



About Campus Manager

Campus Manager is an integral component of the CiscoWorks family of products. As an enterprise solution to network management, Campus Manager provides a suite of web-based network management tools that enable administrators to obtain various types of graphical views of their network topology and end-user information. It also reports network inconsistencies, anomalies, and configuration errors in the discovered network.

Campus Manager provides support for Spanning-Tree protocols, a graphical tool for managing complex ATM networks, and a user friendly interface for creating, modifying, or deleting VLANs, LANEs, or assigning switch ports to VLANs. This application includes an operational and diagnostic tool that traces the Layer 2 and Layer 3 connectivity between two specified devices on the network.

Campus Manager is based on a client-server architecture that connects multiple web-based clients to a server on the network.

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Campus Manager Applications

Campus Manager applications provide network monitoring and fault information required to track devices. It also provides tools for configuring, managing, understanding, and visualizing the complex physical and logical Layer 2 infrastructure.

The Campus Manager applications and what they allow you to do are given below:

Application	Allows you to
Topology Services	<p>Manage, view, and monitor the physical and logical services on your network.</p> <p>For more details, see, Chapter 8, “Using Topology Services”.</p>
User Tracking	<p>Locate and display data about users and hosts in the network.</p> <p>For more details, see Chapter 6, “Tracking Users”.</p>
Path Analysis	<p>Trace and display Layer 2 and Layer 3 path direction, devices, and link types in your network, using User Tracking, Topology Services, and real-time Spanning Tree information to determine the connectivity.</p> <p>For more details, see Chapter 13, “Path Analysis”.</p>
Managing VLANs and VTP	<p>Assign VLAN to ports, display VLAN ports, or configure trunk ports, Create PVLAN, Delete PVLAN, Configure Promiscuous Ports.</p> <p>For more details, see Chapter 9, “Managing VLANs and VTP”.</p>
Discrepancy Reporting	<p>View the physical and logical discrepancies discovered on your network.</p> <p>For more details, see Chapter 7, “Discrepancy Reporting”.</p>

About Campus Manager Server

The Campus Manager Server provides:

- Device and physical topology discovery, logical discovery (VLAN and LANE), user discovery, and path determination.
- Different discovery timebases: global, status polling, and user acquisition.
- Interfaces for VLAN, LANE, and ATM configurations.

Campus Manager server discovers different types of information about your network. Detailed information is built upon baseline information.

Device discovery begins with an initial seed device or devices that you provide. It discovers the entire network using neighbor discovery protocols.

Most Cisco devices implement one or more of these standard neighbor discovery protocols:

- CDP (Cisco Discovery Protocol)—Used on Ethernet networks.
- ILMI (Integrated Local Management Interface)—Used on ATM networks.

The server sends SNMP requests to the devices to query their neighbor tables. These neighbor entries are processed to check whether the neighbor is a known device or a new, undiscovered device. New neighbors are queued for later processing by an available discovery thread.

Before Campus Manager 4.0, Asynchronous Network Interface (ANI) server process, was a single process to perform ANI discovery, user tracking, servicing query and configuration from clients.

To improve the server performance and to handle larger networks, ANI process has been separated into transient processes for device discovery and User Tracking Major Acquisition.

