

BECS

Automated Multi-Vendor Network and Service Management

**AUTOMATE THE MANAGEMENT OF NETWORK
DEVICES, SERVICES AND RESOURCES**

BECS control and provisioning system

Today most networks are still managed manually or semi-manually using scripts. This causes configuration lead-times, risk of errors in configuration and documentation, as well as high person dependencies. BECS is an advanced network manager that eliminates these constraints. It provides the full automation of resource intensive tasks including essential functions for carrier class service provisioning and network management.

Applications

BECS can be used for multiple types of networks, including residential, enterprise and carrier networks. It is also suitable for configurations of data centers. It is especially suitable for complex multilayer and multi-vendor environments, but can also be used as a point product for a part of the network or for solving specific tasks.

Wide range of functions

BECS provides functions covering the tasks associated with deploying network devices, provisioning and control of services, and generating information required for troubleshooting, billing and analytics.

Element Management

BECS automates the time-consuming and demanding tasks involved in controlling and provisioning network elements. Initial configuration and software is deployed automatically to devices when they connect to the network, allowing mass deployment at scale.



Automated updates of software secures the stability of the network, and reduces problems associated with multiple firmware releases. This also saves time and money by minimizing on-site visits.

Topology aware service management

Activation, deactivation and changes to services causes numerous updates to service profiles. BECS automates these tasks, thus reducing human intervention to a minimum. As BECS is aware of the network topology, it understands which elements to configure on all network layers for each service modification. Every activation, deactivation or change in a service triggers the service profile configuration to be automatically configured in all affected devices.

Resource management

BECS guarantees optimal use of logical resources, eliminating the risk of otherwise frequent resource conflicts. This is achieved by connecting the resource pools to the actual network topology, something that is typically difficult when handling resources in external systems.

BECS can allocate and control IP addresses through

its built-in DHCP and RADIUS functionality. The DHCP server in BECS ensures that each end-user device (PC, telephone, STB) receives an IP address from the provider of that specific service. This procedure ensures efficient use and control of IP addresses.

BECS can also be used to manage other resources, such as VLANs, VPNIDs, route targets etc.

Automated network documentation

As BECS automates the management of network devices, services and resources it records the changes in its database. This means an up-to-date, fully documented network at every moment.

Easy to integrate with other systems

Integration with other systems is done over the well documented API. The high capacity API ensures smooth and fast integration with business critical systems. Ready-made APIs make integration even faster thanks to simplified interfaces for complex tasks, such as service provisioning and troubleshooting. Also, the API is easy to extend. Adding new methods to the API for solving specific tasks is done by simple scripting.

Modular element management

BECS manages hardware using specific product kit packages to achieve flexible and easy control of hardware in a multi-vendor environment. Each element manager uses the native configuration commands for specific hardware platforms making it possible for BECS to manage any type of access hardware through simultaneous use of multiple element managers.

High Availability (HA) and Scalability

BECS operates in High Availability, ensuring operation even if disaster strikes.

The system modularity combined with the architecture fulfils the demands of a carrier class solution.

BECS has been designed to meet requirements at any scale – from city carriers to large telecom

network operators.

As the network expands, the scale-as-you-grow capability of BECS allows you to scale when necessary, by just adding more servers.

Key Benefits

- Solution for residential, enterprise and carrier networks as well as data centers
- Multi-vendor element support from core down to CE/CPE level
- Zero-touch element deployment
- Network topology aware service and policy management
- Advanced network resource management
- Customizable APIs for fast and easy third party OSS/BSS integration
- Always up-to-date documentation of services, network elements and resources

Technical requirements

- **Operating system:**
RedHat Enterprise Linux 6 or CentOS 6, 32-bit
RedHat Enterprise Linux 7 or CentOS 7, 64-bit
- **Recommended Hardware:**
Minimum Intel compatible 2 GHz CPU, 4 cores and 16 GB RAM (depends on network size)

UK OFFICE

Street: 65 West Side Rise
MK46 5HP Olney, UK
Phone: +44 7718 175 652
Email: sales@pfs.com

POLAND OFFICE

Street: Jana Pawła II 22
00-133 Warszawa, Poland
Phone: +48 22 487 56 25
Email: office@poland.pfs.com
info@pfs.com

HEAD OFFICE

Street: Vasagatan 10,
111 20 Stockholm, Sweden
Postal address: P.O.Box 575,
SE-101 31 Stockholm
Phone: +46 8 633 1990
Email: sales@pfs.com