**SM&C WG WebEx #077 – Minutes of Meeting**

Date: 28 July 2015

Issue: 1.0

Participants:

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| Present? | Initials | **Name** | **WG** | **Organisation** |
| x | MM | Mario Merri | MOIMS | ESA |
| x | MSa | Mehran Sarkarati | SM&C | ESA |
| x | CC | Cesar Coelho | SM&C | ESA |
| x | TN | Tiago Nogueira | SM&C | ESA/ZfT |
| x | GM | Giovanni Martucci di Scarfizzi | SM&C | Italy/Altec |
| x | GC | Geri Chaudhri | SM&C | Aerospace Corp. |
| x | MW | Michael Wendler | SM&C | DLR |
| x | DS | Dan Smith | SM&C | NASA/GSFC |
| x | DB | Duane Bindschadler | SM&C | NASA/JPL |
| x | PG | Pete Gonzalez | SM&C | NASA/JSC |
| x | EV | Eddie Villalva | SM&C | NASA/JSC |
| x | KN | Kelvin Nichols | SM&C | NASA/MSFC |
|  |  |  |  |  |
|  | BB | Brigitte Behal | MOIMS | CNES |
|  | EP | Erwann Poupart | SM&C | CNES |
|  | MD | Marc Duhaze | SM&C | CNES |
|  | NC | Nicolas Champsavoir | SM&C | CNES |
|  | DF | David Feliot |  | CNES/Scalagent |
|  | SG | Stefan Gärtner |  | DLR |
|  | IH | Ian Harrison | SM&C | ESA |
|  | MZ | Michele Zundo | SM&C | ESA |
|  | NP | Nestor Peccia | MOIMS | ESA |
|  | RB | Robert Blommestijn | SM&C | ESA |
|  | SC | Sam Cooper | SM&C | ESA/SciSys |
|  | CF | Curtis Fatig |  | NASA/Goddard |
|  | RJ | Ron Jones |  | NASA/Goddard |
|  | PS | Peter Shames |  | NASA/JPL |
|  | SB | Scott Burleigh |  | NASA/JPL |
|  | CB | Craig Biggerstaff |  | NASA/JSC |
|  | DSu | David Sumpter |  | NASA/JSC |
|  | SL | Steve Lucord |  | NASA/JSC |
|  | SJ | Steve James | SM&C | UKSA/CGI |
|  | RT | Roger Thompson | SM&C | UKSA/SciSys |

# Agenda

Dan Smith welcomed all participants and asked if everyone agreed with the proposed agenda that was distributed, that is:

1. Status of each active SM&C Project
   * Documents
   * Prototypes
2. Recent updates to the MOIMS Objectives
3. Start of the November meeting agenda
   * What other WGs should we plan to meet with?
4. ESA’s generic MO Service consumer test application (Mehran)
5. Ideas on posting of shareable software
6. Action item review

# Discussion Topics

## Document/Project Review

The intent was to call up the CWE project status displays on-line, but it was clear that many of the documents were not listed. Mehran Sarkarati will investigate. Because of the missing information, it was not practical to review status on all efforts, but the team did well presenting what they could.

* M&C Services. Mehran explained again the importance of the M&C Services prototype efforts. The ESA one is complete and DLR is now pushing for an October prototype completion. The Yellow book will then be completed quickly and the M&C Services book can be submitted to the CESG in November.
* TCP/IP and Binary Encoding document. ESA has completed an early draft that Mehran will send out to the team. Note that ESA’s TCP/IP binding software is available on their GITHUB site.
* Data and Product Distribution. Working on both the document and prototype. Wll discuss at the November meeting, as there has been very little full-team input into the definition of such a service.
* C++ Binding. Pete Gonzalez from NASA/JSC explained that he is working to complete the Magenta Book prior to the November meeting. He has been writing a large amount of software to validate everything going in to the document. He noted that he is using Sam Cooper‘s JAVA API document as a model. Mehran will set up a meeting with Mehran, Sam, and Pete to discuss further.

## Updated MOIMS Objectives

Mario Merri, as the MOIMS Area Director, has recently made updates to the MOIMS Objectives based on recommendations he received from the MOIMS WG leads and others. The objectives include the high-level objectives for the MO Services and the SM&C Team. No problems were noted during the quick review we did during the meeting. A copy of the objectives is being distributed and Mario noted that he planned to formally submit the changes on Friday, July 31, 2015.

## Start of November Meeting Agenda

Dan Smith presented the first draft of an agenda for the November meetings in Darmstadt. Dan has the action to find out how much time is available for working gorup efforts on the Friday of the meeting week. An updated version of the agenda is provided below.



## ESA’s generic MO Service consumer test application

Mehran showed several charts and explained the new MO service test application that ESA has developed. We will talk about it in more detail in darmstadt.

## Ideas on posting of shareable software

There was general agreement that MO Services software and support tools should be available as open source when practical. An organized catalog hosted by CCSDS should provide names, descriptions, point-of-contact, and location of the software. Dan will continue to work with the CCSDS management team as they look at common practices across all working groups.

# Next Meetings

SM&C WG WebEx #078 September 29, 2015

SM&C WG WebEx #079 October 27, 2015

Fall CCSDS Meeting. Darmstadt November 9-13, 2015

# Review of Actions

Dan Smith needs to merge the Action Item List from Webex #076 with the updates from the meetings in Pasadena. We did not go through the Action Item List in detail at this meeting.

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| **ID** | **Action** | **Due** | **Actionee** | **Status** |
| 111102-01 | SC to update the SM&C-SOIS MoU with the material in the TN. Final version (w/o change bars need to be distributed). | 16Mar15 | SC | OPEN. |
| 130416-03 | IH to draft a document that explains how MO service could fit to the current ESA operational concept. | 16Mar15 | IH | OPEN. |
| 131031-04 | MM to identify way of collecting information on activities relevant to MO services (e.g. lists of studies, developments, prototypes, OSS, …), maybe using the CCSDS Wiki). | 16Mar15 | MM | OPEN. |
| 140331-02 | SC to agree with PS and document 2 or 3 scenarios where the SCCS-ARD charts could be extended to include MO services/MO Stack. | 16Mar15 | SC | OPEN. |
| 141110-01 | MZu to redline the MO Services GB (issue 3) in order to align it to current status of SM&C, and make it more readable and user friendlier. | 16Mar15 | MZu | OPEN. |
| 141110-02 | SG to check if the MO Service tutorial is up-to-date, in particular on how to use the GitHub, and make it available via the MO Service Wiki on GitHub. | 16Mar15 | SG | OPEN. |
| 141110-03 | SC, SG and IH to check the ICD of the JSC-DLR prototype and to confirm, in case MO M&C Services are used, which parts are still needed and which parts are now redundant and can be removed. The list of all the items that need to be agreed between the two parties outside the standard will be produced and a recommendation shall be provided on how to document it in the standards. Make also a similar exercise for the COM Archive Service both for data retrieval from the Archive and data inclusion into the Archive. | 16Mar15 | SC, SG, IH | OPEN. |
| 141111-03 | CC to compare the MO Directory Service with other similar services (e.g. UDDI) for completeness or even need. | 16Mar15 | CC | OPEN. |
| 141111-05 | SC and CC to draft a TN with the proposed expansion of the Access Control Service and Configuration Service to meet the submitted (and implicit) use cases. | 16Mar15 | SC, CC | OPEN. |
| 141111-06 | SJ 1) to rework the template for technology mappings in order to isolate standards, implementation and encoding aspects, and 2) to map the encodings/transports that have been already implemented in prototypes (JMS, RMI and TCP-IP). | 16Mar15 | SJ | OPEN. |
| 141111-07 | MW to check within DLR if there is the possibility to support, possibly also by means of students and/or trainees, the production of a technology binding BB. | 16Mar15 | MW | OPEN. |
| 141111-08 | BB to check if all CNES OSS could be put on GitHub (currently only the testbed is). | 16Mar15 | BB | OPEN. |
| 141112-02 | DS to provide an update on the status of the C++ Language API. | 16Mar15 | DS | OPEN. |
| 141112-03 | ALL agencies to identify whether they can support the second prototype for the ZeroMQ binding. | 22Mar15 | ALL | OPEN. |
| 141113-02 | CC to devise a high level tutorial and place it on the MO Wiki on GitHub. | 16Mar15 | CC | OPEN. |

# New Actions from Current WebEx

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| **ID** | **Action** | **Due** | **Actionee** | **Status** |
| 150728-01 | Update the action item list from the Pasadena meeting, | Telecon #78 | Dan Smith | OPEN. |
| 150728-02 | Resolve CWE document tracking issues. Not all documents are showing up. | Telecon #78 | MehranSarkarati | OPEN. |
| 150728-03 | Convey the SM&C thoughts on software catalogues to those looking at approaches across all Areas and WGs | Telecon #78 | Dan Smith | OPEN. |
| 150728-04 | Check on overall schedule for Darmstadt and update the draft agenda. It is not clear what time blocks are allocated for WG efforts and which are reserved for CCSDS management meetings of Plenary meetings. | Telecon #78 | Dan Smith | OPEN. |
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