

# Star Management Suite

## Management Solution for WiMAX™ Networks



Northbound Interface Management Carrier-class Value Carrier-class  
Robust Quality-of-Service Scalable Management Scalable  
Management Network Performance CPE Management  
Scalable Secure Carrier-class Quality-of-Service Secure Flexible

## Cost-effective, High-quality Network Management

Deployment of WiMAX networks is growing continuously, and while service providers race to keep up with massive deployments, they are also under pressure to reduce maintenance and operational costs (OPEX). Based on Alvarion's experience and superior technologies, the Star management suite is designed specifically for WiMAX deployments and helps Service Providers to cost-effectively manage WiMAX deployments, roll out new services and maintain high service levels. Star management suite's family of carrier-grade management platforms helps carriers to stay competitive and deliver the increasingly sophisticated bandwidth-rich services subscribers demand, quickly and profitably.

## Guiding Successful WiMAX Deployments

A comprehensive, field proven and robust solution, the Star management suite is made up of specific management tools that cover the entire WiMAX service life-cycle - from initial installation to full service provision, and all monitoring, reporting and troubleshooting tasks required for efficient network operation. The Star management suite can be deployed gradually, module by module, in accordance with network needs.

## More Control, More Value

The Star management suite is a tightly integrated solution that adds value to WiMAX investments:

- Ensures Quality of Service (QoS) and Quality of Experience (QoE)
- Eases deployment with smooth integration in OSS/BSS environments
- Enables reduced OPEX and Total Cost of Ownership (TCO)
- Shortens time-to-market for new WiMAX services
- Complies with WiMAX network standards
- Enables management of multiple CPEs



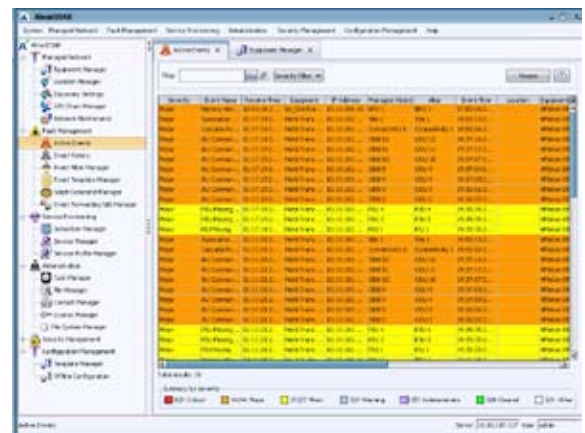
### Star Management Suite Highlights

- Carrier-class, scalable and reliable solution
- Unified system for fixed and mobile networks
- Distributed architecture for mass deployment
- Cross platform based on Java Application Server
- Comprehensive FCAPS and intuitive GUI
- Bulk operation and extended security
- Proactive fault management for quick detection, isolation, and resolution
- Web-based client based on Ajax technology
- Threshold processing to detect performance degradation
- Flexible report generation
- Northbound interface
- Standards-based CPE management with TR-069 support
- Plug and play CPE installation and auto provisioning

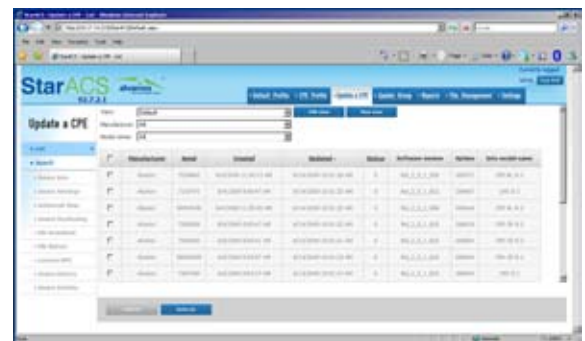
# The Star Management Suite



**AlvariStar** is a carrier-class, field-proven Network Management System (NMS) for managing Alvarion's WiMAX base stations in mobile and fixed deployments. A key element in the Star management suite, AlvariStar provides comprehensive FCAPs coverage, support for northbound interface connectivity and mass configuration and maintenance tasks over multiple elements. The AlvariStar infrastructure relies on distributed and multi-tier server architecture enabling safe and quick deployment and offers scalability to seamlessly expand coverage according to network demands. In addition, AlvariStar features remote control, eliminating the need to dispatch repair and maintenance personnel to reduce both TCO and OPEX.



**StarACS** automatic configuration server is a scalable solution for unified management of various WiMAX CPEs including; residential gateways (RGWs) and devices with WiFi, Data and VoIP capabilities as well as any fixed or nomadic TR-069-supported devices. StarACS enables service providers to benefit from all the advantages of TR-069-based networks, such as simplified configuration, remote management and service activation. Supporting zero touch installation, auto provisioning and remote control of WiMAX CPEs, StarACS introduces a service-oriented approach that covers the entire CPE service life cycle.



StarACS Web services northbound interface enables easy integration with higher-level management systems, such as OSS and NMS platforms. For end-users, plug and play activation is easy as the network can identify and automatically work with the CPE. Furthermore, StarACS supports an Open WiMAX architecture enabling unified management of multiple-vendor CPEs which results in a significant reduction in OPEX and shorter time-to-market for new services.



**StarQuality** is a network performance and traffic monitoring system that helps operators optimize WiMAX network usage, maximize traffic capacity, maintain high level, quality services and comply with maintenance service license agreements for ensuring customer satisfaction and loyalty. A robust, rules-based module with an intuitive Web-based GUI, StarQuality uses TCA (Threshold Crossing Alerts), features conditional alarm generation and employs an open and highly scalable all IP client/server architecture. Using quick identification and resolution of network problems, the system collects, stores, analyses and presents all vital network capacity data in user friendly formats, enabling service providers to plan and monitor networks and maintain top QoS.





## Headquarters

International Corporate HQ  
Tel: +972.3.645.6262  
Email: corporate-sales@alvarion.com  
North America HQ  
Tel: +1.650.314.2500  
Email: n.america-sales@alvarion.com

## Sales Contacts

Australia:  
anz-sales@alvarion.com

Asia Pacific:  
ap-sales@alvarion.com

Brazil:  
brazil-sales@alvarion.com

Canada:  
canada-sales@alvarion.com

Caribbean:  
caribbean-sales@alvarion.com

China:  
cn-sales@alvarion.com

Czech Republic:  
czech-sales@alvarion.com

France:  
france-sales@alvarion.com

Germany:  
germany-sales@alvarion.com

Italy:  
italy-sales@alvarion.com

Ireland:  
uk-sales@alvarion.com

Japan:  
jp-sales@alvarion.com

Latin America:  
lasales@alvarion.com

Mexico:  
mexico-sales@alvarion.com

Nigeria:  
nigeria-sales@alvarion.com

Philippines:  
ph-sales@alvarion.com

Poland:  
poland-sales@alvarion.com

Portugal:  
sales-portugal@alvarion.com

Romania:  
romania-sales@alvarion.com

Russia:  
info@alvarion.ru

Singapore:  
asean-sales@alvarion.com

South Africa:  
africa-sales@alvarion.com

Spain:  
spain-sales@alvarion.com

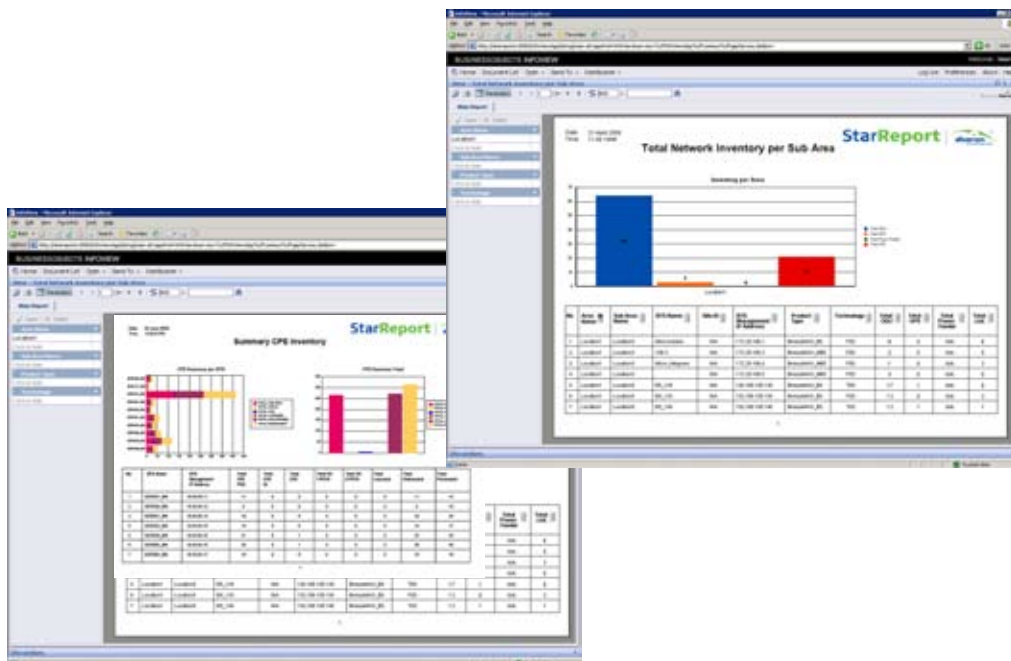
U.K.:  
uk-sales@alvarion.com

Uruguay:  
uruguay-sales@alvarion.com

For the latest contact information  
in your area, please visit:  
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**StarReport** provides a quick and efficient way to generate network inventory reports for a full, accurate and easy to understand status of the entire network. This data helps control and reduce OPEX and promote programs and plans that enhance customer satisfaction. Extracted by a powerful Business-Object report engine, StarReport generates various inventory reports with flexible sorting and filtering.



## Supported Devices

### Alvarion WiMAX Portfolio:

- BreezeMAX® Macro Indoor 16d
- BreezeMAX Macro Indoor 16e-ready
- BreezeMAX Macro Outdoor 16e
- BreezeMAX Extreme
- BreezeACCESS®

### CPE Models:

- Alvarion
- AWB
- Gemtek
- Any 3rd party CPE with TR-069 support

## About Alvarion

Alvarion (NASDAQ: ALVR) is the largest WiMAX pure-player with the most extensive WiMAX customer base and over 250 commercial deployments around the globe. Committed to growing the WiMAX market, the company offers solutions for a wide range of frequency bands supporting a variety of business cases. Through its OPEN WiMAX strategy, superior IP and OFDMA know-how, and proven ability to deploy end-to-end turnkey WiMAX projects, Alvarion is shaping the new wireless broadband experience.



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