

**FAA ATO Space Collaborative Decision Making (Space CDM)
Space Operations Committee (SpOC) XI Meeting
May 7, 2025
Executive Summary**

What: On May 7, 2025, ATO System Operations Services held a Space Collaborative Decision Making Program (Space CDM) Space Operations Committee (SpOC) meeting. This is a summary of the event.

Who: Space launch and re-entry operators included **Blue Origin, Firefly Aerospace, Relativity Space, Rocket Lab, Sierra Space, SpaceX, Stoke Space Technologies, United Launch Alliance, and Virgin Galactic.**

The **Airlines for America, Commercial Space Federation, International Air Transport Association, National Business Aviation Association, NATCA, NASA, Space Florida, and U.S. Space Force** also participated.

The FAA participants included offices from the **ATO**, including **AJR, AJM, AJT, AJV, and NextGen (ANG)**, and the FAA's Office of Commercial Space Transportation (**AST**).

The program is invitation-only, collaborative, and not a Federal Advisory Committee Act (FACA) meeting.

Core agenda:

Agenda	Jeeja S. Vengal <i>Group Manager, FAA ATO Space Operations</i>
Opening Remarks	LaKisha Price <i>Deputy Vice President, FAA ATO System Operations Services</i>
Space CDM Updates	Jeeja S. Vengal <i>Group Manager, FAA ATO Space Operations</i>
Industry Co-chair Welcome	Michael Lapidus <i>Director of Government Affairs, SpaceX Space CDM Co-chair</i>
AST/ATO Pre-flight Reporting Requirements Including high traffic volume considerations	Marcus Ward <i>Division Manager, Safety Assurance Division (ASA-300) Operational Safety Directorate, Commercial Space Transportation (AST)</i> Garrett Campanell <i>Supervisory Mission Lead, ATO Space Operations</i>
Near-term Airspace Integration Sub-team	Isaiah Wonnemberg <i>Commercial Space Federation Industry Sub-team Co-lead</i>



	<p>Matt Modderno <i>Higher Airspace Engineering Project Manager, Office of Next Gen FAA Sub-team Co-lead</i></p>
Data Exchange 1 Sub-team: Space Data Integrator (SDI)	<p>Amanda Matthews <i>Program Manager (A), FAA ATO Space Integration Program Office FAA Sub-team Co-lead</i></p> <p>Ron McKee (virtual) <i>United Launch Alliance Industry Sub-team Co-lead</i></p>
State of ATO Space Operations	<p>Jeeja S. Vengal <i>Group Manager, FAA ATO Space Operations</i></p>
Data Exchange 2 Sub-team: Mission Planning (SpORT)	<p>Garrett Campanell <i>Supervisory Mission Lead, ATO Space Operations</i></p> <p>Julia Black <i>Vice President of Advanced Programs, Space Florida Industry Sub-team Co-lead</i></p>
International Sub-team	<p>Greg Hébert <i>Global Air Traffic Management Advisor, ATO International Office FAA Sub-team Co-lead</i></p>
State of ATO Space Operations	<p>Jeeja S. Vengal <i>Group Manager, FAA ATO Space Operations</i></p>
Open Forum	<p>Michael Lapidus <i>Director of Government Affairs, SpaceX Space CDM Co-Chair</i></p>
Final Comments & Closeout	<p>Jeeja S. Vengal <i>Group Manager, FAA ATO Space Operations</i></p> <p>Michael Lapidus <i>Director of Government Affairs, SpaceX Space CDM Co-Chair</i></p> <p>LaKisha Price <i>Deputy Vice President, FAA ATO System Operations Services</i></p>



Next steps and actions:

Topic	Description	Status
International Sub-team Co-lead	The Executive Steering Committee (ESC) to choose a new industry co-lead for the international sub-team during the ESC meeting on May 15.	Completed
Sub-teams Tasks	Sub-teams to make specific revisions to their sub-team's task memo and roster. Deadline: May 14.	Completed
Joint Aviation EC and Space Operations ESC Meeting	Reschedule for July.	Completed
Harp Dates Discussion	HARP dates are reserved for high air traffic demand.	Completed
New Member Briefing	Schedule briefing on Space Data Integrator (SDI), Space Operations Portal (SpORT), and Space Collaborative Decision Making (CDM) for new members.	
Route Structure 101	ATO Space Operations Manager to provide briefing on route structure at the next SpOC meeting (August).	
Near-term Airspace Integration Sub-team	Industry to provide a response to a question raised during the meeting: What impact does any delay in technology have on your operations? Deadline: June 6, 2025.	
Data Exchange 1: SDI Sub-team And International Sub-team	Coordinate for Rocket Lab to present New Zealand's standard process for requesting NOTAMs, which has been accepted by the countries near them.	
Data Exchange 2: SpORT	<ul style="list-style-type: none"> Sub-team co-leads to determine if this suggestion from the SpOC fits in the sub-team scope: Add traffic forecast data sets to SpORT so unusually high traffic days can be avoided. SpaceX to work with ATO Space Operations on the possibility of adding historical weather trends to SpORT. Matt Moderno, Isaiah Wonnemberg, Ali Karamat, and Julia Black to connect to share format for automation. 	
New Joint Sub-team: Space Operations Weather Resources and Collaborative Information Sharing Opportunities	Establish a new sub-team, which will be a joint task between the Aviation CDM Weather Evaluation Team (WET) and Space CDM subject matter experts to explore forecast needs specific to LRO sites.	Sub-team Task Form in progress
Membership reminder	Please provide feedback, questions, concerns privately or with the group.	

Key themes: The key meeting themes included:

- After a pause in which SpOC did not meet in February as planned, this SpOC was a reset and opportunity for FAA, industry, and other stakeholders to connect again.



- Replacing FAA’s ageing infrastructure is top priority.
- Members have a strong interest in the space operations portal (SpORT) driving automation and inter-platform connectivity.
- Operators are interested in taking on additional workload to streamline work and gain efficiency.

Presentations

Pre-flight Reporting Requirements - presented by:

Marcus Ward

Division Manager, Safety Assurance Division, Operational Safety Directorate, Commercial Space Transportation (AST)

Garrett Campanell

Supervisory Mission Lead, ATO Space Operations

ATO Space Operations and Commercial Space Transportation (AST) partnered to provide a briefing on pre-flight reporting requirements. This briefing was in response to a request from the membership during SpOC X. The AST presentation discussed requirements for all licensed launches (federal or non-federal launch sites) per the Code of Federal Regulations, parts 417, 431, 435, 437, and 450. The ATO Space Operations presentation discussed the pre-mission planning phase, including the various notifications, validated safety products, and coordination that must take place within 10 days minimum. The goal of ATO Space Operations is to meet operators’ mission parameters, while minimizing impact to other NAS users. Early communication of intent to launch, and completion of the other deadlines on time, allows for early conversations that streamline the path to mission completion.

Sub-team Updates

Near-term Airspace Integration

The Near-term Airspace Integration sub-team reviewed the status of the 2019 Airspace Access Priorities Aviation Rulemaking Committee (AAP ARC) recommendations. They developed a tracking sheet of the major space integration activities related to the technologies referenced in these ARC recommendations. They also gathered feedback from industry which concluded that full integration is dependent on FAA tool modernization and automation. Having heard the Deputy VP of System Operations discuss FAA’s current budget shortfalls prior to their presentation, the sub-team brainstormed other possible activities to drive toward integration in the meantime, such as real-time data exchange optimization, data standardization, and pre-mission planning alignment. For the remainder of the calendar year, the sub-team will reengage with regular meetings focused on addressing these additional integration opportunities.

Data Exchange Sub-team 1—Space Data Integrator (SDI)

The SDI sub-team has largely met its original objectives. The sub-team established a repeatable process for onboarding launch and re-entry operators (LROs); five operators have been onboarded; and SDI has established a solid foundation for space data integration into FAA automation. In addition, several SDI enhancements have been implemented to improve ATO Space Operations situational awareness and timely responses to mission events. The sub-team will adjourn December 31, 2025.

Data Exchange Sub-team 2—Mission Planning: “SpORT”

SpORT is a web-based space operations mission planning tool prototype. It was created to identify and address solutions for improving data exchange for pre- and post-mission planning between the FAA and



various stakeholders, including launch and re-entry operators and aviation partners. SpORT was designed to address an ARC recommendation: “Establish an online portal so operators can input mission plan data and determine preliminary Special Activity Airspace (SAA)” (p.25). It is an operational tool, not related to licensing. Due to funding challenges, which have recently been overcome, SpORT is currently only available to ATO Space Operations. Next steps include upgrading and modernizing SpORT to:

- Reduce manual pre-coordination.
- Create standardized data flow for all LROs, increasing efficiency.
- Improve calendar for planning around significant/severe impact times.
- Allow for connectivity to other platforms such as PERTI continuous planner, to automate the transfer of current mission schedules and planned traffic management initiatives.
- Automate data exchange with AJR-G for post-mission analysis and metrics reporting.

The goal is to reduce duplicative communication with AST. In the future, SpORT may engage with AST’s License Electronic Application Portal (LEAP), but SpORT and LEAP will remain separate systems.

International Sub-team

The International sub-team has two new co-leads. Gregory Hébert, Global Air Traffic Management Advisor, ATO International Office, will serve as an interim FAA co-lead, and Phil Manougian of SpaceX will serve as the industry co-lead. The sub-team aims to streamline notice to airmen (NOTAM) coordination for space operations impacting foreign flight information regions (FIR). To achieve this goal, the sub-team will research and recommend best practices in preparing and disseminating space-related NOTAM requests and make suggestions for outreach to the Space CDM co-chairs and ATO Space Operations Manager. NOTAM coordination for aircraft hazard areas (AHA) typically requires a 7 to 10-day timeline for coordination with ANSPs familiar with U.S. space operations. Potential sub-team activities include cataloguing best practices for NOTAM coordination with foreign ANSPs.

POCs: Jeeja S. Vengal, Group Manager – ATO Space Operations (AJR-1800)

Geri Reinhart, Program Coordinator – ATO Space CDM (AJR-1800)

spoc@faa.gov



**FAA ATO Space Collaborative Decision Making Program (SpCDM)
Participant List
Space Operations Committee (SpOC) X
May 7, 2025**

Organization	Participant
A4A – Airlines for America	Jeff Rehaluk
Ascendant Spaceflight Services/Boeing	Lisa Loucks
Blue Origin	Maggie McNeece
CSF – Commercial Space Federation	Isaiah Wonnenberg
FAA – AST Commercial Space Transportation	Tyrone Conner
FAA – ATO – AJM Program Management Organization	Amanda Matthews (AJM-225) Space Integration Lisa Kemon (AJM-225) Space Integration (alt) Steven Neubauer (AJM-224) Space Integration
FAA – ATO – AJR Systems Operations Services	Jeeja S. Vengal (AJR-1800) Space Operations Geri Reinhart (AJR-1800) Space Operations Garrett Campanell (AJR-1800) Space Operations Ali Karamat (AJR-1800) Space Operations Allison Nicholls (AJR-0) System Operations Services Vern Payne (AJR-1300) CDM/International Operations Group (virtual) Louisa Ocasio (AJR-1300) CDM/International Operations Group (virtual)
FAA – ATO – AJT Air Traffic Services	Dale McNeal (AJT-3)
FAA – ATO – AJV Mission Support Services	Sean Bodkin (AJV-S) Strategy Farzad Davarya (AJV-S) Strategy (alt) Stephen Swiech (AJV-P) Policy Michael Wood (AJV-P) Policy (alt) Greg Hébert (AJV-I) International
FAA – ANG Office of NextGen	Matt Modderno (ANG) Office of NextGen
FAA – NATCA National Air Traffic Controllers Association	Paul Behan
Firefly Aerospace	TJ Binotto Cody Curabba (alt) Marcy Steinke (virtual)
IATA – International Air Transport Association	Mike Carver



NASA – National Aeronautics and Space Administration	Steve Chan Doyle W. Hensley (virtual)
NBAA – National Business Airlines Association	Heidi Williams (virtual) Dean Snell (alt)
Relativity Space	Joseph Bussenger (virtual) Joe White (alt) (virtual)
Rocket Lab	James Dreyer Aaron Kuipers (alt)
Sierra Space	Christopher Allison
Space Florida	Julia Black
SpaceX	Mike Lapidus (SpCDM co-chair) Phil Manougian (alt)
Stoke Space Technologies	Allie Crutchfield
ULA – United Launch Alliance	Clint Hunt Scott Messer (alt) Ron McKee (Virtual)
United States Space Force	Martha Wilkinson (alt)
Virgin Galactic	Kyle Slover (Virtual) Ron Fiala (Virtual) Sarah Li (Virtual)

