

Chapter 9

Installing Licenses for C-series Platforms

This chapter describes how to install a pilot license from the SRC CLI, how to install a server license for C-series platforms, and how to configure the SAE to manage server licenses. Topics include:

- Installing a Pilot License from the SRC CLI on page 75
- Installing Server Licenses for C-series Platforms on page 77
- Configuring License Manager for an SAE on a C-series Platform on page 77

Installing a Pilot License from the SRC CLI

You install pilot licenses on C-series platforms from the SRC CLI. You can also install pilot licenses for SRC software running on Solaris platforms by using the CLI.

For information about installing pilot licenses on Solaris platforms by using **instlic** command and SDX Admin, see *Chapter 24, Installing Licenses for SDX Software on Solaris Platforms*.

When you enable the SAE on a C-series platform, the software verifies that a license is installed.

Before you install a pilot license, make sure that the Juniper Networks database is running on a C-series platform. If you are installing the license on a Solaris platform, make sure that the directory server is running.

To install a pilot license:

1. Use the `request sae import-pilot-license` command on a C-series platform on which the Juniper Networks database is configured to have a primary role:

```
user@host> request sae import-pilot-license file-name file-name <server-address
server-address> <name-space name-space> <authentication-dn
authentication-dn> <password password>
```

where:

- *file-name*—Name of the file that contains the SRC license
- *server-address*—IP address for the primary directory server. For C-series platforms, this is the platform that has the Juniper Networks database configured to have a primary role.
- *namespace*—Base DN for the directory. In most cases you can use the default `<base>`.
- *authentication-dn*—DN used for directory authentication.
- *password*—Password used for directory authentication.

2. Verify that a valid license is available:

```
user@host> show sae licenses
SSC License Key Checker V3.0
```

Type of license: Pilot. Status: OK.

The following valid licenses are found:

```
License: cn=83ced779,ou=Licenses,o=Management,o=UMC
license.val.component = 1
license.val.customer = mycompany
license.val.expiry = 2007-02-23
license.val.nodeid = 83ced779
license.val.release = 7.*
license.val.seqnum = 00555
license.val.type = pilot
license.val.userSessions = 100
```

Installing Server Licenses for C-series Platforms

The licenser server on C-Series platforms works in the same manner as on Solaris platforms. For general information about the license server, see the following sections in *Chapter 12, Customizing and Managing the License Server*:

- *Overview of the License Server* on page 99
- *Unsuccessful Connections from the SAE to the License Server* on page 102
- *License Server Redundancy* on page 102

To use a server license on a C-series platform, a Juniper Networks database must run on the same C-series platform as the license server.

To install server licenses for C-series platforms:

1. From operational mode, enable the license server.

```
user@host> enable component licSrv
```

2. Install the server license.

```
user@host> request license import master-license file-name file-name
```

3. Verify that a valid license is available.

```
user@host> show sae licenses
```

4. Configure license manager for the SAE.

See *Configuring License Manager for an SAE on a C-series Platform* on page 77.

Configuring License Manager for an SAE on a C-series Platform

Use the following configuration statements to configure the SAE license manager at the [edit] hierarchy level.

```
shared sae configuration license-manager client {
    type type;
    cache cache;
}

shared sae configuration license-manager directory-access {
    server-address server-address;
    server-port server-port;
    license-dn license-dn;
    authentication-dn authentication-dn;
    password password;
    (ldaps);
    connection-manager-id connection-manager-id;
    event-base-dn event-base-dn;
    signature-dn signature-dn;
    snmp-agent;
}
```

For detailed information about each configuration statement, see the *SRC-PE CLI Command Reference*.

To configure the SAE license manager:

1. From configuration mode, access the configuration statement that configures the SAE client for the license manager at the [edit] hierarchy level.

```
[edit]
user@host# edit shared sae configuration license-manager client
```

2. Specify the client type.

```
[edit shared sae configuration license-manager client]
user@host# edit type SDX
```

SDX is the only supported license type.

3. Specify the path to the cache file.

```
[edit shared sae configuration license-manager client]
user@host# edit cache cache
```

The default is *var/run/lic_cache*.

4. Access the configuration statement that configures directory access for the SAE client for the license manager at the [edit] hierarchy level.

```
[edit shared sae configuration license-manager client]
user@host# up
```

```
[edit shared sae configuration license-manager]
user@host# edit directory-access
```

```
[edit shared sae configuration license-manager directory-access]
user@host#
```

5. (Optional) Specify the IP address or hostname of the server that stores licensing data.

```
[edit shared sae configuration license-manager directory-access]
user@host# set server-address server-address
```

6. Specify the port number of the LDAP connection to the directory server that stores licensing data.

```
[edit shared sae configuration license-manager directory-access]
user@host# set server-port server-port
```

The default port is 389.

7. Specify the DN of the subtree in the directory where licensing information is stored. The SAE searches for the license key below this path.

```
[edit shared sae configuration license-manager directory-access]
user@host# set license-dn license-dn
```

The default is `ou = Licenses,o = Management, < base > .`

8. Specify the DN used by the SAE to authenticate access to the directory server.

```
[edit shared sae configuration license-manager directory-access]
user@host# set authentication-dn authentication-dn
```

The default is `cn = license-operator,o = Operators, < base > .`

9. Specify the password used to authenticate access to the directory.

```
[edit shared sae configuration license-manager directory-access]
user@host# set password password
```

10. (Optional) Enable LDAPS as the secure protocol for connections to the directory server that stores license data.

```
[edit shared sae configuration license-manager directory-access]
user@host# set ldaps
```

11. Specify the connection manager for the directory eventing system within the Java Naming and Directory Interface (JNDI) framework

```
[edit shared sae configuration license-manager directory-access]
user@host# set connection-manager-id connection-manager-id
```

The default is `LICENSE_MANAGER`.

12. (Optional) Specify the base DN for the license manager data.

```
[edit shared sae configuration license-manager directory-access]
user@host# set event-base-dn event-base-dn
```

The default is `< base >` which refers to the globally configured base DN.

13. (Optional; not needed for Juniper Networks databases on C-series platforms) Specify the DN of the entry identified by the LDAP schema attribute `usedDirectory`. This attribute identifies the type of directory, such as DirX on which the license data is stored.

```
[edit shared sae configuration license-manager directory-access]
user@host# set signature-dn signature-dn
```

14. (Optional) Enable the SRC SNMP agent to export MIBs for this directory connection.

```
[edit shared sae configuration license-manager directory-access]
user@host# set snmp-agent
```

