



Changes in Campus Manager 4.0

This appendix provides information about the changes in Campus Manager 4.0 compared to Campus Manager 3.3.

Changes and Enhancements

Campus Manager 4.0 focuses on delivering management support for new Layer2 technologies. It is built on Common Services 3.0 and is a part of the LMS 2.5 bundle release. In this release, the major change on the server side architecture is the refactoring of ANI server. On the client side, the User Tracking application has been redesigned and now appears with a new look and feel.

The changes and enhancements in Campus Manager 4.0, vis-a-vis the earlier releases, are:

- ANI re-factoring for performance and scalability improvements

In the previous versions of Campus Manager application, ANI was running as a single process to perform device discovery, device data collection, user tracking, and servicing query and configuration from clients.

To enable ANI to scale better for larger networks, separate transient processes for data collection engines and a daemon process for servicing query and configuration for clients are being run now.

Campus Manager 4.0 has:

- ANIServer process as a daemon
- Transient Device Discovery process

- Transient UT Major acquisition

The device data collection, query and configuration service continue to be performed in the continuously running ANIServer process.

- Network Discovery

You can:

- Provide seed devices (From the Seed Device page Campus Admin Page)
- Set the SNMP read credentials (From the SNMP setting page in Campus admin page)
- Run a discovery – (Run the discovery immediately or schedule to run it later)

The discovery process discovers devices and updates the Device Credential Repository (DCR) with the credentials for the devices.



Note

The devices discovery process updates only the DCR. Campus Manager cannot manage the devices until you run a Data Collection process.

- Data Collection

You can choose devices to be managed by Campus Manager from the devices in DCR, or through data collection filters (IP subnets or VTP domains)

- Support for SNMPv3

Campus Manager can discover devices configured with SNMPv3 credentials

- Support for IPv6

Campus Manager can discover IPv6, manage IPv4, and dual stack IPv6 devices

- Expanded support for VLAN and VTP, including PVLANS and VTPv3

- You can create a primary VLAN, a secondary VLAN of different types and associate it to a primary VLAN, assign or move ports to secondary VLANs, configure the promiscuous port, and create PVLAN mapping.
- You can verify the VTPv2 or VTPv3 related information for the devices managed by Campus Manager.
- You can apply VTP server filter, transparent filter, or client filter for VTPv2 or VTPv3 domains in Topology Maps.

- Support for MSTP/MISTP/PVST+
 - Support for different types of Spanning Tree Protocol - PVST, MST, MISTP
 - Ability to view the STP parameters on a per switch-cloud, per vlan or instance, per port basis
 - Ability to configure parameters on a per port, per device and also across devices
 - Ability to view / change the instance-to-VLAN mapping (for MST / MISTP)
 - Ability to configure preferred VLANs on trunk ports
 - Find the recommended optimal root for a switch cloud. Highlight the computed Optimal Root (switch) on Topology Map.
 - Find the recommendation for setting up the number of STP instances on a switch cloud. Highlight the recommended instances on the Map.
 - Find the recommendation for reduction of number of STP instances.
 - Highlight the instance to which the other instances can be merged.
 - Mapping a new VLAN to recommended instance.
 - Highlight the instance on the Map.
 - Ability to change certain STP parameters and view the result prior to applying the changes in the network
- Support for configuration of EtherChannels and Inter-VLAN routing
 - Configure multiple links between switches as EtherChannel.
 - Configure the EtherChannel load balancing parameters.
- Support for TDR
- Non Java based user interface for User Tracking application and Campus Manager Administration.
- User Tracking application that can run without the Java plug-in.
- Integration with Common Services 3.0 components like OGS, UII, Security/ACS, DCR, CW Homepage

- Trunking
 - Configuring a link between two switches as a trunk
 - Configuring the allowed and disallowed VLANs on a trunk

Navigation

The changes in the navigation for Campus Manager applications are described in the following tables:

- Administration
- User Tracking

Table D-1 Administration

Task	CM 3.3 Navigation	CM 4.0 Navigation
Device Discovery Settings	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > Discovery Settings	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Device Discovery > Discovery Settings
Data Collection Settings	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > Discovery Settings	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Campus Data Collection > Data Collection Filters

Table D-1 Administration (continued)

Task	CM 3.3 Navigation	CM 4.0 Navigation
SNMP Settings (Device Discovery)	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > SNMP Settings	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Campus Device Discovery > SNMP Settings
SNMP Settings (Campus Data Collection)	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > SNMP Settings	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Campus Data Collection > SNMP Timeouts and Retries
Device Discovery	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > Discovery Schedule	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration. The Campus Administration window appears. 2. Click Admin > Campus Data Collection > Data Collection Filters
Debugging Options	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > Debugging options	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Campus Data Collection > Debugging Options

Table D-1 Administration (continued)

Task	CM 3.3 Navigation	CM 4.0 Navigation
Scheduling Jobs for Path Analysis	Click Campus Manager > Administration > Job Schedule > Path Analysis	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Schedule Path Analysis
Group Administration	Click Campus Manager > Administration > Topology Groups	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration The Campus Administration window appears. 2. Click Admin > Groups
Discrepancies	Click Campus Manager > Administration > Network Discrepancies	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration. The Campus Administration window appears. 2. Click Admin > Network Discrepancy
Reports	Click Campus Manager > Server Configuration > Diagnostics > Discovery Metrics	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration. The Campus Administration window appears. 2. Click Reports tab
User Tracking Administration	Click Campus Manager > User Tracking	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking. The Campus User Tracking window appears. 2. Various User Tracking Administrative tasks can be performed from here.

Table D-2 User Tracking

Task	CM 3.3 Navigation	CM 4.0 Navigation
Report Startup Options	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Edit > Preferences 	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Report Jobs
Creating Layouts	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Layout > Add Layout 	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Custom Layouts
Creating Custom Reports	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Query > Simple Query 	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Custom Reports
Scheduling User Tracking Jobs	<ol style="list-style-type: none"> 1. Click Campus Manager > Administration > Job Schedule > User Tracking 	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Reports > Report Generator
Different Modes of User Tracking Acquisition	Click Campus Manager > Server Configuration > Setup > ANI Server Admin > User and Host Acquisition	<ol style="list-style-type: none"> 1. Click Campus Manager > User Tracking The Campus User Tracking window appears. 2. Click Acquisition
User Tracking CLI options	At Command Prompt, Enter: # ut options <i>username password</i>	At Command Prompt, Enter: # ut options -u <i>username -p</i> <i>password</i>

