

## Cisco IP Solution Center 4.2

PB379240

### Product Overview

Cisco® announces the availability of the Cisco IP Solution Center 4.2. 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 enable rapid deployment and fast time to market of Multiprotocol Label Switching (MPLS) and Metro 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 Metro 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 diagnostics<sup>1</sup> of MPLS VPNs, ATM/Frame Relay/Ethernet over MPLS VPNs, ATM/Frame Relay transport over Layer 2 Tunneling Protocol v3 (L2TPv3) VPNs, Metro Ethernet VPNs, and planning and configuration of MPLS Traffic Engineering (MPLS-TE). Table 1 describes the features of Cisco IP Solution Center 4.2.

**Table 1.** Features of Cisco IP Solution Center 4.2

Feature	Description
<b>Tracking of Layer 3 and Layer 2 resources</b>	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.
<b>Rapid profile-based provisioning</b>	Allows service operators to define Layer 3 and Layer 2 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.
<b>Autodiscovery of Layer 3 VPN and Layer 2 VPN services</b>	Cisco IP Solution Center can discover Layer 3 VPN and Layer 2 VPN services that were configured prior to activation of Cisco IP Solution Center on the service provider's network.
<b>Recognize incorrect service configuration</b>	Provides post-provisioning validation of the service design in order to determine whether the Layer 3 and Layer 2 VPNs are active and functional.
<b>Investment protection from Cisco IOS® Software and line card changes</b>	Provides comprehensive platform and Cisco IOS Software support.
<b>Bandwidth protection planning</b>	Identifies placement of Fast Reroute (FRR) backup tunnels to protect critical network elements. Installs backup tunnels to protect against link, node, or Shared Risk Link Group (SRLG) failures.

<sup>1</sup> Automated diagnostics features are not available for Layer 2 and Metro Ethernet VPNs in Cisco IP Solution Center today.

<b>MPLS-TE Tunnel Placement, Repair, and Network Grooming</b>	Generates MPLS- TE 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.
<b>Automated workflow-based troubleshooting and diagnostics of MPLS VPN deployments</b>	The diagnostics performed by Cisco MPLS Diagnostics Expert are based upon analysis of network failure scenarios, across MPLS access, edge, and core.
<b>Carrier-grade infrastructure for large deployments</b>	Provides the following system features: <ul style="list-style-type: none"> <li>• Four-tiered distributed architecture</li> <li>• Thin Web GUI client</li> <li>• Role-based access control (RBAC)</li> <li>• Extensible Markup Language (XML) over HTTP northbound interface</li> <li>• Data backup and restore</li> </ul>

## New Features

The following list shows the key new features and updates of Cisco IP Solution Center 4.2.

- Cisco MPLS Diagnostics Expert 2.0—Cisco MPLS Diagnostics Expert 2.0 provides a new set of automated diagnostics and troubleshooting capabilities of MPLS/BGP VPNs (edge, access, and core). Cisco MPLS Diagnostics Expert works with the Cisco IP Solution Center family of applications. It can be used on its own or together with Cisco IP Solution Center MPLS VPN Management. For more information, check the Cisco MPLS Diagnostics Expert 2.0 product bulletin at <http://www.cisco.com/go/mde>.
- Cisco IP Solution Center 4.2 is based on Cisco IP Solution Center 4.1 with the addition of new and changed information that was introduced in Cisco IP Solution Center 4.1.1, 4.1.2, and 4.2 and in problems fixed since Cisco IP Solution Center 4.1. A complete list of updates is available in the Cisco IP Solution Center 4.2 Release Notes.

## Upgrade Paths

Cisco IP Solution Center 3.x, 4.0, 4.1, and Cisco VPN Solution Center customers are encouraged to migrate to Cisco IP Solution Center 4.2. The following paragraphs outline the upgrade paths for existing Cisco IP Solution Center and VPN Solution Center customers.

- Existing Cisco IP Solution Center 4.0 and 4.1 MPLS VPN, L2 VPN, and Traffic Engineering Management customers with a current Software Application Support (SAS) contract can order an update kit through the Cisco Product Upgrade Tool in <http://www.cisco.com/go/mde>. See Table 12 for ordering information. Customers without an SAS contract can purchase an update kit for a fee. See Table 13 for ordering information.
- Existing Cisco IP Solution Center 3.x MPLS VPN and L2 VPN customers can purchase an update kit for a fee by contacting their Cisco sales representatives. See Table 11 for ordering information.
- Existing Cisco IP Solution Center 3.x Security Management customers should not upgrade to Cisco IP Solution Center 4.2. The Cisco IP Solution Center 3.x Security Management product is currently supported only in the 3.x product branch.

## Availability

Cisco IP Solution Center 4.2 and associated minor release update kits will begin shipping on November 28, 2006. Customers can order these new products through normal Cisco sales channels beginning November 15, 2006. To place an order, visit the [Cisco Ordering Home Page](#).

## Ordering Information

Tables 2 through 13 provide ordering information for Cisco IP Solution Center 4.2 applications. Note that some Cisco IP Solution Center 4.1 part numbers are being reused in the Cisco IP Solution Center 4.2 release. Customers will be able to use the Cisco IP Solution Center 4.1 right-to-use (RTU) licenses in their Cisco IP Solution Center 4.2 installation.

Note that for Cisco IP Solution Center MPLS VPN and L2 VPN, 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 TE-enabled routers to be managed by Cisco IP Solution Center Traffic Engineering Management (TEM).

**Table 2.** Cisco IP Solution Center 4.2 Entry Points and Combo Packages

Part Number	Description
<b>ENTRY-ISC4.2-K9</b>	Cisco IP Solution Center 4.2, MPLS and Layer 2 Ethernet Access Entry Bundle (including 200 activation licenses)
<b>COMBO-ISC4.2-K9</b>	Cisco IP Solution Center 4.2 MPLS, L2 VPN, TEM, CMDE Combo Bundle (including 500 activation licenses/20 nodes)

**Table 3.** Cisco IP Solution Center 4.2 Options for Entry Points and Combo Packages

Part Number	Description
<b>MDE2.0-ISC4.2-AP</b>	Cisco MPLS Diagnostics Expert 2.0 application option for entry bundle (including 200 activation licenses)
<b>TEM-ISC4.2-20N-AP</b>	Cisco IP Solution Center 4.2 TEM application option for entry bundle (including 20 nodes)
<b>ENTRY-ISC-500TU</b>	Cisco IP Solution Center 4.2 MPLS/L2 VPN Activation License Upgrade for entry bundle (including 200 to 500 activation licenses upgrade)
<b>ENTRY-ISC-1000TU</b>	Cisco IP Solution Center 4.2 Entry Bundle Upgrade to Service Providers model (including L2 VPN and 500 to 1000 TU)
<b>ENTRY-MDE-500TU</b>	Cisco MPLS Diagnostics Expert 2.0 Upgrade from 500 to 1000 attachment circuits
<b>COMBO-MVLV-1K-UP</b>	Activation Upgrade from Cisco IP Solution Center 4.2 Combo Bundle to Service Providers model for MPLS VPN and L2 VPN (including 1000 activation licenses for MPLS VPN/L2 VPN)
<b>COMBO-TEM-50N-UP</b>	Activation Upgrade from Cisco IP Solution Center 4.2 Combo Bundle to Service Providers model for TEM (including 50 nodes)
<b>MDE20-ISC42-1KTU</b>	Cisco MPLS Diagnostics Expert 2.0 Upgrade from 500 to 1000 attachment circuits

**Table 4.** Cisco IP Solution Center 4.2 Applications Media Kit for Service Providers

Part Number	Description
<b>BASE-ISC4.2-K9</b>	Cisco IP Solution Center 4.2 CD Base Media (required for new customers)
<b>MPLS-ISC4.2-APP</b>	Cisco IP Solution Center 4.2 MPLS VPN Business Services Application Kit (does not include activation licenses)
<b>L2VPN-ISC4.2-APP</b>	Cisco IP Solution Center 4.2 L2 VPN Business Services Application Kit (does not include activation licenses)
<b>TEM-ISC4.2-APP</b>	Cisco IP Solution Center 4.2 Traffic Engineering Starter Application Kit (does not include nodes activation license)

**Table 5.** Cisco IP Solution Center 4.2 Options for Service Providers

Part Number	Description
<b>MPLS-ISC4.1-API</b>	Cisco IP Solution Center 4.2 and 4.1 MPLS VPN API
<b>L2VPN-ISC4.1-API</b>	Cisco IP Solution Center 4.2 and 4.1 L2 VPN/Metro Ethernet VPN API

**Table 6.** Cisco IP Solution Center 4.2 Activation License Tier Upgrades for MPLS VPN and L2 VPN Management for Service Providers

Part Number	Description
<b>TIER-ISC4.1-1K</b>	Cisco IP Solution Center 4.2 and 4.1 upgrade to 1000 activation licenses
<b>TIER-ISC4.1-1500TU</b>	Cisco IP Solution Center 4.2 and 4.1 upgrade from current 1500 to 3000 activation licenses
<b>TIER-ISC4.1-3K</b>	Cisco IP Solution Center 4.2 and 4.1 upgrade from current 1000 to 3000 activation licenses
<b>TIER-ISC4.1-6K</b>	Cisco IP Solution Center 4.2 and 4.1 upgrade from current 3000 to 6000 activation licenses
<b>TIER-ISC4.1-10K</b>	Cisco IP Solution Center 4.2 and 4.1 upgrade from current 6000 to 10,000 activation licenses
<b>TU-ISC4.1-1K-INC</b>	Cisco IP Solution Center 4.2 and 4.1 1000 incremental activation license upgrade beyond 10,000 connections <sup>2</sup>
<b>TU-ISC4.1-5K-INC</b>	Cisco IP Solution Center 4.2 and 4.1 5000 incremental activation license upgrade beyond 10,000 connections <sup>3</sup>
<b>TU-ISC4.1-10K-INC</b>	Cisco IP Solution Center 4.2 and 4.1 10,000 incremental activation license upgrade beyond 10,000 connections <sup>4</sup>

**Table 7.** Cisco IP Solution Center 4.2 Activation License Tier Upgrades for Traffic Engineering Management

Part Number	Description
<b>TEM-ISC4.1-20NTU</b>	Cisco IP Solution Center TEM 4.2 and 4.1 20-node activation license
<b>TEM-ISC4.1-50NTU</b>	Cisco IP Solution Center TEM 4.2 and 4.1 upgrade from 20-node to 50-node activation license
<b>TEM-ISC4.1-50N-INC</b>	Cisco IP Solution Center TEM 4.2 and 4.1 50-node incremental upgrade beyond 50 nodes <sup>5</sup>

**Table 8.** Cisco IP Solution Center Metro Ethernet Broadband Aggregation Packages and Activation License Tier Upgrades

Part Number	Description
<b>BBAgg-ISC-SK-K9</b>	Cisco IP Solution Center Broadband Aggregation Starter Pack (including 5000 activation licenses)
<b>BBAgg-ISC-10K-TU</b>	Cisco IP Solution Center Broadband Aggregation from 5000 to 10,000 licenses
<b>BBAgg-ISC-10K-INC</b>	Cisco IP Solution Center Broadband Aggregation, 10,000 License Increment
<b>BBAgg-ISC-50K-INC</b>	Cisco IP Solution Center Broadband Aggregation, 50,000 License Increment
<b>BBAgg-ISC-100K-INC</b>	Cisco IP Solution Center Broadband Aggregation, 100,000 License Increment

**Table 9.** Cisco IP Solution Center Metro Ethernet Residential Triple-Play Packages and Activation License Tier Upgrades

Part Number	Description
<b>EthSub-ISC-SK-K9</b>	Cisco IP Solution Center Ethernet Subscriber Starter Pack (including 10,000 activation licenses)
<b>EthSub-ISC10K-INC</b>	Cisco IP Solution Center Ethernet Subscriber 10,000 License Increment
<b>EthSub-ISC100K-INC</b>	Cisco IP Solution Center Ethernet Subscriber 100,000 License Increment

**Table 10.** Cisco IP Solution Center Redundancy Options

Part Number	Description
<b>ISC4.1-BU</b>	Cisco IP Solution Center 4.2 and 4.1 Backup Pack (Site Diversification License)

<sup>2</sup> Cisco IP Solution Center 4.2 and 4.1 incremental activation license upgrades are applicable only to customers that have already bought tier upgrades of 10,000 activation licenses and beyond.

<sup>3</sup> Cisco IP Solution Center 4.2 and 4.1 incremental activation license upgrades are applicable only to customers that have already bought tier upgrades of 10,000 activation licenses or beyond.

<sup>4</sup> Cisco IP Solution Center 4.2 and 4.1 incremental activation license upgrades are applicable only to customers that have already bought tier upgrades of 10,000 activation licenses or beyond.

<sup>5</sup> Cisco IP Solution Center 4.2 and 4.1 Traffic Engineering Management incremental node license only for customers with current 50 nodes licenses or beyond.

**Table 11.** Upgrade Options from Cisco IP Solution Center 3.x to 4.2

Currently Owned	Type of Activation License	Upgrade to	Upgrade Kit to Order
Cisco IP Solution Center MPLS VPN Management and/or L2 VPN Management 3.x	Any activation license (500, 1500, 3000, 6000, 10,000, 20,000, 30,000, or 50,000 connections )	Cisco IP Solution Center 4.2	ISC3.X-4.2-UP-K9

**Table 12.** Update Options from Cisco IP Solution Center 4.x to 4.2 for Customers with an SAS contract

Currently Owned	Type of Activation License	Update to	Update Kit to Request
Cisco IP Solution Center MPLS VPN Management 4.0 or 4.1	Any activation license (200, 500, 1500, 3000, 6000, 10,000 or more)	Cisco IP Solution Center 4.2	ISC4.2-MPLS-SR-K9
Cisco IP Solution Center L2 VPN Management 4.0 or 4.1	Any activation license (200, 500, 1500, 3000, 6000, 10,000 or more)	Cisco IP Solution Center 4.2	ISC4.2-L2VPN-SR-K9
Cisco IP Solution Center Traffic Engineering Management 4.0 or 4.1	Any activation license (20, 50, 100, 150 nodes or more)	Cisco IP Solution Center 4.2	ISC4.2-TEM-SR-K9

Cisco IP Solution Center 4.0 and 4.1 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 13.** Update Options from Cisco IP Solution Center 4.x to 4.2 for Customers without an SAS Contract

Currently Owned	Type of Activation License	Update to	Update Kit to Order
Cisco IP Solution Center MPLS VPN Management 4.0 or 4.1	Any activation license (200, 500, 1500, 3000, 6000, 10,000 or more )	Cisco IP Solution Center 4.2	ISC4.2-MPLS-UP-K9
Cisco IP Solution Center L2 VPN Management 4.0 or 4.1	Any activation license (200, 500, 1500, 3000, 6000, 10,000 or more)	Cisco IP Solution Center 4.2	ISC4.2-L2VPN-UP-K9
Cisco IP Solution Center Traffic Engineering Management 4.0 or 4.1	Any activation license (20, 50, 100, 150 nodes or more)	Cisco IP Solution Center 4.2	ISC4.2-TEM-UP-K9

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> or contact your local account representative.

The Cisco MPLS Diagnostics Expert product page is available at: <http://www.cisco.com/go/mde>.

### Marketing Contacts

If you have questions about Cisco IP Solution Center, send an e-mail to the product marketing group at: [isc-mktg@cisco.com](mailto:isc-mktg@cisco.com).

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