

Lunar Interoperability Forum

7 May 2024

The Indian Treaty Room East Wing of the Eisenhower Executive Office Building White House, Washington DC

Bringing together members of the lunar exploration community to discuss drivers, opportunities, and means to foster development of secure interoperable communications and navigation systems.

Overall Agenda

• 8:00 AM	Check in
• 8:15 AM	Welcome by Forum Chair: Sami Asmar
	Remarks from White House, Dept. of Commerce, and/or NASA officials
• 8:45 AM	Keynote talks by Vint Cerf
• 9:15 AM	Panel 1: Space Agencies
• 10:30 AM	Panel 2: CCSDS Engineering Steering Group
• 12:00 PM	Lunch
• 12:45 PM	Panel 3: Industry & Academia
• 2:30 PM	Discussions & Concluding Remarks
• 3:00 PM	Exit building

Panel 1: Space Agencies & Organizations

Chair: S. W. Asmar

- IOAG
 - Jim Schier: "Cislunar Infrastructure: The Convergence of Architecture, Governance, and Interoperability"
- JAXA
 - Masaya Murata: "Japan Lunar Navigation Satellite System and Its Contribution Towards Lunar Augmented Navigation Service"
- ESA
 - Javier Ventura-Traveset: "Moonlight, LCNS, and Lunar Pathfinder: European contribution to lunar Communication and Navigation Services"
- CNES
 - Jean-Luc Issler: "CCSDS frequency band recommendations related to lunar in-situ 3GPP 5G, WIFI and PNT"

Panel 2: Areas of the CCSDS Engineering Steering Group Chair: K.-J. Schulz

- System Engineering Area, Peter Shames
- Space Link Services, Ignacio Aguilar Sánchez
- Space Internetworking Services Area, Ivica "Vinny" Ristovski
- Cross Support Services Area, Erik Barkley
- Mission Operations and Information Management Services Area, Daniel Fischer
- Spacecraft Onboard Interface Services Area, Jonathan Wilmot

Panel 3: Industry & Academia Chair: Masaya Murata

- Marshall Eubanks (Space Initiatives Inc.): The new lunar position, navigation and timing reference system
- Alberto Montilla (Spatiam Corp.): Building DTN capabilities in LunaNet Service Provider Networks
- Ramy Kozman (Surrey Satellite Technology LTD): Commercial Data Relay Services in the Cis-Lunar Environment with SSTL's Lunar Pathfinder
- Massimo Capozzi & Riccardo Petix (Telespazio): Moonlight LCNS European Industries Roadmap for Communication and Navigation Services
- Andrea Domenico Mourglia (Thales Alenia Spazio, Italy): Multi-Purpose Habitation (MPH): Enabling Lunar Exploration and LunaNet Services
- Farzana Khatri (MIT Lincoln Lab): Lunar Optical Communications
- Peter Shames (Jet Propulsion Laboratory, California Institute of Technology): Challenges for Secure Interoperability at the Moon
- Edward J. Birrane (Johns Hopkins Applied Physics Laboratory): Security and Management of DTNs in the Cis-Lunar Environment
- Jon Hamkins (Jet Propulsion Laboratory, California Institute of Technology): Technology considerations for PNT at the Moon