Models

HP Networking DCM Controller	J9445A

Key features

- Provides policy-based automated provisioning
- Dynamically configures network and servers
- Formalizes role-based workflow processes
- Maintains connections for virtual machines
- Simplifies troubleshooting and compliance

Product overview

The HP Networking DCM Controller is a software appliance designed to formalize the workflow process between network and server IT teams for application provisioning, as well as to help organizations control costs by providing policy-based automation of networking and server resources in the data center. HP Networking DCM Controller maintains policy connection states for physical as well as virtual servers wherever they connect in the data center and provides detailed compliance information linking applications to their infrastructure dependencies. DCM Controller is standards based and enables better capacity management and troubleshooting through the use of a connection inventory database.

Features and Benefits

Data center optimized

- **Automated policy-based provisioning**: DCM Controller automates the provisioning of resources in the data center, including servers, edge network, and core network devices based on predefined connection policies.
- **Formalizes data center workflow activities**:
  - DCM Controller automates and formalizes workflow process: Network and server IT teams utilize a specialized GUI for application and server provisioning activities.
  - Eliminates repetitive, manual provisioning processes: Servers can be deployed without waiting for a network service request.
  - Enables easy capacity management: DCM Controller's Connection Inventory provides an instant view of available connections and maintains status on subscribed connections.
- **Virtualization-compatible policies**: Policies follow virtual machines (VMs) and servers dynamically if they move from port to port or switch to switch, without requiring manual intervention.
- **Eases troubleshooting and compliance in a virtualized environment**:
  - Links VMs to physical infrastructure: Creates an authoritative, single source for linking network topology and configuration to servers and VMs.
  - Maintains state of server and VM connections: Allows network administrators to document, define, and check server connection policies for status and compliance.

Management

- **Remote configuration and management**: Provided through a secure Web browser interface.
- **Network, server, and operator privilege levels**: Different types of administrators are granted different access levels depending on requirements and job-specific activities. Operator allows read-only access to the Connection Inventory for compliance and troubleshooting.
- **HP PCM**: provides central management through HP PCM+ for discovery, logging, and status management

Overview

- **Flexible logging and messaging engine for administrator communications**: DCM Controller can communicate logging information and state changes of connections in the database via e-mail, SNMP, syslog, or through script calls to HP Network Automation software (formerly Opsware).

Device support

- **Supports multivendor equipment configuration**:
  - ○ Configures edge switches: any standards-based, RADIUS-compliant edge switch can be configured by DCM Controller policies.
  - ○ Configures servers and VMs: DCM ONE policies can manage network and IP settings for any standards-based server or VM.
  - ○ Configures centralized data center devices: Used with HP Network Automation software, DCM Controller policies can affect changes on a wide range of data center devices, including load-balancers and firewalls.

Product Architecture

- **Flexible data structure**: Policies are defined using a flexible data structure that easily maps to existing organizational structures and roles and responsibilities.
- **Pod-based data structure design**: DCM Controller utilizes a pod-based data structure that allows it to flexibly map policy structure to logical boundaries in data centers, from physical rack-based pods or departmental boundaries to organizational-level pods in an outsourcing environment.
- **Integration with HP Network Automation software** (HP NAS): As part of its connection policies, DCM Controller can call specific HP NAS scripts to automate the configuration of centralized data center devices. Script calls can be made based on state changes in the database of individual connections.

Technical features

- **RADIUS-based policy enforcement**: RADIUS-based authentication of servers and VMs when they connect provides consistent policy delivery anywhere in the data center. Configuration parameters are delivered to the edge device through standard RADIUS attributes.
- **IEEE 802.1X and MAC authentication identification**: Servers and VMs are identified and associated with a connection policy in DCM Controller when they connect to the network through an IEEE 802.1X token or by transparent MAC authentication. MAC authentication does not require any client-side software or action in order to participate in DCM Controller's provisioning automation.
- **Flexible DHCP configuration options**: As part of the automation process, DCM Controller performs flexible Dynamic Host Configuration Protocol (DHCP) operations that can match existing processes for server addressing. DCM Controller supports fully manual or automated addressing options when configuring connection policies.
- **Dynamic MAC addressing options**: Servers are associated to DCM Controller's connection policies through MAC identification. DCM Controller provides extensive options for configuring MAC addresses as part of connection policies, from fully dynamic and automated by DCM Controller to manually entered addresses when the server in provisioned.

Warranty and support

- **Warranty**: lifetime warranty with the exception of the hard disk which has a 5-year warranty: for as long as you own the product, with next-business-day advance replacement (available in most countries)
- **Electronic and telephone support**: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **Software releases**: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

Technical Specifications

HP Networking DCM Controller (J9445A)

Ports	2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	
	1 serial console port	
Physical characteristics	Dimensions	15.38(d) x 17.32(w) x 1.75(h) in. (39.07 x 43.99 x 4.45 cm) (1U height)
	Weight	13.45 lb. (6.1 kg)
Memory and processor	Processor	Intel® Core™ 2 Duo @ 2130 MHz, 2 GB DDR2 SDRAM
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Environment	Operating temperature	41°F to 104°F (5°C to 40°C)
	Operating relative humidity	15% to 80%, noncondensing
	Nonoperating/Storage temperature	-40°F to 149°F (-40°C to 65°C)
Electrical characteristics	Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
	Voltage	100-127 / 200-240 VAC
	Current	2 / 1 A
	Maximum power rating	127 W
	Frequency	50 / 60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	CAN/CSA 22.2 No. 60950-1; IEC 60950-1; EN 60950-1	
Emissions	FCC part 15 Class A; EN 55022 Class A	
Immunity	EN	EN 55024, CISPR 24
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; Web browser	
Services	3-year, parts only, global next-day advance exchange (UH199E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UH196E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UH197E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UQ619E) 1-year, post-warranty, parts only, global next-day advance exchange (UH200PE) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (UH201PE) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (UH202PE) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UQ620PE) 3 Yr 6 hr Call-to-Repair Onsite (UW318E)	
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

Technical Specifications

To learn more, visit: www.hp.com/networking