SPACEBRIDGE
ALL THINGS CONNECTED

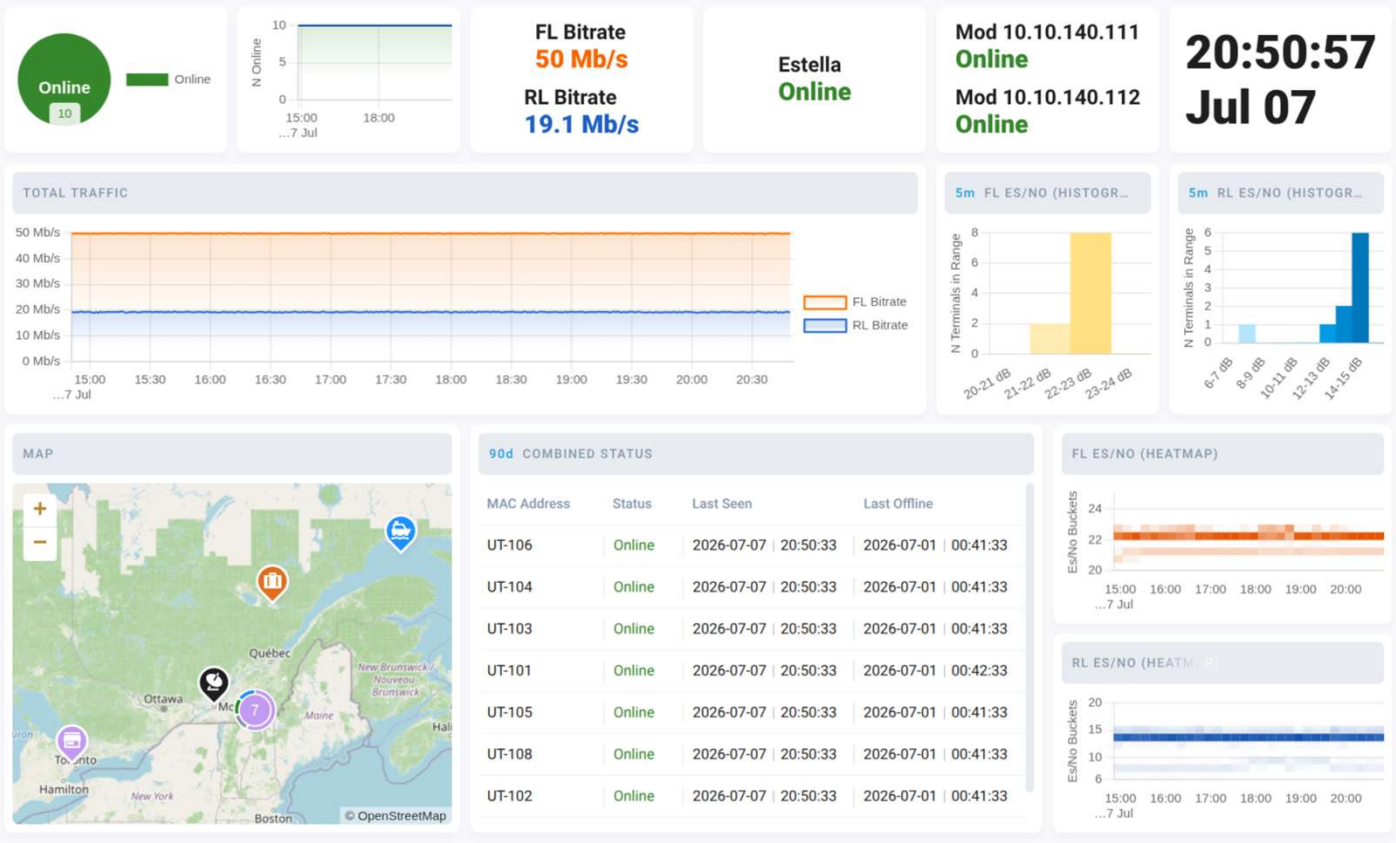
ESTELLA/UniHUB NMS NG

Your entire satellite network monitored controlled and configured from your browser

SpaceBridge NMS NG is the next-generation, web-based Network Management System for satellite networks. From a desktop, tablet, or phone, on any operating system operators monitor Hub equipment, ESTELLA-Core and user terminals in real time, act on alarms and events, generate traffic reports, and configure the entire network end to end.

One platform to intuitively monitor, control and configure your network

SpaceBridge NMS NG is the next-generation, web-based Network Management System for carrier-grade satellite networks. Monitor, control and configure multiple Hubs, ESTELLA-Core systems and thousands of user terminals from a single browser. Real-time telemetry, intelligent alarms and carrier-grade redundancy provide complete operational visibility across the entire network.



DS-NMSNG-20260417 R02

SPACEBRIDGE
ALL THINGS CONNECTED

ESTELLA/UniHUB NMS NG

Your entire satellite network monitored controlled and configured from your browser

See Everything, in Real Time

See your entire network on one screen

SpaceBridge NMS NG continuously collects, correlates and analyzes real-time telemetry from Hub equipment, ESTELLA-Core and every user terminal, transforming operational data into configurable dashboards, proactive alarms and exportable reports that help operators detect faults immediately, optimize network performance and verify SLA compliance using measurable KPIs.

Features and Benefits

Real-Time Dashboards

Configurable dashboards

Build exactly the view your team needs with drag-and-drop widgets or start from a ready-made overview. Every panel updates live.

- **Geographic topology with weather overlay** SpaceBridge U.S. Patent No. 11,032,791 weathercasting
- **Live KPIs and trend analysis:** Sessions, congestion; FL/RL: MODCODs, Es/No, bit rate, symbol rate, roll-off, Tx power (modem/BUC), number of packets, traffic usage and more
- **Export to CSV, Excel, PDF and JSON** to process using external tools
- **AI-ready analytics**
- **Pre-built templates and layouts** for Network, Terminal, Equipment and Redundancy overviews
- **Easy to configure** dashboards using wizards and templates
- **Multiple chart types** (line, bar, pie, heatmap, table, text, etc.) for easy scanning
- **Latest-alarm and latest-event** widgets for instant awareness
- **Time filtering over any window** lets you see historical data
- **Save, share, load and restore layouts, all encrypted** – don't worry about messing it up
- **Responsive, browser-based interface** with customizable operator workspaces, multi-monitor support, and automatic adaptation to desktops, tablets, and mobile devices.

Reporting and Analytics

A guided wizard turns usage data into shareable reports in four steps — choose a type, a time range and a target, then preview live data before you export.

- **Traffic-usage reports** per terminal or terminal group – billing, capacity planning or monitoring
- **Availability report** per terminal or terminal group – SLA compliance reporting, outage tracking
- **Signal Quality report** – link budget reporting and verification, rain fade and interference impact, antenna alignment
- **Combined performance report** – monthly terminal health card KPIs for customer-facing reports
- **Adjustable granularity** lets you choose the report as detailed as you need
- **Time zone aware ranges** – choose any range in the past (subject to data retention policy and available NAS size)
- **Live preview** so you can see what you get before exporting
- **One-click CSV export**, PDF and EXCEL files also available

spacebridge.com | info@spacebridge.com | +1 514 420-0045 |

DS-NMSNG-20260417 R02

SPACEBRIDGE
ALL THINGS CONNECTED

ESTELLA/UniHUB NMS NG

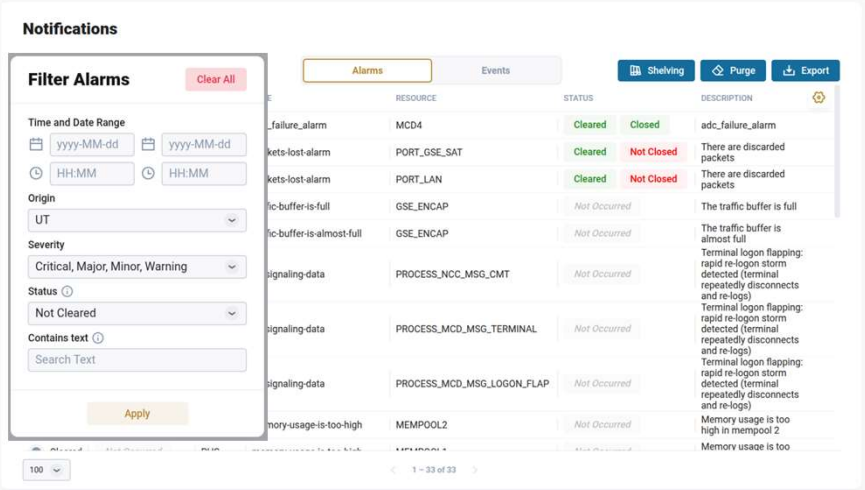
Your entire satellite network monitored controlled and configured from your browser

Stay in Control

Detect, diagnose and resolve issues from a single browser

SpaceBridge NMS NG pairs a live fault-management view with one-click remote operations, so an operator can detect, diagnose and resolve issues across the whole network without any help.

- Alarm acknowledgement, shelving and escalation, correlation and searchable history
- Secure remote terminal control
- Bulk software upgrades
- Configuration rollback
- Remote diagnostics
- Complete audit trail and RBAC

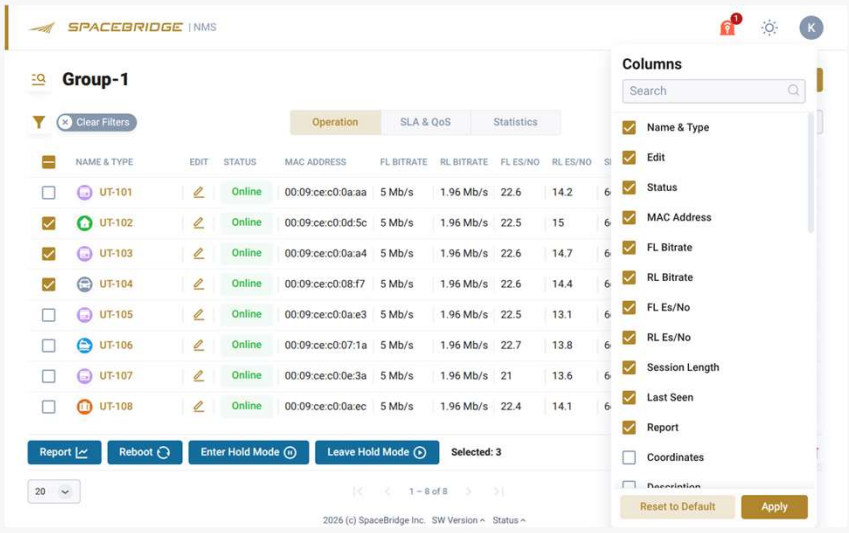


Features and Benefits

Remote Terminal Control

Drive terminals straight from the UI, individually or in bulk, with clear status and error feedback for every command

- **Configure terminal view** for your preference: show or hide relevant/irrelevant metrics
- **Separate terminal dashboard** provides in-depth view of the terminal status
- **Reboot** a terminal remotely, **enter hold** mode
- **Edit configuration** on-the-fly
- **Generate an on-demand terminal or group of UT report**
- **Bulk actions:** configuration, control and update across group of terminals at once



Alarms and Events

Every alarm and event surfaces the moment it's raised, with the context to act fast and the history to review and audit later.

- **Severity at a glance, 5 Levels, 5 colors:** 1.Critical (Red), 2.Major (Tan), 3.Minor (Yellow), 4.Warnig (Grey), 5.Informational (Turquoise)
- **Filter and sort** by severity, origin, type and time
- **Alarm detail** with origin(equipment, terminal or network),type and affected resource
- **Shelve alarms** for a set duration to cut noise during maintenance
- **Persistent, timestamped alarm history** (when raised, when cleared, when acted upon)
- **Searchable event log** with real-time updates
- **One-click CSV (Comma-Separated Values) or PDF export** of history alarms and events

spacebridge.com | info@spacebridge.com | +1 514 420-0045 |

SPACEBRIDGE
ALL THINGS CONNECTED

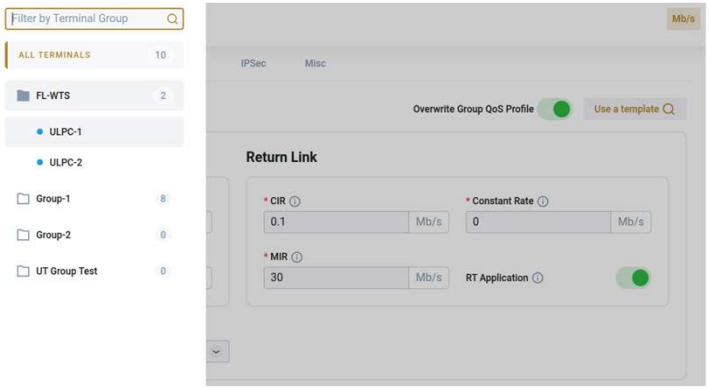
ESTELLA/UniHUB NMS NG

Your entire satellite network monitored controlled and configured from your browser

Configure & Protect

SpaceBridge NMS NG manages every configurable element of the Hub and UT population through a fast, GraphQL-driven interface and protects your operation with automatic secure backups and built-in redundancy, centralized provisioning, and network integrity and survivability

- Hierarchical UT groups with inherited QoS/SLA
- Multi-tenant VNO architecture
- REST, GraphQL, NETCONF/YANG APIs
- Automated backups
- 1+1 and cluster redundancy
- Software inventory and version management



Features and Benefits

Full Network Configuration

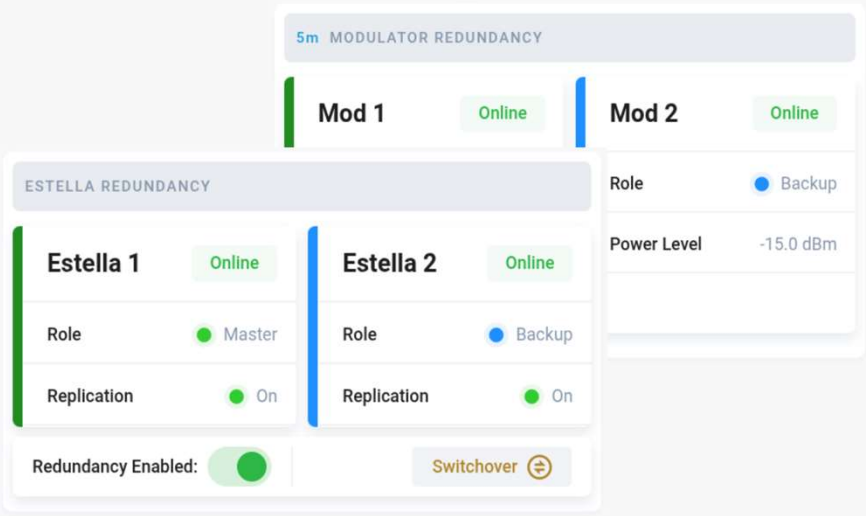
Provision and edit every layer of the network: equipment, services and terminals, with safe, partial edits (omitted fields are preserved on save)

- **Terminals**: general, networking(static routes, DHCP), IPSec, X.509,SLA, QoS and rate limiting
- **Hub equipment**: Modulators/FLS (general, management) and ESTELLA-Core (Multi-Channel De-modulator, terminal parameters)
- **SLA & services**: network services and forward/return QoS templates
- **Frequency plans**: FL, RL occupied BW; frequency/power allocations with live transponder preview
- **Terminal groups:** Hierarchical terminal groups supporting inherited configuration, QoS, and SLA policies, enabling centralized management and consistent service enforcement across thousands of terminals
- **Multi-tenant** Hierarchical multi-tenant VNO management with dedicated IP addresses, independent administration, role-based access control, and complete operational isolation foreach tenant
- **Global settings**: Hub and terminals location and time zone

Backups and Redundancy

Carrier-grade resilience is built in configuration and is backed up automatically and on demand, and critical systems run with hot-standby redundancy.

- **Cluster based or 1+1 Hot-Standby (HSBY) ESTELLA-Core redundancy**
- **Modulator failover and NMS redundancy** monitoring
- **Automatic backups** and on-demand configuration backups
- **Upload and restore** from any saved backup
- **Backup catalog** with timestamp, size and description
- **Remote server backup** and restore
- **Terminal Software-version tracking**
- **Dedicated redundancy overview** dashboard



spacebridge.com | info@spacebridge.com | +1 514 420-0045 |

SPACEBRIDGE
ALL THINGS CONNECTED

ESTELLA/UniHUB NMS NG

Your entire satellite network monitored controlled and configured from your browser

NMS NG Architecture

A modern, API-first architecture. A lightweight web client runs over a redundant service platform that manages equipment through open standards — nothing proprietary on the operator's desk.

CLIENTS operators, anywhere

Desktop | **Tablet** | **Mobile**

Any modern browser — nothing to install, no OS lock-in, responsive on every device

HTTPS / WSS · JWT-secured

NMS NG PLATFORM server-hosted · redundant

GraphQL API
Queries · Mutations · Real-time subscriptions

InfluxDB
Time-series metrics & dashboards

User Management
JWT · RBAC · VNO isolation

Redundancy Service
1+1 & NMS failover monitoring

NETCONF / YANG · SNMP

ESTELLA redundant

ESTELLA-Core
Multi-channel demodulators
Hot redundancy

HUB EQUIPMENT

Modulators
MOD1250, FLS-220X, PCIe Modulator
Modulator redundancy

MANAGED NETWORK over RF / satellite

User Terminals
Fleet — individual
& bulk operations

API-first · Real-time subscriptions · Standards-based southbound · Redundant & multi-tenant

spacebridge.com | info@spacebridge.com | +1 514 420-0045 |

DS-NMSNG-20260417 R02