



Cisco Cluster Management Suite (CMS) Software Features in Fixed-Configuration Catalyst Series Switches

This product bulletin describes the Cisco Cluster Management Suite (CMS) Software features available in the Cisco Catalyst® 3550, 2950, 3500 XL, 2900 XL, 2900 LRE XL, and 1900 switches. For additional information on the Cisco CMS Software, refer to the data sheet at http://www.cisco.com/en/US/products/hw/switches/ps628/products_data_sheet09186a00800913ce.html.

Table 1 Cisco Cluster Management Suite Software Features

CMS Feature	Description	Catalyst 3550	Catalyst 2950	Catalyst 2950 LRE	Catalyst 2900 XL / 3500 XL	Catalyst 2900 LRE XL	Catalyst 1900/2820
General							
Page Setup		Yes	Yes	Yes	Yes	Yes	No
Print Preview		Yes	Yes	Yes	Yes	Yes	No
Print		Yes	Yes	Yes	Yes	Yes	No
Guide ¹	Applies to specific tasks as noted	Yes	Yes	Yes	Yes	Yes	No
Expert ¹	Applies to specific tasks as noted	Yes	Yes	Yes	Yes	Yes	No
Preferences		Yes	Yes	Yes	Yes	Yes	No
Save User Setting	Save table adjustments automatically	Yes	Yes	No	No	No	No
Administration							
SNMP		Yes	Yes	Yes	Yes	Yes	Yes
System Time	Includes NTP	Yes	Yes	Yes	Yes	Yes	No
HTTP Port		12.1(4)EA1	12.1(6)EA2	Yes	12.0(5)WC3	Yes ²	Yes ²
Console Baud Rate		Yes	Yes	Yes	Yes	Yes	Yes
Save Configuration ¹		Yes	Yes	Yes	Yes	Yes	No
Restore Configuration ¹		12.1(11)EA1	12.1(11)EA1	Yes	Yes	Yes	No
Software Upgrade ¹	Upgrade all devices with a selected Cisco IOS® image	Yes	Yes	Yes	Yes	Yes	Yes

Table 1 Cisco Cluster Management Suite Software Features (Continued)

CMS Feature	Description	Catalyst 3550	Catalyst 2950	Catalyst 2950 LRE	Catalyst 2900 XL / 3500 XL	Catalyst 2900 LRE XL	Catalyst 1900/2820
LRE Software Upgrade	Includes patch upgrade	No	No	12.1(11)X	No	12.1(5)WC6	No
System Reload ¹		Yes	Yes	Yes	Yes	Yes	Yes
Event Notification		12.1(11)EA1	12.1(11)EA1	Yes	Yes	Yes	No
Device Manager ²		Yes	Yes	Yes	Yes	Yes	Yes
Host Name ¹		Yes	Yes	Yes	Yes	Yes	Yes
Clustering							
Create Cluster ^{1, 3}		Yes	Yes	Yes	Yes	Yes	No
Delete Cluster ^{1, 2}		Yes	Yes	Yes	Yes	Yes	No
Launch Cluster Manager ⁴		Yes	Yes	Yes	Yes	Yes	No
Add To Cluster ^{1, 2}	Manage cluster membership	Yes	Yes	Yes	Yes	Yes	Yes
Remove From Cluster ^{1, 2}	Manage cluster membership	Yes	Yes	Yes	Yes	Yes	Yes
Standby Command Switches ²	Cluster Commander Standby (not HSRP)	Yes	Yes	Yes	Yes	Yes	No
Hop Count ²		Yes	Yes	Yes	Yes	Yes	Yes
QoS							
QoS > Enable/Disable		Yes	No	No	No	No	No
QoS > Trust Settings		Yes	12.1(6)EA2-EI	No	No	No	No
QoS > Queues		Yes	Yes	No	No	No	No
QoS > Maps		Yes	12.1(6)EA2-EI	No	No	No	No
QoS > Classes ⁵		Yes	12.1(6)EA2-EI	No	No	No	No
QoS > Aggregate Policers ⁵		Yes	No	No	No	No	No
QoS > Policies ⁵		Yes	12.1(6)EA2-EI	No	No	No	No
QoS > Statistics		Yes	No	No	No	No	No
Per Port Per VLAN Policing		EMI	No	No	No	No	No
Wizards							
AVVID Wizards > Voice ¹		12.1(8)EA1	12.1(6)EA2-EI	No	No	No	No
AVVID Wizards > Video ¹		12.1(8)EA1	12.1(6)EA2-EI	No	No	No	No
AVVID Wizards > Data ¹		12.1(8)EA1	12.1(6)EA2-EI	No	No	No	No

Table 1 Cisco Cluster Management Suite Software Features (Continued)

CMS Feature	Description	Catalyst 3550	Catalyst 2950	Catalyst 2950 LRE	Catalyst 2900 XL / 3500 XL	Catalyst 2900 LRE XL	Catalyst 1900/2820
Security Wizard ¹		12.1(8)EA1	12.1(6)EA2-EI	No	No	No	No
Layer 2							
MAC Addresses	Static, Dynamic, Secure	Yes	Yes	Yes	Yes	Yes	No
ARP		Yes	Yes	Yes	Yes	Yes	No
CGMP Client		No	No	Yes	Yes	Yes	No
IGMP Snooping		Yes	Yes	No	No	No	No
EtherChannels	Include PAgP	Yes	Yes	Yes	Yes	Yes	No
SPAN		Yes	Yes	Yes	Yes	Yes	No
Fallback Bridging		12.1(4)EA1-EMI	No	No	No	No	No
Flooding Control		Yes	Yes	Yes	Yes	Yes	No
LRE Profiles		No	No	Yes	No	Yes	No
LRE Rate Selection		No	No	12.1(11)YJ	No	12.1(5)WC5	No
Port Settings	Speed, Duplex, Status, Port Fast, Flow Control	Yes	Yes	Yes	Yes	Yes	Yes
Layer 3							
IP Addresses...		Yes	Yes	Yes	Yes	Yes	No
IP Routing > Enable/Disable		12.1(12c)EA1	No	No	No	No	No
IP Routing > Protocols ⁵	RIP, IGRP, EIGRP, OSPF	12.1(4)EA1-EMI/ 12.1(11)EA1	No	No	No	No	No
IP Multicast Wizard ¹		12.1(4)EA1-EMI	No	No	No	No	No
IP Multicast Routing	PIM	12.1(4)EA1-EMI	No	No	No	No	No
CGMP Server		EMI	No	Yes	Yes	Yes	No
Router Redundancy	HSRP	12.1(4)EA1-EMI	No	No	No	No	No
Security							
Protected Port		Yes	Yes	Yes	Yes	Yes	No
Port Security		Yes	Yes	Yes	Yes	Yes	No
802.1X ¹		Yes	Yes	No	No	No	No
ACL ⁵	Standard, Extended. RACL/PACL depend on attached interface.	Yes	12.1(6)EA2-EI	No	No	No	No
DSCP Filtering		12.1(4)EA1	12.1(11)EA1-EI	12.1(12)X	No	No	No

Table 1 Cisco Cluster Management Suite Software Features (Continued)

CMS Feature	Description	Catalyst 3550	Catalyst 2950	Catalyst 2950 LRE	Catalyst 2900 XL / 3500 XL	Catalyst 2900 LRE XL	Catalyst 1900/2820
Time Based ACL		12.1(11)EA1	12.1(11)EA1-EI	12.1(12)X	No	No	No
VLAN Maps	VACL	Yes	No	No	No	No	No
Users and Passwords ¹		12.1(11)EA1	12.1(11)EA1	Yes	Yes	Yes	No
Virtual LAN (VLAN) and Spanning-Tree Protocol							
VLAN ⁵		Yes	Yes	Yes	Yes	Yes	No
DTP		12.1(4)EA1	12.1(6)EA2	12.1(6)EA2	No	No	No
VTP		Yes	Yes	Yes	Yes	Yes	No
VMPS		Yes	Yes	Yes	Yes	Yes	No
Management VLAN		No	Yes	Yes	Yes	Yes	No
Voice VLAN		12.1(9)EA1	12.1(9)EA1	Yes	Yes	Yes	No
Spanning-Tree Protocol	UplinkFast, BackboneFast, Root Guard, BPDU Guard	Yes	Yes	Yes	Yes	Yes	No
Reports							
Port Search		Yes	Yes	Yes	Yes	Yes	Yes
Inventory		Yes	Yes	Yes	Yes	Yes	Yes
Port Statistics		Yes	Yes	Yes	Yes	Yes	No
Bandwidth Graph		Yes	Yes	Yes	Yes	Yes	No
Link Graph		Yes	Yes	Yes	Yes	Yes	No
Link Reports		Yes	Yes	Yes	Yes	Yes	No
QoS Reports	Data varies over platform	Yes	No	No	No	No	No
QoS Graphs		Yes	No	No	No	No	No
ACL Reports		12.1(12c)EA1	No	No	No	No	No
Router Reports	Routing Table and HSRP Groups	12.1(4)EA1-EMI	No	No	No	No	No
Multicast > IGMP		12.1(12c)EA1	12.1(12c)EA1	12.1	No	No	No
Multicast > Statistics	Data varies over platform	12.1(12c)EA1	No	No	No	No	No
Fallback Bridging		12.1(4)EA1-EMI	No	No	No	No	No
System Messages	Syslog	Yes	Yes	Yes	Yes	Yes	No
Resource Monitor	Displays mask usage for ACLs	No	12.1(6)EA2-EI	No	No	No	No
Save and Export Graphs		Yes	Yes	No	No	No	No

Table 1 Cisco Cluster Management Suite Software Features (Continued)

CMS Feature	Description	Catalyst 3550	Catalyst 2950	Catalyst 2950 LRE	Catalyst 2900 XL / 3500 XL	Catalyst 2900 LRE XL	Catalyst 1900/2820
Tools							
L3 Trace		12.1(12c)EA1	12.1(12c)EA1	No	No	No	No
L2 Trace		12.1(12c)EA1	12.1(12c)EA1	No	No	No	No
Ping		12.1(12c)EA1	12.1(12c)EA1	No	No	No	No
Views							
Front Panel		Yes	Yes	Yes	Yes	Yes	Yes
Topology ²		Yes	Yes	Yes	Yes	Yes	Yes
Automatic Topology Layout ²		Yes	Yes	Yes	Yes	Yes	Yes
Save Topology Layout ^{1, 2}		Yes	Yes	Yes	Yes	Yes	Yes
Topology Options ²		Yes	12.1(6)EA2	Yes	Yes	Yes	Yes
Help							
Overview		Yes	Yes	Yes	Yes	Yes	Yes
What's New?		Yes	Yes	Yes	Yes	Yes	Yes
Help For Active Window		Yes	Yes	Yes	Yes	Yes	Yes
Contents		Yes	Yes	Yes	Yes	Yes	Yes
Legend		Yes	Yes	Yes	Yes	Yes	Yes
About		Yes	Yes	Yes	Yes	Yes	Yes

1. Not available in Read-Only model.
2. Only available in Cluster Management.
3. Only available in Device Manager of a non-cluster member.
4. Only available in Device Manager of a cluster member.
5. Supports Guide Mode.

The maximum cluster size is 16 devices.



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

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