Quick Start Guide for Cisco Integrated Management Controller Express 1.0.2

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This guide contains instructions for installing and configuring Cisco Integrated Management Controller Express (CIMC-E) 1.0.2 in the following sections:

For more detailed information, see *Cisco Integrated Management Controller Express*.

Installing CIMC-E 1.0.2 Image

Before you install the CIMC-E software, you must configure and enable the Embedded Service Engine as described in *Cisco Integrated Management Controller Express*.

Step 1 Verify that the Embedded Service Engine is enabled using this command.

```
router# service-module Embedded-Service-Engine 0/0 status

Service Module is Cisco Embedded-Service-Engine0/0
Service Module supports session via TTY line 2
Service Module heartbeat-reset is enabled
Embedded Service Engine boot state is UBOOT UP
No install/uninstall in progress
```

If the Embedded Service Engine is enabled, it is in the UBOOT UP state, as shown in this example.

Step 2 Copy the following files to an FTP server:

- cimce-full.vsem.1.0.2.prt1
- cimce-installer.vsem.1.0.2.prt1
- cimce-k9.vsem.1.0.2.key
- cimce-k9.vsem.1.0.2.pkg
- cimce-k9.vsem.1.0.2.pkg.install.sre
- cimce-k9.vsem.1.0.2.pkg.install.sre.header
- cimce-installer.vsem.1.0.2

This example is for a Cisco 2911 or Cisco 2921 (vsem) platform. For Cisco 2951 platforms and higher, the file names include “vsep” instead of “vsem.”

Step 3 From the Cisco IOS prompt, enter the following command:

```
router# service-module Embedded-Service-Engine 0/0 install url
ftp://<ftpserver>/cimce-k9.vsem.1.0.2.pkg
```

Step 4 From the Cisco IOS prompt, enter the following command to monitor the status of the installation:

```
router# service-module Embedded-Service-Engine 0/0 status
```

Initial Configuration

To properly configure the CIMC-E application, you must run commands on both Cisco IOS software and CIMC-E software as described in the following sections:

- Cisco IOS Initial Configuration Commands
- CIMC-E Initial Configuration Commands
- Verifying that CIMC-E is Configured Properly

Cisco IOS Initial Configuration Commands

Follow these procedures on your Cisco ISR G2:

- Setting Up HTTPS Server and Authentication
- Configuring WSMA
- Configure Command Rollback

Setting Up HTTPS Server and Authentication

Enter the following configuration commands on the Cisco ISR G2 to allow CIMC-E to communicate with the Cisco ISR G2 over HTTPS:

```
router# config t
router(config)# ip http secure-server
router(config)# ip http authentication local
router(config)# exit
router#
```

Configuring WSMA

Enter the following configuration commands on the Cisco ISR G2 to allow CIMC-E to retrieve information from the Cisco ISR G2:

```
router# config t
router(config)# username wsmauser privilege 15 password 0 password
router(config)# wsma profile listener wsma
router(config-wsma-listen)# transport https path /cimce
router(config)# wsma agent exec profile wsma
router(config)# wsma agent config profile wsma
router(config)# wsma agent notify profile wsma
```

```
router(config)# exit
router#
```

Configure Command Rollback

Enter the following configuration commands on the Cisco ISR G2 to allow CIMC-E to communicate with the Cisco ISR G2 properly:

```
router# config t
Enter configuration commands, one per line.  End with CNTL/Z.
router(config)# archive
router(config-archive)# log config
router(config-archive-log-cfg)# hidekeys
router(config-archive-log-cfg)# exit
router(config-archive)# path flash:roll
router(config-archive)# maximum 5
router(config-archive)# exit
router#
```

CIMC-E Initial Configuration Commands

When the Cisco ISR G2 has been properly configured, the CIMC-E software must be configured with settings that match what was entered on the Cisco ISR G2. To do this, log in to the CIMC-E CLI interface using Secure Shell (SSH).

Note The default username and password for CIMC-E is “admin” and “password” respectively.

Below is an example of how to log into the CIMC-E CLI interface. For this example, the IP address of the Embedded-Service-Engine is 10.0.0.5.

```
ssh admin@10.0.0.5
admin@10.0.0.5's password:
se-10-0-0-5#
```

CIMC-E must be configured using the same parameters that were used in the “Cisco IOS Initial Configuration Commands” section on page 2. The following commands are found in the scope “cimce.”

```
se-10-0-0-5# scope cimce
se-10-0-0-5 /cimce # set username wsmauser
se-10-0-0-5 /cimce *# set password password
se-10-0-0-5 /cimce *# set url url
se-10-0-0-5 /cimce *# commit
```

The following example shows uses the configuration above. For this example, the IP address of the Cisco ISR G2 (as reachable from the Embedded Service Engine) is 10.0.0.2.

```
se-10-0-0-5# scope cimce
se-10-0-0-5 /cimce # set username wsmauser
se-10-0-0-5 /cimce *# set password password
se-10-0-0-5 /cimce *# set url 10.0.0.2/cimce
se-10-0-0-5 /cimce *# commit
Username:        wsmauser
Password:        <hidden>
End Point:       10.0.0.2/cimce
New config changes have been saved
se-10-0-0-5 /cimce #
```

The URL is the IP address of the Cisco ISR G2, followed by the path set up in the "Configuring WSMA" section on page 2.

The username and password set up here must correspond to the username and password set up in the "Configuring WSMA" section on page 2.

Verifying that CIMC-E is Configured Properly

To verify that the CIMC-E application is configured properly, use the **show hardware** command in scope router. In the following example, the IP address of the Embedded Service Engine is 10.0.0.5:

```
ssh admin@10.0.0.5
admin@10.0.0.5's password:
se-10-0-0-5# scope router
se-10-0-0-5 /router# show hardware
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M)
Cisco CISCO2911/K9 (revision 1.0) with 729056K/57344K bytes of memory.
Chassis Serial Number    : FTX1405A1Z5
Chassis MAC Address      : 0000.e181.5150
se-10-0-0-5#
```

If CIMC-E is configured properly, you should see output similar to this example when you run the **show hardware** command.