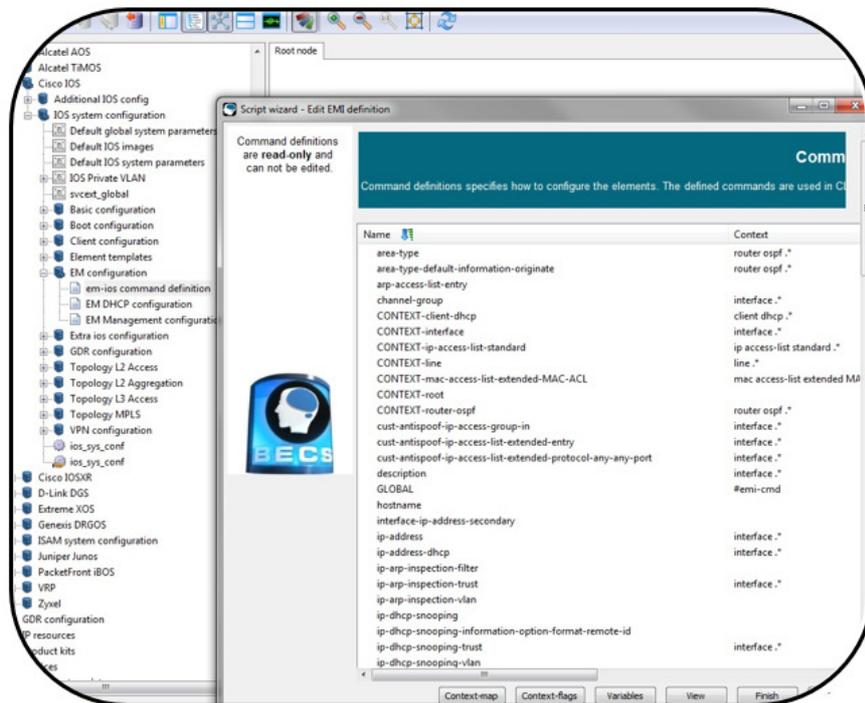# BECS Actualizer

Create and maintain your own element managers

Key benefits:

- Brings all BECS features, such as full automation, to any network topology

- Harmonize your network regardless of network equipment make or model

- Manages elements at the level you need, no more, no less

- Intelligent configuration error handling

- Manage firmware image updates

- Do not require programming skills

About Actualizer

Actualizer is a GUI-based tool in BECS that is used to create and maintain element managers. With the help of Actualizer, a new BECS element manager is simply taught the command syntax of the network element, i.e. how to configure the element, instead of programming.

To create a new or update an existing element manager, all that is needed is to specify how a configuration is carried out with a particular element type. Good understanding of the management interface of the element is needed, but no programming skills are required. Some knowledge of regular expressions and script language may be helpful.

The amount of configuration that is required to create a fully working element manager depends on the desired level of integration.

An access switch may only require a few configuration commands, making the creation of the element manager almost trivial, while at the same time the capabilities of Actualizer allows for very advanced aggregation router configuration.

Actualizer is installed using the BECS GUI as a Product Kit and does not require network downtime or interruption on the server side. New element managers are also immediately available without down time.

Deploying new elements

Actualizer creates GUI wizards for adding new elements to the network. The user selects the element type from a menu, fills in the basic values in a GUI window, and the element will appear at the selected place in the configuration tree, automatically connected to its closest node.

New elements can be created either one by one, or a number of elements at once. In the latter case, the elements will automatically be connected to each other as well.

Later, when the actual element is installed in the network, it will automatically acquire the full configuration from BECS - no pre-configuration of the elements is needed.

Element configuration

Whenever a change is made to a service, or a new service is provisioned on an element, BECS will render the required configuration. Depending on the change, new configuration for the entire element or just a specific interface is made.

BECS starts the configuration sequence by reading the current configuration present in the element, compares it to the desired one, and applies the proper commands to make the required change. All these steps are detailed for the particular element type in Actualizer, i.e. how to read, compare and apply a configuration - All in terms of element commands.

Network harmonization

The services offered to the end customers are identical regardless of the element type. In a heterogeneous network this leads into a situation where each service is configured in a number of ways due to multiple network element technologies. Actualizer enables a perfect harmonization of this type of environment: The OSS/BSS layer residing north of the BECS network management system only needs to provide port and service information and is kept agnostic about the actual network specifics. BECS, with the help of Actualizer solves how the service is configured to each particular port in the network.

Firmware management and updates

If the necessary commands to manage firmware version is specified when the element manager is created using the Actualizer, software image updates can be controlled by BECS.

The command definitions in Actualizer allow different sets of configuration commands depending on what image version is running on the elements. This enables different versions of the operating system to coexist in the network for any particular element type.

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