

Fact Sheet: GovSat-1

GovSat-1: New Concept in Secure Communications for Governments and Institutions



Photo credit: Orbital ATK

defence and institutional applications within its operations over the Atlantic and Indian oceans.

Designed exclusively for the government and defence community, GovSat-1 is the first satellite of GovSat, which is a joint venture between the Government of Luxembourg and the world-leading satellite operator SES.

Positioned at 21.5 degrees East, this satellite will be ideally located to support communications within Europe, the Middle East and Africa, and to provide highly reliable and flexible interconnectivity for

Multi-mission Satellite

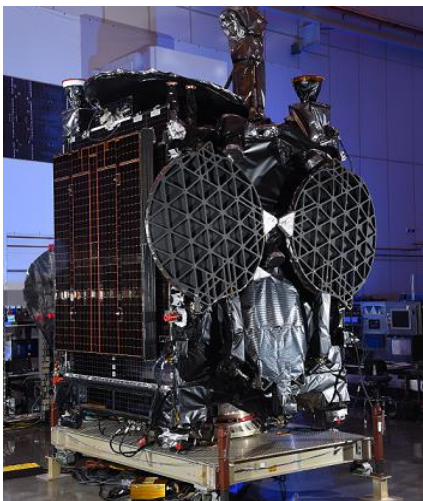


Photo credit: Orbital ATK

GovSat-1 was designed for dual use to support both defence and civil security applications, including mobile and fixed communications. It is a multi-mission satellite that offers X-band and Military Ka-band capacity. The spacecraft will provide up to six high-powered and fully steerable spot beams, as well as an advanced Global X-band beam.

The X-band frequency is reserved for governments and institutions, and is an ideal mean to establish secure and robust satellite communication links, for example between theaters of tactical operations, maritime missions or over areas affected by a humanitarian crisis.

The Military Ka-band will be used predominantly for mobility applications in support of Intelligence Surveillance and Reconnaissance (ISR) missions. The secure communication links it enables are characterised by smaller high-throughput VSAT terminals. The Mediterranean Sea is one particular area covered by a high-power beam in military Ka-band. It is therefore ideally suited to enable communications for European Border Surveillance applications.

Equipped with anti-jamming features, encrypted telemetry and control, and frequencies reserved for governmental use, GovSat-1 will also provide enhanced resilience capabilities for more reliable connectivity.

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First of its Kind

This is the first time that such an extensive, security enhanced satellite communications offering has been enabled through a joint public-private venture. The collaboration, combining the necessary level of involvement of the Luxembourg Government with the significant industry expertise from SES has generated extraordinary synergy in the satellite communications industry.

Satellite manufacturing and launch

GovSat-1 was built by Orbital ATK, and designed to operate for 15 years in geostationary orbit. The spacecraft has a launch mass of 4,230 kg. GovSat-1 has a diverse mix of transponder sizes in terms of bandwidth per transponder, offering in total 68 transponder-equivalent units of 36 MHz.

GovSat-1 is scheduled for launch at the end of this month on board SpaceX's flight-proven Falcon 9 rocket from Cape Canaveral Air Force Station, Florida

Key facts

| Coverage | Capacity | Services | Features |
|--|--|---|--|
| Europe Africa Middle East Atlantic Ocean Indian Ocean | X-band global beam + multiple mission beams Military Ka-band anchor beam + multiple mission beams Six high-powered fully steerable spot beams | Institutional security applications: <ul style="list-style-type: none"> - Civil-military inter-agency collaboration - Emergency response - Disaster recovery - Protection of natural resources - Remote government offices Defence applications: <ul style="list-style-type: none"> - Strategic and tactical networks - Communication on the move - Communication on the pause - Maritime operations - Aero/ISR | Orbital position: 21.5 degrees East Launch mass: 4,230 kg Designed lifetime: 15 years Anti-jamming Encrypted telemetry and control Enhanced resilience capabilities |

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