

ANMS HNM

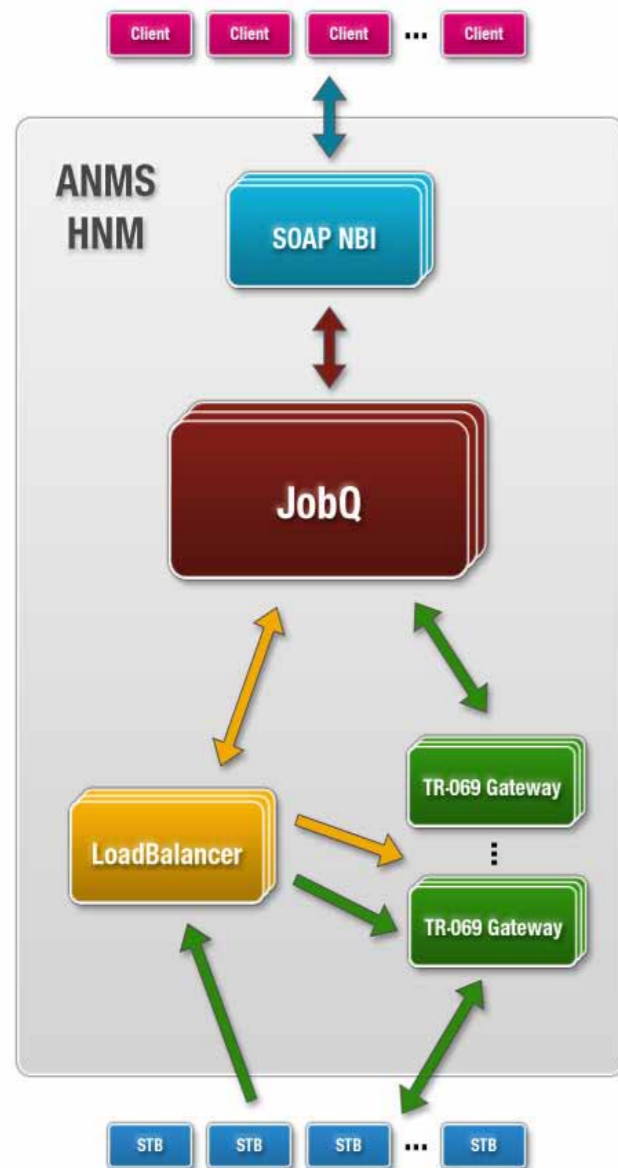
TR-069 DEVICE MANAGEMENT

Distributed and scalable architecture

The distributed and redundant component architecture makes the system highly scalable and fault-tolerant to meet the requirements of high performance.

Modules

ANMS HNM system consists of the functional modules below:



Web GUI

The rich web based user interface provides an easy-to-use platform to display and configure status of the customer devices and data of managed device configurations, and to perform commands related with configuration, diagnostics, logging.

SOAP NBI

The open and redundant SOAP based northbound interface servers enable any kind of 3rd party system may interact with ANMS HNM and use its services provided. The vendor-independent implementation eases the integration with other systems because of the generic data model.

TR-069 Gateway

The scalable Gateway architecture enables the system to separate the TR-069 protocol based communication with the customer-side devices entirely from other components of the application. This separation makes possible to translate vendor-specific data and events of devices into a generic model and contributes to that TR-069 specific operations are detached from the methods used to access and configure devices in generic way.

LoadBalancer

The LoadBalancer component operates as a dispatcher between Gateways and customer-side devices. It is responsible for establishing and controlling dynamically a well-balanced load generated by devices for all Gateways. The LoadBalancer also has the responsibility to reassign devices managed by a Gateway became inoperable to Gateways still working properly.

JobQ

The redundant JobQ servers implement the core functionality of the business logic of the system such as configuration management, device inventory and event logging.



ANMS HNM

For telecommunication service providers

The subscribers use more and more IP based services at their home: broadband internet access, IP TV and telephone services. The management of services is not easy for the telecommunication providers, especially the task is to harmonize a great variety of active devices from different vendors and management systems.

For telecommunication service providers ANMS HNM system can easily integrate and manage customer-side devices supporting the TR-069 standard and provide complex services for users. Even for medium service providers (more than 50-100 thousand devices) the high performance management system is essential for cost-efficiently performing operational tasks: such as configuration-management, monitoring, troubleshooting

Beyond giving a solution with high availability and high performance for the above mentioned processes, ANMS HNM has a very flexible data schema enabling the rapid modeling and easy management of configurations related with new product families and new services in the system. With all of these features the application guarantees the high quality of the services offered to the customers.

Benefits

- Complexity reduction and Increased efficiency in service provisioning
- ANMS HNM is easy to use thanks to its ergonomic web based client GUI
- The open NBI interface makes accessible all the implemented functionality for 3rd party applications and systems
- Predefined templates minimize the manual tasks in configuration processes
- Events and changes provided by devices are logged unified and vendor-independent
- The system provides fine-grained authorization system
- Highly scalable, modular distributed architecture

Main features

Web based GUI

Clean and ergonomic web based GUI assures the easy administration of the platform. The GUI is based on the emerging AJAX technology that enables creating web based GUIs with rich client features and without the disadvantages of the current commonly-used web technologies

Open northbound interface

The open NBI interface makes accessible all the implemented functionality and operations for the 3rd party applications and systems. The standard SOAP based interface assures the rapid integration and eases the interaction between ANMS HNM and other systems.

Vendor independent data model

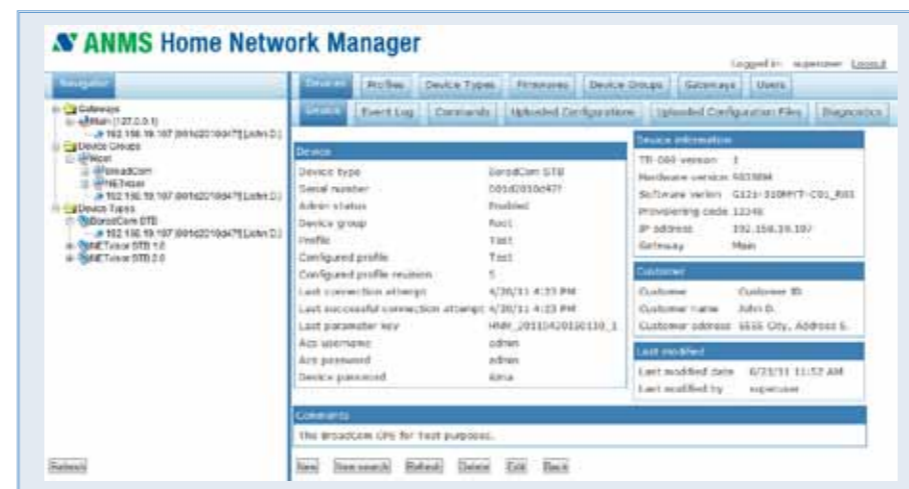
The flexible data model and the generalized functions provide unified and generic facade of the system for the users. The interface of the system hides and encapsulates vendor-specific issues as much as possible.

Templates

Predefined templates for device types and configurations minimize the manual tasks in configuration processes.

User authentication and authorization

The fine-grained role-based authorization system enables the system to control and limit the scope of readable and modifiable data as well as the operations performed.



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