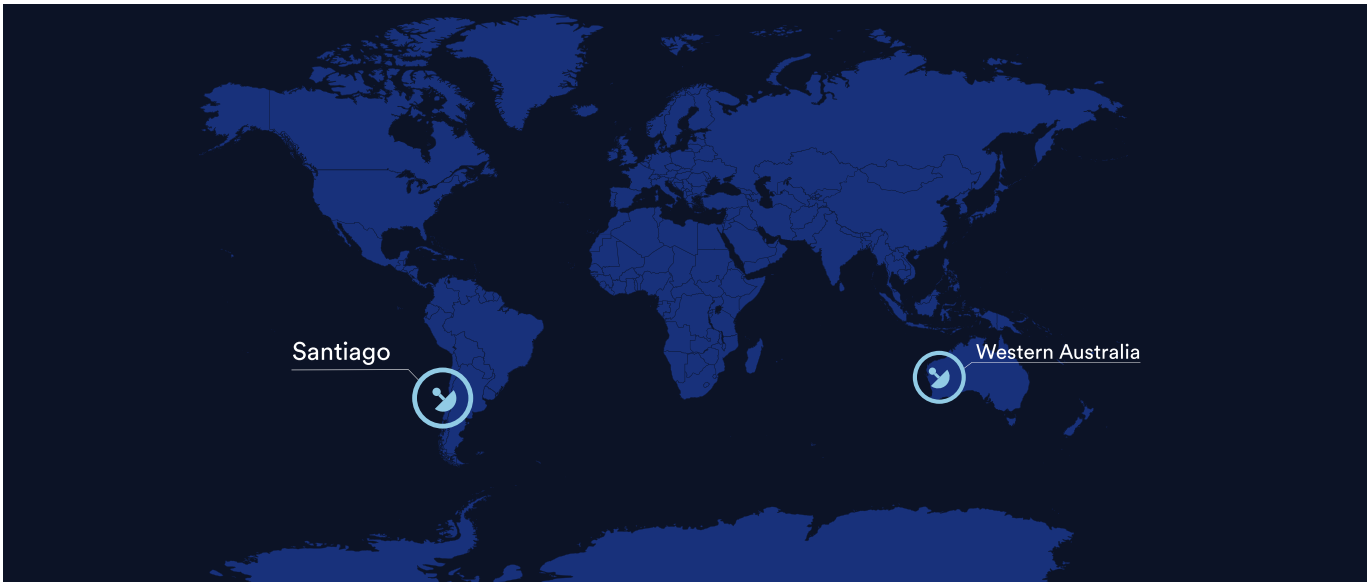
SSC Space



Optical Communication Services

SSC Space is enabling high-throughput, secure satellite data services based on space-to-ground laser communication. We welcome pilot users and test partners for the service demonstrations and early phase.

Global ground network

Two optical ground stations have been deployed at strategic sites in Australia and Chile for the initial service offering. The stations are situated at SSC Space's existing RF sites with low cloud cover, excellent terrestrial fiber connectivity and possibility of combined RF and optical support. Each station is capable of data rates up to 10 Gbps and will support both the CCSDS O3K and SDA OCT protocols, with the ability to accommodate future protocol upgrades. An optical ground station network expansion is expected over the next years.

Optical service concept

Data volume delivery subscription is available with flexible and automated scheduling of all available ground stations throughout the expanding network. You can select individual optical ground stations to book or let the network choose for you. An easy-to-use web portal and RestAPIs is available for booking the service, management and monitoring. Pass reports will be delivered for each conducted pass, and the data will be delivered to your Amazon Web Service bucket.

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Technical specifications

Station features	OGS1	OGS2
Bi-static design	80 cm aperture	50 cm aperture
Communications	TX+RX up to 10Gbps 1.5 µm band	TX+RX up to 10Gbps 1.5 µm band
Multi mission capability	CCSDS O3K SDA OCT	CCSDS O3K SDA OCT
Location	Western Australia	Santiago, Chile
Commissioning	CCSDS: Q1 2025 SDA: Q3 2026	CCSDS: Q4 2025 SDA: Q1 2026