

## **Comprehensive Network Management System (NMS) for Industry Leading Multiservice and Multi-Waveform ASAT™ Platform**

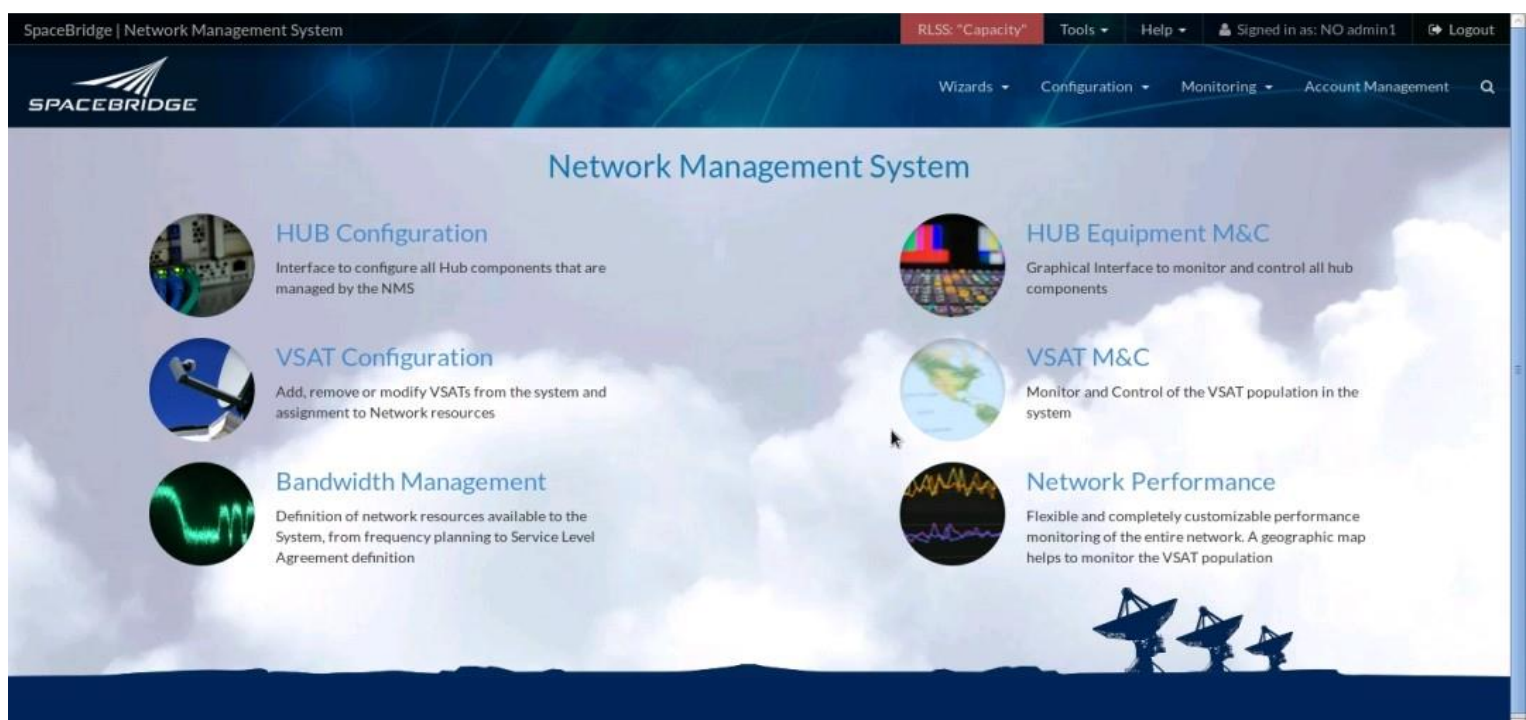
The SpaceBridge Network Management System (NMS) provides a complete and secure network management solution to configure, control and monitor all active gateway devices and terminals in a consistent manner. The NMS allows operators to concentrate on high-level organization instead of dealing with details to configure VSATs access to a satellite network.

Maximal operational efficiency and service delivery assurance are addressed through a single user interface to be a competitive advantage over the other management tools.

The ASAT™ Platform is equipped with a comprehensive NMS, granting to the service provider with a key enabler for customer loyalty and revenue generation.

### **Features and Benefits**

- Unified user-friendly web based graphical interface
- High-efficient redundant reliability
- Multifunctional performance trending
- Simplicity of scalability
- Secure single or concurrent access
- Multi type VSAT management (DVB-RCS, SCPC, Mesh, A-SAT)
- Flexible VNO model
- Accounting tool
- NBI and API protocols support



## Monitor and Control Functions

- Simple and clean Graphical User Interface (GUI) with map views of Gateway sub-systems.
- Easy understandable block diagram format.
- Monitoring and graphing of important SIT parameters (FL and RL Es/No).
- Fast extraction and graphical visualization of historical data for the important equipment objects.
- Display and storage of equipment and system Alarms and Events in database.
- Display alarm notifications of various levels can raise emails.
- Standard SNMP protocol for communication of the M&C with the monitored equipment.

## Network Management Functions

- Management of the Return Link (RLS), Forward link (FLS), the IP sub-systems (IPS) and of the remote population.
- Management of the terminal groups and their use of bandwidth and SLA/QoS, on the forward and return links.
- Creation of custom forward and return link SIT-Level SLA/QoS profiles.
- Creation of groupings of SITs and association to QoS profiles and SLAs, both on the forward and return links.
- Capability of sending configuration commands to the defined devices.
- Convenient filtering and sorting capabilities.
- Configuration of the frequency plan within frequency bands, and their graphical representation.

## Analysis Capabilities

- Access to general Hub and Terminal performance statistics for analyzing hub and terminal link performance over time.
- Customizable widgets for user analytics.
- Geographic mapping of all VSAT population and their condition.

## Reporting/Accounting Automatization

- Simplified extraction of terminal accounting information directly from the SpaceBridge QoS shaper module of the system.
- Advanced tools and mechanisms for elaboration of connection usage reports.
- Can be used for billing purposes by an internal or external billing system.

## VNO Support

- SpaceBridge flexible Virtual Network Operator (VNO) allows a Network Administrator to provide multiple profile definition in order to permit each customer to manage their own SLA and resources. A physical hub can be shared among multiple clients without the need of each of them having to purchase a complete and functional hub.

## OSS/BSS Integration

- Simple and fast integration with external Network Management systems or billing servers by means of Northbound interface and API. Support of system status, accounting and basic configurations.