

Migrating Space Traffic Coordination from the DoD to OSC

ASCEND
July 2024





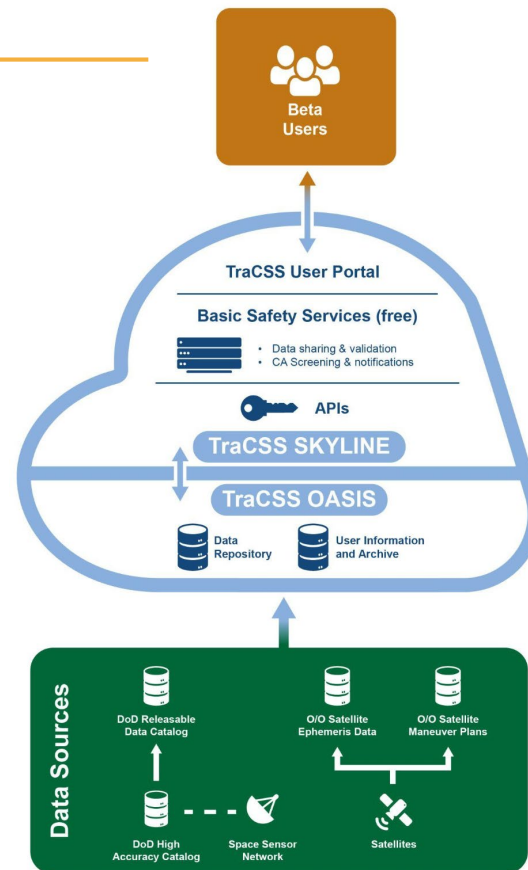
TraCSS Architecture Overview



- OSC is developing the Traffic Coordination System for Space (TraCSS) to provide basic space situational awareness (SSA) safety services to commercial and civil space operators for spaceflight safety, space sustainability, and international coordination.
- TraCSS will consist of the following:
 - TraCSS-OASIS: Data repository
 - TraCSS-SKYLINE: SSA application services
 - TraCSS-HORIZON: modeling, simulation, & research environment and development & test environment
- TraCSS is taking a Crawl, Walk, Run Approach to developing the system:
 - Phase 1.0 will be rolled out on 9/30/24
 - Subset of stakeholder involvement
 - Beta Users Only
 - Subset of planned data sources
 - Subset of planned SKYLINE capabilities
 - HORIZONS is in-work for later Phases



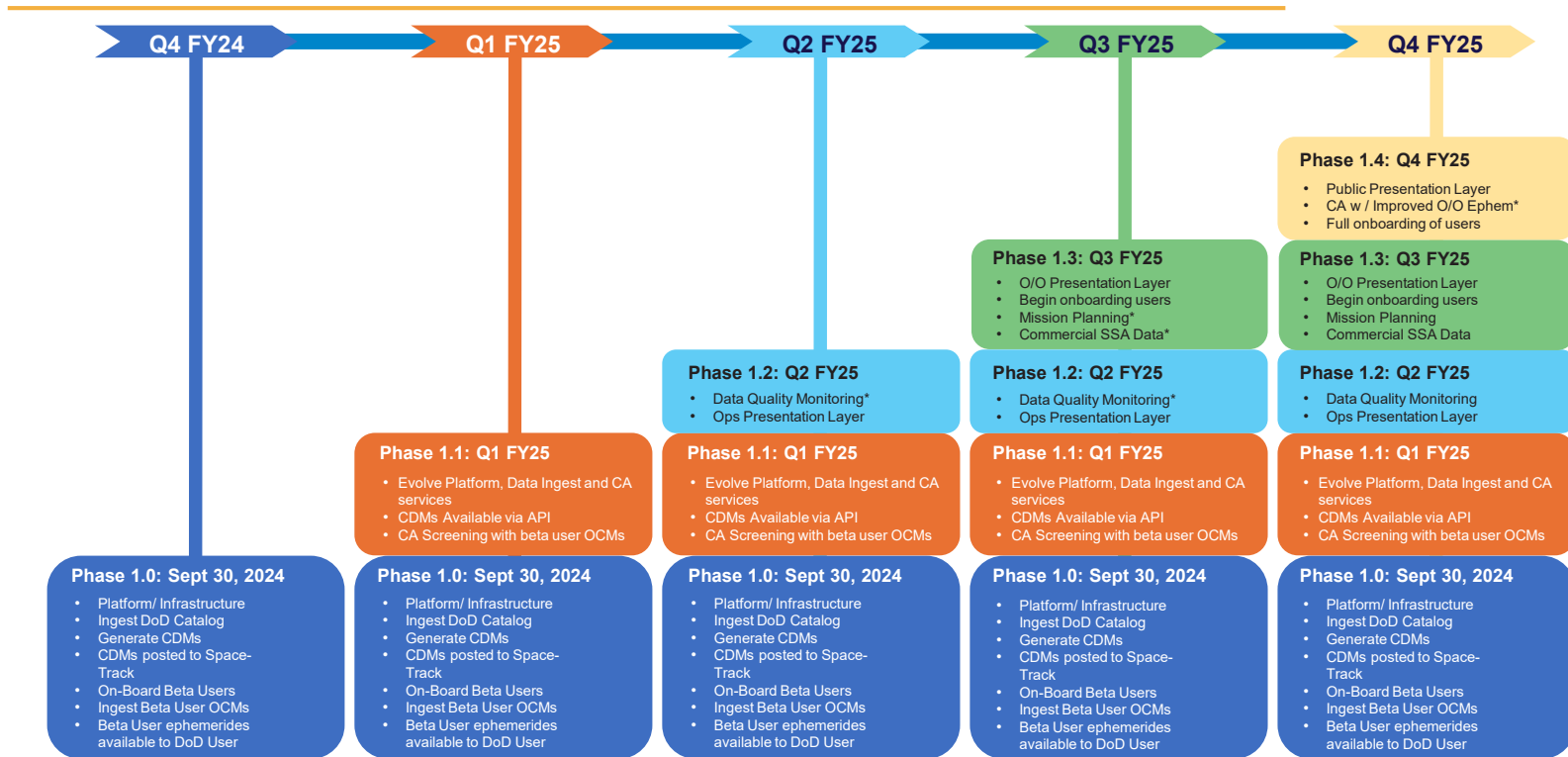
Phase 1.0 Architecture





Phase 1 Capability Roll-Out Plan - Overview

Phased Delivery of Commercial Functionality



*Initial Capability Available





DoD-DOC Collaboration



- Multiple technical, policy, and operations working groups meeting weekly; semi-annual in-person coordination workshop
 - Machine-to-machine data transfer
 - Data repository state management
 - Operations transition and coordination
 - SSA data sharing
 - Roles and responsibilities
 - Strategic communications
- Annex A (data transfer requirements) to DoD-DOC MOA signed
- Annex B (roles and responsibilities) in work





TraCSS CY 2024 Ongoing/Planned Efforts



- Recruit and collaborate with beta users for TraCSS Phase 1.0 initial capability
- Continue and expand strategic communications
- Build up technical and operations staff
- Manage development of TraCSS operational digital infrastructure
- **Standup Phase 1.0 initial capability with a beta set of users**
- Initiate dual operations period with DoD, staggered offloading of responsibilities, and migration of users to TraCSS
- Solidify research and development plan
- Award user interface infrastructure procurement
- Execute additional SSA pathfinder projects with industry
- Begin initial procurements of sustained commercial SSA services for TraCSS operational service
- Expand international partnerships and collaboration to execute on a “Vision for Global SSA Coordination”
- Plan for Phase 2 capabilities



Engage with OSC on TraCSS



TraCSS webpage

<https://www.space.commerce.gov/tracss>

News, videos, and information on engagements, including past and upcoming public listening sessions



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tracss.commerce@noaa.gov

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