

Modular Open Systems Approach (MOSA) Working Group Telecon

April 6th, 2022

Begins at 11:03

James Mastandrea and Kristin Jaburek
Johns Hopkins Applied Physics Laboratory
Space Exploration Sector



Meeting Agenda

- LSIC MOSA WG Introduction & Status Update
- Technical Presentation: **Artemis' Graphical User Interface Standards**
 - Chad Thrasher
 - NASA's Artemis Campaign Development Division Systems Interoperability Lead


- Goals:
 - Document community feedback on recommended lunar MOSA activities
 - Compile existing efforts and identify overlap
 - List systems that could benefit from MOSA
 - Perform system decompositions to find critical interfaces & what requirements are needed to ensure interoperability
 - Host talks on lunar interoperability



LSIC | MOSA Working Group

Updates on Confluence

LSIC Home
Created by Andrea Harman, last modified on Mar 12, 2022



Confluence Training Sessions
If you're just getting to know Confluence, please contact [@Andrea Harman](#) for support and training.

Focus Areas

Dust Mitigation (DM)	Excavation & Construction (E&C)	Extreme Access (EA)
Extreme Environments (EE)	In Situ Resource Utilization (ISRU)	Surface Power (SP)

Working Groups

[MOSA](#)

Visit LSIC's external website here: lsic.jhuapl.edu
Visit LSIC's LinkedIn site here: <https://www.linkedin.com/groups/13861869/>
LSIC's code of conduct for members is available [here](#).

Existing Interoperability Standards & Programs

Existing Interoperability Standards & Programs

Created by Kristin Jaburek, last modified on Mar 18, 2022

The following existing standards and programs have been collected from LSIC Community through Focus Group and Subgroup meetings. Thank you for your input. Anything we missed or understood incorrectly? Drop a comment on this page and let us know.

Existing Interoperability Standards & Programs

Category	Existing Standards & Programs	Link
Communications	International Deep Space Interoperability Standards - International Communication System Interoperability Standards (ICSIS)	https://www.internationaldeepspacestandards.com
Communications	Interoperability Plenary (IOP)	https://www.interoperabilityplenary.org/home.aspx

Focus Group Suggested Items for MOSA

Focus Group Suggested Items for MOSA

Created by Kristin Jaburek on Mar 21, 2022

The following suggested items to consider for MOSA efforts were gathered from the Surface Power Focus Group during the February 24, 2022 Telecon.

Category	Focus Group Suggested Items to Consider for MOSA Efforts
Voltage/Frequency/Current	AC Frequencies, Rated Power Levels, Standard Voltage Power Sets for Different Applications, Long Distance Power Transmission Voltage Standards, Acceptable Power Losses, Cell Voltage Monitoring, Power Management, Power Electronics, Interfaces to High Voltage Arrays, Tolerance to Multiple Power Sources, Customer Power Delivery Standards

Who's Who is Lunar Interoperability

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LSIC Spring Meeting MOSA Panel

- Wednesday May 4th at 3:00PM ET

Moderators:

- Jessy Kate Schingler, Open Lunar Foundation
- Dr. James Mastandrea, APL

Panelists:

- Mark Mazzara, Robotics Interoperability, Engineer & Project Manager, US Army
- Meera Towler, Senior Research Engineer, Southwest Research Institute
- Mathew DeMinico, Power Portfolio Manager, NASA Glenn Research Center
- Amalaye Oyake, Senior Flight Software Engineer, Blue Origin
- Chad Thrasher, Systems Interoperability Lead, NASA's Artemis Campaign Development Division

Artemis' Graphical User Interface Standards

- Chad Thrasher
NASA's Artemis Campaign Development Division
Systems Interoperability Lead

