

Cisco IP Solution Center 5.1

PB500664

Product Overview

Cisco announces the availability of Cisco[®] IP Solution Center (ISC) 5.1. Cisco IP Solution Center is a family of intelligent network management applications that help reduce overall network administration and management costs by providing automated resource management and rapid profile-based provisioning capabilities that help enable rapid deployment and fast time to market of Multiprotocol Label Switching (MPLS) and Carrier Ethernet technologies. Cisco IP Solution Center also helps reduce network operating costs by providing automated workflow-based troubleshooting and diagnostic capabilities for MPLS VPNs. The following applications can operate alone or as a suite:

- Cisco IP Solution Center MPLS VPN Management
- Cisco IP Solution Center L2 VPN and Carrier Ethernet Management
- Cisco IP Solution Center Traffic Engineering Management
- Cisco MPLS Diagnostics Expert: This product can be used on its own or together with Cisco IP Solution Center MPLS VPN Management

Cisco IP Solution Center's capabilities include provisioning and automated diagnostics¹ of MPLS VPNs, ATM/Frame Relay/Ethernet over MPLS VPNs, Carrier Ethernet VPNs, and planning and configuration of MPLS traffic engineering. Table 1 describes the features of Cisco IP Solution Center 5.1.

Table 1. Features of Cisco IP Solution Center 5.1

Feature	Description
Tracking of MPLS and Carrier Ethernet resources	Manages resources such as Border Gateway Protocol (BGP) autonomous system, regions, customers, customer sites, access domains, provider administrative domains, Virtual Route Forwarding (VRF) names, IP addresses, VLAN IDs, pseudowire virtual circuit IDs, route distinguishers, and route targets.
Rapid profile-based provisioning of MPLS and Carrier Ethernet VPNs	Allows service operators to define MPLS and Ethernet VPN provisioning parameters in a service policy; uploads the network element configuration to calculate the change in configuration needed to help ensure successful service activation.
Recognize incorrect service configuration and verify services before delivery	Provides postprovisioning validation of the service design in order to determine whether the Layer 3 and Layer 2 VPNs are active and functional. In addition, MPLS Diagnostic Expert can be used in association with MPLS provisioning to verify end-to-end service connectivity
Investment protection from Cisco IOS [®] Software and Cisco IOS XR Software and line card changes	Provides comprehensive platform and Cisco IOS Software and IOS XR Software support.
Bandwidth protection and Fast Re-route (FRR) planning	The Traffic Engineering Management application identifies placement of FRR backup tunnels to protect critical network elements. Installs backup tunnels to protect against link, node, or Shared Risk Link Group (SRLG) failures.
MPLS traffic engineering tunnel placement, repair, and network grooming	Generates MPLS traffic engineering tunnel paths that meet user-specified constraints, including bandwidth, affinity, and delay, and proposes fixes to meet user-specified constraints for new tunnel demands. Global reoptimization of primary tunnel placements improves network utilization.

¹ Automated diagnostics features are not available for Layer 2 and Carrier Ethernet VPNs in Cisco IP Solution Center as of today.

Automated workflow-based troubleshooting and diagnostics of MPLS VPN deployments	The diagnostics performed by Cisco MPLS Diagnostics Expert are based upon analysis of network failure scenarios, across MPLS access, edge, and core.
Carrier-grade infrastructure for large deployments	Provides the following system features: <ul style="list-style-type: none"> • Sun/Solaris-based server installation • Thin web multiuser GUI client • Role-based access control (RBAC) • Extensible Markup Language (XML) over HTTP northbound interface • Data backup and restore
Integration features and extensions	ISC has a standards-based API supporting OSS integration and inherent reporting facilities for MPLS and Layer 2 VPNs ISC also has an integrated Template Engine, which allows custom extensions to the native service policies.

New Features

The following list shows the key new features and updates of Cisco IP Solution Center 5.1:

- Cisco IOS XR Software 3.7.0 support across all Cisco ISC modules.
- Layer 2 VPN enhancements: Support for Ethernet Virtual Circuit (EVC) provisioning on the ES20 and the SPA Interface Processor-400 (SIP-400), version 2, line cards. This new enhancement is supported for Cisco 7600 series routers running on Cisco IOS Software 12.2(33) SRB and later. Other Layer 2 VPN enhancements include supporting local switching on E-line and port mode connections for ATM over MPLS for Cisco IOS XR Software.
- Layer 3 VPN enhancements: Additional capability to match the Q-in-Q second VLAN on the provider edge interface.
- Traffic Engineering Management (TEM) enhancements:
 - MPLS IP configuration on a per tunnel basis
 - Supports multiple Open Shortest Path First (OSPF) areas, including Area Border Routers (ABRs)
 - Allows multiple concurrent users
 - Policy-Based Tunnel Selection (PBTS) for Cisco IOS XR Software routers
 - Allows removal of traffic engineering links from ISC repository
- Template Manager enhancements:
 - Dynamic instantiation of templates based on device attributes: “Super templates” calling device-specific “subtemplates”
 - Template and data file association with service policy
 - Deletion validation checks for “in use” data files before deletion
 - Role-based access control (RBAC) support for templates and data files

Upgrade Paths

Cisco IP Solution Center 3.x and 4.x and Cisco VPN Solution Center customers are encouraged to migrate to Cisco IP Solution Center 5.1. The following paragraphs outline the upgrade paths for existing Cisco IP Solution Center and Cisco VPN Solution Center customers:

- All existing Cisco IP Solution Center 3.x and 4.x customers can purchase an update kit for a fee by contacting their Cisco sales representatives. See Table 9 below for ordering information.
- Existing ISC 5.0 customers with a Software Application Support SAS contract can order an update kit for ISC 5.1 through the Cisco Product Upgrade Tool at <http://www.cisco.com/upgrade>. See Table 10 below for ordering information.
- Existing ISC 5.0 customers without an SAS contract can purchase an update kit for a fee by contacting their Cisco sales representatives. See Table 11 below ordering information
- Customers with Cisco MDE 2.0, or 2.1 with ISC 5.0, and with a current Software Application Support (SAS) contract can order an update kit for MDE 2.1 through the Cisco Product Upgrade Tool at <http://www.cisco.com/upgrade>. See Table 10 below for ordering information. Customers without an SAS contract, or customers with Cisco MDE 1.x, can purchase an update kit for a fee. See Table 9 below for ordering information.

Availability

Cisco IP Solution Center 5.1 and associated minor release update kits will begin shipping on December 5, 2008. Customers can order these new products through normal Cisco sales channels beginning November 21, 2008. To place an order, visit the [Cisco Ordering Homepage](#).

Ordering Information

Tables 2 through 11 provide ordering information for Cisco IP Solution Center 5.1 applications.

Note: For Cisco IP Solution Center MPLS VPN Management and L2 VPN Management, an activation license implies the maximum number of connections or attachment circuits to be managed by the application. For Traffic Engineering Management, each tier value implies the maximum number of traffic engineering-enabled routers to be managed by Cisco IP Solution Center Traffic Engineering Management.

Table 2. Cisco IP Solution Center 5.1 Entry Points and Combo Packages

Part Number	Description
BASE-ISC5.1-K9	Cisco ISC 5.1 CD Base Media (required for all new customers)
MPLS-ISC5.1-AP	ISC 5.1 MPLS Provisioning (Incl Ethernet Access) -Incl 200 AIs
L2-ISC5.1-AP	ISC 5.1 L2 Provisioning – Incl First 200 ALs Unless Already Installed
TEM-ISC5.1-20N-AP	ISC 5.1 Traffic Engineering Mgmt – Incl First 20 TE-Enabled Nodes
COMBO-ISC5.1-K9	ISC 5.1 MPLS, L2 VPN, TEM, MDE (Incl 500 AL/20 Nodes, CD)
MDE21-ISC51-K9	MDE v2.1 (In ISC 5.1 family) Starter Kit – Incl 200 A/Cs

Table 3. Cisco IP Solution Center 5.1 Application Programming Interfaces (APIs)

Part Number	Description
MPLS-L2-ISC5X-API	ISC 5.x MPLS VPN, L2/ME API Flow-Through Provisioning
COMBO-ISC5X-API-R	API For MPLS, L2 Reporting Apps

Table 4. Cisco IP Solution Center 5.1 Activation License Tier Upgrades for MPLS and L2 VPN Management

Part Number	Description
TIER-ISC5X-1K	ISC 5.x Incr AL Upgrade To 1000 AL (From 200, 500 To 1000)
TIER-ISC5X-3K	ISC 5.x Upg From Current 1K To 3K AL (App To Upg 1500->3000)
TIER-ISC5X-6K	ISC 5.x Upgrade From Current 3K To 6K AL
TIER-ISC5X-10K	ISC 5.x Upgrade From Current 6K To 10K AL
TU-ISC5X-1K-INC	ISC 5.x 1K Incremental AL Upgrade Beyond 10K Attachments
TU-ISC5X-5K-INC	ISC 5.x 5K Incremental AL Upgrade Beyond 10K Attachments
TU-ISC5X-10K-INC	ISC 5.x 10K Incremental AL Upgrade Beyond 10K Attachments

Table 5. Cisco IP Solution Center 5.1 Activation License Tier Upgrades for TEM

Part Number	Description
TEM-ISC5X-50NTU	ISC 5.x TEM Upgrade From Current 20 To 50-Node AL
TEM-ISC5X-50N-INC	ISC 5.x TEM 50-Node Incremental Upgrade Beyond 50 Nodes

Table 6. Cisco MDE 2.x Activation License Tier Upgrades

Part Number	Description
MDE2X-ISC5X-500TU	MDE Upgrade from 200 to 500 Attachment Circuits
MDE2X-ISC5X-1KTU	MDE Upgrade from 500 to 1000 Attachment Circuits
MDE2X-ISC5X-3KTU	MDE Upgrade from 1000 to 3000 Attachment Circuits
MDE2X-ISC5X-6KTU	MDE Upgrade from 3000 to 6000 Attachment Circuits
MDE2X-ISC5X-10KTU	MDE Upgrade from 6000 to 10000 Attachment Circuits
MDE2X-ISC5X-1KIN	MDE 1K Attachment Circuit Increment Above 10K Circuits
MDE2X-ISC5X-5KIN	MDE 5K Attachment Circuit Increment Above 10K Circuits
MDE2X-ISC5X-10KIN	MDE 10K Attachment Circuit Increment Above 10K Circuits
MDE2X-ISC5X-50KIN	MDE 50K Attachment Circuit Increment Above 10K Circuits

Table 7. Cisco ISC 5.1/MDE 2.x Combined Attachment Activation Licenses

Part Number	Description
CISCMDE-5X-1KTU	ISC 5.x MDE 2.x 1K License (From 0, 200, 500 To 1000 A/Cs)
CISCMDE-5X-3KTU	ISC 5.x + MDE 2.x Upgrade From 1000 To 3000 AL
CISCMDE-5X-6KTU	ISC 5.x + MDE 2.x Upgrade From 3000 To 6000 AL
CISCMDE-5X-10KTU	ISC 5.x + MDE 2.x Upgrade From 6000 To 10000AL
CISCMDE-5X-1KINC	ISC 5.x + MDE 2.x: 1K A/C Increment Above 10K A/Cs
CISCMDE-5X-5KINC	ISC 5.x + MDE 2.x: 5K A/C Increment Above 10K A/Cs
CISCMDE-5X-10KINC	ISC 5.x + MDE 2.x: 10K A/C Increment Above 10K A/Cs
CISCMDE-5X-50KINC	ISC 5.x + MDE 2.x: 50K A/C Increment Above 10K A/Cs

Table 8. Cisco IP Solution Center 5.1 Backup and Lab Copies

Part Number	Description
ISC5X-BU-K9	ISC 5.x Backup Pack (Site Diversification License)
ISC5X-LAB-K9	ISC 5.x Lab/Test Combo License – Incl 25 ALs/10 Nodes)

Table 9. Cisco IP Solution Center Update Options from Cisco ISC 4.x to 5.1 or from Cisco MDE 2.0 to 2.1 for All Customers

Part Number	Description
ISC4-5.1UP-250K-K9	Upg To ISC 5.1 Apps For 4.x Customers With >100K-> 250K A/Cs
ISC4-5.1UP-100K-K9	Upg To ISC 5.1 Apps For 4.x Customers With >50K->100K A/Cs
ISC4-5.1-UP-50K-K9	Upg To ISC 5.1 Apps For 4.x Customers With >30K->50K A/Cs
ISC4-5.1-UP-30K-K9	Upg To ISC 5.1 Apps For 4.x Customers With >6K->30K A/Cs
ISC4-5.1-UP-6K-K9	Upg To ISC 5.1 Apps For 4.x Customers With >2K->6K A/Cs
ISC4-5.1-UP-2K-K9	Upg To ISC 5.1 Apps For 4.x Customers With Up To 2K A/Cs
MDE21-UPG-ISC51-K9	Upgrade From MDE 1.x, 2.0 to 2.1, For Customers NOT On SAS

Table 10. Cisco IP Solution Center Upgrade Options from Cisco ISC 5.0 to Cisco ISC 5.1 or from Cisco MDE 2.0 to 2.1 for Customers with an SAS Contract

Part Number	Description
ISC5.1-COMBO-SR-K9	ISC 5.1 Upg For ISC 5.0 COMBO Customer With SAS Contract
ISC5.1-MPLS-SR-K9	ISC 5.1 Upg For ISC 5.0 MPLS Customer With SAS Contract
ISC5.1-L2VPN-SR-K9	ISC 5.1 Upg For ISC 5.0 L2VPN Customer With SAS Contract
ISC5.1-TEM-SR-K9	ISC 5.1 Upg For ISC 5.0 TEM Customer With SAS Contract
MDE21-SR-ISC51-K9	Upgrade From MDE 2.0 to 2.1, For Customers With SAS Contract

Cisco IP Solution Center 5.0 customers with Cisco Software Application Support (SAS) contracts can request the minor update kits above from the Cisco Product Upgrade Tool at <http://www.cisco.com/upgrade>.

Table 11. Cisco IP Solution Center Upgrade Options from Cisco ISC 5.0 to Cisco ISC 5.1 for Customers without an SAS Contract

Part Number	Description
ISC5.1-COMBO-UP-K9	ISC 5.1 Upg For ISC 5.0 COMBO Customer Not On SAS Contract
ISC5.1-MPLS-UP-K9	ISC 5.1 Upg For ISC 5.0 MPLS Customer Not On SAS Contract
ISC5.1-L2VPN-UP-K9	ISC 5.1 Upg For ISC 5.0 L2VPN Customer Not On SAS Contract
ISC5.1-TEM-UP-K9	ISC 5.1 Upg For ISC 5.0 TEM Customer Not On SAS Contract

Technical support services are orderable on these products through the Cisco Software Application Support Programs. Service part numbers can be found on the Cisco online ordering tools and price lists.

For More Information

For more information about Cisco IP Solution Center, visit <http://www.cisco.com/go/isc>, contact your local account representative, or send an email to the product marketing group at isc-mktg@cisco.com.



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