Understanding CME/SRST License Activation

Purpose

The purpose of this document is to explain how license activation works on a Cisco ISR-G2 (19xx/29xx/39xx) router. It will detail how to install the license and verify that it has been activated correctly.

How does Licensing for CME/SRST work?

The CME/SRST feature is accessible only once the **uck9** technology-package license has been accepted and the router has been reloaded. If the uck9 technology-package license is not installed or the router not reloaded, no voice related commands will be accepted by the command line. Once the technology-package license is installed, it gives access to the CME/SRST feature set.

To determine the current status of the technology-package license, check the output of the "show version" command. It will provide the state of the technology packages currently active.

Router# show version

<snip>

----------------------------------------------------------
Technology  Technology-package  Technology-package
           Current       Type           Next reboot
----------------------------------------------------------
ipbase   ipbasek9       Permanent       ipbasek9
security   None       None       None
uc        None       None       None
The above sample output indicates that the router does not have the **uck9** technology-package enabled. For this document, we'll enable the evaluation license for the uck9 package using the `license boot module c2951 technology-package uck9` command in global configuration mode (config t).

```
Router(config)#license boot module c2951 technology-package uck9
```

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Activation of the software command line interface will be evidence of your acceptance of this agreement.

ACCEPT? [yes/no]: yes
The above **End User License Agreement** must be accepted and the router reloaded before the license is activated.

Once the router is reloaded, the output of the **show version** command will reflect the change in status of the uc technology package.

```
Router#show version

Technology Package License Information for Module: 'c2951'

-----------------------------------------------
Technology  Technology-package     Technology-package
            Current     Type           Next reboot
-----------------------------------------------
ipbase      ipbasek9     Permanent     ipbasek9
security    None          None           None
uc          uck9          EvalRightToUse uck9
data        None          None           None
```

The output now shows "EvalRightToUse" as the type for the uc technology. This indicates that the features associated with the UC technology-package are active but the router is using an evaluation license which will expire.
Steps to install the permanent license can be found in the official documentation.

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Once the permanent license is installed, the type will change to RightToUse as depicted in the below output.

Router#show version

Technology Package License Information for Module:'c2951'

------------------------------------------------------------------
<table>
<thead>
<tr>
<th>Technology</th>
<th>Technology-package</th>
<th>Technology-package</th>
<th>Current</th>
<th>Type</th>
<th>Next reboot</th>
</tr>
</thead>
<tbody>
<tr>
<td>ipbase</td>
<td>ipbasek9</td>
<td>Permanent</td>
<td>ipbasek9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>security</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>uc</td>
<td>uck9</td>
<td>RightToUse</td>
<td>uck9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>data</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Activating the CME/SRST License

With only the uck9 package installed, the cme-srst license is not in an active state. No additional licenses need to be installed on the router. The only step needed is to configure the CME/SRST feature and accept the EULA.
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Viewing the output of `show license detail cme-srst` indicates that there is no configuration present and the EULA has not been accepted.

```
Router#show license detail cme-srst
Index: 5     Feature: cme-srst                          Version: 1.0

License Type: EvalRightToUse

License State: Not in Use, EULA not accepted
  Evaluation total period: 8  weeks 4  days
  Evaluation period left: 8  weeks 4  days
  Period used: 0  minute  0  second
  License Count: 0/0  (In-use/Violation)

License Priority: None

Store Index: 7

Store Name: Built-In License Storage
```

Configuring the CME/SRST Feature and Accepting the EULA

This section assumes that there is no CME or SRST configuration present on the router but as stated above, the uck9 feature license has been installed. It will cover how to activate the CME/SRST feature license.
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**Step 1:**

Go to global configuration mode. Issue the `config t` command.

**Step 2:**

Issue the `telephony-service` command.

**Step 3:**

Issue the `max-dn <dn>` and `max-ephone <ephone>` commands. Once the last command is entered, you'll be prompted to accept the EULA.

Router(config-telephony)#ip source 10.1.1.1
Router(config-telephony)#max-dn 10
Router(config-telephony)#max-ephone 10

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so that if you enable a software feature on 1000 devices, you must purchase 1000 licenses for use past the 60 day evaluation period.)

Activation of the software command line interface will be evidence of your acceptance of this agreement.

ACCEPT? [yes/no]: yes

Verifying License Status

Once the feature has been configured and the EULA accepted, check the status of the license with the `show license detail cme-srst` command.

The output should show the License State as Active, In Use.

Router#show license detail cme-srst

Index: 5  Feature: cme-srst                     Version: 1.0

License Type: EvalRightToUse

License State: Active, In Use

Evaluation total period: 8 weeks 4 days
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Evaluation period left: 8 weeks 3 days

Period used: 0 minute 42 seconds

Transition date: Oct 29 2012 19:38:17

License Count: 10/0 (In-use/Violation)

License Priority: Low

Store Index: 7

Store Name: Built-In License Storage

If the output indicates that the EULA has not been accepted, issue the `license accept end user agreement` command. This will show the EULA and provide the option to accept it.

Note that even after accepting the EULA, the License Type says `EvalRightToUse` and output shows an Evaluation period. This is because the evaluation is ACTIVE for 60 days. After 60 days i.e. on "Transition date" this will change to `RightToUse` which is valid for 12 years.