GOVSATCOM SERVICES

Bringing to market secure, innovative and guaranteed satellite communications for governments and institutions

SES▲ | Networks

Within the framework of our GovSatCom Precursor contract with the European Space Agency's (ESA) Pacis-1 project*, SES Networks aims to deliver a range of new government services to offer secure, rugged and guaranteed communications to governments and institutions. To demonstrate these capabilities, SES Networks proposes a focused GovSatCom business demonstrator based on existing commercial and governmental satellite capabilities. We are working with selected partners to provide new and innovative service options, and high levels of security and resilience.

The SES Networks GovSatCom demonstrator will provide governments and institutions with secure services over different satellites and across several frequency bands. GovSatCom offers users guaranteed access, so they can quickly start communicating whenever and wherever they want on their own compatible device. For the first time, the experience of satellite communications will align with the experience of using a mobile phone.

How GovSatCom works

To bring the GovSatCom services into use, SES Networks is building a dedicated Government Mission Operations Centre (GMOC) in Redu, Belgium, for mission control, operations and services. Together with our PACIS-1 partners, we are developing terminal elements that enable the provision of secure services to each user community.

The GMOC will support the pooling of space and ground segments from different operators in different frequency bands, and with different VSAT platform technologies. Resources will include satellites from multiple providers, offering different coverage areas, frequency bands and bandwidths. Initial demonstrations will be in the C, X, Ku and Military Ka frequency bands.

Registered users are provided with satellite capacity and data rate/bandwidth depending on the service requirements and priority of the mission, as well as their location. Dynamic resource allocations and network management ensure the ability to change these allocations in real time.

Pacis-1 is a new satellite communication platform that aims to make secure satellite communications accessible and available to governments and institutions.

Part of the ESA's GovSatCom Precursor programme, Pacis-1 is the first step in demonstrating how the European space industry can support the EU's GovSatCom initiative. The platform leverages governmental and commercial satellite services to provide secure access to satellite communications for a wide range of governmental applications in civil protection, border control, humanitarian missions, maritime surveillance, and more.

Under the Pacis-1 public-private partnership agreement, an SES-led consortium will put in place the architecture and service concept for the platform, leveraging the space assets and ground infrastructure of the project partners: Redu Space ServiCes, GovSat, Newtec, QinetiQ and Tekever.

GovSatCom's end-to-end security uses state-of-the-art servers, enabling local responder groups to communicate securely with anyone, anywhere, at any time. We assure security for both the physical location, and at the system level.

Relying on existing and upcoming assets, the space segment is sourced from European operators and managed by the GMOC. Assets for technology and capacity are selected to address the full spectrum of users – from security forces to humanitarian agencies and NGOs.

Based on existing and new assets deployed at the ESA station in Redu, the ground segment is supplemented by other European teleports, including SES's headquarters in Luxembourg. Redu is already a key site for the provision of satellite services to the European Union. For example, Galileo and the European Geostationary Navigation Overlay Service (EGNOS) have their technical operations in Redu. It also hosts telemetry, tracking and command (TT&C) backup facilities for SES, and key ground infrastructure for the European Data Relay System (EDRS).

Automated and/or semi-automated anti-jamming and response-to-stress systems ensure that users are unaffected by deliberate and non-deliberate interference.

The GovSatCom EU programme provides services specifically designed to support governments and institutions through the problems they are facing today:
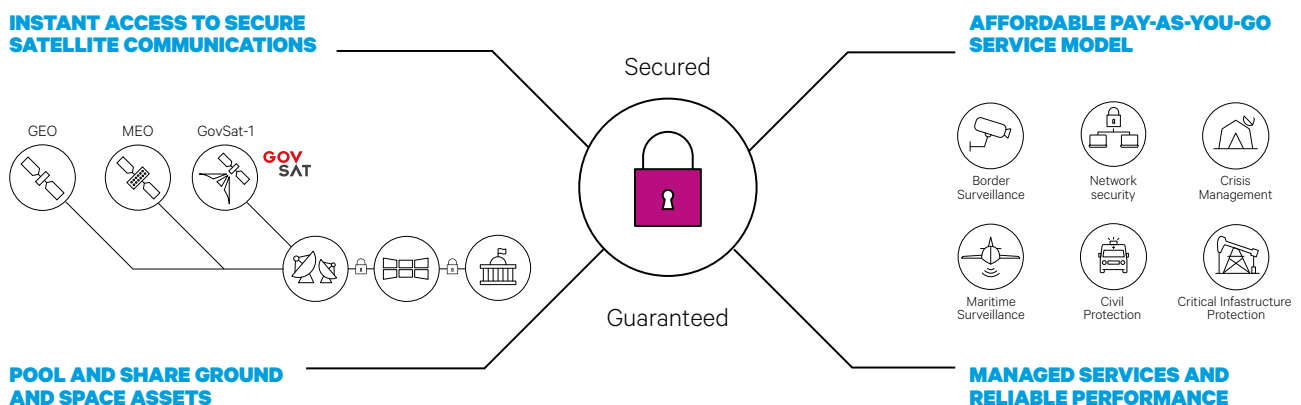
- Migration monitoring and border surveillance
- Crisis management and disaster response
- Terrorist attack response and crisis management
- Securing demonstrations and public events
- Police and civil protection missions
- Protection of critical infrastructure

Interested in being part of the GovSatCom journey?

SES Networks will demonstrate and validate the GovSatCom business solution with the participation of a wide range of users starting in mid 2019. If you are interested in joining the validation phase, please contact us for more details.

Next-generation GovSatCom solutions

INSTANT ACCESS TO SECURE SATELLITE COMMUNICATIONS

GEO   MEO   GovSat-1   GOV SAT

Secured

Guaranteed

POOL AND SHARE GROUND AND SPACE ASSETS

AFFORDABLE PAY-AS-YOU-GO SERVICE MODEL

Border Surveillance   Network security   Crisis Management

Maritime Surveillance   Civil Protection   Critical Infrastructure Protection

MANAGED SERVICES AND RELIABLE PERFORMANCE

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