Ciscoworks LMS 4.0
A New Paradigm

LMS Webinar Series #2
Some Webex Tips

✓ All participants will be placed on mute to avoid any unwanted noise during the presentations

✓ If you are experiencing any problems with VoIP Integration, please try dialing in using the WebEx Toll Free phone number sent in the invite

✓ Use the Q and A window to ask questions

✓ If you are having technical difficulties, audio or visual, please use the Q and A window and we will try and fix them

✓ A short survey will be sent at the end of the presentation, please provide your feedback

✓ The presentation will be recorded for future playback and so you can share it with your peers
Agenda

- Introductions
- What’s new in Ciscoworks LMS 4.0?
- Ciscoworks LMS 4.0 Live Demo
- Q & A
- References
# New Features at a Glance

## Improved User Experience
- Faster Installation
- Intuitive Getting Started Wizard
- Revamped GUI
  - Modern Standardized Style
  - Pragmatic
  - Intuitive
- MegaMenu
- Consistent Navigation
- Actionable Global Search
- Quick Access to all the tools

## Release Highlights
- WorkCenter
  - New Technology LifeCycle Mgmt
  - New Feature LifeCycle Mgmt
- Parameterized Configuration Templates
- Local Detailed RBAC
- Basic 3rd Party Support

## Fine Tuned for Operational needs
- Functionally Designed MegaMenu for Operational Excellence
- Auto Information Retrieval
- Quick Access to all the tools
- Auto-Monitoring
- NAM Integration
- Consolidated Event view
- Dashboards
- Enhanced Troubleshooting
- Consolidated Reporting
Ciscoworks LMS 4.0
An Improved User Experience
Cut install time in half from LMS 3.x

- Single DVD installation
- Installation down to **45 mins** from 2 hours
- Installation includes database as well as the application
- New hardware options for Installation
  - Cisco UCS – B and C Series Chassis
- Variety of OS supported for Installation
  - Solaris 10
  - Virtualization
    - VMWare 4.x
    - Solaris Zones
Intuitive Getting Started Wizard

✓ Sure fire way to quickly manage your network
✓ Quickly start using LMS 4.0 with the guided workflow
✓ Takes out the guess work – Configure mandatory items first, and then learn about optional items
✓ Triggers ALL the basic collections automatically
Getting Started Wizard

- Eliminates initial application configuration pain points and confusion
- See your network in matter of minutes
- Allows users to utilize the product in its entirety
- One place to make change even after initial configuration
Actionable Global Search

- Actionable Search
- Global Search field available on all LMS pages
- Ability to search on any IP or MAC Address
- If you are stuck, help is just a few words away

Actionable Mouse-Overs for more contextual tools!!
WorkCenter – Simplified Lifecycle Mgmt

- **Life-Cycle Management**
- **Technology**
  - Energywise
  - Identity
- **Feature**
  - Smart Install
  - Auto Smart Ports
WorkCenters – Consistent LifeCycle

- **Provision Identity-based Networking Services (IBNS)**
- IBNS - offers authentication, access control, and user policies to secure network resources and connectivity

- **EnergyWise enables you to measure, manage, and reduce the power consumption of network infrastructure and network-attached devices to increase cost savings**
- **EnergyWise provides a set of management functionalities to simplify and automate the energy management lifecycle**

**Identity**

- Smart Install – plug-and-play configuration and image management feature that provides zero-touch deployment for new switches.

**EnergyWise**

- Auto Smartports (ASP) macros dynamically configure ports based on the device type detected on the port.

**WorkCenters**

- **SmartInstall**

- **AutoSmartPort**
Consistent Life-Cycle Workflow Components

Smart Install Introduction

Smart Install (SI) is a plug-and-play configuration and image management feature that provides zero-touch deployment for new switches. You can configure SI feature on a switch which will then be the SI director. Customer can ship switches to a location, place them in the network, and power them on with no configuration required on the switches. The configuration will be performed by SI director.

Learn this once and apply latest and upcoming Cisco Technologies and Features effortlessly

RADIUS-capable devices

<table>
<thead>
<tr>
<th>Filter</th>
<th>Display Name</th>
<th>IP Address</th>
<th>Device Type</th>
<th>Running Image Version</th>
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<tr>
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<td>Cisco 3750 Stack</td>
<td>12.2(50)SE3</td>
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Configuration Templates Manager – Fine Tuned for Operational Needs
Configuration Templates

- **Benefits**
  - Operationally Simple
  - Error Free
  - CVD Certified
  - Turnkey Solution
  - Available out-of-the-box
  - Eases new device deployment

- **Easy Workflow**
  - Import
  - Manage
  - Deploy
Config Templates – Import Workflow

1. From Existing LMS 4.0 Template
2. From Cisco Configuration Professional (CCP) Utility
3. Ways of importing device configuration
   - Download Config Templates from cisco.com
   - Download more templates directly from cisco.com as they are made available.

Choose Import Mode

Choose Source Type
You can create a configuration template by importing the commands from an existing template (.xml), from a file created using Cisco Configuration Professional, or from a device.

- Config Template
- CCP Config
- Running Config from device

Select Device to Proceed
This template form is generated automatically.
Edit Defaults allows user to enter in all the default values for a given template.
This helps users to quickly select a template, make minor modifications, and push out the configurations to the cisco device.
Ability to save this with the configuration and ability to clone the configuration allows users to create quick template for each Data Centers or Branches or any such use case.
Assign users to a template for tighter control.
Add any other adhoc command that may have come up at the last minute.

```
! One can add in adhoc commands in addition to the template
! LMS will not validate but it can be pushed out to the device.
! Let's push syslog server configuration for example.

logging 10.2.3.4
logging on
```

Schedule Deployment

<table>
<thead>
<tr>
<th>Deploy Templates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose Template(s)</td>
</tr>
<tr>
<td>Choose Device Groups</td>
</tr>
<tr>
<td>Enter Values for DSN Switch Configuration</td>
</tr>
</tbody>
</table>

Adhoc Configuration for Selected Devices

No Validation will be done for the Commands
As you can see our adhoc command that were added shows up as well.

Preview the CLI before pushing out the configuration changes.
NAM Integration
1. Add one of the 2 NAM Portlets
2. Select the data-source to see rich graphs instantly

LMS can manage basic NAMs functions:
- Monitoring for basic availability
- Inventory Management
- Config Management
- Config Template Supported for NAMs
- Reporting just like any other network device including PSIRT and EoL/EoS
AutoMonitoring
Basic Monitoring Out-Of-The-Box

**AutoMonitor parameters pre-defined for best practices for every monitoring category**

**One place for making changes to existing pollers**

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**AutoMonitoring Details**

<table>
<thead>
<tr>
<th>Group Name</th>
<th>Template Name</th>
<th>Status</th>
<th>Polling Interval</th>
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<tbody>
<tr>
<td>1. All Devices</td>
<td>Device Availability</td>
<td>Active</td>
<td>1 Minute</td>
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<tr>
<td>2. All Devices</td>
<td>CPU Utilization</td>
<td>Active</td>
<td>5 Minutes</td>
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<tr>
<td>3. Link Ports</td>
<td>Interface Availability</td>
<td>Active</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>4. Link Ports</td>
<td>Interface Errors</td>
<td>Active</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>5. Link Ports</td>
<td>Interface Utilization</td>
<td>Active</td>
<td>15 Minutes</td>
</tr>
</tbody>
</table>

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**Monitoring Dashboard automatically populated once the data is available**

**Web 2.0 portal for portal customization**
Troubleshooting
Troubleshooting Tools at your Finger-tips

Get Quick Synopsis of your device:
- Last Polled Inventory / Configuration
- Type of Device
- OS Type/Version
- Location/Contact

Basic Tools – 1-Click away
- Ping/TraceRoute
- Telnet
- Syslog/Events
- 1-Stop /Shop for T’Shtooting
Troubleshooting – Contextual Mouseovers

Instantly see the device information and start troubleshooting.
Reporting
Reporting – ONE place! ALL reports!!

Neatly Organized
Easy to find
3rd party support
Basic Support for Non-Cisco Devices

Hardware Summary

- Non Cisco Devices
- Voice and Telephony
- Switches and Hubs
- Routers

Device Type

- Non Cisco Devices
  - Linux Hosts
  - Sun Hosts
    - Lms-test1-sf-v240
    - Lms-test2-sf-v240
    - Lms-test3-sf-v240

Device Type Groups

- 3Com Devices
  - 3Com Hosts
  - 3Com Hubs
  - 3Com Routers
  - 3Com Switches
- AFL Switches
- Al Switches

Hardware Report

Generated on Sep 03 2010 18:24:39 Pacific Daylight Time (GMT -07:00:00)

<table>
<thead>
<tr>
<th>Device Name</th>
<th>Installed At</th>
<th>System Description</th>
<th>Location</th>
<th>Contact</th>
<th>Serial Number</th>
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<td>H3C CLOWN Platform Software Closware Software Version 6.2.0 Beta 1.04, Standard H3C Series Router MSR26-40 Copyright(c)2004-2008 Hangzhou H3C Technology Co., Ltd.</td>
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<td>3Com Corporation</td>
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</table>
Summary and Key Takeaways

CiscoWorks LMS provides an end-to-end suite of functionality for managing Borderless Networks end-to-end that improves network availability while lowering Operational Expenditures.

LMS 4.0 is a significant new release that introduces major improvements in usability simplifying the deployment and day-to-day management of Cisco platforms and technologies:

- Intuitive user experience via functional partitioning aligned with the way operators do their job.
- Out-of-the-box monitoring, troubleshooting and configuration templates provides immediate value.
- WorkCenters simplify the deployment and management of Cisco technologies.
Cisco Advanced Services provides complete architecture, design, deployment and optimization services to efficiently deploy LMS 4.0 to meet your needs and quickly get you up and running.

**Network Management Architecture** Review & Roadmap assures necessary tools in place to operate Cisco technologies.

**Design Services** prescribe how LMS 4.0 can be deployed to meet your organization and business requirements.

**Build Services** efficiently deploy LMS 4.0 so you’re up and running quickly.

**Optimization Services** provide ongoing recommendations and support in maintaining your LMS 4.0 investment.
Q & A
For More Information

External Links:

LMS Portal: http://www.cisco.com/go/lms
LMS Evaluation: http://www.cisco.com/go/nmsevals
YouTube link: http://www.youtube.com/ciscoworkslms
More Webinars: http://www.cisco.com/web/learning/le31/le46/nmtg_training/LMS_4.0_Webinar_Series_External_Schedule.htm

Resources:
To enroll in the CiscoWorks Customer Intimacy program send an email to: ask-lms-team@cisco.com