Product Brochure

TotalNMS

One smart system for scalable networks

New GEO-HTS and Non-Geostationary Satellite Orbits (NGSO) bring massive bandwidth scale and service flexibility, leading to more powerful and capable satellite networks ever than before.

These networks provide unparalleled flexibility and enable demand-based bandwidth delivery where and when it is needed.

However, as networks expand globally, in bandwidth, number of subscribers and moreover with the introduction of new software-defined satellites, efficient network management becomes more and more challenging.

Operators need a tool that will simplify their operation, reduce their costs and improve their customers' experience. for that Gilat developed industry most advanced VSAT network management system - TotalNMS.

Benefits

- Task-based user interface
- Agile network configuration
- Effective service assurance
- Advanced mobility services
- Flexible wholesale business models
- Facilitated process automation
- Big data collection and analytics
- Standard interfaces to Next-gen SW-defined GEO-HTS and NGSO constellations
- Always-on service availability

One smart system for scalable networks

Task-based user interface

Agile network configuration

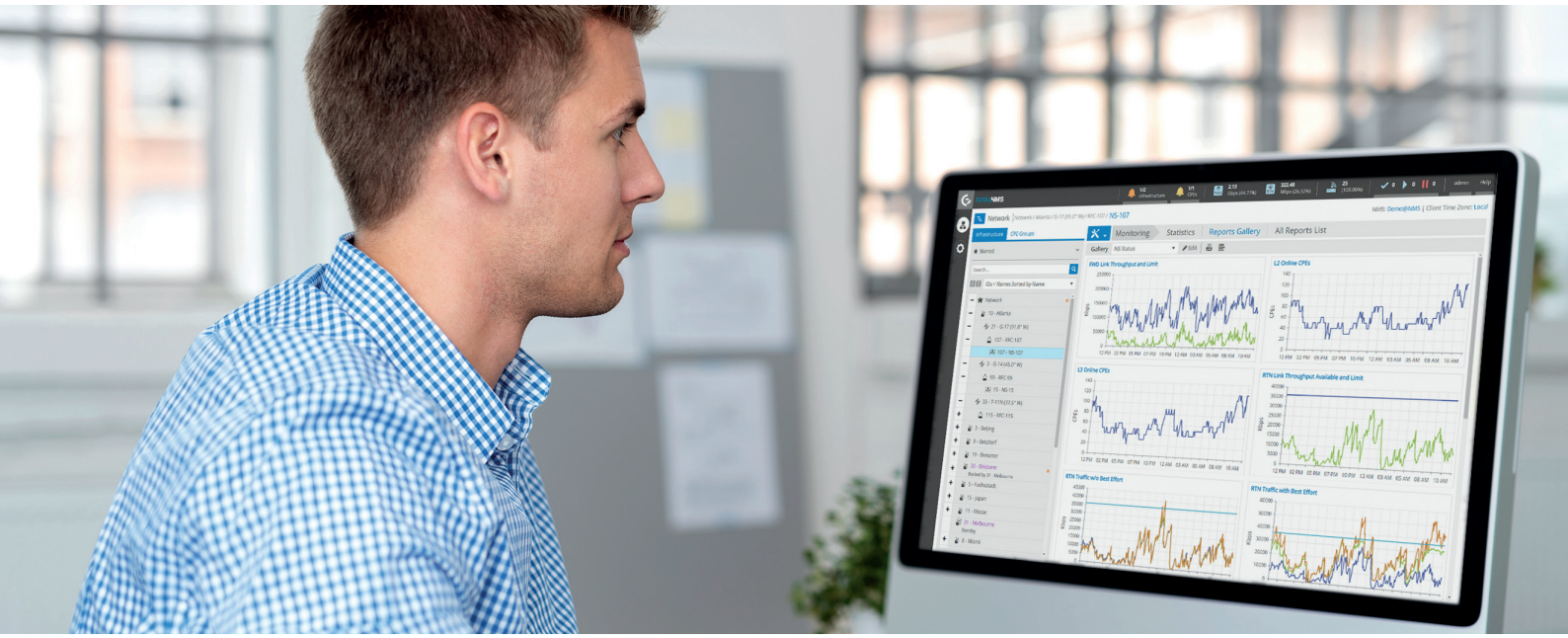
Effective service assurance

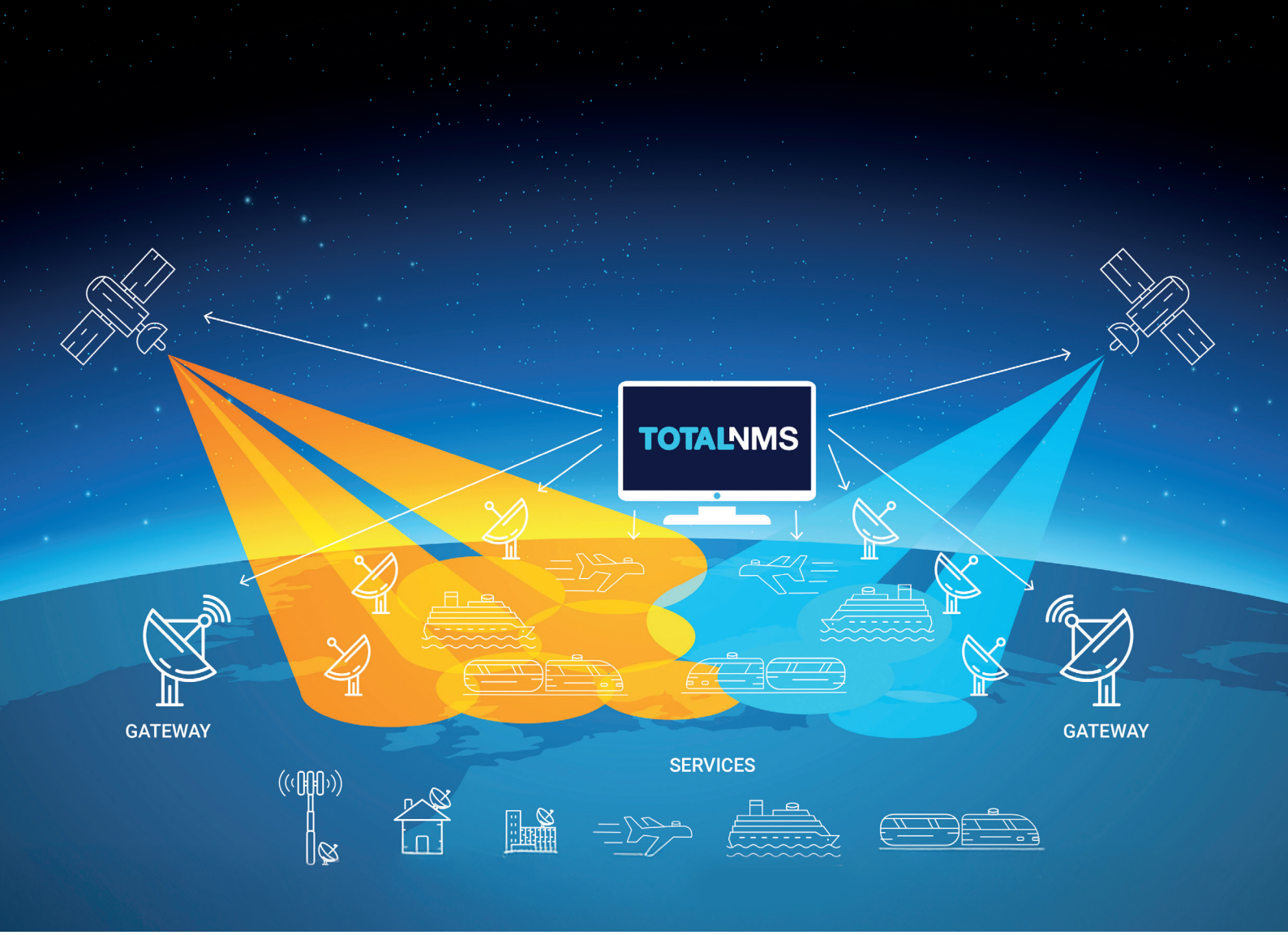
Advanced mobility services

Flexible wholesale business models

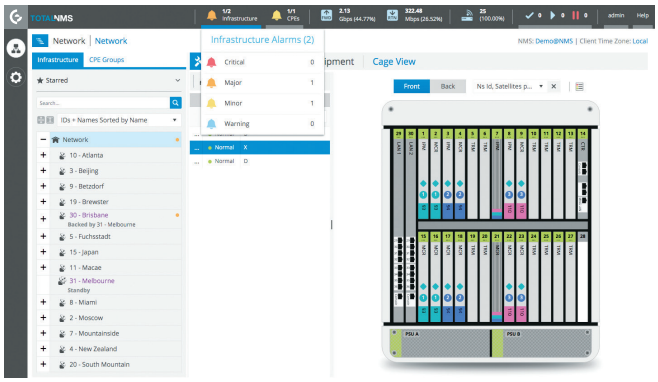
Facilitated process automation

Always-on service availability





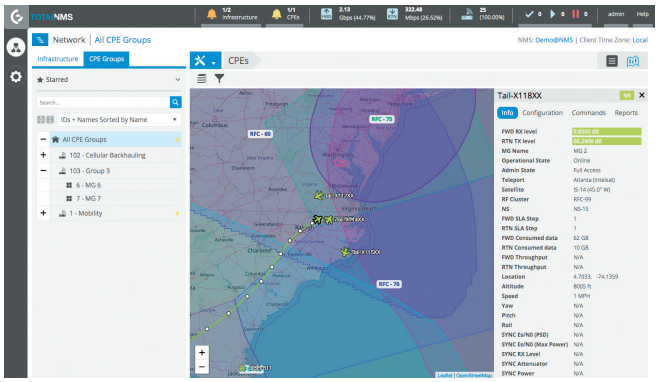
Effective service assurance



Once the service is up and running, it must be monitored. Our dashboard keeps operators up to date, allowing them to respond quickly to any issue. When a failure occurs, an alarm indicates the source of the problem with a quick link to the relevant data.

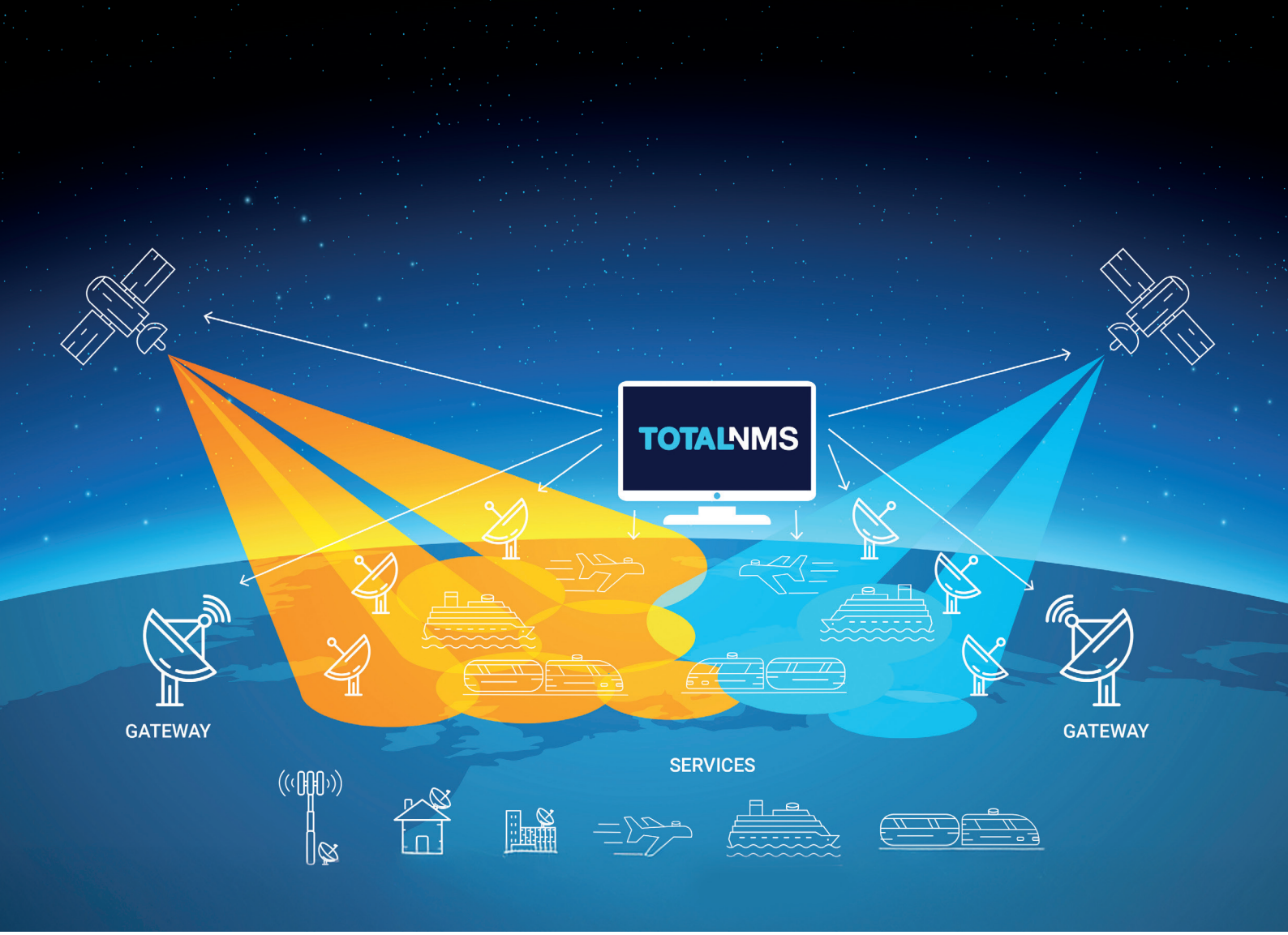
Real-time and historical performance monitoring deliver deep visibility into network utilization statistics and service KPIs. Using this detailed information, operators can optimize resource usage while keeping customers satisfied with an entire range of SLAs.

Advanced mobility services

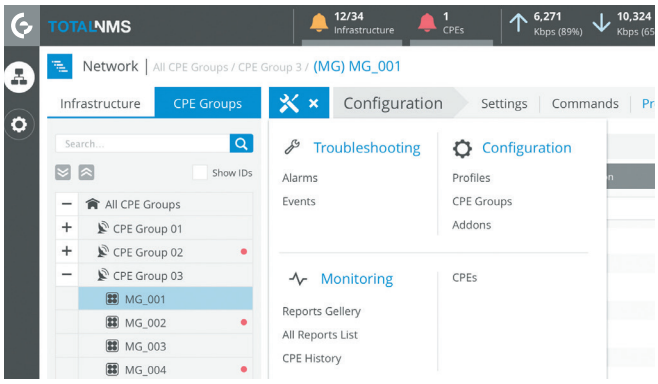


With TotalNMS maps, the geographically-based behavior of mobility services are easily defined and managed. Parameters include VNO service boundaries, areas where transmission is not allowed and the right place to switch between overlapping beams.

These layers together with the terminal's most relevant information are overlaid right on the map. The ability to track a mobility terminal's status throughout the changing conditions of its route enables operators to ensure its service quality at all times.



Task-based user interface



To manage networks effectively, operations team members typically have highly specialized roles and tasks. We designed TotalNMS to address operator's needs and to improve productivity.
First, we divided the interface into two major domains – **Satellite, Equipment** and **CPE (terminals)**– to match your team member's area of expertise. Second, we divided each domain into the three most common operator activities – **Troubleshooting, Configuration and Monitoring** – so that daily workflows can be easily completed in a fraction of the time.

Agile network configuration

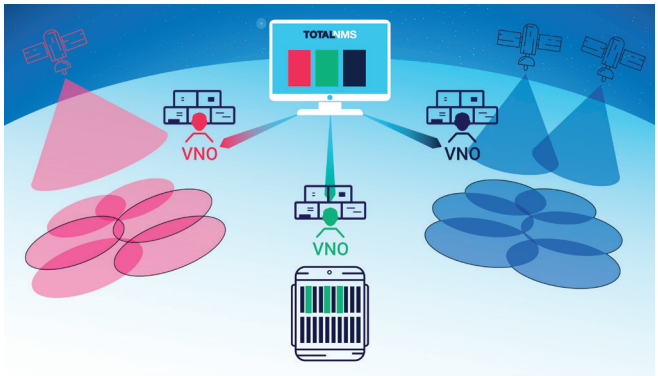
With TotalNMS' service-oriented approach, the network is configured by entering the satellite service characteristics rather than configuring each sub-system individually. This process dramatically simplifies network setup and modification.

TotalNMS simplifies service provisioning by using configurable profiles for Broadband Internet, Enterprise, Mobility and Backhauling services. Each service is configured once and then assigned to all the customer equipment sharing the same service characteristics. This approach lets operators be especially agile and responsive to meet customer demands.

Flexible wholesale business models

TotalNMS provides a carrier-grade wholesale service portfolio that flexibly accommodates various VNO needs.

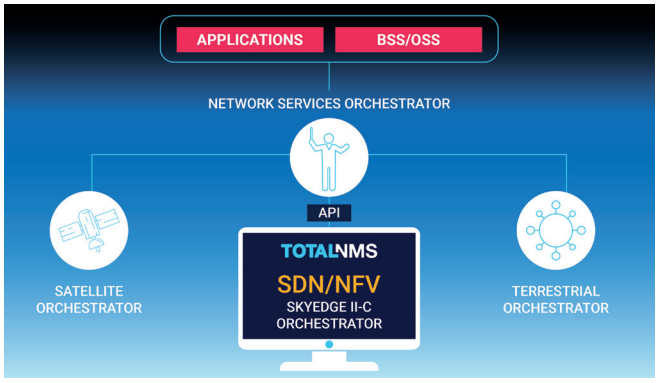
Some may want their wholesale bandwidth specifically defined per beam, while others may prefer one global bandwidth pool flexibly utilized over multiple satellites and beams. And some may even wish to run and manage their own dedicated hub hardware. With TotalNMS, operators can easily create and monitor all these services, letting their VNOs manage their network as they see fit.



Facilitated process automation

TotalNMS facilitates the automation of service provisioning, service assurance and billing processes

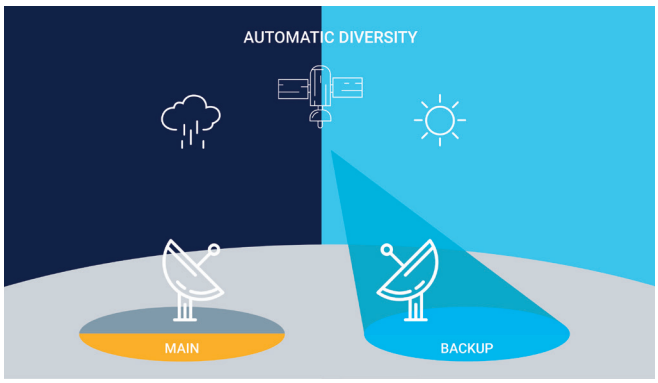
By leveraging SDN and NFV technologies, Gilat's TotalNMS provides fully-orchestrated programmable network. This intelligent network enables operators to dynamically provision network capacity on demand, automatically support network diversity and efficiently manage mobility satellite bandwidth. With this solution in hand, network operators are now ready to face the higher levels of flexibility and agility required by advanced next-generation applications and services.



Always-on service availability

In addition to Gilat's built-in platform redundancy the multi-site distributed architecture supports the optional deployment of a secondary diverse gateway, datacenter or NOC to achieve higher levels of availability and network resiliency.

With fast and reliable switchover to geographically diverse locations, all services and operations are protected from extreme weather conditions or natural disasters at the primary location. This modular architecture enables operators to choose different levels of availability based on service priority and budget.



Summary

TotalNMS gives network operators all the tools, information and APIs needed for end-to-end automation, simplified operations, reduced costs and an improved customer experience.

Simplify Operations

Reduce Costs

Improve Customer Experience

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