

Mission Success Summit

Space: Real Talk, Real Action

MAY 2, 2023

HYBRID | THE AEROSPACE CORPORATION | CHANTILLY, VA

WHO:

About 120 government, industry, FFRDC, UARC and non-profit participants

WHAT:

One Keynote Fireside Chat, four panel sessions and four breakout groups focused on four focus areas: Acquisition; Cislunar; In-Space Servicing, Assembly & Manufacturing; and Space Industrial Base

- Explored recent national and agency-level guidance
- Discussed cross-cutting opportunities for enterprise integration
- Developed Calls to Action for the space enterprise to move from intent to action

NEXT STEPS:

Summit participants and broader space enterprise will synchronize in targeted engagements to implement the priority Calls To Action to achieve intended outcomes.

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Agenda

- *Welcome*
- *Fireside Chat: Opportunities for Enterprise Integration in Acquisition, Cislunar, Space Industrial Base and ISAM*
- *“Fly Me to the Moon” on an Autonomous Robotic Servicing Mission? (ISAM/OSAM)*
- *“Two Worlds Collided” and “We Are Going!”... to Cislunar*
- *“Defying Gravity”... and the Laws of Acquisition!*
- *“I’ll Fly with You”... Powered by the “Supply Chain of the Stars” (Industrial Base)*
- *Breakouts*
- *Next Steps: Report-outs on Calls to Action*





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Priority Calls to Action



Acquisition

- Connect new acquisition programs back to the relevant force design capabilities they are achieving [*Asst Secretary of Air Force for Space Acquisition and Integration, Architecture Integration directorate*]
- Define the feedback loop between requirements and acquisition decisions for several exemplar acquisitions [*HQ USSF/S5 and all acquisition organizations*]
- Identify/publish current requirements that can be sufficiently or partially achieved by buying capabilities as a service on-orbit [*Commercial Space Office*]

Industrial Base

- Establish tool for sharing space supply chain information to surface delays in materials, transportation, policy changes and trade embargos [*Aerospace*]
- Engage with the Tier 1 and Tier 2 space industry suppliers to surface supply chain concerns through discussion with government stakeholders. Hold quarterly working group meetings between industry and government to overcome obstacles to supply chain issue reporting [*Space Industrial Base Working Group, Aerospace Industries Association*]
- Establish forum with Tier 2 and 3 suppliers to enable a coordinated voice to government [*Aerospace*]
- Execute mitigation measures on the top 5 high-priority space industry component sectors - Bearings, Capacitors, SBCs, PWBs, Power supplies, Solder Columns [*All space enterprise*]

Cislunar

- Establish platform and common engineering environment for coordination and collaboration on Cislunar Master Planning [*American Institute of Aeronautics & Astronautics Cislunar Ecosystem Task Force*]
- Develop roadmaps to inform commercial investments to increase visibility into Government R&D and capability needs [*Office of the Under Secretary of Defense for Research & Engineering, NASA, DARPA*]
- Develop standards towards interoperability [*CONFERS*]

In-Space Servicing, Assembly and Manufacturing

- Establish simple, enabling standards and identify practical solutions to promote adoption of ISAM [*Space enterprise – USG, industry, UARCs/FFRDCs, CONFERS, Consortium for Space Mobility and ISAM Capabilities – COSMIC*]
- Develop requirements and identify authorization and supervision authorities for servicing [*USSF Space Access, Mobility, and Logistics Working Group, COSMIC with Aerospace*]
- Educate users, regulators, and companies on the value proposition and state of the art for ISAM capabilities [*COSMIC, CONFERS*]

Agenda

Welcome

Dr. Wayne Goodman, Executive Vice President, The Aerospace Corporation

Fireside Chat

Moderator: Dr. Wayne Goodman

Panelists:

- Bethany Harrington, OUSD R&E
- Tom Cremins, National Aeronautics and Space Administration
- Dr. Nathan Dalrymple, Space Rapid Capabilities Office
- Bo Naasz, National Aeronautics and Space Administration

“Fly Me to the Moon” on an Autonomous Robotic Servicing Mission? (ISAM/OSAM)

Moderator: Geoff Reber, The Aerospace Corporation

Panelists:

- Lt Col Frank Clark, United States Space Force
- Jill McGuire, National Aeronautics and Space Administration
- Rob Prickett, Intelsat
- Joseph Anderson, SpaceLogistics

“Two Worlds Collided” and “We Are Going!”... to Cislunar

Moderator: Ron Birk, The Aerospace Corporation

Panelists:

- Nantel Suzuki, National Aeronautics and Space Administration
- Dan Hendrickson, Astrobotic
- Greg Heckler, National Aeronautics and Space Administration
- Laura Delgado-Lopez, National Aeronautics and Space Administration
- Wes Fuhrman, Johns Hopkins University Applied Physics Laboratory

“Defying Gravity”... And the Laws of Acquisition!

Moderator: Jack Clarke, The Aerospace Corporation

Panelists:

- Col Eric Felt, Office of the Assistant Secretary of the Air Force for Space Acquisition & Integration
- Jeremy Leader, Space Systems Command
- Andrew D’Uva, Providence Access Co.
- Kevin Thaxton, Space Division Headquarters, U.S. Army
- Frank Turner, Space Development Agency

“I’ll Fly with You”... Powered by the “Supply Chain of the Stars” (Industrial Base)

Moderator: Coreen Moncrief, The Aerospace Corporation

Panelists:

- Darwyn Banks, National Reconnaissance Office
- Jesse Leitner, National Aeronautics and Space Administration
- Brian Gabriel, Lockheed Martin
- John Dinkha, SpaceX
- Dave Garten, Honeywell

Breakouts

Next Steps: Report-outs on Calls to Action





Email to distribute to Mission Success Summit participants and recipients of the deliverable

Dear Mission Success Summit community,

Thank you for your interest in the Mission Success Summit, an annual hybrid event, which was held on May 2, 2023, at The Aerospace Corporation in Chantilly, Virginia, and virtually.

This year's summit, Space: Real Talk, Real Action, addressed national and global strategy surrounding:

- Space enterprise acquisition
- The cislunar regime
- In-space servicing, assembly, and manufacturing
- The space industrial base

At the summit's conclusion, government and industry leaders identified specific "calls to action" necessary to move from strategic intent to operational mission success. Attached are 13 "calls to action" and the recommended organization to coordinate each of them over the coming months. Accomplishing these will motivate and facilitate the implementation of national-level strategies to achieve their full potential.

We look forward to your feedback and the steps being taken by your organization to help accomplish each of these actions. If you have any feedback or questions, please email our External Engagement Office at EI@aero.org.

Thank you,

The Aerospace Corporation
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