**MOIMS Content (http://cwe.ccsds.org/fm/sp/Lists/MOIMSContent/AllItems.aspx)**

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| MISSION OPERATIONS AND INFORMATION MANAGEMENT SERVICES AREA | The objective of the MOIMS area is to address all application-level standards and their associated information management that are required to operate spacecraft and robots, and their ground system in response to mission requirements. The focus of this area is primarily on the Mission Operations (MO) data and services that are required for preparing and conducting space mission operations. These application-level standards will facilitate the availability of plug-in components exposing standard service interfaces, which will allow a simplified and economical assembly of both space and ground segments and enable interoperability and operations automation. Consistency at data and service level within MOIMS shall be achieved by adherence of new standards to the MO Service Framework.  The MOIMS area needs to coordinate with:   * the CSS area that is responsible for the interfaces between the mission control systems and the ground network/stations, including for ground station planning and scheduling; * the SEA area on matter regarding the CCSDS System Architecture, Security and XML guidelines; * the SOIS area on matter related with potential MO services on-board; * all areas, including within MOIMS, for the provision of consultancy and support on the potential use of the MO Service Framework; * the SANA on matter regarding practices for registries and repositories.   The strategic goals of the MOIMS area are listed below. |
| MOIMS GOAL 1 | Establish the content and format for tracking, attitude, trajectory, pointing, and maneuver data to enable the exchange of navigation information (e.g., position, velocity, and attitude).​ |
| MOIMS GOAL 2 | Enable the exchange of space situational awareness information between navigation data originators and satellite owner/operators and other authorized parties via Orbit Data Messages (ODMs) (for prediction), Tracking Data Message/Navigation Hardware Message (TDM/NHM) (for tracking data used in orbit determination), Spacecraft Maneuver Message (SMM) (for disseminating information regarding maneuvers), and the Conjunction Data Message (CDM) (for communicating a predicted conjunction collision).​ |
| MOIMS GOAL 3 | Specify an extensible framework for describing and packaging data and metadata, to share non-ambiguous data descriptions usable by software to enable the exchange and dissemination of data accompanied by the information required to use it​. |
| MOIMS GOAL 4 | Specify widely applicable generic CCSDS requirements for data archival and retrieval, either during the mission life (preservation preparation), or on the long term. It includes acquiring, ingesting, managing, and disseminating data and metadata to, within, and from archives, and the data lifecycle management. |
| MOIMS GOAL 5 | Establish the criteria that a repository must meet to be designated an “ISO Trusted Digital Repository”. |
| MOIMS GOAL 6 | Establish the CCSDS MO Service Framework to be used to specify MO Services in a technology and location independent manner for any application-level services between mission control systems and all other mission operations ground assets (except ground stations) and for end-to-end space-ground MO services via encapsulation/SLE tunneling, including mission planning and scheduling. Also, promote and support the use of MO Service Framework in other CCSDS WGs. |
| MOIMS GOAL 7 | Specify an expandable suite of MO Services that shall be used for the interfaces between the mission control systems and all other mission operations ground assets (except ground stations) and for end-to-end space-ground. The preliminary list of MO Services includes: monitor & control; mission planning, scheduling and automation; mission data product distribution; navigation; time; software management; file management; data product management control. |
| MOIMS GOAL 8 | Specify an expandable suite of software language Application Programming Interfaces and technology bindings/encodings that allow the deployment of MO Services over different technologies. This allows for the selection of the best technology for any MO Service deployment. |
| MOIMS GOAL 9 | Specify an expandable suite of MO services for Telerobotic operations that will permit operators and robotic agents to freely exchange information, enabling the operators to communicate with heterogeneous robots in a uniform fashion. |