



APPENDIX **B**

CLI Commands to Verify a Successful Installation

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Introduction

When you have completed the installation of your Cisco SCE 2000 platform, we recommend that you run a number of CLI commands to verify that the proper components have been successfully installed and are operational.

Basic Post-Installation Checklist

The following table provides a basic post-installation checklist with the related CLI commands. Further verification of the system configuration would depend on the specific topology and configuration of the installation, but this list will verify that the basic installation is operational.

Refer to the descriptions of the individual commands for samples of the command output. Relevant information in the output is in **bold**.

To check this:	Use this command:	Comments
version	show version	Check the following: <ul style="list-style-type: none"> • firmware version • application version • management agent status • management agent version • optic mode
port configuration	show interface	Run this command for each port to get a listing of the status and configuration of all ports.
operational status	show system operational status	Status should be <i>operational</i> . This command will give you an indication of problems such as a power problem or external bypass not configured properly.
linecard status	show interface linecard	It should not be <i>shutdown</i> or <i>silent</i> .
connection mode	show interface linecard connection-mode	Make sure that both the connection mode and the failure mode are configured correctly.
link mode	show interface linecard link mode	When connection-mode is inline, link mode should be configured to <i>forwarding</i> .
RDR formatter	show RDR-formatter	Verify the following: <ul style="list-style-type: none"> • The RDR formatter has established a connection with the configured destinations • The redundancy status is configured correctly in case of more than one destination.
connection to Quota Manager	show interface linecard subscriber sm-connection-failure	If using SM: Verify that the connection with the SM is established.
connection to Quota Manager	show ip rpc-adapter sessions	If using QM: Verify that the connection with the QM is established.

Complete command sequence for a fully-populated SCE 2000 platform using both the SM and the QM

```

SCE>enable 5
Password:<cisco>
SCE>show version
SCE>show interface GigabitEthernet 0/1
SCE>show interface GigabitEthernet 0/2
SCE>show interface GigabitEthernet 0/3
SCE>show interface GigabitEthernet 0/4
SCE>show system operation-status
SCE>show interface linecard 0
SCE>show interface linecard 0 connection-mode
SCE>show interface linecard 0 link mode
SCE>show rdr-formatter
SCE>show interface linecard 0 subscriber sm-connection-failure
SCE>show ip rpc-adapter sessions

```

CLI Command Output Samples

The text in **bold** in the following output samples indicates the lines you should check when doing a post-installation check. For some commands, the output is short and the entire output is relevant. In these cases, nothing is in bold.

show version

Look for the following lines:

- System version
- lic type
- optic mode
- Application file
- Management agent interface version

```

SCE>show version
System version: Version 3.5.5 Build 252
Build time: May 31 2009, 16:15:22 (Change-list 483168)
Software version is: Version 3.5.5 Build 252
Cryptography class: K9
Hardware information is:
rx           : 0x0079
dp           : 0x1d05
tx           : 0x1712
ff           : 0x0077
cls          : 0x1e05
cpld         : 0x0025
lic          : 0x0202
lic-drv      : 0x02020000
lic-prm      : 0x02020000
rev          : G001
Bootrom      : 2.1.0
L2 cache    : Samsung 0.5
lic type      : 4GBE
optic mode    : MM
Product S/N  : CAT113656YW
Product ID   : SCE2020-4XGBE-MM

```

```

Version ID      : V03
Deviation      :
Part number    : 800-26601-07
Revision       : A0
Software revision : G001
LineCard S/N   : CAT113750AC
Power Supply type : AC

```

SML Application information is:

Application file: /tffs0/app/en355262.sli

Application name: Engage SML Version 3.5.5 build 74

Using Lib - PL_3.5.5_b74

Using Lib - Classifier_3.5.5_b74

Application help: Entry point of Engage

Original source file:

/auto/srbu-proj1/apps/users/atukh/autoBuild/App/SML/Engage/dev/src/com/pcube/AppTemplate/Main/template_app_main.san

Compilation date: Tue, May 19, 2009 at 18:18:27

Compiler version: SANc v3.20 Build 12 built on: Tue 02/01/2009 11:11:05.;SME plugin v1.1

Capacity option used: 'EngageDefaultSCE2000'.

Logger status: Enabled

Platform: SCE2000 - 4xGBE

Management agent interface version: SCE Agent 3.5.5 Build 121

Software package file:

ftp://ftpserver/D:\pcube\Os\3.5.5\252\csi-filer02b/projects/srg-sce-swinfra/emb/builds/3.5.5/252/SE1000/SE1000_03550252_K9.pkg

SCE2000 uptime is 2 weeks, 3 hours, 57 minutes, 48 seconds

show interface

Run this command for each interface. The command syntax is:

```
show interface GigabitEthernet 0/port-number
```

```
sce>show interface GigabitEthernet 0/3
```

Auto negotiation configured: Disabled

Actual status:

Link is: ON

Auto negotiation: Disabled

Bandwidth (L1): 1000000 Kbps, Burst-size: 50000 bytes

Pseudo IP Address: Not Configured

physical mode : 0

show system operational status

```
sce>show system operation-status
```

System Operation status is Operational

show interface linecard

```
sce>show interface LineCard 0
```

The application assigned to slot 0 is /apps/data/scos/app/en35156.sli

Silent is off

Configured shutdown is off

Shutdown due to sm-connection-failure is off

Resulting current shutdown state is off

WAP handling is disabled

show interface linecard connection-mode

```
sce>show interface linecard 0 connection-mode
slot 0 connection mode
Connection mode is inline
slot failure mode is external-bypass
Redundancy status is standalone
```

show interface linecard link mode

```
sce>show interface LineCard 0 link mode
Link mode on GBE1-GBE2
Current link mode is          : forwarding
Actual link mode on active is : forwarding
Actual link mode on failure is: crosspath-bypass

Link mode on GBE3-GBE4
Current link mode is          : forwarding
Actual link mode on active is : forwarding
Actual link mode on failure is: crosspath-bypass
```

show RDR-formatter

Look for:

- Forwarding mode
- Status (in Status column in the Connection Table)

```
sce>show RDR-formatter
Status: enabled
Connection is: up
Forwarding mode: redundancy
Connection Table:
```

Collector IP-Address / Host-Name	Port	Status	Priority per Category:			
			Category1	Category2	Category3	Category4
10.240.59.39	33000	up	100 primary	---	---	---
10.240.59.44	33000	up	---	100 primary	---	---

```
RDR:   queued:    0 ,sent:60108106, thrown:    0, format-mismatch:    0
UM:    queued:    0 ,sent:    0, thrown:    0
Logger: queued:    0 ,sent:    0, thrown:    0
Errors: thrown:    0
Last time these counters were cleared: 07:36:52 EDT TUE April 28 2009
```

show interface linecard subscriber sm-connection-failure

If working with the Subscriber Manager, use this command to make sure the connection with the SM is established

```
SCE>show interface linecard 0 subscriber sm-connection-failure
Current SM link state: up.
Configured action to take when SM link is down: No action.
Changing of system operational-status to 'warning' when SM link is down: enabled.
```

show ip rpc-adapter sessions

If working with the Quota Manager, use this command to make sure the connection with the QM is established

```
sce>show ip rpc-adapter sessions
client-name=usr.SM
client-address=/10.240.59.36
started=Mon Apr 06 12:43:01 GMT-04:00 2009
received-message-num=408790
sent-message-num=237292
sent-notifications-num=0
dropped-notifications-num=0
client-username=null

client-name=mcn.SM
client-address=/10.240.59.36
started=Mon Apr 06 12:43:02 GMT-04:00 2009
received-message-num=5715112
sent-message-num=6101181
sent-notifications-num=386768
dropped-notifications-num=0
client-username=null

client-name=mcn.QuotaManager-10.248.64.119_10.240.59.36_SCE.J.API.PRPC
client-address=/10.240.59.36
started=Mon Apr 06 12:43:03 GMT-04:00 2009
received-message-num=404194
sent-message-num=232248
sent-notifications-num=0
dropped-notifications-num=0
client-username=null
```