



TRACSS

Traffic Coordination System for Space (TraCSS)

Office of Space Commerce
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce
May 2024



Office of Space Commerce



The Office of Space Commerce is the principal unit for space commerce policy activities within the Department of Commerce. Its mission is to foster the conditions for the economic growth and technological advancement of the U.S. commercial space industry.

- Commercial Remote Sensing Regulatory Affairs
- Policy, Advocacy, and International Affairs
- Space Operations (TraCSS)



Richard DalBello
Director

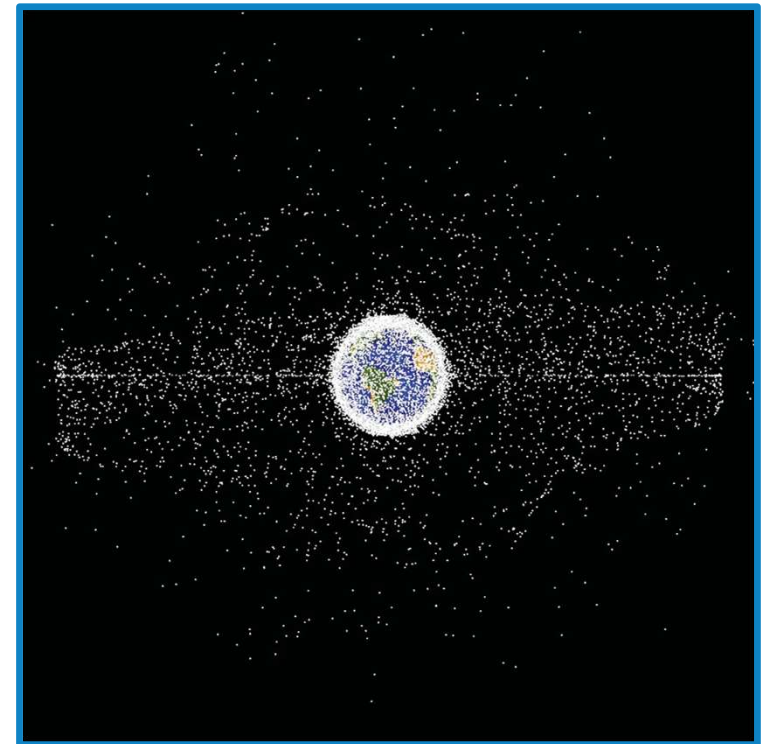


Janice Starzyk
Deputy Director

Space Situational Awareness (SSA) and the Office of Space Commerce



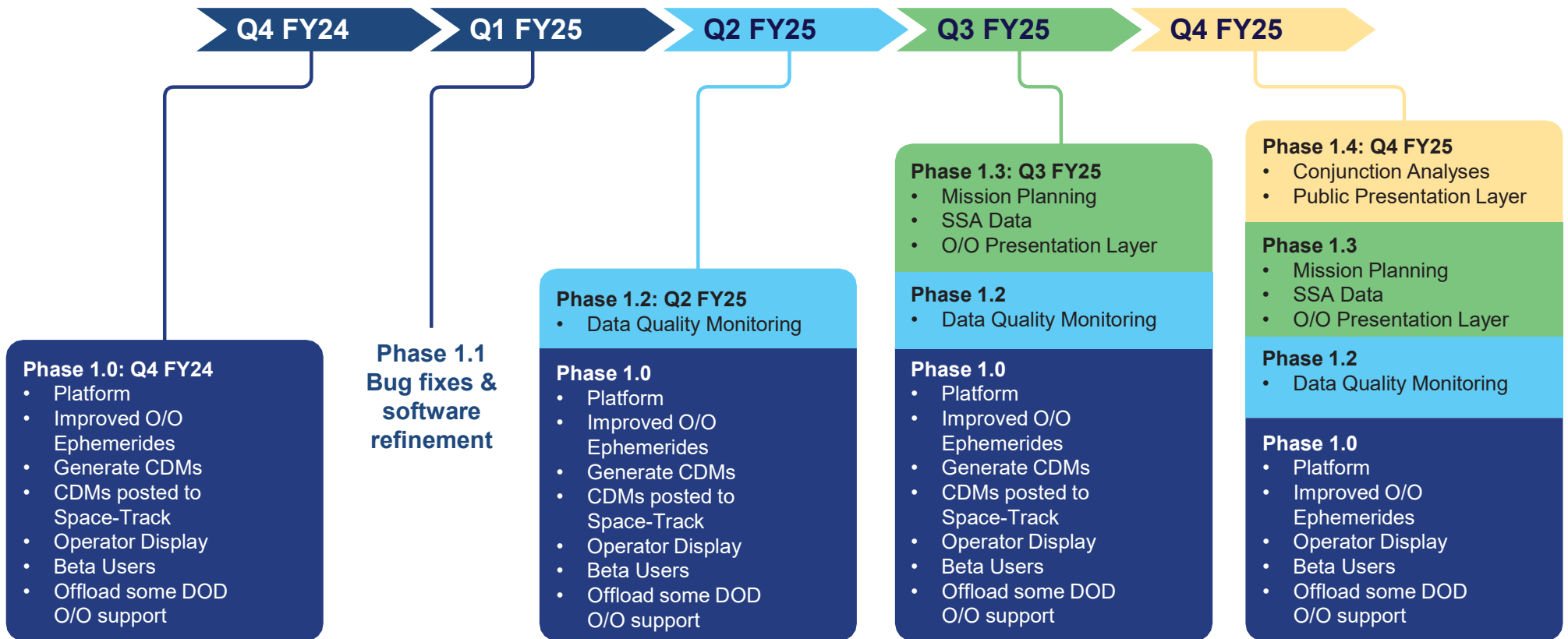
- Space Policy Directive-3 directs a transfer of responsibility from Department of Defense (DoD) to Department of Commerce (DOC) for providing basic SSA services to commercial and civil operators:
 - Recognizes the pressing need for more accurate and timely SSA data
 - Calls for greater international transparency and data sharing to enhance space safety
- OSC is developing an SSA capability – the **Traffic Coordination System for Space (TraCSS)** – that will blend government and commercial data to provide actionable SSA for civil and commercial space operators.



Credit: NASA ODPO

Phase 1 Capability Roll-Out Plan

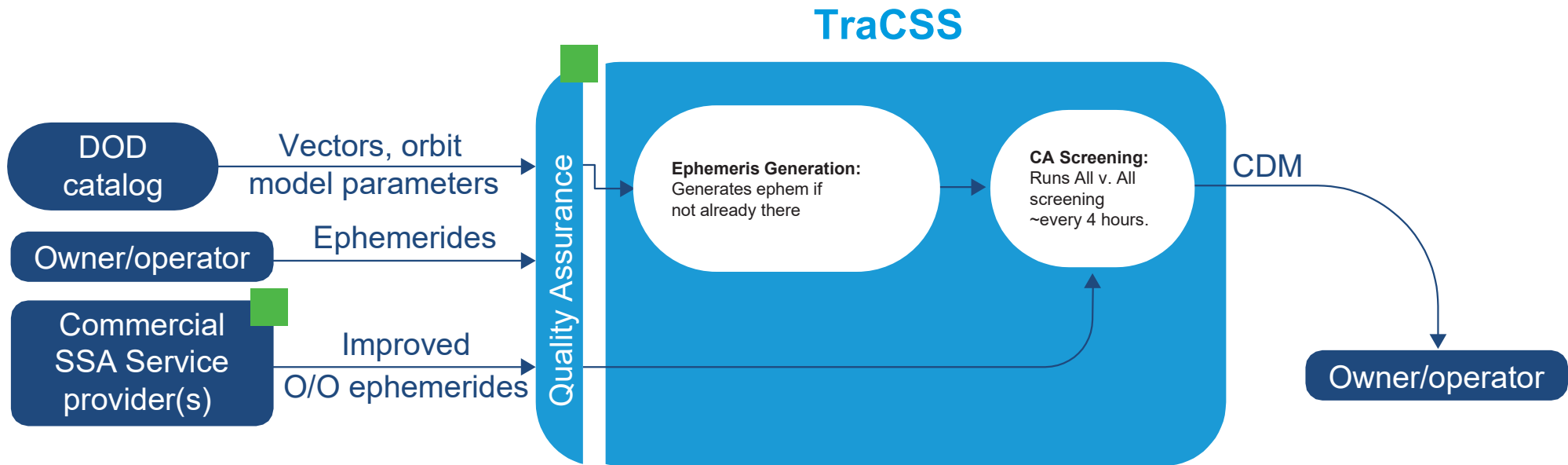
Phased delivery of commercial functionality



TraCSS SSA Phase 1.0 Initial Capability

A day in the life of a conjunction event

Commercial SSA provider



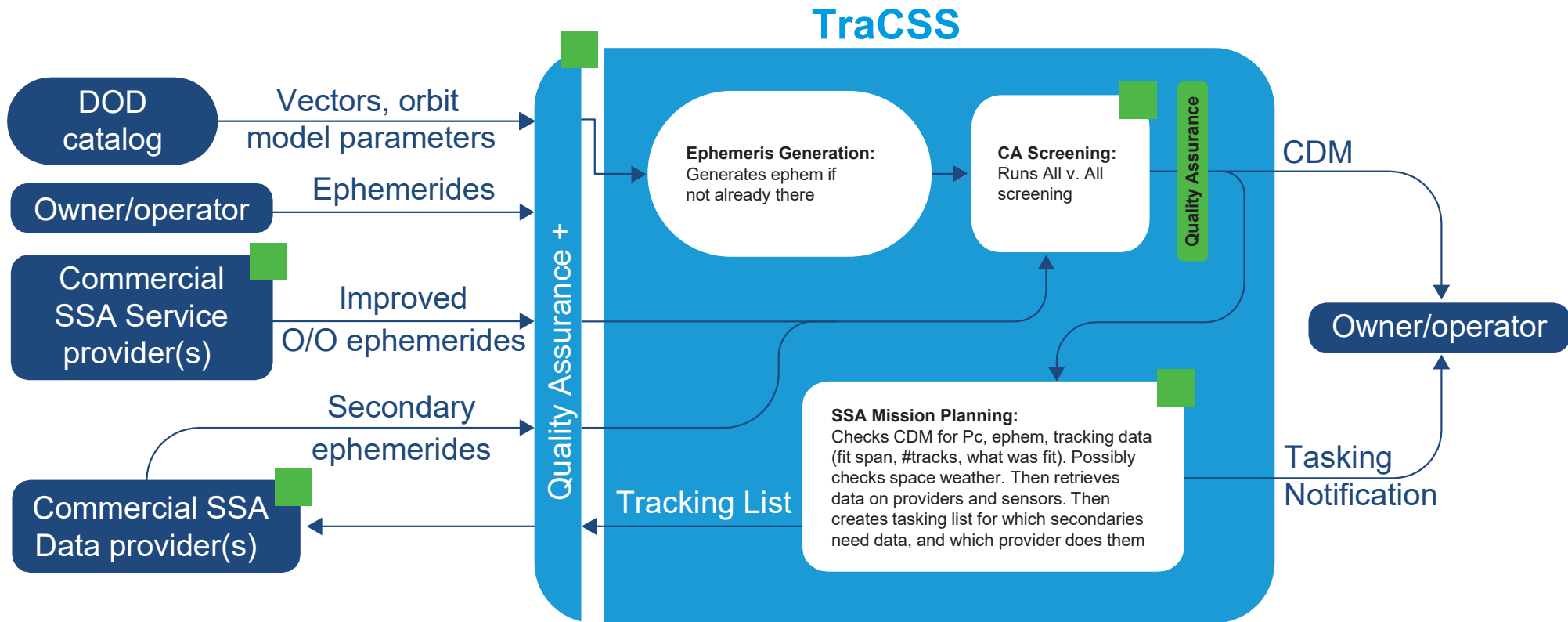
Enhanced Commercial Facing SSA/STC Features

- Increased Cadence to Conjunction Assessment (CA) Screening every 4 hours
- Investment in improved Quality Owner/Operator Ephemerides
- Maintain Space-Track.org interface to minimize disruption during start up

TraCSS SSA Phase 1.4

A day in the life of a conjunction event

■ Commercial SSA provider



Enhanced Commercial Facing SSA/STC Features

- Commercial CA screening service
- Public user interface for TraCSS

Global SSA Future Vision



We envision that in the future there will be a global coordinated system of SSA providers, with a series of national or regional hubs providing SSA information and services to spacecraft operators. These centers will be supported by networks of international and commercial partnerships.



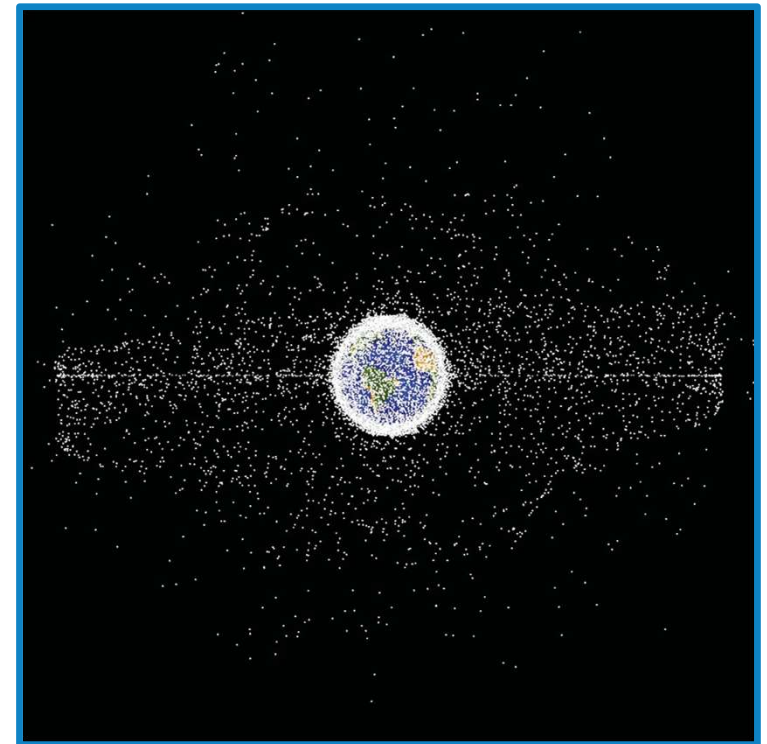
Government services will be augmented by a robust global commercial SSA sector that provides value-added services to support business intelligence and other advanced services.



To enable this vision, we are examining SSA data standards, transparency and best practices for SSA data and information sharing, and opportunities for international coordination that can best support global spaceflight safety and space sustainability.

Engagement: TraCSS Listening Sessions

- May 2024: TraCSS Listening Session: Space Data Standards and Formats – Orbit Comprehensive Message
- April 2024: TraCSS Listening Session: Space Data Standards and Formats – Conjunction Data Messages
- February 2024: Listening Session on DoD-DOC Space Traffic Coordination Ops Transition
- December 2023: Listening Session on TraCSS Data Standards and Formats
- July 2023: Video Update on TraCSS



Credit: NASA ODPO

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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Thank you!

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