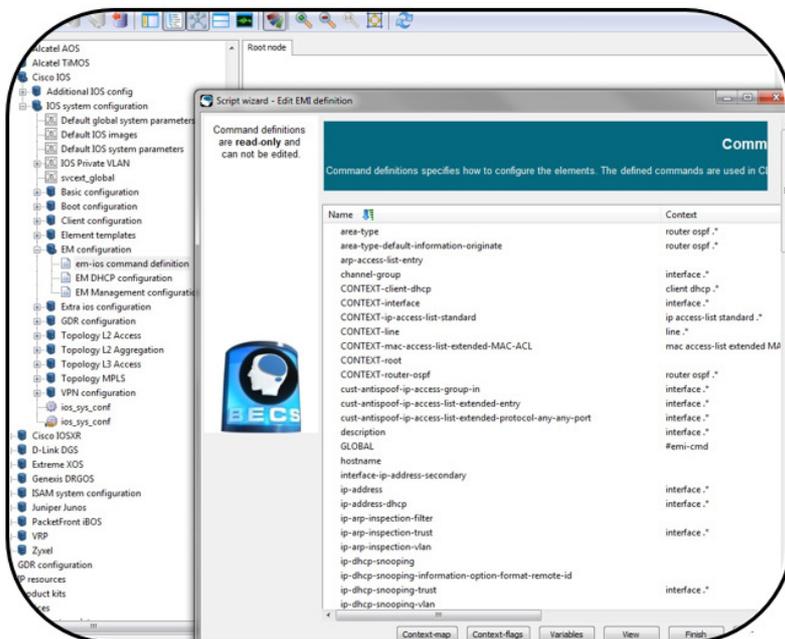


BECS Element Management

Manage any kind of element with BECS

Key benefits:

- Supported element managers; out of the box management for widely used element types
- Easy element manager creation for more specific needs
- Element manager creation, modification and updates independent of BECS release cycles



About BECS Element Management

BECS is a service and network management system, with a number of element managers attached to it. The service management part of BECS defines how a broadband service works. The network manager figures out which network elements need to be re-configured when the service is activated on a customer port - depending on the network topology in the relevant part of the network. The role of the element manager is to translate the required configuration to actual network element configuration.

A single element manager is typically capable of managing a number of similar element models, such as a certain series of switches from a specific vendor. Since any number of element managers can be used by BECS simultaneously, BECS can easily manage the entire network, even if it is composed of network elements from multiple vendors.

An element manager is distributed as a BECS Product Kit, which makes it easy to add a new element manager or update an existing one to a newer version, directly from the GUI without server or network downtime.

PacketFront Software offers a range of element managers for elements of selected vendors.

Element Manager Product Kits

PacketFront Software provides ready element managers for many vendor's equipment.

These Element Managers have been developed, tested and verified by the PacketFront Software's R&D organization.

Actualizer

For elements where no element managers of the above kinds are available, there is a second option. The Actualizer is an element manager creation tool, allowing the network operator or the systems integrator to create the required element manager himself. Actualizer provides an easy-to-use GUI that allows all the necessary element manager functionality to be specified without any programming knowledge. All that is required is good knowledge of the actual element configuration.

End customer adaption

Regardless of which of the above element managers are used, there might be a need for customization to meet the special needs of the network. Customizations can easily be added to the element manager either by the network operator or systems integrator.

Deploying elements

In the BECS GUI, wizards are provided to create and manage the elements in BECS. The various options and selections displayed in those wizards are designed for the element type and topology.

In some cases the same element model can exist in different roles in the network, such as PE or BNG, aggregation or access. BECS has native support for many element roles in order to always provide correct configuration.

Default element configuration

A standard boot-up configuration is provided for most element models. When a new element is installed and powered up, its configuration is already ready and waiting in BECS, removing any need to bench-configure the unit in advance.

Definition and provisioning of services

All standard service functions the element is capable of handling are defined using BECS standard Service wizards, where a service is composed of a set of such functions. By composing services in this way, any type of unicast or multicast service can be defined (internet, voip, iptv).

The actual configuration defined in a service is applied on the element when a customer service is provisioned there.

Troubleshooting and statistics

Each element manager is also capable of collecting information from the element. BECS will aggregate information from the network and make it available in a standard format for other systems to use either for statistics or troubleshooting.

Software Management

Software management and updates can be managed using BECS. The element manager keeps track of which version is currently in use, and performs the task of loading the new image onto the element should it be required.