

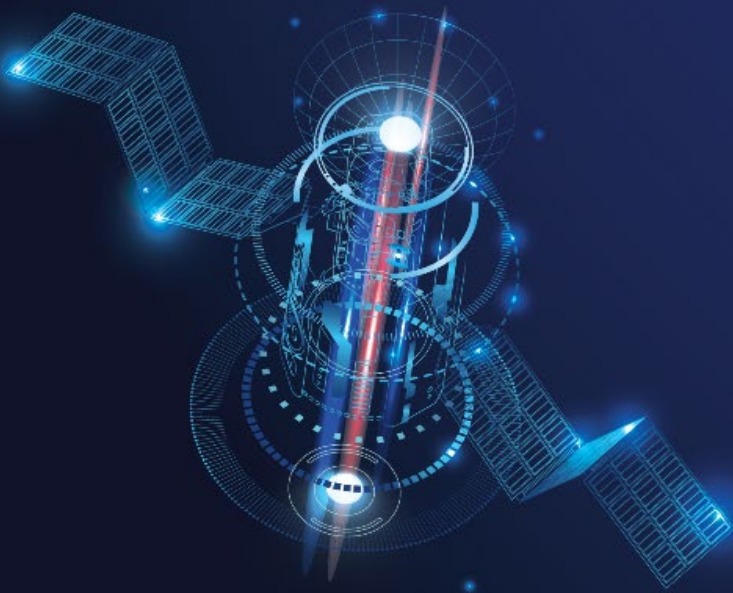
WELCOME TO

CONFERS

FOSTERING THE SATELLITE SERVICING INDUSTRY

2022 GLOBAL SATELLITE SERVICING FORUM

PRINCIPLES OF A GLOBAL SATELLITE SERVICING ECOSYSTEM



**OCTOBER 19-20
HILTON ARLINGTON
ARLINGTON, VA**

AGENDA

DAY 1 – October 19, 2022

08:00 Registration

With continental breakfast available

09:00 Opening Welcome

Brian Weeden, CONFERS Executive Director

Ana Saplan, Program Manager, Tactical Technology Office (TTO), DARPA

Chris Blackerby, Chair, CONFERS Executive Committee and COO, Astroscale

09:30 Market Briefing: Growth and Diversity of the Satellite Servicing Industry

Renata Knittel Kommel, Space Analyst, BryceTech

09:45 Fireside Chat: Providing Policy & Program Frameworks for In-space Satellite Servicing

A fireside chat discussion of current efforts by governments to develop and implement strategies for supporting the development of satellite servicing related capabilities.

Moderator: Chris Blackerby, Chair, CONFERS Executive Committee

Ezinne Uzo-Okoro, Assistant Director for Space Policy, White House Office of Science and Technology Policy (WH OSTP)

Jacob Geer, Chief of Staff, UK Space Agency

10:15 Spotlight Talk: iSSI[®] for ISAM: Enabling Ultimate Plug+Play in Space

Joerg Kreisel, Chairman, iBOSS GmbH

10:30 Morning Coffee Break

11:00 Wheeling, Dealing, and Placing Bets on Satellite Servicing

Structuring the contracts for commercial satellite servicing requires more than just relationships between clients and servicers. Enabling a functional satellite servicing ecosystem will involve contractual and business relationships with insurance, legal, financial and other aspects of a broader community. This session will discuss experience and outlook for establishing those relationships.

It will keep in mind a CONFERS Guiding Principle: “RPO for on-orbit services with artificial space objects will be conducted via commercial agreements between consenting parties using generally accepted business and contractual practices.”

Moderator: Brian Weeden, CONFERS Executive Director

Speakers:

Jason Aspiotis, Director, In-Space Solutions | Infrastructure & Logistics, Axiom Space

Tony Lin, Partner, DLA Piper LLP

Rob Scheige, Senior Vice President, Willis Towers Watson

11:45 Spotlight Talk: CONFERS as a Space Standards Development Influencer

Fred Slane, Executive Director, Space Infrastructure Foundation

12:00 Networking Lunch sponsored by Astroscale

13:00 Luncheon Keynote

Col. Meredith S. Beg, United States Space Force (USSF), Deputy Director of Operations, Servicing and Maneuver

13:30 Mind the Gap: Avoiding Pitfalls in the Servicing Regulatory Framework

As an emerging and still novel type of space activity, satellite servicing poses new regulatory questions and challenges. Operators and regulators must both consider the regulatory practices and approaches that are necessary to avoid market and safety pitfalls in the development of the servicing ecosystem. In two parts, this session will explore how regulation can be developed to help enable the satellite servicing ecosystem.

It will keep in mind a CONFERS Guiding Principle: "The collaborating parties of both the client space object and servicer spacecraft, as well as any third parties engaged in the activity, will comply with all appropriate licensing and regulations, of all cognizant national jurisdictions of the involved parties."

13:30 Part I: Current Licensing Frameworks

A panel of U.S. and international government representatives will discuss current regulatory frameworks in place, and under development, for satellite servicing related activities.

Moderator: Joe Anderson, CONFERS Executive Committee

Speakers:

Florent Lacomba, Space Safety Office, CNES

Shoichiro Sakaguchi, Director-General for International Cooperation, National Space Policy Secretariat, Cabinet Office, Government of Japan

Diane Howard, Director for Commercial Space Policy at the White House National Space Council

14:15 Part II: Licensing Needs and Improvements for Satellite Servicing

A panel of satellite servicing industry representatives will discuss the need for updated regulatory practices to support satellite servicing operations. What regulatory gaps can be closed and how can frameworks be made more effective to enable servicing activities?

Moderator: William Kowalski, Chair, CONFERS Policy Working Group

Speakers:

Joe Anderson, Vice President, Business Development and Operations, SpaceLogistics LLC

Will Lewis, Attorney, Aegis Trade Law

Laura Cummings, Regulatory Affairs Counsel, Astroscale U.S.

15:15 Networking & Coffee Break

15:45 Spotlight Talk: SpaceLogistics – Satellite Servicing and Space Sustainability

Robert Hauge, President, SpaceLogistics LLC

16:00 Special Session: ISAM Envisioned Futures

In this session, invited speakers from NASA will discuss the agency's viewpoints and role in the future ISAM ecosystem.

Speakers:

Trudy Kortez, Director, Technology Demonstrations, NASA

Bo Naasz, Rendezvous and Capture System Capability Lead, NASA

Tom Colvin, Senior Policy Advisor, Office of Technology, Policy, and Strategy (OTPS),
NASA

17:00 Reception sponsored by SpaceLogistics LLC

DAY 2 – October 20, 2022

08:00 Registration

With continental breakfast available

09:00 Breakfast Keynote

Mark Dickinson, Deputy CTO & VP, Space Segment, Inmarsat

09:30 Unknown Unknowns and Dealing with Bad Days in Space Part I: Experiences from Missions to Date

What can servicing providers learn from our initial experiences with in-orbit operations? Emphasizing best practice in practice this session will highlight CONFERS members' experience with both nominal and off nominal servicing operations. Each mission is different but there are significant similarities in how to perform approach and capture. This session will review actual demo and operational missions in LEO and GEO and the lessons learned that can be applied. It will also consider how early-stage companies can integrate operational lessons learned into their mission design and planning.

The session will keep in mind a CONFERS Guiding Principle: "In order for the industry to flourish, commercial servicing operators will ensure their activities are planned and conducted in a responsible manner to promote safety and mission success."

Moderator: Jamie Landers, CONFERS Executive Committee

Speakers:

Gregg Herbert, Chief Engineer, SpaceLogistics LLC

Seita Iizuka, Director of Programs, Astroscale Japan

James Bultitude, Chief Technology Officer, Orbit Fab, Inc.

John Lymer, Chief Architect, MDA

Brien Flewelling, Director of Strategic Program Development, ExoAnalytic Solutions Inc.

10:15 Unknown Unknowns and Dealing with Bad Days in Space Part II: Planning for Future Operations

What can servicing providers learn from our initial experiences with in-orbit operations? Emphasizing best practice in practice this session will highlight CONFERS members' experience with both nominal and off nominal servicing operations. Each mission is different but there are significant similarities in how to perform approach and capture. This session will review actual demo and operational missions in LEO and GEO and the lessons learned that can be applied. It will also consider how early-stage companies can integrate operational lessons learned into their mission design and planning.

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Moderator: Jamie Landers, CONFERS Executive Committee

Speakers:

Özge Polson, Director of Commercial Business Development, SCOUT Space
Troy Morris, Co-Founder and the Director of Operations, Kall Morris Inc (KMI)
Trevor Bennett, Co-founder, Starfish Space
Rob Hoyt, Chief Technologist, Tethers Unlimited

11:00 Coffee Break sponsored by MDA

11:45 Spotlight Talk: Orbit Fab

Daniel Faber, Co-Founder and CEO, Orbit Fab

12:00 International Coordination on Satellite Servicing Guidelines & Principles

This session will discuss how several ongoing efforts to develop guidelines and principles for in-space servicing related activities, including CONFERS and the European Operations Framework (EOF) under the PERASPERA program, can be complementary efforts in enabling a satellite servicing ecosystem.

Moderator: Joerg Kreisel, Vice-Chair, CONFERS Executive Committee

Introductory Talk: The European Operations Framework

Sebastian Dittrich, German Representative PERASPERA-X, German Aerospace Center (DLR)

Panel Discussion:

Sabrina Andiappane, Head of On-Orbit Servicing, Thales Alenia Space
Sebastian Dittrich, Robotics, Digitalisation and AI, DLR
Bo Naasz, Rendezvous and Capture System Capability Lead, NASA
Fred Slane, Executive Director, Space Infrastructure Foundation

13:00 Networking Lunch

14:00 Rising Generation Outlook on Satellite Servicing

Moderator: Jeremy Schiel, Treasurer, CONFERS Executive Committee

Speakers:

14:00-14:15 Lauren Smith and Emily Amador, SpaceLogistics LLC
14:15-14:30 Alec Cavaciuti and Joey Heying, Aerospace Corporation

14:30 Program Briefing: SPACEWERX Orbital Prime Program

Colin Bettis, SPACEWERX Fellow, Orbital Prime

14:45 Spotlight Talk: The ISAM Path, Tasks, and Milestones

Stephen Daire, Owner, Protean Industries

15:00 Spreading the Word: Trust, Transparency and Tangible Benefits

In order for the satellite servicing ecosystem to thrive - that ecosystem must both be able to provide value and benefit to the broader community and to effectively engage with that broader community - including clients, governments, and the public - in communicating the story of satellite servicing. This session will focus on communicating effectively around servicing activities. It will keep in mind a CONFERS Guiding Principle: "Parties conducting commercial servicing operations will work within the principle of transparency to promote safety and trust."

Moderator: Dave Hebert, Chair, CONFERS Communications Working Group

Speakers:

Ché Bolden, President and CEO, The Charles F. Bolden Group

Camille Elizabeth, Advanced Programs Business Development Lead, Orbit Fab

Mike Gold, Executive Vice President for Civil Space and External Affairs, Redwire

Theresa Hitchens, Senior Space Reporter, Breaking Defense

16:00 Money Makes the Orbits go 'Round: Financing the Growing Satellite Servicing Industry

"Companies that are working on satellite servicing are mostly at an early stage. Many of these are venture-backed start-ups, simultaneously attempting to build a company and create a whole new ecosystem. For these companies, the issue of making accurate revenue projections, acquiring funds, and maintaining runway are paramount. Investment from both public and private financing sources is driving this nascent, high-growth sector of the space industry. In this session we will hear the visions from some of these financial leaders." What makes servicing 'investable'? And how does financing translate to sustainable companies and capabilities?

Moderator: Jacqueline Feldscher, Senior Policy Reporter, Payload

Speakers:

Peter Cannito, Chairman and CEO, Redwire

Xiaoming Yin, Senior Investment Manager, Lockheed Martin Ventures

17:00 Announcement on the Future of CONFERS

Chris Blackerby, Chair, CONFERS Executive Committee

17:15 Reception sponsored by Orbit Fab

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