



## Preface

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This guide describes the concept of a Multi Protocol Label Switching/Virtual Private Network (MPLS/VPN) architecture using the Login Event Generator (LEG) based on the Border Gateway Protocol (BGP), and explains how to install and configure it on the SCMS Subscriber Manager (SM) platform.



### Note

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This guide assumes a basic familiarity with telecommunications equipment and installation procedures, Cisco SCMS subscriber management, subscriber integration concepts, and the MPLS/VPN architecture.

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For complete information regarding Cisco's subscriber integration concept, see the *Cisco Service Control Management Suite Subscriber Manager (SCMS SM) User Guide*.

This document is intended for system administrators and system integrators who are familiar with the MPLS/VPN BGP LEG concepts and with Cisco Service Control Subscriber Management and Subscriber Integration concepts.

## Document Revision History

Cisco Service Control Release	Part Number	Publication Date
Release 3.1.5	OL-8233-07	November, 2007

### Description of Changes

- Updated for release 3.1.5.

Cisco Service Control Release	Part Number	Publication Date
Release 3.1.5 LA	OL-8233-06	July, 2007

### Description of Changes

- Removed section covering management of MPLS/VPN subscribers.
- Added VPN entity that replaces the concept of 'VPN subscriber'. See [VPN Entity, page 3](#).
- Added section describing using a Customer Edge router as a Subscriber. See [CE as Subscriber, page 5](#).

<b>Cisco Service Control Release</b>	<b>Part Number</b>	<b>Publication Date</b>
Release 3.1.0	OL-8233-05	May, 2007

## Description of Changes

- Updated for release 3.1.0.

<b>Cisco Service Control Release</b>	<b>Part Number</b>	<b>Publication Date</b>
Release 3.0.5	OL-8233-04	November, 2006

## Description of Changes

- Updated for release 3.0.5.

<b>Cisco Service Control Release</b>	<b>Part Number</b>	<b>Publication Date</b>
Release 3.0.3	OL-8233-03	September, 2006

## Description of Changes

- MPLS/VPN BGP LEG can be installed only on Red Hat Linux platforms.

<b>Cisco Service Control Release</b>	<b>Part Number</b>	<b>Publication Date</b>
Release 3.0.3	OL-8233-02	May, 2006

## Description of Changes

- Added new section describing managing MPLS/VPN subscribers.
- Added new section describing the VPN identifier. See [VPN Identifier \(RD or RT\)](#), page 4.

<b>Cisco Service Control Release</b>	<b>Part Number</b>	<b>Publication Date</b>
Release 3.0	OL-8233-01	December, 2005

## Description of Changes

- This is the first version of this document.

# Organization

The major sections of this guide are as follows:

**Table 1**      **Documentation Organization**

Chapter	Title	Description
Chapter 1	<a href="#">About the MPLS/VPN BGP LEG, page 1</a>	Describes the MPLS/VPN BGP LEG software module, and terms and concepts
Chapter 2	<a href="#">Installing the MPLS/VPN BGP LEG, page 1</a>	Describes the installation process for installing the SM MPLS/VPN BGP LEG
Chapter 3	<a href="#">Configuring the MPLS/VPN BGP LEG, page 1</a>	Provides the configuration instructions to configure the MPLS/VPN BGP LEG
Chapter 4	<a href="#">Using the MPLS/VPN BGP LEG CLU, page 1</a>	Describes the Command-Line Utility to control the operation of the MPLS/VPN BGP LEG and to retrieve information and statistics about the LEG

## Related Publications

Use this *Cisco SCMS SM MPLS/VPN BGP LEG Reference Guide* in conjunction with the following Cisco documentation:

- *Cisco SCMS Subscriber Manager User Guide*
- *Cisco Service Control Application for Broadband User Guide*

# Conventions

This document uses the following conventions:

**Table 2**      **Documentation Conventions**

Convention	Description
<b>boldface font</b>	Commands and keywords are in <b>boldface</b> .
<i>italic font</i>	Arguments for which you supply values are in <i>italics</i> .
[ ]	Elements in square brackets are optional.
{ x   y   z }	Alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string, or the string will include the quotation marks.
screen font	Terminal sessions and information that the system displays are in <code>screen font</code> .
<b>boldface screen font</b>	Information you must enter is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
<>	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.



## Note

Means *reader take note*. Notes contain helpful suggestions or references to materials not covered in this manual.

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Means *reader be warned*. In this situation, you might do something that could result in bodily injury.

# Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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