

Cisco IP Solution Center 5.2

PB542807

Product Overview

Cisco announces the availability of Cisco® IP Solution Center (ISC) 5.2. 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 Layer 2 VPN and Carrier Ethernet Management
- Cisco® IP Solution Center Traffic Engineering Management
- Cisco® MPLS Diagnostics Expert (MDE): 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 5.2.

Table 1. Features of Cisco IP Solution Center 5.2

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.
Recognition of incorrect service configuration and verification of 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 Diagnostics 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 Reroute (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.
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.

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

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 5.2:

- Support is provided for Cisco IOS XR 3.6.2, Cisco IOS XR 3.7.0, and Cisco IOS XR 3.7.1 Software across each of the Cisco IP Solution Center applications.
- Layer 3 VPN enhancements:
 - Support for a remote 4-byte autonomous system number
 - Carrier supporting carrier now configurable on Cisco IOS XR for BGP
 - BGP neighbor send-community command now configurable on provider edge device for both Cisco IOS Software and Cisco IOS XR
 - Cisco IOS to Cisco IOS XR migration: Ability to migrate service requests from existing Cisco 12000 (GSR) Series provider edge devices running IOS to IOS XR
 - Feature enhancements introduced in ISC 4.3, BGP Multipath Configuration and eBGP Extensions, for Cisco IOS Software are now also supported on Cisco IOS XR devices for IPv6 and dual stacked services.
 - Multilink Frame Relay (MLFR) support: MLFR interfaces are now supported on Cisco IOS XR devices.
 - Multicast support for IPv6 on Cisco IOS XR provider edge devices running release 3.7.0 or later
 - Multiple IPv6 address configuration: ISC now supports multiple IPv6 addresses on the provider edge interface for Cisco IOS XR provider edge devices.
 - Supports the creation and modification of a new route distinguisher IP address format. The new format can be used within the Independent VRF, VRF Service Request, and MPLS VPN Service Request.
 - Additional redistribution routing control between Open Shortest Path First (OSPF) and BGP:
 - Ability to specify the OSPF route policy and route map names
 - Ability to redistribute OSPF internal and OSPF external routes into BGP by selecting keywords Internal, External, or both
 - Ability to set the number and track whether the number of OSPF process IDs, as service requests are provisioned, has been reached or exceeded on a Cisco IOS XR provider edge device
 - Support for the provisioning of eBGP Site of Origin command within Cisco IOS XR (already supported by ISC on Cisco IOS Software)
 - Supports additional BGP route group provisioning support:
 - Error message when the referenced external route group used in provisioning is not present on the device
 - Ability to specify the “in” and “out” fields for route policy and route map names providing additional route filtering control

- Traffic Engineering Management (TEM) enhancements: Northbound Interface support for the ISC Traffic Engineering Management features
- Infrastructure enhancements: Support for Configuration Engine 3.0 with the same level of ISC functionality as currently supported in Configuration Engine 2.0

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 5.2. 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 and ISC 5.1 customers with a Software Application Support (SAS) contract can order an update kit for ISC 5.2 through the Cisco Product Upgrade Tool at <http://www.cisco.com/upgrade>.
- Existing ISC 5.0 and ISC 5.1 customers without an SAS contract can purchase an update kit for a fee by contacting their Cisco sales representatives. See Table 10 below for ordering information.
- Customers with Cisco MPLS Diagnostics Expert (MDE 2.0 or 2.1 with ISC 5.x 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>. Customers without an SAS contract, or customers with Cisco MDE 1.x, can purchase an update kit for a fee. See Table 9 for ordering information.

Availability

Cisco IP Solution Center 5.2 and associated minor release update kits will begin shipping on June 25, 2009. Customers can order these new products through normal Cisco sales channels beginning June 17, 2009. To place an order, visit the [Cisco Ordering Homepage](#).

Ordering Information

Tables 2 through 10 provide ordering information for Cisco IP Solution Center 5.2 applications.

Note: For Cisco IP Solution Center MPLS VPN Management and Cisco IP Solution Center Layer 2 VPN and Carrier Ethernet Management 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 5.2 Entry Points and Combo Packages

Part Number	Description
BASE-ISC5.2-K9	Cisco ISC 5.2 CD Base Media (required for all new customers)
MPLS-ISC5.2-AP	ISC 5.2 MPLS Provisioning (Includes Ethernet Access) – Includes 200 Activation Licenses
L2-ISC5.2-AP	ISC 5.2 Layer 2 Provisioning – Includes First 200 Activation Licenses Unless Already Installed
TEM-ISC5.2-20N-AP	ISC 5.2 Traffic Engineering Management – Includes First 20 Traffic Engineering-Enabled Nodes
COMBO-ISC5.2-K9	ISC 5.2 MPLS, Layer 2 VPN, TEM, MDE (Includes 500 Activation Licenses/20 Nodes, CD)
MDE21-ISC52-K9	MDE 2.1 (In ISC 5.2 family) Starter Kit – Includes 200 Attachment Circuits

Table 3. Cisco IP Solution Center 5.2 APIs

Part Number	Description
MPLS-L2-ISC5X-API	ISC 5.x MPLS VPN, Layer 2/Metro Ethernet API Flow-Through Provisioning
COMBO-ISC5X-API-R	API for MPLS, Layer 2 Reporting Applications
TEM-ISC52-API	API for Traffic Engineering

Table 4. Cisco IP Solution Center 5.2 Activation License Tier Upgrades for MPLS and Layer 2 VPN Management

Part Number	Description
TIER-ISC5X-1K	ISC 5.x Increases Activation License Upgrade to 1000 Activation Licenses (From 200, 500 to 1000)
TIER-ISC5X-3K	ISC 5.x Upgrade from Current 1000 to 3000 Activation Licenses (Applies to Upgrade from 1500 to 3000 Activation Licenses)
TIER-ISC5X-6K	ISC 5.x Upgrade from Current 3000 to 6000 Activation Licenses
TIER-ISC5X-10K	ISC 5.x Upgrade from Current 6000 to 10,000 Activation Licenses
TU-ISC5X-1K-INC	ISC 5.x 1000 Incremental Activation License Upgrade beyond 10,000 Attachments
TU-ISC5X-5K-INC	ISC 5.x 5000 Incremental Activation License Upgrade beyond 10,000 Attachments
TU-ISC5X-10K-INC	ISC 5.x 10,000 Incremental Activation License Upgrade beyond 10,000 Attachments

Table 5. Cisco IP Solution Center 5.2 Activation License Tier Upgrades for TEM

Part Number	Description
TEM-ISC5X-50NTU	ISC 5.x TEM Upgrade from Current 20- to 50-Node Activation License
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 10,000 Attachment Circuits
MDE2X-ISC5X-1KIN	MDE 1000 Attachment Circuit Increment Above 10,000 Circuits
MDE2X-ISC5X-5KIN	MDE 5000 Attachment Circuit Increment Above 10,000 Circuits
MDE2X-ISC5X-10KIN	MDE 10,000 Attachment Circuit Increment Above 10,000 Circuits
MDE2X-ISC5X-50KIN	MDE 50,000 Attachment Circuit Increment Above 10,000 Circuits

Table 7. Cisco ISC 5.2/MDE 2.x Combined Attachment Activation Licenses

Part Number	Description
CISCMD-5X-1KTU	ISC 5.x and MDE 2.x 1000 License (from 0, 200, 500 to 1000 Attachment Circuits)
CISCMD-5X-3KTU	ISC 5.x and MDE 2.x Upgrade from 1000 to 3000 Activation Licenses
CISCMD-5X-6KTU	ISC 5.x and MDE 2.x Upgrade from 3000 to 6000 Activation Licenses
CISCMD-5X-10KTU	ISC 5.x and MDE 2.x Upgrade from 6000 to 10,000 Activation Licenses
CISCMD-5X-1KINC	ISC 5.x and MDE 2.x: 1000 Attachment Circuits Increment above 10,000 Attachment Circuits
CISCMD-5X-5KINC	ISC 5.x and MDE 2.x: 5000 Attachment Circuits Increment above 10,000 Attachment Circuits
CISCMD-5X-10KINC	ISC 5.x and MDE 2.x: 10,000 Attachment Circuits Increment above 10,000 Attachment Circuits
CISCMD-5X-50KINC	ISC 5.x and MDE 2.x: 50,000 Attachment Circuits Increment above 10,000 Attachment Circuits

Table 8. Cisco IP Solution Center 5.2 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 – Includes 25 Activation Licenses/10 Nodes)

Table 9. Cisco IP Solution Center Update Options from Cisco ISC 4.x to 5.2 or from Cisco MDE 2.0 to 2.1 for All Customers

Part Number	Description
ISC4-5.2UP-250K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with from 100,000 to 250,000 Attachment Circuits
ISC4-5.2UP-100K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with from 50,000 to 100,000 Attachment Circuits
ISC4-5.2UP-50K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with from 30,000 to 50,000 Attachment Circuits
ISC4-5.2UP-30K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with from 6000 to 30,000 Attachment Circuits
ISC4-5.2UP-6K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with from 2000 to 6000 Attachment Circuits
ISC4-5.2UP-2K-K9	Upgrade to ISC 5.2 Applications for 4.x Customers with up to 2000 Attachment Circuits
MDE21-UPG-ISC52-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 5.2 for Customers without an SAS Contract

Part Number	Description
ISC5.X-5.2-UP-K9	ISC 5.2 Upgrade for ISC 5.X Customers

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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