Communications

SOIS-Goal 3 Electronic Data Sheets

SOIS-Goal 4 Wireless Technology

SLS-Goal 1 Bi-directional Transmission

SLS-Goal 2 Coding and Synchronization schemes

SLS-Goal 3 Space Data Link Protocols

SLS-Goal 4 Data Compression

SLS-Goal 5 Space data Link Security

SLS-Goal 6 Optical Communications

SIS-Goal 1 Internet Standards

SIS-Goal 2 Application Layer Protocols

SIS-Goal 3 Solar System Internet