

Mission**Support**

NAT STO Workshop

January 13th, 2026

April 27, 2026 – NAT Vision Workshop



FAA
Air Traffic Organization

Table of Contents

- NAT STO Overview
 - Participants
 - Agenda
- Presentation Highlights
 - NAT IMG Chair
 - IAA
 - NAV Canada
 - NATS
- Industry Projections
- Challenges/Outcomes
- Update on FAA Regional STO Activities
- Next Steps

Overview

What: North Atlantic (NAT) Space Transport Operations (STO) Workshop

When: 13 January 2026

Where: Washington, D.C.

Who: NAT ANSP/CAA and FAA Representatives, Space Transport Operators and Industry Stakeholders

Why: [Workshop Objective] Foster mutual understanding between NAT stakeholders to better inform future planning and coordination in support of the safe, efficient, and effective integration of STO operations in the region's airspace by:

- Exchanging information for shared situational awareness
- Assess emerging needs
- Determining next steps for the safe, efficient and harmonized integration of STO in the NAT

NAT STO Workshop – Participants

Approximately 50 attendees

FAA - AJV-I, AJR, AST, AJT, AJI, AOV, API, AOC

NAT

Attendees 8 different Air Navigation Service

Providers (ANSP)/Civil Aviation Authorities (CAA)

- NAV Canada [ANSP]
- AVIANS ANS [Icelandic ANSP]
- Transport Canada
- Irish Aviation Authority [CAA]
- Trafikstyrelsen [Danish CAA]
- AirNav Ireland [ANSP]
- Autoridade Nacional de Aviação Civil (ANAC)
[Portuguese CAA]
- NATS U.K. [ANSP]

Industry

Attendees from 7

STO companies/organizations

- United Launch Alliance (ULA)
- SpaceX
- Blue Origin
- NordSpace
- Rocket Lab
- Commercial Space Federation
- Space Florida

NAT STO Workshop and STO Masterclass – Agenda

January 13th, 2026: NAT STO Workshop

- Regional Overview from NAT Representatives
 - Overview of NAT Region
 - EUR STO Activities
 - NAT STO Integration
- Industry Overviews on STO
- Facilitated Discussion: Operational Integration & Collaboration Needs for STO in the NAT

January 14th, 2026: Space Transport Operations Masterclass hosted by ATO Space Ops (AJR) and AST

*limited to NAT ANSPs/CAAs, not Industry

- Overview of STO & Metrics
- Real Time Monitoring (Space Data Integrator)
 - Simulated Mission Exercise
- Lifecycle of STO
- Air Traffic Management Overview
- Stakeholder Communication & Coordination
- Space Transport Operations Risk Criteria
- Future Capabilities
- Open Discussion/NAT Priorities

Presentation - Highlights

- **NAT IMG Chair**
 - NAT Region overview
 - NAT aviation safety and air navigation including the ICAO regional working structure
 - Strategic importance – NAT traffic flows and constraints (OTS and jet streams)
 - Separation standards including CNS for the region both current and future considerations
- **IAA**
 - ICAO NAT/EUR Regional overview – ongoing efforts
 - ICAO related Annexes (11)
 - Key airspace elements – time, hazard/risk (severity v probability), mitigation and promulgation
 - Example from past launch - ULA

Presentation – Highlights Cont.

- **NAV Canada**
 - STO roles and responsibilities – CAA v ANSP
 - OTS – operational overview and busiest time of day
 - Hazard area review
- **NATS**
 - Assessment of hazard area and traffic
 - Coordination w/CAA and DfT
 - Deconfliction/prioritization of other activities
 - Cross border coordination w/ANSPs and internal affected units
 - Airline customer coordination plans
 - Creation of hazard areas and buffers including system tests

Industry Operation Projections *tentative

- **Blue Origin – New Glenn**
 - 2025 – 2 launches
 - 2026 – 12+ launches
- **NordSpace**
 - 2026-2027 – 1-2 launches
 - 2028-2029 – 2-3 launches
- **ULA**
 - 2026 – 13 launches
 - 2027 – 11 launches
- **SpaceX**
 - 2025 – 3 launches
 - 2026 – 1 launch

***subject to change, shifts have already occurred**

NAT STO Workshop – Challenges/Outcomes

Priorities: NAT Regional Objective: to safely, efficiently, and effectively integrate operations into the NAT airspace

Challenges

- Short notice notification poses risks associated with:
 - Staff availability
 - ANSP/CAA risk assessments
- Streamlined Coordination/communication
 - NOTAM promulgation
 - OTS
- NM resourcing and ability to create airspace restrictions
 - Additional internal unit coordination/testing
- Customer communication/planning
- Differing risk frameworks

Outcomes

- Participants indicated this collaborative meeting was beneficial and necessary to understanding the different challenges and processes on both air traffic management and space operator sides and to continue carrying the momentum forward
- NAT stakeholders emphasized the need for having repeatable collaborative processes that would take into consideration the resources available to accommodate these STO efforts
- NAT attendees to take outputs (FAA processes, industry insights, etc.) from meeting and communicate back to ANSPs/CAAs/Network Manager, to ultimately establish a common approach and harmonized processes for the region

Update on Regional FAA STO Activities

- April 13-14, 2026 – ATO Space Operations Group and Systems Operations VP met with EUROCONTROL Director Network Management, Head of ATM NM Operations, Head of Airspace and Capacity, Head of New Entrant Integration and other team members.
 - Bilateral exchange of modernization efforts
 - FAA STO material – ATO Space Operations Group and Office of Commercial Space
 - Overview of NM functions and processes
 - EUROCONTROL Space Desk
- April 16, 2026 – FAA Representatives attended the NLCG meeting
 - Presented the FAA STO material, followed by question/answer session
- April 17, 2026 – Attended ECHO Open Day
 - DLR presentation on real time monitoring system
 - Demo of system
 - Tour of NM Area and overview presentation

Next Steps for Consideration and/or Discussion

FAA

- Process for sharing notional launch information
- Continue regional outreach and creation of education artifacts.
- Use technology (SpORT) where able to streamline processes and coordination, explore potential to interface with EUROCONTROL NM.

NAT

- Continue engagements for understanding of the airspace dependencies between the space and aviation industries.
- Identifying solutions to ensure the safe usage of the shared resource of international airspace.
 - Risk Frameworks
 - Planning/Resource allocation
 - Coordination/Communication Processes