



CHAPTER 3

Installing the Cisco Network Registrar Login Event Generator

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Introduction

This chapter describes the Cisco Network Registrar (CNR) Login Event Generator (LEG) installation procedures for both Windows and Solaris platforms. It also describes the uninstall procedure.

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Prerequisites

CNR LEG is operable with any CNR version 5.0 or later.

The platform requirements (OS/CPU/RAM/disk) are the same as the CNR requirements for both Windows and Solaris. For platform requirement details, see the *Installation Guide for Cisco Network Registrar*.

Package Contents

The CNR LEG distribution is a part of the SCMS SM LEG distribution file and is located in the CNR_LEG directory. [Table 3-1](#) describes the contents of the CNR LEG distribution package supplied by Cisco.

Table 3-1 File Layout of CNR LEG Distribution Package

Root	Folder (under root)	File name	Notes
pkg-ext-dir	—	—	—
—	—	readme.cnrleg	Short description of CD content
—	—	INSTALL.dat	Quick installation instructions
—	doc	—	—
—	—	cnrleg.cfg	Sample configuration file
—	solaris	—	—
—	—	libcnrleg.so	Solaris distribution in a single library file
—	winnt	—	—
—	—	asn1ber.dll	—
—	—	asn1rt.dll	—
—	—	cnrleg.dll	—

Installing the CNR LEG on Windows



Note The directory in which the CNR is installed is referred to as `cnr-inst-dir`.

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- Step 1** Extract the SM LEG distribution file.
- Step 2** Locate the CNR LEG distribution tar file under the CNR LEG directory.
- Step 3** Extract the CNR LEG distribution and copy the files:
- a. Unzip the CNR package to `pkg-ext-dir`.
 - b. Copy all files under `pkg-ext-dir\winnt` to `<cnr-inst-dir>\Extensions\DHCP\Dex\`.
If the `\Extensions\DHCP\Dex\` folder does not exist, create it.
 - c. Copy the sample configuration file from `pkg-ext-dir\doc` to a directory of your choice, hereafter referred to as `cfg-dir`.
- Step 4** Configure the CNR LEG by using the sample configuration file.
See the [“Information About Configuring the CNR LEG”](#) section on page 4-2.
- Step 5** Configure the SM.
See the [“Information About Configuring the Subscriber Manager”](#) section on page 4-5.
- Step 6** Register the CNR LEG with the CNR:
- a. Run the CNR `<cnr-inst-dir>/bin/nrcmd` command-line utility.
 - b. Log in to the CNR `nrcmd` CLU.
To log in, enter the following command:

```
nrcmd [-C cluster] [-N user] [-P password]
```
 - c. Configure the following:

```
nrcmd> extension smleg create dex cnrleg.dll cnrLegPostSendPacket
nrcmd> extension smleg set init-entry=cnrLegInitEntry
nrcmd> extension smleg set init-args=cfg-dir/cnrleg.cfg
nrcmd> dhcp attachExtension post-send-packet smleg 11
nrcmd> extension smlegext create dex cnrleg.dll cnrLegPostPacketDecode
nrcmd> dhcp attachExtension post-packet-decode smlegext 12
nrcmd> save
nrcmd> server DHCP reload
```



Note You must use the `cfg-dir` full path in the `init-args` argument.



Note You must use a slash (“/”) and not a back-slash (“\”) as the path separator.

1. Any sequence number can be used for this command.
2. Any sequence number can be used for this command.

Installing the CNR LEG on Solaris

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- Step 1** Extract the SM LEG distribution file.
- Step 2** Locate the CNR LEG distribution tar file under the CNR LEG directory.
- Step 3** Extract the CNR LEG distribution and copy the files:
- Extract the CNR package to pkg-ext-dir. For example:

```
#> tar xvf cnr-leg-dist.tar
```
 - Copy libcnrleg.so under pkg-ext-dir/solaris to <cnr-inst-dir>/extensions/dhcp/dex.
 - Copy the sample configuration file from pkg-ext-dir/doc to a directory of your choice, hereafter referred to as cfg-dir.
- Step 4** Configure the CNR LEG using the sample configuration file.
 See the [“Information About Configuring the CNR LEG”](#) section on page 4-2.
- Step 5** Configure the SM.
 See the [“Information About Configuring the Subscriber Manager”](#) section on page 4-5.
- Step 6** Register the CNR LEG with CNR:
- Run the CNR <cnr-inst-dir>/bin/nrcmd command-line utility.
 - Log in to the CNR **nrcmd** CLU.
 To log in, enter the following command:

```
nrcmd [-C cluster] [-N user] [-P password]
```
 - Configure the following:

```
nrcmd> extension smleg create dex libcnrleg.so cnrLegPostSendPacket
nrcmd> extension smleg set init-entry=cnrLegInitEntry
nrcmd> extension smleg set init-args=cfg-dir/cnrleg.cfg
nrcmd> dhcp attachExtension post-send-packet smleg 11
nrcmd> extension smlegext create dex libcnrleg.so cnrLegPostPacketDecode
nrcmd> dhcp attachExtension post-packet-decode smlegext 12
nrcmd> save
nrcmd> server DHCP reload
```



Note You must use the cfg-dir full path in the init-args argument.



Note You must use a slash (“/”) and not a back-slash (“\”) as the path separator.

1. Any sequence number can be used for this command.

2. Any sequence number can be used for this command.

Uninstalling the CNR LEG

This section explains how to uninstall the CNR LEG. The uninstall procedure is applicable for both Windows and Solaris platforms.

Step 1 Unregister CNR LEG from CNR:

- Run the CNR <cnr-inst-dir>/bin/nrcmd command-line utility.
- Log in to the CNR nrcmd CLU.

To log in, enter the following command:

```
nrcmd [-C cluster] [-N user] [-P password]
```

- Configure the following:

```
nrcmd> dhcp detachExtension post-send-packet 1  
nrcmd> extension smleg delete  
nrcmd> dhcp detachExtension post-packet-decode 1  
nrcmd> extension smlegext delete  
nrcmd> save  
nrcmd> server DHCP reload
```

Step 2 Delete the LEG distribution files.

- Delete all files copied to <cnr-inst-dir>/extensions/dhcp/dex.
 - Delete the configuration file (cfg-dir/cnrleg.cfg).
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