

Glossary

Average Monthly Contractor's Payment

This is the average monthly subscription fee and other fees paid by each contractor.

Backhaul

Backhaul refers to a relay line or network of communication carriers that connects access lines at the end with the central core communications network (backbone line).

BCP (Business Continuity Plan)

A business continuity plan refers to a plan that companies and other organizations follow in the face of an emergency, such as a natural disaster, major fire, or terrorist attack, in order to minimize damage to business assets and enable the continuation or early recovery of core business operations. It sets out the activities to be carried out under normal circumstances as well as the methods and procedures for continuing business operations in an emergency.

BS (Broadcasting Satellite)

Broadcasting satellite is an artificial satellite in the geostationary orbit designed and built for broadcast services, providing BS broadcasts.

Beyond 5G/6G

Beyond 5G/6G refers to the next generation of wireless and wired networks after 5G to be developed by the 2030s. In 2020, Japan launched a study of this generation of networks beyond 5G, known as "Beyond 5G," under the leadership of the Ministry of Internal Affairs and Communications.

CS (Communications Satellite)

Communications satellite is an artificial satellite in the geostationary orbit designed and built mainly for communications services. In Japan, these satellites, like broadcasting satellites, have been in use for broadcast services since 1992. The Group uses communications satellites, JCSAT-3A (128 degrees east), JCSAT-4B (124 degrees east), and JCSAT-110A/JCSAT-110R (110 degrees east), for broadcast services.

CTV (Connected TV)

A television device linked to an internet connection via a streaming stick, game console, or other device.

DTH (Direct To Home)

"Direct to home" refers to direct distribution of programs to households via satellite.

FSS (Fixed Satellite Services)

Fixed satellite services is a term for satellite communications services that provide communications services mainly to fixed earth stations. On the other hand, satellite communications services that provide communications services mainly to mobile earth stations are called MSS (Mobile Satellite Services).

Flexible Payload

Flexible payload refers to a next-generation digital satellite communications technology that enables in-orbit reconfiguration, such as flexible setting of the irradiation area by changing the beam shape, power control and redistribution, and bandwidth variations using a digital channelizer. The Group plans to begin the operation of Asia's first satellite equipped with flexible payload technology in the first half of 2027.

FTTH (Fiber To The Home)

An access optical communications service that uses optical fiber as a transmission line to provide videos and Internet lines directly to homes.

Geostationary Earth Orbit (GEO)

Low Earth Orbit (LEO)

GEO is an orbital position of artificial satellites about 36,000 km above the equator. Since these satellites are synchronized with the Earth's rotation, artificial satellites in the GEO appear to be stationary when they are seen from the Earth. LEO is a low orbital position at an altitude of 1,000 km or less from the Earth's surface. Because satellites are constantly moving above the Earth compared to geostationary satellites, a satellite constellation consisting of multiple satellites must be built to provide continuous communications services.

HAPS (High Altitude Platform Station)

A high-altitude platform station refers to a drone (unmanned communications base station) that enables the deployment of ultralow latency, large-capacity communications platform services from the stratosphere 20 km above the ground. Winds are calm in the stratosphere throughout the year, making stable flight control possible. Research and development on the stratosphere are underway as a next-generation communications platform that allows for replacement and repair of equipment as well as relocation of service areas even after operations begin.

HTS (High Throughput Satellite)

An HTS refers to a communications satellite that allows for high-speed, large-capacity services. It can provide around 10 times the throughput of a standard conventional communications satellite by using different frequencies for adjacent spot beams and reusing the same frequency for nonadjacent spot beams.

Glossary

LIANA (Land-deformation and Infrastructure ANALysis)

A service for monitoring slopes on the ground and fluctuations in infrastructure by SAR image analysis.

NTN (Non-Terrestrial Network)

A network in which the communication area is not limited to the ground, but is extended to any location in the air, sea, or space via non-terrestrial solutions such as satellites or HAPS.

OTT (Over The Top)

OTT is a collective term for services that distribute large-volume content such as video over the Internet. Operators that provide video services directly to viewers by bypassing conventional communications infrastructure are called OTT service providers.

Quantum Cryptography Technology

Quantum cryptography technology applies quantum mechanics, a science that illustrates the movement and behavior of minuscule substances such as light grains (photons), the smallest unit of light. This technology splits the encryption key, which is key to deciphering ciphers, encodes the bits of the key on individual photons, and sends them. This data is separate from the information that is encrypted and exchanged. It is a next-generation cryptography communication technology that ensures secure data communication.

Right-handed circular polarization / Left-handed circular Polarization

Polarization refers to the direction in which a signal is oscillating. Right-handed circular polarization refers to a signal that oscillates in clockwise rotation, and left-handed circular polarization refers to a signal that oscillates in counterclockwise rotation. By separating the polarization into right and left, a single frequency can be used as if there were two.

SAC (Subscriber Acquisition Cost)

Subscriber acquisition cost is the cost to acquire new subscribers. It includes advertising costs, promotion and campaign costs, and the customer center operating costs.

SAR (Synthetic Aperture Radar)

This radar obtains information on the earth's surface by irradiating microwaves on the surface and analyzing the signals that are reflected back. As the radar can pass through clouds and volcanic smoke, it is possible to make observations both day and night.

Satellite constellation

A satellite constellation is to link together and integrally operate multiple small-size nongeostationary satellites launched into a medium or low earth orbit. By doing so, it is possible to offer a diverse range of services to all regions across the world. Various global satellite constellations are currently being planned.

Space-integrated computing network

Space integrated computing network refers to an independent, carbon-free, autonomous space communications network infrastructure, unaffected by disasters on Earth, which SKY Perfect JSAT Corporation and NTT are developing to realize a sustainable society. The network aims to build an ultralow power consumption, ultrahigh-speed communication, and highly secure network based on the three features of space sensing, space data center, and space RAN (Radio Access Network).

Space Intelligence

A term coined by the Company. It refers to a new initiative to connect spaces and utilize various data acquired and collected from the spaces for the use, analysis, and provision of intelligence that people want to see and access.

Space Debris

Space debris refers to unnecessary artificial objects orbiting the Earth's satellite orbit, such as artificial satellites that have stopped functioning after their service life or have become uncontrollable due to malfunctions, rocket components used for launches, fragments, and fine debris generated by collisions between debris. The space debris count has continued to rise every year as development and use of space enter into full swing, making remediation measures necessary. The Group is developing an approach that uses a laser to remotely irradiate space debris drifting in space and change its trajectory to enter the Earth's atmosphere.

Spatio-i

An information service that combines data obtained from satellites, such as optical and SAR images, location information, and other geospatial information, and AI analysis customized for each area.

Transponder

The term transponder combines the words "transmitter" and "responder." In satellite communications, it is a general term referring to communications equipment that amplifies, converts, and transmits radio waves (electrical signals) received from the ground.

Universal NTN

A non-terrestrial network service that meets all needs, covering a broad area and boasting high capacity, low latency, safety, high reliability, and low power consumption.

Uplink/Downlink

An uplink refers to a transmission from ground stations to communications satellites, and a downlink refers to a transmission from communications satellites to ground stations.