

Infonova Device Configuration Manager

The Infonova Device Configuration Manager (Infonova DCM) is a software platform that automates Customer Device configuration, configuration changes and Firmware Updates. It offers powerful administration and scheduling of update processing as well as support of the various differing technical requirements to achieve delivery of the updates and other changes to the CPE device.

CHALLENGE

Operators face significant challenges in managing CPE due to various reasons:

- The continuous increase in numbers of CPE devices out there
- The need for mass updates of those devices due to configuration changes or urgent firmware updates
- The number of configuration changes to support standard daily operations
- The distraction of key technical staff from core intellectual tasks like design, rollout planning, troubleshooting, due to high levels of manual repetitive tasks
- The challenge to handle complexity of CPE management via manual approaches such as spreadsheets
- The opportunity and need to leverage synergies from CPE management, such as data cleansing and address management
- The need to automate and manage historization of configuration management
- The need to standardize interfaces for existing and future management applications

SOLUTION

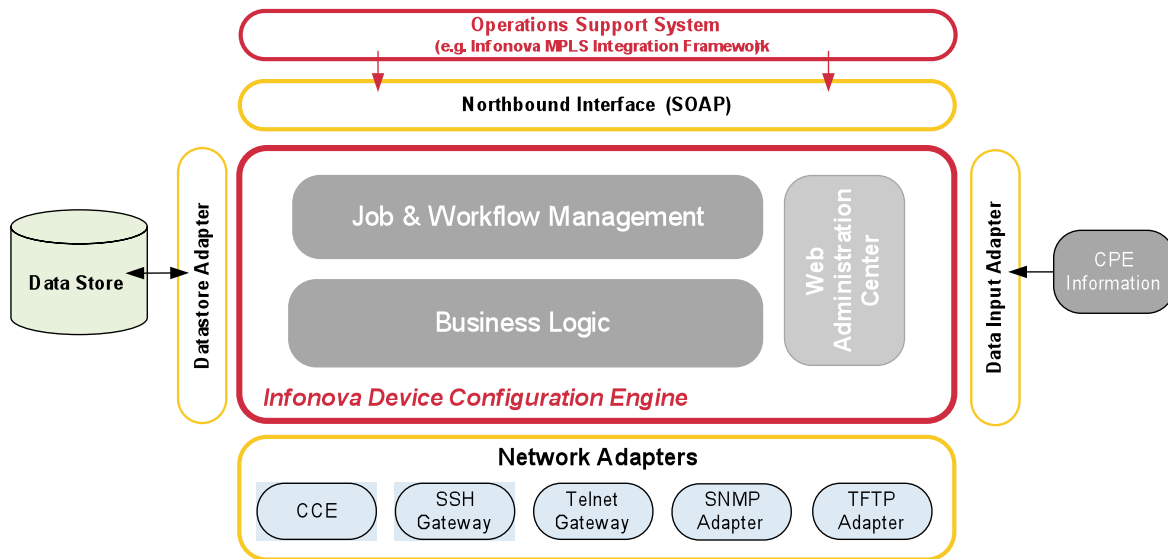
The Infonova DCM has been designed to integrate with vendor's configuration systems eg the Cisco Configuration Engine. Essentially it is the background business logic engine that orchestrates the delivery of scheduled firmware updates to the CPE devices. Management of the Infonova DCM is possible by a web GUI frontend or via northbound integration through SOAP Web Services.

The Infonova DCM is a standalone tool but also an essential component used by the Infonova MPLS framework.

Basically the Infonova DCM consists of three main components:

- Job and Workflow Management – managing the execution of the device configuration activities
- Business Logic – managing the rule driven processing of the device parameters
- Web Administration Center - web GUI to provide administration and configuration of the Infonova DCM

The Infonova DCM can be integrated into an existing environment using various predefined or customized interface adapters. The Northbound SOAP Interface e.g., a standardized XML interface, is provided for integration of any management solution (e.g. Infonova MPLS Framework).



Effectively, all devices can be managed by the DCM. Collection of the relevant data for those devices can be done via web services and / or manually via the web interface. As an alternative the import from an excel file is supported as well. For all managed devices a set of CPE management tasks, like firmware upgrades or configuration management, can be executed on a scheduled basis, or manually or by other parameters that can be determined by the business logic.

The Infonova DCM controls all the necessary execution steps automatically, such as startup, running-configuration, version, and flash info and also creates and maintains history-files for all this data. In addition to the pre-integration to the Cisco Configuration Engine (CCE) from Cisco, the Infonova DCM is vendor and solution neutral and therefore can be deployed to configure multiple differing vendor devices.

Functionality of the Infonova Device Configuration Manager includes:

- Mass Configuration and firmware updates
- Historization of configurations and inventory data
- Automated detection of manual configuration changes
- Consistency checks against different data sources
- Designed to manage > 100.000 devices
- Multi Tier J2EE Architecture

BENEFITS

Compared to other tools the Infonova DCM provides a powerful business logic support, which enables the management of large numbers of CPE's. The business logic hosts and drives all scheduled jobs and workflows defined by authorized users or through the northbound web interface. Most functionality is provided via SOAP Web Services - this enables the access from various different systems, like AXIOSS, an ESB (e.g. Tibco) or the Infonova MPLS Integration Framework.

About Infonova

Infonova was founded in 1989 and delivers highly automated IT solutions for Telco & Media companies. Infonova's BSS solutions have been implemented for incumbent, attacker and cable operators supporting triple & quadruple play service portfolios.

For more information, please visit www.infonova.com