
INSTALLATION GUIDE

System Console Software 2.0

for Solaris TM Environment

High Risk Activity

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Chapter 1 Program Components

The unit of the program in which the system is composed is called the package. The following packages compose this software.

No.	Component	Package name	Version	Function
1	Console Information	FJSVscs	2.0	The version information of each components of the System Console Software.
2	Machine Administration	FJSVcsl	2.0	The system control management or the system status patrol of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
		FJSVmand	2.0	Supports system operation and maintenance depending on the platform used by the SMC.
		FJSVmasv	2.0	
		FJSVmaom	1.5	
3	Online Manual	FJSVcslom	2.0	Online manual of the System Console Software. (HTML format)
4	Automatic Power Control	FJSVapcs	1.3.7	Automatic power control of the PRIMEPOWER 800/1000/2000 or GP7000F Model 1000/2000.
5	Partition Installer	FJSVclis	2.3	Supplementary tool to install OS and product in the partition of PRIMEPOWER 800/1000/2000 or GP7000F Model 1000/2000.
6	RC2000	FJSVrcon	1.2.3	Control of the remote console screen for each partition of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
7	Dump Control	FJSVdmp	1.2	Retention and management of dumps for each partition of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
8	System Data Output tool	FJSVsnap	2.1	Collects data in the SMC, of command execution results plus hardware and software configuration, environment settings, logs, and operation status, then outputs that system information for system fault analysis to a backup tape device.
9	SMC Assistance	FJSVscsl	1.5	Supplementary tool of the SMC.
10	SCF driver (SMC exclusive use)	FJSVscd	1.8	RAS control device driver. (SCF,FaultLED) (64 bits) (*1)
		FJSVscdx	1.8	RAS control device driver. (SCF,FaultLED) (*1)
		FJSVscr	1.8	RAS control daemon and configuration file. (*1)
		FJSVscu	1.8	RAS control command. (*1)
		FJSVlscd	1.0	RAS control device driver. (SCF,FaultLED) (64 bits) (*2)
		FJSVlscdx	1.0	RAS control device driver. (SCF,FaultLED) (*2)
		FJSVlscr	1.0	RAS control daemon and configuration file. (*2)
		FJSVlscu	1.0	RAS control command. (*2)
11	Web-Based Admin View/ WWW Server for Admin View	FJSVwvbs	2.0.3	WWW server for Web-Based Admin View.
		FJSVwvcnf	2.0.2	Web Communication base for Web application.
12	SMC Default Configuration	FJSVdef	1.2.3	Prevents file system capacity shortage due to expansion of the system log.

No.	Component	Package name	Version	Function
13	Validation Test System	FJSVvts	4.0	Online diagnosis test of SMC.
		SUNWvts	4.0	
		SUNWvtsmn	4.0	
		SUNWvtsx	4.0	
14	REMCS Agent	FJSVsmcrm	3.3	Reports to the REMCS center the unit status and error information related to PRIMEPOWER 800/1000/2000 and GP7000F models 1000/2000.
		FJSVsirms	2.1.1	Collects software information.
		FJSVrlib	4.2	Auxiliary function that reports information to the REMCS center
		FJSVrmaos	2.5	
		FJSVragt	2.5	
		FJSVrrda	2.5	
		FJSVsmcro	3.3	REMCS Agent Operator's Guide Online Manual (in HTML format)

*1: GP7000F Model 200 or PRIMEPOWER200 pedestal only

*2: PRIMEPOWER 100 SMC only

Chapter 2 Applicable Manuals

2.1 Online Manuals

The following manuals, which are in HTML format, are stored on the CD-ROM provided with the packages.

No.	Manual title	Format
1	System Console Software User's Guide	HTML, pdf
2	REMCS Agent Operator's Guide	HTML, pdf
3	System Console Software Release Notes	pdf
4	SMC REMCS Agent Release Notes	pdf
5	Dynamic Reconfiguration Architecture Guide	pdf
6	System Management Console Security Development Guide	pdf
7	Enhanced Support Facility User's Guide	pdf
8	Machine Administration Guide	pdf
9	FJVTs Test Reference Manual	pdf
10	SunVTS 2.1 Quick Reference Card	pdf
11	Web-Based Admin View Operation Guide V20	pdf

2.1.1 Referring to the online manuals (HTML format)

It is possible to refer to the manual by installing SCS on SMC. After the login procedure on SMC, please select the icon of "User's Guide" from the tool menu window on the screen.

The following manuals selection windows are displayed.

- System Console Software User's Guide
- REMCS Agent Operator's Guide

2.1.2 Referring to the online manuals (pdf format)

It is possible to refer to an online manual of the pdf form by using Acrobat Reader. Please refer to the following manuals for the method of installing Acrobat Reader.

- GP7000F System Management Console (SMC) User's Manual

- PRIMEPOWER System Management Console (SMC) User's Manual
- PRIMEPOWER100 User's Manual System Management Console model
- PRIMEPOWER2000/1000/800 Installation Guide

The reference method is as follows.

1. Insert the CD-ROM into the CD-ROM drive on the server.
2. If the CD-ROM has not been mounted, mount it.

```
# /etc/init.d/volmgt start <Return>
```

3. Enter the command below to start Acrobat Reader.

```
# /opt/Acrobat4/bin/acroread & <Return>
```

4. Open the following file.

```
/mount_point/doc/english/<File_name>
```

<File_name> is as follows..

Manual	File_name
System Console Software Release Notes	ReleaseNote.pdf
SMC REMCS Agent Release Notes	SMC_REMCS_RN.pdf
Dynamic Reconfiguration Architecture Guide	DR_arch_guide.pdf
System Management Console Security Development Guide	SMC_secure.pdf
Enhanced Support Facility User's Guide	esfug.pdf
Machine Administration Guide	madm.pdf
FJVTs Test Reference Manual	fjvts.pdf
SunVTS 2.1 Quick Reference Card	sunvts.pdf
System Console Software User's Guide	scsug.pdf
REMCS Agent Operator's Guide	REMCS_og.pdf
Web-Based Admin View Operation Guide V20	webview_ome.pdf

Chapter 3 Operating Environment

To use this software, the following software and hardware prerequisites must be performed.

3.1 Software Environment

1) Basic Software prerequisites

Before you can use this software, one of the following Basic Software products must have been installed on the system.

No.	Name of Basic Software	Remarks
1	Solaris 7 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. ● SUNWbtool ● SUNWxwplt ● SUNWxwcft ● SUNWolrte ● SUNWoldst ● SUNWmfrun ● SUNWcslx ● SUNWdtbas ● SUNWtltk ● SUNWxwice ● SUNWcar ● SUNWkvm ● SUNWxwcft ● SUNWxwopt ● SUNWdtcor ● SUNWctpls ● SUNWesu ● SUNWxfnt ● SUNWxilrl ● SUNWxilow	● For PRIMEPOWER and GP7000F, Solaris 7 5/99 or later can be used. ● If you select the software group that contains "Developer System Support" when you install Solaris 7 5/99 or later, you can install Solaris 7 5/99 or later and the required packages at the same time.
2	Solaris 8 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. ● SUNWbtool ● SUNWxwplt ● SUNWxwcft ● SUNWolrte ● SUNWoldst ● SUNWmfrun ● SUNWcslx ● SUNWdtbas ● SUNWtltk ● SUNWxwice ● SUNWcar ● SUNWkvm ● SUNWxwcft ● SUNWxwopt ● SUNWdtcor ● SUNWctpls ● SUNWesu ● SUNWxfnt ● SUNWxilrl ● SUNWxilow	● If you select the software group that contains "Developer Solaris Software Group" when you install the Solaris 8, you can install the Solaris 8 and the required packages at the same time.

2) Software requirements

None

3) Excluded software

When this software is used, do not install the following software product.

No.	Name of software product	Package name	Version	Remarks
1	Basic Software Extension	All packages	1.0 and later	
2	Enhanced Support Facility	All packages	1.0 and later	

4) Patch requirements

None

3.2 Hardware Environment

The following hardware environment is required when using this software.

1) Main memory

Main memory of 128Mbytes or more

2) Hardware requirements

Please satisfy hardware requirements of SMC.

Please refer to the System Console Software Release Notes.

3.3 Static Disk Requirements

The disk space requirements for this software are shown below.

3.3.1 Disk requirements

The following tables list the disk space requirements for installing this software. If disk space is insufficient, expand the size of the appropriate file systems.

No.	Directory	Disk space requirement (in Mbytes)	Remarks
1	root	2.2	
2	/usr	0.2	
3	/var	4.7	
4	/export/home	0	
5	/opt *	124.9	

*** Do not attempt to install this software in a directory other than "/opt."**

3.3.2 Work area requirements

When you install this software with the following installation procedures, additional disk workspace as shown below might be required.

No.	Via spool directory	Directory	Disk space requirement (in Mbytes)	Remarks
1	No	/tmp	0.5	

3.4 Dynamic Disk Resources

The dynamic disk space requirements for this software are shown below.

3.4.1 Disk space requirements

When you use this software for the following operations, additional disk space might be required in the directories

listed in "3.3 Static Disk Requirements." If disk space is insufficient, expand the size of the appropriate file systems as shown.

No.	Component	Directory	Additional disk space requirement (in M bytes)	Operation
1	FJVTs	/var	0.1	message log
2	Server Default Configuration	/var	1.0	Normal operation
3	RC2000	/var	0.2	Normal operation : Composition of one partition (0.2MB necessity whenever one partition is added)
4	SMC Assistance	/	0.01	Normal operation
		/var	3.82	
5	Machine Administration	/var	140	When server is one 40MB necessity whenever one server is added
6	REMCS Agent	/var	0.1	Normal operation

3.5 Memory Requirements

The following table shows the memory required when you use this software for the following operations.

No.	Component	Memory required (unit: MB)	Operation
1	FJVTs	16.1	Executing the TP option with the default value, in the following situation: ● 2CPU, 1Disk(4GB), 128MB memory
		46.0	Executing the TP option with the default value, in the following situation: ● 1CPU, 2Disk(4GBx2), 128MB memory
2	RC2000	6.8	When you start one console window.
		2.5	Whenever one console window is added, it is necessary.
3	SMC Assistance	4.84	
4	Machine Administration	11.7	When server is one
5	REMCS Agent	0.1	Normal operation

3.6 Swap Space

The following shows the swap space requirement of this software in normal operation. The swap space requirement depends on the system situation. The total swap space can be calculating as the sum of each individual swap space requirement. If the swap space provided by the system is insufficient, it must be expanded.

No.	Component	Swap capacity (unit: Mbytes)	Description
1	DR Command	0.1	Executing Dynamic Reconfiguration.
2	SCF Driver	0.1	Normal operation (daemon, commands)
3	FJVTs	35.4	Executing the TP option with the default value, in the following situation: ● 2CPU, 1Disk(4GB), 128MB memory
		54.0	Executing the TP option with the default value, in the following situation: ● 1CPU, 2Disk(4GBx2), 128MB memory
4	Web-Based Admin View / WWW Server for Admin View	0.5	Starting the web daemon, and then accessing the management server from the client.
		1.5	Starting Java VM on the management server.
		4.0	Starting Java VM on the management server, then starting the environment setting menu on the management server from the client.
		4.0	Starting Java VM on the management server, then starting the Logging View menu on the management server from the client.
5	Machine Administration	64.6	Standard use (daemon, GUI menu)
6	Server Default Configuration	0.5	Normal operation (Solaris 7/Solaris 8 only)
		0.7	Using the memory error inspection function. (Solaris 7/Solaris 8 only)
7	RC2000	4.8	When you start one console window.
		3.3	Whenever one console window is added, it is necessary.
8	SMC Assistance	0.32	Standard use
9	REMCS Agent	5.4	Standard use

Chapter 4 Restrictions and Notes

4.1 Restrictions

None

4.2 Cautions when Upgrading

The cautions when upgrading from the previous level to this software level are described below.

4.2.1 User data compatibility

There are no user data incompatibilities between this version and the previous version of this software.

4.2.2 Environment definition file compatibility

There are no environment definition file incompatibilities between this version and the previous version of this software.

4.3 Notes

This software cannot be installed in devices other than System Management Console.

Chapter 5 Installation Procedures

5.1 Preparing for installation

5.1.1 Checking the system environment

System Console Software is installed by overwriting.

Check the available disk space for installing this software. For more detailed information of the disk space requirements, see "3.3 Static Disk Resources".

5.1.2 Installation time

It takes about 10 minutes to install this software. Note that this installation time does not include any time for rebooting, as that depends on the system configuration.

5.2 Installing System Console Software

1. Login as root. And open the "Terminal Console".
2. The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -g0 -y -i0 <Return>
```

3. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE  
  
Type Ctrl-d to proceed with normal startup,  
(or give root password for system maintenance):password <Return>
```

4. Enter the root password and when the prompt (#) appears, execute the commands as shown below:

```
# /usr/sbin/mountall -l <Return>  
# /etc/init.d/volmgt start <Return>
```

5. Insert the System Console Software CD-ROM into the SMC.

6. Change the directory and execute the `scslinstall` command.

```
# cd /cdrom/cdrom0/tool <Return>
# ./scslinstall <Return>

Installation completed.
#
```

Note1

The following message may be displayed when installing package, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note2

The following message may be displayed when installing SUNWvts or SUNWvtsx packages, but the installation will complete normally.

```
Note: The SymON configd package is not installed. This package is
      required in order to support the SunVTS physical configuration
      mapping mode. SunVTS will function normally in its default logical
      configuration mapping mode. However, if physical configuration
      mapping is desired, please install the correct SymON configd package
      for your platform:
      * For Desktop platform, install SUNWeswsa package.
      * For WorkGroup Server platform, install SUNWeswga package.
      * For Enterprise Server platform, install SUNWsyscd package.
      :
      :
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -l]
```

7. Ejects the System Console Software CD-ROM from the SMC.

```
# cd / <Return>
# eject cdrom <Return>
```

8. Reboot the system.

```
# /usr/sbin/shutdown -g0 -y -i6 <Return>
```

5.3 Confirmation after System Console Software is installed

Please confirm the following files, and confirm whether the error occurs in the system during reboot.

```
# more /var/adm/messages <Return>
```

5.4 Environment setting after installation

If you want to use another interface for User (Administration) LAN interface on the partition side instead of `hme0`, please follow a procedure as follows.

Additionally, Please apply the following patches for the partition included in PTF R02021 before LAN setting when you use ESF 1.4.

Patch number:910359-01

Procedure:

- 1) Please execute the following commands in Solaris for the partition.

```
# /usr/sbin/FJSVmadm/addevhost hostname <Return>
```

The hostname in User (Administration) LAN interface is specified for the *hostname*.

- 2) Reboot the partition or restart the Partition-System Management Console communication daemon by the following commands.

Execute the following command to send the daemon stop instruction.

```
# /usr/sbin/FJSVmadm/cmdevsnd -s <Return>
```

Execute the following command to confirm the stop of the daemon.

```
# ps -ef | grep evsndd <Return>
```

Confirm the process of "evsndd" is not displayed.

Execute the following command to start the daemon.

[When the partition is using ESF2.0 or before]

```
# /usr/sbin/FJSVmadm/evsddd <Return>
```

[When the partition is using ESF2.1 or later]

```
# /usr/sbin/FJSVmadm/rununitinfo <Return>
```

- 3) The following message might be displayed in the System Management Console while executing this procedure. There is no problem.

```
Feb  5 10:38:16 console0 : machine0.partition0:FJSVcsl:I:Disk:FJSVcsl:Disk configuration changed.
```

5.5 Applying modifications

If PTF (Program Temporary Fix), patches, etc. are distributed, apply the latest versions of the modifications. Refer to the manual supplied with the modification for information on how to do this.

5.6 Removing System Console Software

If you take the following procedures, all of the packages provided in this software will be removed.

1. Login as root. And open the "Terminal Console".
2. The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -g0 -y -i0 <Return>
```

3. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE

Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance):password <Return>
```

4. Enter the root password and when the prompt (#) appears, execute the commands as shown below:

```
# /usr/sbin/mountall -l <Return>
# /etc/init.d/volmgt start <Return>
```

5. Insert the System Console Software CD-ROM into the SMC.
6. Change the directory and execute the scslinstall command.

```
# cd /cdrom/cdrom0/tool <Return>
# ./scslidel <Return>

All uninstallation completed.
#
```

7. Ejects the System Console Software CD-ROM from the SMC.

```
# cd / <Return>
# eject cdrom <Return>
```

8. Reboot the system.

```
# /usr/sbin/shutdown -g0 -y -i6 <Return>
```

Appendix A Command Reference

A.1 scslinstall(1M)

NAME

scslinstall - Installs System Console Software onto the system

SYNOPSIS

scslinstall

DESCRIPTION

scslinstall determines the platform of the system automatically and installs System Console Software onto the system with the System Console Software medium(CD-ROM).

If any older version System Console Software / common packages have been installed on the system, this command will update them.

EXIT STATUS

The following exit values are returned:

0	Successful execution.
not 0	Fatal error.

SEE ALSO

scslidel(1M), pkgadd(1M)

NOTES

This command can be executed only with "root" authority.

Please use this command in the single-user mode.

When the package application is done, the desktop environments of root of SCS is customized in initial state as SMC.

The previous environment is saved in \$HOME/.dt_org.

A.2 scslidel(1M)

NAME

scslidel - Removes System Console Software from the system

SYNOPSIS

scslidel

DESCRIPTION

scslidel removes a previously installed System Console Software from the system.

EXIT STATUS

The following exit values are returned:

0	Successful execution.
not 0	Fatal error.

SEE ALSO

scslinstall(1M), pkgrm(1M)

NOTES

This command can be executed only with "root" authority.

Please use this command in the single-user mode.

When the package of SCS is deleted, the desktop environments of "Root" and Administrator is as follows. The environment becomes a previous state by which the SCS package is applied. Or, it becomes the environment of spare SMC. The previous environment is saved in \$HOME/.dt_sc.



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