



# Installing the MPLS/VPN Border Gateway Protocol Login Event Generator

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## Introduction

This chapter describes the process for installing and uninstalling the Subscriber Manager (SM) Multiprotocol Label Switching (MPLS)/Virtual Private Network (VPN) Border Gateway Protocol (BGP) Login Event Generator (LEG).

The SM MPLS/VPN BGP LEG is an external component that should be installed on the SM. The SM MPLS/VPN BGP LEG distribution is part of the SM LEG distribution.

The SM MPLS/VPN BGP LEG installation package includes a set of configuration files and the command-line utility (CLU).

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

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# Package Contents

Table 28-1 describes the contents of the SM MPLS/VPN BGP LEG distribution package supplied by Cisco.

**Table 28-1 SM MPLS/VPN BGP LEG Distribution Package Contents**

Path	File Name	Description
DIST_ROOT/bgp_leg	—	SM MPLS/VPN BGP LEG files.
—	bgp_leg.tar.gz	SM MPLS/VPN BGP LEG distribution.
—	install-bgp-leg.sh	SM MPLS/VPN BGP LEG installation script.
—	linux-def.sh	Linux specific definitions script.
—	sm-common.sh	General installation script.

## Installing the MPLS/VPN BGP LEG Software

**Step 1** Copy the SM LEG distribution file to the SM machine and extract it with the **gunzip** command.

```
>gunzip SM_LEG_3.1.5_Bbbb.tar.gz
>tar -xvf SM_LEG_3.1.5_Bbbb.tar.gz
>cd bgp_leg
```

**Step 2** Run the BGP LEG installation script.

```
#!/install-bgp-leg.sh
```

The installation script automatically installs the SM MPLS/VPN BGP LEG on the SM and runs the OS specific definitions scripts according to your installation's operating system.



**Note** The installation script must run under root privileges.

**Step 3** Add a VCS resource for the BGP LEG.

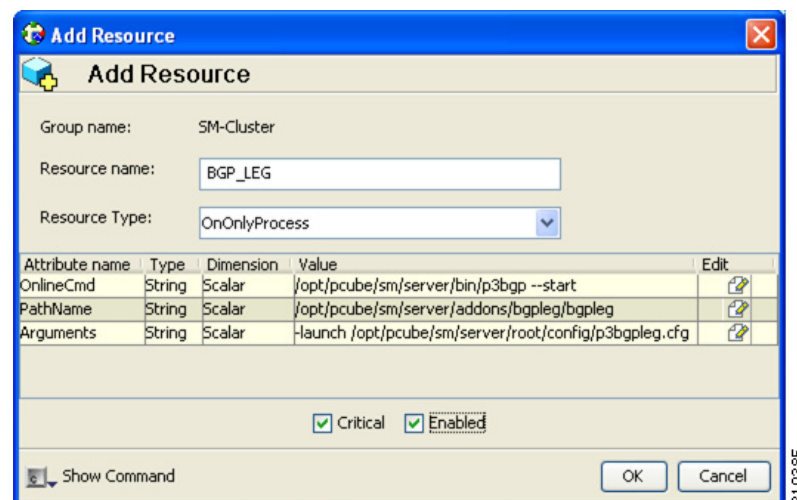
# Adding a Veritas Cluster Server Resource to the BGP LEG

In a SM cluster topology, the Veritas Cluster Server (VCS) should monitor the BGP LEG process to verify that the process is running. To do so, you must configure the VCS with a resource that monitors and controls the LEG.

- Step 1** Import the OnOnlyProcess agent's type from file:  
`/opt/VRTSvcs/bin/OnOnlyProcess/OnOnlyProcess.cf.`
- Step 2** Add an OnOnlyProcess resource called “BGP\_LEG” to the service group.
- Step 3** Run the `>ps -ea -o pid,s,args` command via telnet on each one of the servers.
- Step 4** Look for the line containing “bgpleg” in the text.  
 This line contains the path and arguments of the BGP LEG to be used in the next step.
- Step 5** Define the **OnlineCmd**, **PathName**, and **Arguments** parameters:
- **OnlineCmd**—Type the BGP LEG **start** command, for example:  
`/opt/pcube/sm/server/bin/p3bgp --start`
  - **PathName**—Type the BGP LEG process path (from the previous step), for example:  
`/opt/pcube/sm/server/addons/bgpleg/bgpleg`
  - **Arguments**—Type the BGP LEG process arguments (from the previous step), for example:  
`-launch /opt/pcube/sm/server/root/config/p3bgpleg.cfg`
- Step 6** Click OK.

Figure 28-1 shows the Add Resource window:

**Figure 28-1 Add VCS Resource Window**



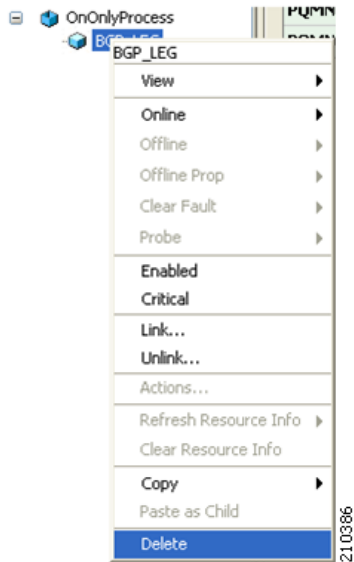
### Note

The arguments line might seem shorter than the actual full argument value, which is perfectly acceptable.

## Removing a VCS Resource from the BGP LEG

- Step 1** Right-click the BGP LEG resource icon you want to remove.
- Step 2** From the drop-down list, choose **Delete** (Figure 28-2).

**Figure 28-2** Removing a VCS Resource



**Note**

The BGP LEG is inactivated if there are no VCS resources. To activate the BGP LEG, there must be at least one resource.