CGI Space Germany
Unified Communication Service Manager

CGI

Book your Satellite Communication Services as easy as a Hotel Room.

The market for Satellite Communication (SatCom) capabilities is currently a highly fragmented landscape. A large quantity of providers offer a broad range of services and products. And this quantity of providers is growing fast. Even though this makes a broad range of SatCom services available, this poses great challenges to potential users. It is very difficult to gain a comprehensive overview of all available options and to select the best possible solutions or services that meet the given user requirements in the best possible way.

The European Union Governmental Satellite Communications (GOVSATCOM) programme aims at providing secure and cost-efficient communications capabilities to security and safety critical missions and operations managed by the European Union and its Member States, including national security actors and EU Agencies and institutions.

As part of the GOVSATCOM programme, CGI has developed the Unified Communication Services Manager (UCSM). It is an easy-to-use internet booking platform that brings together both, suppliers and users of SatCom products and services. Users can easily get access to communication options, perfectly fitted to their individual requirements and Providers can make use of the UCSM as a unified booking platform. Based on industry-standard interfaces (PSI) the system can even interact with other pooling and sharing solutions.

UCSM is a Digital Marketplace and a B2B2X Platform

Providers bring their offers into the system via standardized interfaces than can be connected to existing OSS/BSS solutions.
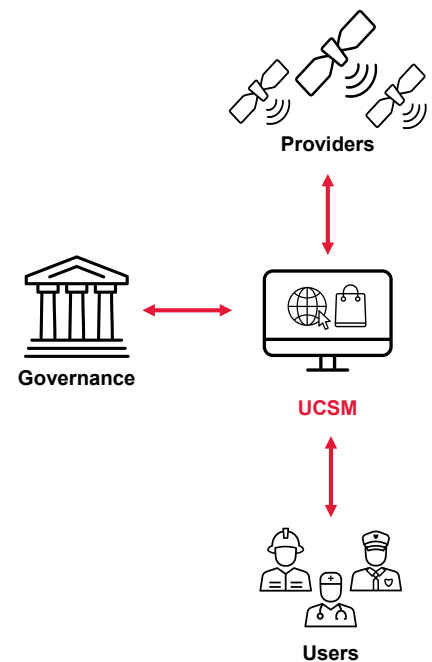
The solution allows to specify resources, products, bundles and their requirements and interdependencies in a standardized way.

Users specify missions, define existing equipment, communication-on-the-move, security requirements and find matching offers. They can book the offers and manage their bookings in this one-stop-shop.

A governance authority can define and monitor resource pools, accreditation policies and rule sets.

The UCSM is a digital marketplace and a B2B2X Platform

The easy-to-use internet booking platform brings together both, suppliers and users of SatCom products and services. Regulatory authorities can also be included.

The Scenario-Centric Approach

The basic approach of the UCSM to ease access to SatCom products is based on so-called scenarios that come with specifically tailored and optimized technical solutions and products.

Users have the flexibility to define and modify their own scenario or to rely on pre-defined scenarios for common events, missions or situations provided by the UCSM. Pre-defined scenarios can created by communication specialists, domain experts or governmental organizations.
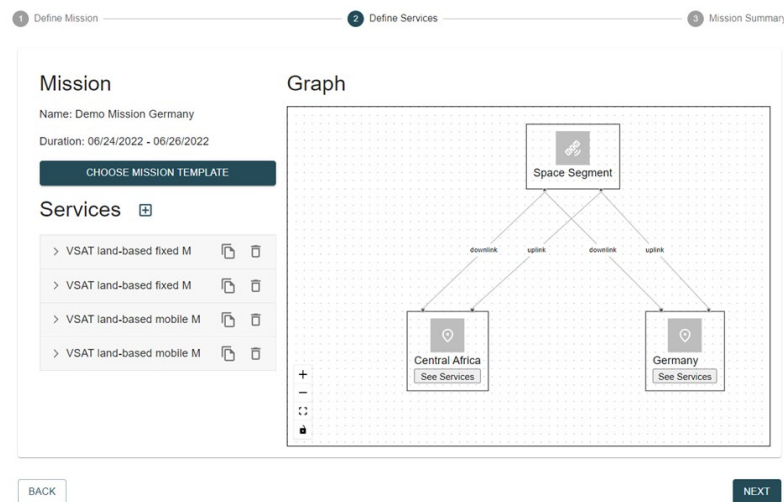
A typical scenario includes requirements in the following domains:

- Region and area of application
- Communication channels and services
- Demanded data rates
- Number and type of required users and terminals
- Security and availability.

These information can be static, but also change over time or even in the course of an event or scenario.

From Service Options to the Shopping Cart

Based on the specific requirements of a scenario, different communication services can be selected with individual parameterization – with a few clicks.

The Mission editor combines nodes with available services

This individually completed scenario specification contains a description of each service option with its respective parameters. It will then be used for the matchmaking between the users requirements and to create a cross-supplier offering of available SatCom services and products. The UCSM determines which providers offer suitable service options for all requirements of the scenario and combines the to an optimal package for the user. Finally, this package as well as other options can be booked directly by the user. Almost as simple as the booking of a hotel room.

"Users have the flexibility to define and modify their own scenario or to rely on pre-defined scenarios."

UCSM at a glance

- UCSM is a One-Stop-Shop for SatCom services and makes it very easy for users to find the best service options.

- For providers, it allows a fast time-to-market by connecting it to existing OSS/BSS solutions and/or make use of its standardized interfaces.

- Built-in European-standardized Pooling & Sharing Interface (PSI) definitions.

- UCSM can be scaled from a single-provider sales front-end over a multi-provider B2B2X platform up to a pooling & sharing hub solution with central governance.

- It has excellent maintainability & scalability due to its cloud-native architecture.

- It allows multi-site deployment for redundancy, high availability and data security.

About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally. For more information

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