Highlights

Extreme Configuration and Orchestration Manager Plus helps reduce the administration, complexity and related costs of configuring, provisioning and troubleshooting your network – all from one central location.

Reduce Configuration Complexity

Reduce network set-up time by as much as 70% with built in configuration wizards and easy to use templates that can be saved and applied whenever needed. Detailed audit logs track all the details of who's made device changes and when.

Quick Device Identification and Set Up

Scan your network and find the specific device or service you want to provision. One-click tools let you view and easily modify the device configuration.

Avoid Misconfigurations and Downtime

Accelerate installation and reduce errors that could bring the network down. Wizards provide a guided workflow and create configuration templates that can be saved and used multiple times.

Quickly Configure the Network to Support New Services

Integrated tools let network administrators quickly and easily modify VLANs, configure routing patterns, upload network software updates, and more.

Secure Access to Devices

Built-in controls to ensure that only authorized personnel can access management functions on selected devices.

Extreme Networks Configuration and Orchestration Manager Plus

Networks today must provide a compelling and seamless experience to an ever increasing demand from smart devices, applications, and mobility-based services. Network Operators must keep up with these demands and provide highly secure, always-on connectivity, quick turnaround for deploying new services. This is where Extreme's Configuration and Orchestration Manager Plus can help.

What is Extreme Configuration and Orchestration Manager Plus?

Extreme Configuration and Orchestration Manager Plus (COM Plus) is a real-time web-based network management solution that offers best-in-class configuration, provisioning and troubleshooting for a wide range of network devices and technologies.

Designed to support multiple users, the topology-driven Configuration and Orchestration Manager Plus is ideal for companies that want a cost effective, easy-to-use and easy to manage solution that simplifies configuration and device provisioning.

COM Plus allows authorized and authenticated personnel to conveniently and quickly configure devices on the network regardless of where the user or the device is located.

The solution supports the Extreme portfolio of Ethernet Routing Switches, Virtual Services Platforms, and Wireless LAN (WLAN) 8100 products, as well as Extreme IP phones.
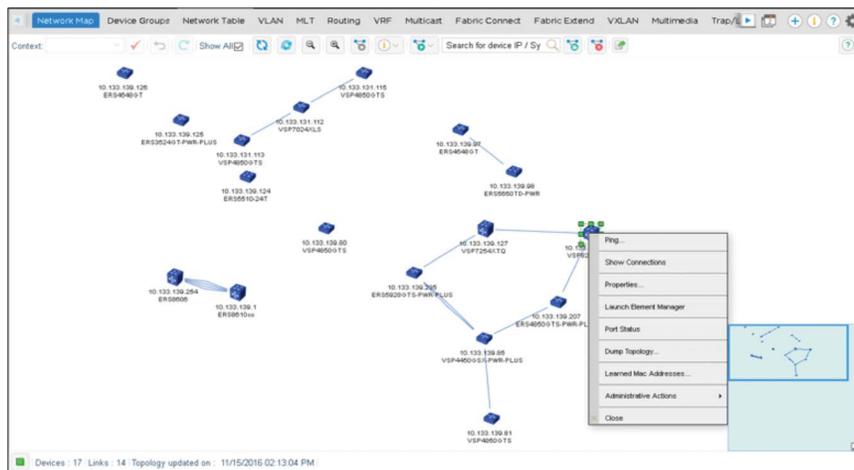
Figure 1 Extreme COM Plus topology views help monitor and simplify network set-up

Common Management Framework

Configuration and Orchestration Manager Plus is built on Extreme's Common Management Framework. Products in this framework include Extreme Fabric Orchestrator, and Visualization, Performance and Fault Management Plus. These products share a lot of common features. Some of these features include:

- Enhanced Network Discovery utilizing various L2-L7 protocols including 802.1ab and SONMP

- Sharing of information across applications helping reduce data entry and the potential for errors

- Web-based, centralized authentication with single sign-on, helping provide easy and secure access to all management applications

- Single pane of Glass and common look and feel across products helping decrease the learning curve for IT personnel

- Application co-residency, allowing application hosting on the same servers

Centralized Element Management and Access Control

Configuration and Orchestration Manager Plus helps reduce the administration, complexity and related costs of configuring, provisioning and troubleshooting your network — all from one central location.

As a GUI-driven solution, Extreme COM Plus includes anywhere-anytime, network-wide device element management, inventory, updates, and device and user access control. Furthermore, its intuitive and easy to use wizards can help reduce configuration time by as much as 70 percent, freeing up valuable IT expertise.

Extreme COM Plus's powerful user access controls not only help protect the network against unauthorized access, but also help avoid misconfiguration issues and downtime. And if you want insight into who made changes and when, the solution's audit logs allow you to see all the details, including who, what and when.
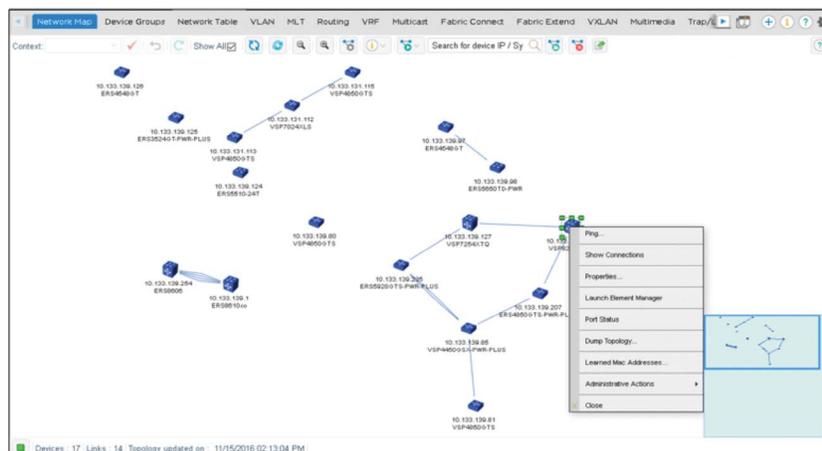

Figure 2 Bulk Configuration Manager enables centralized management ofdevice software

Key Features

Centralized Element Management For Ethernet Switches

Element management for Extreme ERS and VSP switches can be performed through a plug-in software module called the Off-Box Enterprise Device Manager (EDM). With EDM, you can manage all Ethernet switches from one server — including assigning specific users access to a given switch. Unlike on-box solutions that have limited processing power, EDM is able to leverage the server's powerful CPU and memory to accelerate configuration processes and perform faster and better system monitoring.

Wizards and Template-Based Workflows

Configuration and Orchestration Manager Plus can facilitate complex network setup through simplified, intuitive wizards and easy-to-use templates. Operating through a guided workflow, wizards help create configuration templates that can be saved and used multiple times. This can result in fewer keystrokes, accelerated installation and a reduction in errors that can lead to costly network downtime. Wizards are available for the following protocols and services:

- Split Multi-Link Trunking/Multi-Link Trunking (SMLT/ MLT) Clustering
- Virtual Local Area Network (VLAN) Management
- Virtual Services Networks (VSN)
- Software Device Patch Management

Sub-Managers for Monitoring and Configuring Services Across Multiple Devices

Configuration and Orchestration Manager Plus includes multiple sub-managers that allow you to monitor and configure protocols and settings across multiple network devices. This can simplify managing service offerings across your network.
Available sub-managers include:

- **VLAN Manager**, to create and modify VLANs
- **Multi-Link Trunking Manager**, to create and edit Multi-Link and Split Multi-Link information across network devices
- **VRF Manager**, to configure VRF services
- **Fabric Manager(s)**, to configure and monitor Fabric Connect, Fabric Extend and Fabric Attach services

- **Routing Manager**, to configure routing parameters on network devices
- **Multicast Manager**, to view and configure devices that use multicast protocols
- **Security Manager**, to centralize network management access to devices
- **Trap and Log Manager**, to view trap and log files and to set event notifications

Bulk Configuration And Inventory Management

COM Plus can also centralize file uploads or downloads across multiple devices. This feature makes it easy to schedule, update and deploy updated images or configuration files across the network. It can also perform centralized backup and restore of device configurations, including automated re-boot after a restore operation.

The toolset also includes discovery and display of lists of hardware and software installed across the network. This helps an enterprise build a consolidated view of its network equipment. Inventory information can also be imported or exported to an external file.

Features and Benefits at a Glance	
Feature	Benefit
Wizard based device discovery to enable operators to quickly discover and manage their network.	Helps save time and resources.
Consolidates configuration, provisioning and orchestration through topology-driven, web-based integrated element management.	Helps save time and operational costs.
GUI-driven network-wide configuration, inventory, event and change management.	Centralized management accelerates processes and frees up valuable IT resources.
Supports multiple concurrent users and includes powerful access controls, such as role-based user control functionality.	Helps protect your network, facilitates faster configuration and changes to the network, and reduces potential network downtime.
Simplified, intuitive wizards and easy-to-use templates that can apply updates across multiple devices.	Reduces configuration setup time, while decreasing the likelihood of error.

Additional Features and Tools

Software Version Updater allows upgrade of images on devices. Upgrades can be scheduled at a future date and time.

TFTP Server allows file transfers between servers without authentication. You can also trace information on file transfer when the trace mode feature is enabled.

Smart Diff is a tool that compares ASCII-based switch configuration files. Through analysis, it creates a Diff list that can be stored as a file.

Device Port Scanner enables network device port scanning to determine the MAC addresses of connected end nodes. The data collected from these scans is stored and put into a file format. Scans can be scheduled at regular intervals or manually triggered.

Scheduler allows you to schedule tasks submitted by sub-managers. This tool runs in the background independent of Configuration and Orchestration Manager Plus. It can execute scheduled tasks with or without COM Plus running in front.

Supported Devices	
Virtual Services Platform 4000	3.0 or higher
Virtual Services Platform 7200	4.2.1 or higher
Virtual Services Platform 8000	4.0 or higher
Virtual Services Platform 9000	3.0 or higher
Ethernet Routing Switch 8600 and 8800 including the following hardware: 8681XLW module, 8681XLR module, 8616GTE module, 8672ATME MDA, 8608GBM module, 8608GTM module, 8632TXM module, 8648TXM module, 8672ATMM module, 8683POSM module.	4.0 or higher
Virtual Services Platform 7000	10.1 or higher
Ethernet Routing Switch 59xx	7.0 or higher
Ethernet Routing Switch 56xx	5.1 or higher
Ethernet Routing Switch 55xx	5.1 or higher
Ethernet Routing Switch 49xx	7.1 and 7.2
Ethernet Routing Switch 48xx	5.2 or higher
Ethernet Routing Switch 45xx	5.2 or higher
Ethernet Routing Switch 35xx	5.0 or higher
Ethernet Routing Switch 25xx	4.1.x or higher
Ethernet Routing Switch 16xx	2.1.5.x or higher

What Is Enterprise Device Manager?

Centralized Enterprise Device Manager (EDM) is state-of-the-art device element management software that allows you to manage all devices centrally from COM Plus. Through EDM, you have better control over who makes changes to devices. The manager offers:

- Read-only and read-write access control
- User-based access control and device list management
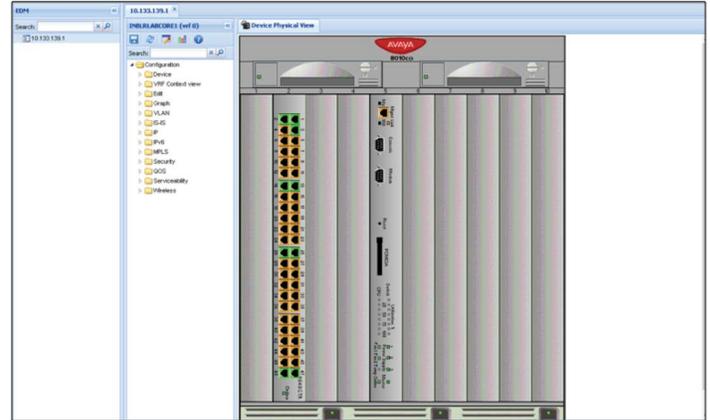- User-based audit

Figure 3 Enterprise Device Manager (EDM)

Supported Operating Systems and Browsers

COM Plus is delivered as a VMware vApp (VMware 5.5 or 6.0 - both vCenter as well as ESXi are supported). It requires a minimum of 10vCPUs, 32GB RAM, 3 vNICs and 500 GB of disk space.*

Internet Explorer (IE)	Version 11
Firefox	Version 47 and 48
Safari (Yosemite)	Version 11

* If you already have VPFM Plus deployed, you can enable COM Plus by purchasing a license. No deployment needed.

Learn More

To learn more about Configuration and Orchestration Manager Plus, contact your Extreme Account Manager or Extreme Authorized Partner. Or, visit us online at www.extremenetworks.com.

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