

Comarch OSS for Satellite Telecommunications Networks

Introduction

Satellite networks play an important role on the telecommunications market. The unique ability to provide true global coverage and telecom services in areas inaccessible by other operators allow satellite service providers to continuously enjoy steady growth.

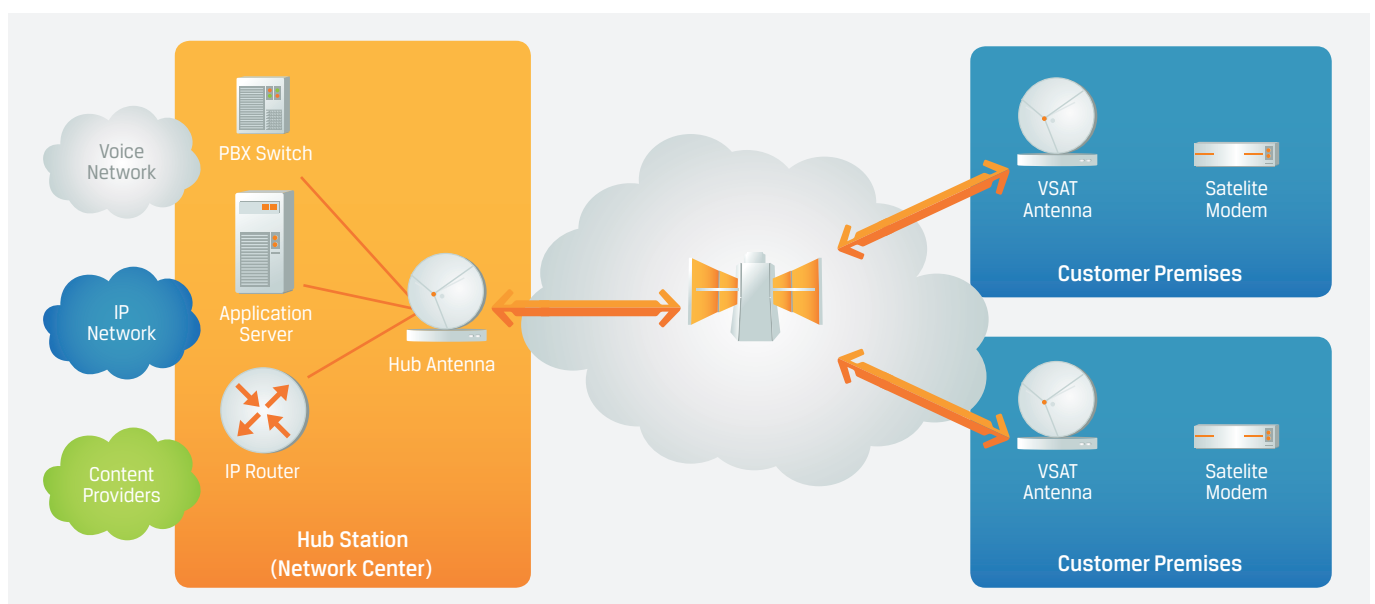
However, the world of telecommunications does not stand still, and although there are still large markets which can be covered purely by satellite networks, rapid infrastructure development and technological progress pushes satellite network operators to face the increasing competition of fixed and mobile service providers.

The key to success for satellite operators is to adapt their offer to customer needs, while utilizing the unique features of the infrastructure. Development of industry standards, technology and infrastructure allows satellite network operators to provide more advanced, rapid and customized services. Nowadays, their traditional basic offer, consisting of broadcast TV and corporate VSAT links, is extended with multiple options of broadband services, Internet access, voice and fax, data multicast, star and meshed VPNs, networks and a number of tailored video broadcasting solutions.

The evolution of the network and introduction of more complex and customized services forces satellite operators to deal with the same challenges in the OSS environment as the rest of the telecommunication world. On the other hand, there are many problems unique to satellite networks, including latency, link noise, specialized equipment, and very often, highly inaccessible remote infrastructure. These issues need to be taken into account when designing a tailored service provisioning solution.

Benefits

- Broad functional coverage and a large base of supported services and technologies
- Support for multiple technologies and services (VSAT links, Corporate VPN, IP Access, Broadband TV) in the mix of a traditional and satellite network environment
- Satellite Link management and Remote Access with in-band and out-band OAM ground terminal connection options
- Open architecture and a library of interfaces for 3rd party systems and network integration
- Business logic orientation – behavior and provisioning logic controlled through service configuration components and business rules
- Shorter time-to-market for new services. Novel service introduction is reduced to service design and service assembly
- Ability to grow with the business and adapt to its changes



Introduction of new services spanning across multiple domains, including IP backbone, multimedia streaming and applications, requires a complete view of network resources. Satellite network providers need an end-to-end approach to service provisioning, which will streamline and manage all aspects of the service activation process.

■ Service Provisioning for Satellite Operators

Comarch Service Provisioning for Satellite Operators is based on a solid and proven network and service management system – the Comarch OSS Suite. It is a unique product suite combining service inventory, service fulfillment and service assurance, in one framework.

The core OSS components of the satellite network provisioning solution are:

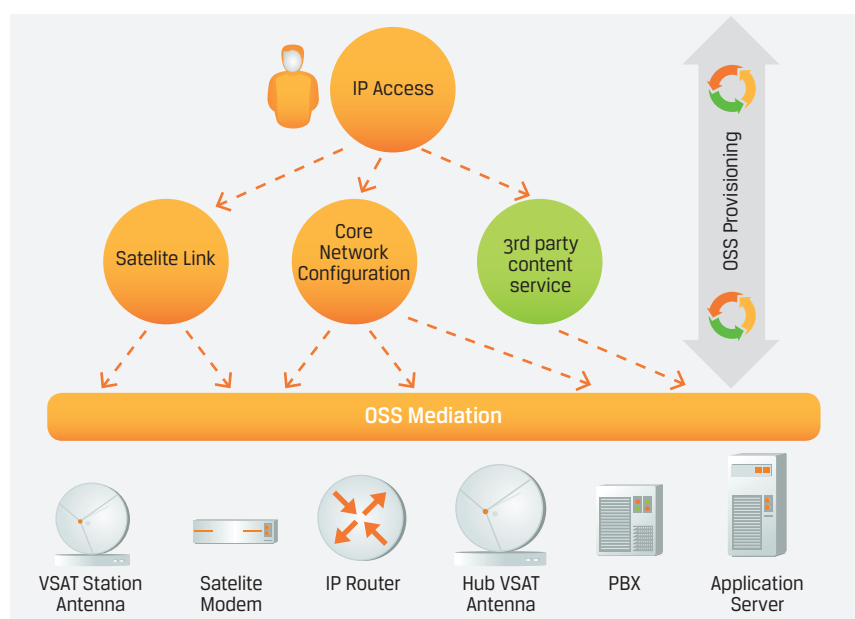
- **OSS Provisioning** – the product responsible for order decomposition and execution of service activation through Comarch OSS Mediation interfaces
- **OSS Mediation** – the integration module, responsible for communication with devices and order execution. Comarch OSS Mediation provides a set of ready-to-use adapters and an open architecture that enables the rapid development of new types

Depending on the customer need, the solution can be further extended with:

- **Network & Service Inventory** – providing the key benefits of a joint customer / resource view, end-to-end support for service fulfillment in a comprehensive multi-vendor, multi-technology network, and related customer services
- **Next Generation Service Delivery Platform** – automation of component-based service creation processes implemented by a service catalog-driven assembly process greatly improves service provisioning capabilities and facilitates the introduction of new services

■ Conclusion

Comarch Service Provisioning for Satellite Operators combines the flexibility of the Comarch Next Generation Service Delivery Platform with the integration possibilities of Comarch OSS Mediation and automated order decomposition provided by Comarch OSS Provisioning, and is additionally supported by Network and Service Inventory. This creates a unique, complete, future-proof approach to robust OSS service provisioning in modern satellite networks.



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About Comarch:

Since 1993, Comarch has been specializing in designing, implementing and integrating solutions and services for telecommunications operators. Experience gained throughout this period, in addition to its knowledge of the latest industry trends led to the development of a wide customer portfolio that spreads across 4 continents and includes the biggest market players: T-Mobile, Telefónica O2, as well as MVNO operators such as Auchan Telecom, France. Comarch customers' satisfaction has always been the strongest confirmation of the quality of its solutions in the areas of billing and inter-partner settlements, as well as management of telecommunications networks and services. The Comarch offering for telecom operators is primarily addressed to Fixed, Cable and Broadband Operators, Mobile Operators, Wholesale Departments, MVNO/MVNE Operators, ISPs and VoIP Operators and Content Providers and IPTV Operators.

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