Chapter 10
Installing Licenses for C-series Controllers

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

- Installing a Pilot License from the SRC CLI on page 89

- Installing Server Licenses for C-series Controllers on page 91

- Configuring License Manager for an SAE on a C-series Controller on page 91

Installing a Pilot License from the SRC CLI

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

When you enable the SAE on a C-series Controller, 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 Controller. If you are installing the license on a Solaris platform, make sure that the directory server is running.

To install a pilot license:

1. On a C-series Controller on which the Juniper Networks database is configured to have a primary role, or on a Solaris platform that has the SRC software installed, use the request sae import-pilot-license command:

   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 Controllers, 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
   ```

Related Topics

- For information about installing pilot licenses on Solaris platforms by using **instlic** command and SDX Admin, see *Before You Install an SRC License on a Solaris Platform* in *Chapter 12, Installing Licenses for SRC Software on Solaris Platforms*.

Installing Server Licenses for C-series Controllers

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

To install server licenses for C-series Controllers:

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 Controller* on page 91.

Related Topics

- *Chapter 9, Overview of the SRC License Server*

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

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 if you use the Juniper Networks database.) 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-agen**t