



Sun Update Connection System 1.0.8 Administration Guide



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Preface

The *Sun Update Connection System 1.0.8 Administration Guide* explains the purpose and features of the SunSM Update Connection System. This software includes the Sun Update Connection Hosted web application the Sun Update Connection System Update Manager client software, henceforth referred to as Update Manager, and the Sun Update Connection Proxy. All these features are discussed in this book.

This book also describes how to install, register, and use the Sun Update Connection System software. The Sun Update Connection System provides a consolidated set of robust patch and update tools for managing updates on the SolarisTM Operating System.

Note – The terms *patch* and *update* are used interchangeably in the Sun Update Connection System software and in this book.

How This Book Is Organized

This guide contains six chapters, an appendix, and a glossary.

[Chapter 1](#) describes how to get started using the Sun Update Connection System in your update management environment. This chapter also provides an overview of Solaris updates, describes the main features in this release, and describes concepts to become familiar with before applying updates.

[Chapter 2](#) describes how to install and uninstall the Sun Update Manager client software. It also explains how to install the Sun Update Connection System Proxy software.

[Chapter 3](#) describes how to register your system to take advantage of the functionality of the Sun Update Connection System.

[Chapter 4](#) describes how to use the Sun Update Manager application to manage updates.

[Chapter 5](#) describes how to use the Sun Update Connection Hosted web application to remotely manage updates on one or more systems.

[Chapter 6](#) describes how to configure and use a Sun Update Connection Proxy, also referred to as a local patch server, on your intranet.

[Appendix A](#) describes the browser interface and how to navigate the interface.

[Glossary](#) is a list of terms that are used in this book and their definitions.

Related Books

The *Solaris 10 Reference Manual* includes information about the `smpatch` command, the `sconadm` command, and the `patchsvr` command. See the `smpatch(1M)` man page, the `sconadm(1M)` man page, and the `patchsvr(1M)` man page in this manual.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- [Documentation](http://www.sun.com/documentation/) (<http://www.sun.com/documentation/>)
- [Support](http://www.sun.com/support/) (<http://www.sun.com/support/>)
- [Training](http://www.sun.com/training/) (<http://www.sun.com/training/>)

Typographic Conventions

The following table describes the typographic conventions that are used in this book.

TABLE P-1 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>aabbcc123</i>	Placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . <i>A cache</i> is a copy that is stored locally. Do <i>not</i> save the file. Note: Some emphasized items appear bold online.

Shell Prompts in Command Examples

The following table shows the default UNIX® system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell	machine_name%
C shell for superuser	machine_name#
Bourne shell and Korn shell	\$
Bourne shell and Korn shell for superuser	#

Overview of the Sun Update Connection System

The SunSM Update Manager software is one part of the Sun Update Connection System software that enables you to locally manage updates on your system. Sun Update Connection System Update Manager is henceforth referred to as Update Manager.

This chapter covers the following topics:

- “Getting Started With the Sun Update Connection System” on page 11
- “Overview of Solaris Update Management” on page 14
- “Sun Update Connection System Features” on page 20
- “Update Manager Concepts” on page 26

Note – The terms *patch* and *update* are used interchangeably in the Sun Update Connection System software and in this book.

Getting Started With the Sun Update Connection System

Note – If you are familiar with the Sun Update Connection System and would like to install the Update Manager client software, go to [Chapter 2](#).

The Sun Update Connection System has three user interfaces that you can use to manage updates on your system. You can use either of the two Update Manager user interfaces to locally manage updates on your system. The user interfaces are the Sun Update Manager graphical user interface and the `smpatch` command-line interface. You can also use the Sun Update Connection Hosted web application to remotely manage updates on one or more of your systems.

This section covers the following topics:

- “Getting Started Process Overview” on page 12
- “Comparison of Update Manager User Interfaces” on page 12

Getting Started Process Overview

Before you can use Update Manager or the Sun Update Connection Hostedweb application to manage updates on your systems, you must determine the update management strategy you want to use.

1. Install and start the Update Manager application on your Solaris™ 10 system.
2. Find the situation that best describes your update management environment.
 - Your client system is directly connected to the Internet.
You are ready to begin the system registration process.
 - Your client system is connected to the Internet by means of a network proxy.
You must first specify the host name and port of the network proxy during the system registration process. If required, also specify the user name and password associated with the network proxy.
 - You want to have several client systems obtain updates from a Sun Update Connection Proxy on your intranet.
You must first configure a system to act as your Sun Update Connection Proxy. See [“Configuring Your Sun Update Connection Proxy \(Task Map\)”](#) on page 89. Then, configure your client system to obtain updates from the proxy during the registration process.
3. Register your Solaris system with Update Manager.

During the registration process, you are prompted for a Sun Online Account. You might already have a Sun Online Account if you registered for an account with programs such as Java Developer ConnectionSM, Online Support Center (OSC), My Sun, SunSolveSM, and Sun Store.

Determine the update management strategy you want to use based on your level of registration and subscription.

 - **Unregistered system.** Manually obtain and manage Solaris security updates locally on your system by using the `smpatch add` command and the `smpatch remove` command.
 - **Registered system with no subscription.** Use Update Manager to locally manage only Solaris security updates.
 - **Registered system with a subscription and managed with Sun Update Connection System.** Use the Sun Update Connection Hosted web application to remotely manage all Solaris updates. A subscription is part of the Sun Service Plan. You can still manage updates locally by using the Update Manager GUI or the `smpatch` command.
4. Manage updates on your Solaris systems.

Comparison of Update Manager User Interfaces

The following table summarizes the Sun Update Connection System features and tasks that are supported by the GUI, the command-line interface (`smpatch`), and the Sun Update Connection Hosted browser interface.

TABLE 1-1 Comparison of Features Supported by the Sun Update Connection System User Interfaces

Feature/Task	Graphical User Interface	Command-Line Interface	Browser Interface
Can apply updates to a system?	Yes	Yes	Yes
Can perform update management operations on a remote system?	Yes. You can run the GUI on a remote system and display it on your local system. Also, use the Sun Update Connection Hosted web application to remotely manage your system.	Yes, in remote mode <code>smatch</code> only. Local mode <code>smatch</code> can only be run on the local system.	Yes
Can analyze a system for updates?	Yes	Yes	Yes
Can perform a scheduled update analysis of your system?	Yes	Yes. Use <code>cron</code> to run the <code>smatch analyze</code> command.	Yes
Can download individual updates?	No, only those updates that are marked as Download Only, which the Sun Update Connection System cannot install, can be downloaded.	Yes	No, only those updates that are marked as Download Only, which the Sun Update Connection System cannot install, can be downloaded.
Can resolve update dependencies?	Yes	Sometimes. If you run <code>smatch add</code> , update dependencies are <i>not</i> resolved. However, if you run <code>smatch update</code> or <code>smatch analyze -i update-id</code> , update dependencies are resolved.	Yes

TABLE 1-1 Comparison of Features Supported by the Sun Update Connection System User Interfaces
(Continued)

Feature/Task	Graphical User Interface	Command-Line Interface	Browser Interface
Can remove more than one update at a time?	Yes	No. <code>smpatch remove</code> can remove just one update at a time.	Yes
Can be run while the system is in single-user mode?	No	Yes. Limited operations of local mode <code>smpatch</code> only.	No
Can access updates from a Sun Update Connection Proxy?	Yes	Yes	Not applicable.
Can operate on update lists?	No	Yes	No
Can configure the update management environment for your system?	Yes	Yes	Yes
Supports RBAC?	No	Yes	No

Overview of Solaris Update Management

Update management involves *applying* Solaris updates, also referred to as *patches*, to a system. Update management might also involve removing unwanted or faulty updates. Removing updates is also called *backing out* updates.

This section covers the following topics:

- “Types of Updates” on page 14
- “Accessing Solaris Updates” on page 15
- “Tools for Managing Solaris Updates” on page 16

For information about applying patches to diskless client systems, see “Patching Diskless Client OS Services” in *System Administration Guide: Basic Administration*.

For information about recommended strategies and practices for using Solaris updates, see *Solaris Patch Management Recommended Strategies* at <http://docs.sun.com/app/docs/coll/1078.1>.

Types of Updates

An *update* is a collection of files and directories that replaces or updates existing files and directories that are preventing proper execution of the existing software. An update might also introduce a new feature to the system. Such an update is called a *feature update*. The existing software is derived from a specified *package* format, which conforms to the application binary interface (ABI).

You can manage updates on your Solaris system by using the Update Manager application, the `smpatch` command, or the `patchadd` command.

Note – Do not use the Update Manager GUI, the `smpatch` command, and the `patchadd` command simultaneously to manage updates on your system. While the Update Manager GUI is running, changes made by `smpatch` and `patchadd` might not be reflected correctly in Update Manager.

Signed and Unsigned Updates

A *signed update* is one that has a *digital signature* applied to it. An update that has its digital signature verified has not been modified since the signature was applied. The digital signature of a signed update is verified after the update is *downloaded* to your system.

Updates and patches for Solaris releases are available as signed updates and as unsigned updates. *Unsigned updates* do not have a digital signature.

Signed updates are stored in Java™ archive format (JAR) files and are available from the Sun update server. Unsigned updates are stored in directory format and are also available from the Sun update server as .zip files.

Accessing Solaris Updates

Sun customers can access updates and patches from the Sun update server whether or not they are in the SunSpectrumSM program. These updates and patches are updated nightly.

You can obtain Solaris updates in the following ways:

- From the <http://sunsolve.sun.com> web site
To access updates from the Sun Patch Portal, your system must be connected to the Internet and be capable of running a web browser, such as the Mozilla™ software.
- By using the Update Manager tools that are described in [Chapter 4](#)
- By using the [Sun Update Connection Hosted web application](#) that is described in [Chapter 5](#)

You can access individual updates or a set of updates from an update cluster, or refer to update reports. You can also use Update Manager to *analyze* your system to determine the appropriate updates. Update Manager can also download and apply the updates to your system.

Each update is associated with a README file that has information about the update. You can view, print, or save each README file from the Update Manager GUI.

Solaris Update Numbering

Updates are identified by unique update IDs. An *update ID* is an alphanumeric string that is an update base code and the update revision number joined with a hyphen. For example, update 118822-02 is the update ID for the SunOS™ 5.10 kernel update.

Tools for Managing Solaris Updates

You can use the following tools to apply updates to Solaris systems:

- Sun Update Connection System tools:
 - Update Manager graphical user interface (GUI)
 - Sun Update Connection Hosted web application
 - Update Manager command-line interface (`smpatch`)
- `patchadd` command
- Solaris Management Console (`smc`) Patches tool (GUI, starting with Solaris 9)

If you need to apply a patch to a diskless client system, see “Patching Diskless Client OS Services” in *System Administration Guide: Basic Administration*.

The Update Manager application is part of the Sun Update Connection System software product. The Sun Update Connection Hosted web application is also part of this software product.

The following table summarizes the availability of various Solaris update management tools.

TABLE 1-2 Availability of Solaris Update Management Tools

Tool Availability	Update Manager and Sun Patch Manager 2.0	Sun Update Connection System	<code>patchadd/patchrm</code> Commands	Solaris 2.6 and Solaris 7 Patch Management Tools
How do I get this tool?	<p>For Solaris 10 – Apply the Update Manager feature update.</p> <p>For Solaris 8 or Solaris 9 – Download the appropriate version of the Patch Manager tool from the Sun Download Center web site.</p>	Run tool from the Sun Update Connection System web site.	Included with the Solaris release.	Download the tool from the Sun Download Center.
Solaris release availability	<p>For Solaris 10 – Update Manager.</p> <p>For Solaris 8 and Solaris 9 – Sun Patch Manager 2.0.</p>	Solaris 10.	Solaris 2.6, Solaris 7, Solaris 8, and Solaris 9 releases.	Solaris 2.6 and Solaris 7 releases.

TABLE 1–2 Availability of Solaris Update Management Tools (Continued)

Tool Availability	Update Manager and Sun Patch Manager 2.0	Sun Update Connection System	patchadd/patchrm Commands	Solaris 2.6 and Solaris 7 Patch Management Tools
Applies signed updates?	Yes, and automatically verifies the signed update when it is downloaded.	Yes	Starting with Solaris 9 12/03 – Yes, and automatically verifies the signed update when it is downloaded.	Yes, and automatically verifies the signed update when it is downloaded.
Applies unsigned updates?	For Update Manager – No. For Sun Patch Manager 2.0 – Yes, but the updates must be unzipped first.	Yes	Yes	No
GUI available?	For Solaris 10 – Yes, for systems running Update Manager. For Solaris 9 – Yes, for systems running Patch Manager (smc). For Solaris 8 – No.	Web application is hosted at Sun.	No	No
Analyzes system to determine the appropriate updates, and downloads signed or unsigned updates	Yes, signed updates only.	Yes	No	Yes, signed updates only.
Local and remote system update support	Local and remote. For Solaris 8 – Local.	Remote	Local	Local
RBAC support?	For Update Manager – No. For smpatch – Yes.	Not applicable	Yes	No

Managing Solaris Updates

While you apply updates, the `patchadd` command logs information in the `/var/sadm/patch/update-id/log` file.

The `patchadd` command cannot apply an update under the following conditions:

- The package is not fully installed on the system.
- The update package's architecture differs from the system's architecture.
- The update package's version does not match the installed package's version.
- An update with the same base code and a higher revision number has already been applied.
- An update that makes an applied update *obsolete*.
- The update is *incompatible* with an update that has already been applied to the system.
- The update being applied depends on another update that has not yet been applied.

Selecting the Best Method for Applying Updates

You can use several different methods to download or apply one or more updates to your system. Use the following table to determine which method is best for your needs.

Note – The version of the `smpatch` command described in this table was first available for Solaris 8 systems.

TABLE 1-3 Comparison of Update Methods

Command or Tool	Description	For More Information
Update Manager GUI	<p>Use this tool when you want the convenience of a GUI to manage updates.</p> <p>Following are some features of this GUI:</p> <ul style="list-style-type: none"> ▪ Analyzing your system to determine the appropriate updates ▪ Updating the system with one or more updates ▪ Removing updates ▪ Viewing the list of applied updates ▪ Configuring your update management environment ▪ Notifying you when new updates are available for your system 	Chapter 4

TABLE 1-3 Comparison of Update Methods (Continued)

Command or Tool	Description	For More Information
Sun Update Connection Hosted web application	Use this web application, which is hosted at Sun, to remotely manage updates on all of your Solaris 10 systems.	Chapter 5
<code>smpatch update</code>	Use this command to analyze your system to determine the appropriate updates, and to automatically download and apply the updates. Note that this command will not apply an update that has the <code>interactive</code> property set. For Solaris 8 systems, only the local mode <code>smpatch</code> is available.	<code>smpatch(1M)</code> man page
<code>smpatch analyze</code> and <code>smpatch update</code>	First, use <code>smpatch analyze</code> to analyze your system to determine the appropriate updates. Then, use <code>smpatch update</code> to download and apply one or more of the updates to your system. Note that this command will not apply an update that has the <code>interactive</code> property set. For Solaris 8 systems, only the local mode <code>smpatch</code> is available.	<code>smpatch(1M)</code> man page
<code>smpatch analyze</code> , <code>smpatch download</code> , and <code>smpatch add</code>	First, use <code>smpatch analyze</code> to analyze your system to determine the appropriate updates. Then, use <code>smpatch download</code> to download them. This command also downloads any prerequisite updates. Then, use <code>smpatch add</code> to apply one or more of the updates to your system while the system is in single-user or multiuser mode. For Solaris 8 systems, only the local mode <code>smpatch</code> is available.	<code>smpatch(1M)</code> man page

TABLE 1-3 Comparison of Update Methods (Continued)

Command or Tool	Description	For More Information
patchadd	<p>Starting with Solaris 2.6 release – Apply unsigned updates to your system.</p> <p>Starting with Solaris 9 12/03 release – Use this command to apply either signed or unsigned updates to your system. To apply signed updates, you must first set up your package <i>keystore</i>.</p>	patchadd(1M) man page

If you choose to use the `smpatch` command-line interface or the Update Manager graphical user interface to apply updates, see [“Getting Started With the Sun Update Connection System”](#) on page 11 for additional information that might affect which method you select.

Sun Update Connection System Features

This section describes the main features of Sun Update Connection System:

- [“Update Manager Graphical User Interface”](#) on page 20
- [“Sun Update Connection Hosted Web Application”](#) on page 21
- [“Sun Update Connection Proxy”](#) on page 22
- [“PatchPro Analysis Engine”](#) on page 23
- [“Local-Mode Command-Line Interface”](#) on page 23
- [“Update List Operations”](#) on page 25

To use the Update Manager tool, you must install at least the End User Solaris Software Group of Solaris 10 software.

Note – As of March 2006, not all Sun updates are available through the Update Manager application. Such updates include those that do not conform to PatchPro standards and those that have third-party contract restrictions.

Information about Solaris patches and the Sun Patch Manager 2.0 software is in *System Administration Guide: Basic Administration* in the Solaris 10 System Administrator Collection on the docs.sun.comSM site.

Update Manager Graphical User Interface

Update Manager offers a graphical user interface for updating systems with updates. You can use the GUI to analyze your system, apply updates you select, remove updates, and configure your update management environment.

As of June 2006, the Update Manager GUI has an updated GNOME Graphics Tool Kit (GTK+) look and feel. Update Manager now has these new features:

- The Help pull-down menu has an Icon Legend option and an About option. The Icon Legend dialog box contains a list and description of the icons used in the Update Manager GUI. The About dialog box provides information about the current release of the Sun Update Connection System.
- Print and Save As options are available for Installed Updates, Available Updates, and README files from the File pull-down menu.
- Available Update and Installed Update windows have been redesigned to be more user-friendly.
- The Manage at Sun Update Connection link is now located above the table of updates in the right corner of the Update Manager window.
- Many new icons have been integrated into Update Manager, including new status notification icons. See [Chapter 4](#) for more information.

Sun Update Connection Hosted Web Application

The Sun Update Connection Hosted web application enables you to remotely monitor and manage all update activities for each of your registered systems. This web application is hosted at Sun.

Note – Systems that you manage with the Sun Update Connection Hosted web application can still be managed locally by using Update Manager. The update data that appears in these tools might be out of sync due to latency.

The Sun Update Connection Hosted web application is hosted on a Sun web site. You can use this tool to create jobs to run on systems as they check in to the service. A job either installs an update or uninstalls an update. You can also use the Hosted web application to view the update status of your systems and of your jobs.

The Sun Update Connection Hosted web application has these features:

- **Automatic check-in of registered systems.** Each registered system *checks in*, or connects, to the Sun Update Connection System web site to run queued jobs, which install and uninstall updates. You can specify the check-in interval for each system.
- **Job creation.** Create a *job* to download and install an update to one or more systems.
- **Job monitoring.** View the progress of all update jobs.
- **Job management.** Cancel pending jobs, archive completed jobs, and schedule system restarts to install updates that require a reboot.

For more information about the Sun Update Connection Hosted web application, see [Chapter 5](#).

Sun Update Connection Proxy

The *Sun Update Connection Proxy* was previously called *local patch server*.

This proxy supports client systems that use the Sun Update Connection System software and the Sun Patch Manager 2.0 software. A Sun Update Connection System client system is not compatible with the older local patch server feature associated with the Sun Patch Manager 2.0 product.

Note – The Sun Update Connection Proxy is an optional feature that you can obtain at no charge if you have a Sun Service Plan. For information about obtaining a Sun Service Plan, go to Solaris Operating System Software Support at <http://www.sun.com/service/support/software/solaris/> and select the appropriate level of service.

Starting with the Solaris 8 Operating System, client systems can access updates and update data to perform *update analysis* and maintenance. This update data is provided by an update source. The update source can be an *update server*, such as the Sun update server or a Sun Update Connection Proxy (also referred to as a local patch server), or a local collection of updates.

By using a Sun Update Connection Proxy on your intranet, you can serve updates to your local systems and minimize the Internet traffic between your systems and the Sun update server. This type of proxy *caches* any updates that are downloaded from its update source.

For information about configuring this type of proxy on your intranet, see “[Configuring Your Sun Update Connection Proxy by Using the Command-Line Interface](#)” on page 92.

The Sun Update Connection Proxy obtains updates from its source of updates on a per-request basis. You do not need to stock your proxy with updates before you use it.

The system that you choose to act as the Sun Update Connection Proxy must be running at least Solaris 10 and have at least the Developer Solaris Software Group installed. This system must also have the Update Manager software installed.

Benefits of Using a Sun Update Connection Proxy

Using a Sun Update Connection Proxy addresses security concerns as well as system analysis and update download performance issues.

For instance, if your client systems are connected to a Sun Update Connection Proxy and managed locally, the client systems do not need to be connected to the Internet. These client systems also do not need to be registered by the Update Manager software.

As another example, using this type of proxy can improve update-related performance issues. Instead of updates and metadata being downloaded from the Sun update server to each of your systems, the update is downloaded only once to your Sun Update Connection Proxy. After the update data is stored on this server, update data is transferred to your system for analysis over your intranet instead of over the Internet.

You can configure a chain of Sun Update Connection System Proxies on your intranet. The last link in the chain of proxies can point to the Sun update server or to a local collection of updates. By using this chain of proxies, an update download request from your system to its primary Sun Update Connection Proxy can be forwarded to other proxies in the chain in an attempt to fulfill the request. If your system's primary Sun Update Connection Proxy cannot locate an update, it makes the same request of the next proxy in the chain to see if the update is stored there. If the update is found, it is downloaded to the system. If the update is not found, the request continues along the chain until the update is found or the last proxy in the chain is reached.

For example, your company has a Sun Update Connection Proxy that obtains updates directly from the Sun update server. Each office in your company has its own Sun Update Connection Proxy that obtains updates from the company proxy.

Each Sun Update Connection Proxy in the chain stores the updates found on another proxy in the chain based on the download request. So, an update that is not initially found on your proxy will be downloaded to your Sun Update Connection Proxy and stored before being downloaded to the client system. Each system in a chain of proxies might increase the amount of time it takes to download updates to your client system. So, the first time a client system requests a download, the update is downloaded to the proxy system over the Internet. Subsequent requests for that update are downloaded to the client system from the proxy system over your intranet.

PatchPro Analysis Engine

Update Manager incorporates *PatchPro* functionality. PatchPro performs update analyses on systems, then downloads and applies the resulting updates. This automation functionality was previously available for Solaris 2.6, Solaris 7, Solaris 8, and Solaris 9 as a separate PatchPro product, and in the Sun Patch Manager 2.0 product. PatchPro functionality is now part of the Update Manager software.

PatchPro uses signed updates, which improves the security of Solaris updates by ensuring that they have not been modified.

Note – The `pprosetup` and `pprosvc` commands are included with Update Manager for transition purposes. It is best *not* to use these commands and to use the `smpatch` command instead.

Local-Mode Command-Line Interface

Note – On Solaris 8 systems, you can only run `smpatch` in local mode.

Starting with Solaris 9, the `smpatch` command is available in two modes: local mode and remote mode. *Local mode* can only be run on the local system. This mode can be run while the system is in single-user or multiuser mode. *Remote mode* can be used to perform tasks on remote systems. Both local mode and remote mode can be used by users or roles that have the appropriate authorizations.

By default, `smatch` runs in local mode. In local mode, the Solaris WBEM services are not used, and none of the authentication options or options that refer to remote systems are available. The `smatch` command in local mode runs faster than in remote mode.

If you specify any of the remote or authentication options (except for `-L`), remote mode is used.

Single-User Mode Operations in Local Mode

You can use the `smatch add` command in local mode to apply updates while the system is in single-user mode. Apply updates in this way when the updates are associated with the `singleuser` update property, or when you want to apply any updates to a quiet system.

Use only the `smatch add`, `smatch order`, and `smatch remove` commands to manage updates when your system is running in single-user mode.

You can configure your update management environment while the system is running in single-user mode by using the `smatch get`, `smatch set`, and `smatch unset` commands.

Do not use the `smatch analyze`, `smatch download`, and `smatch update` commands while the system is running in single-user mode. These commands depend on network services that are not available while the system is in single-user mode.

Some updates cannot be automatically applied to your system if they do not meet the [policy for applying updates](#). These updates might need to be applied manually in single-user mode.

Updates that require an immediate reboot or reconfiguration reboot after applying them are not applied immediately. Instead, these updates are automatically applied during a scheduled system shutdown.

The `smatch` Live Upgrade Support Feature

This new feature enables users to install all updates in multi-user mode, instead of deferring the updates that require a system-restart to single-user mode.

To activate live upgrade support, you can use the `-b boot-env` option with the `smatch add`, `smatch remove`, or `smatch update` commands, where `-b` is the boot environment and the value `boot-env` is the name of the specific boot environment. The command syntax is as follows:

```
smatch -add -b boot-env
```

Note – The current boot environment is copied to the specified boot environment. The chosen updates are applied to the specified boot environment. The specified environment will be activated so that on reboot, the system will run the newly updated boot environment instead of the current one.

After you run the `smatch` command with the selected option, a message appears on the command-line prompting you to restart the system at a convenient time.



Caution – If you run the `smatch` command once again specifying the same boot environment, the changes made by any earlier command are lost. The system applies the most recent set of changes. This issue does not apply when you use the `smatch -update` command, because this command installs the complete set of updates once again.

Update List Operations

You can use the `smatch` command to create an *ordered* list of updates. You can save the ordered list to a text file and use it to perform update operations.

You might use an *update list* to apply the same set of updates to systems that have the same hardware and software configurations. Or, you might create an update list file that contains all pertinent security updates and use that list to apply those security updates to one or more systems.

You can create a file that contains an ordered update list by using the `smatch` command in any of these ways:

- **Perform an analysis of a system.** Use the `smatch analyze` command to analyze a system to generate an ordered list of updates and write it to a file. You can edit this file to remove unneeded updates.
- **Supply a specific list of updates.** Use the `smatch analyze` command to generate an ordered list of updates based on a set of updates that you specify for a particular system. The update list is *resolved* by augmenting the list with updates on which they depend.
- **Point to a collection of updates that are stored on a system.** Use the `smatch order` command to produce an ordered list of updates based on a collection of updates that are stored on a system.

If you modify an update list and the updates are available on your system, use the `smatch order` command to put the list in an order suitable for applying updates. Otherwise, use the `smatch analyze` command, which also produces an ordered list of updates.



Caution – The `smatch add` command attempts to apply all of the updates in the update list, regardless of the policy for applying updates and update dependencies.

You can use update lists as input to the `smatch add`, `smatch analyze`, `smatch download`, `smatch order`, and `smatch update` commands.

Update Manager Concepts

To use the Update Manager software, you must be familiar with these concepts:

- “Update Manager Tool” on page 26
- “Update Manager Registration” on page 26
- “Update Management Process” on page 28
- “Specifying the Source of Updates” on page 31
- “Customizing the Policy for Applying Updates” on page 32
- “Setting Update Manager Configuration Properties” on page 32

Information about Solaris patches and the Sun Patch Manager 2.0 software is in *System Administration Guide: Basic Administration* in the Solaris 10 System Administrator Collection on the docs.sun.com site.

Update Manager Tool

Update Manager is a tool for managing updates on Solaris 10 systems. Update Manager extends the functionality that was previously available with the Sun Patch Manager 2.0 software. This new functionality is only available if you have a [Sun Online Account](#) and you [register](#) your system with Sun.

Note – You can always use the `smpatch add` command and the `smpatch remove` command to manage updates that you manually download from Sun. A system that you manage in this way need not be registered. However, your system must be registered if you use the `smpatch analyze`, `smpatch download`, or `smpatch update` command.

Update Manager Registration

Only systems that have been registered with Update Manager can use its functionality and be managed remotely by the Sun Update Connection Hosted web application.

For instructions on registering your system, see “[How to Register Your System](#)” on page 44. For information about obtaining a [subscription key](#), see “[How to Obtain a Sun Subscription Key](#)” on page 48.

Note – If you locally manage a system that is a client of a Sun Update Connection Proxy on your intranet, you do not need to register the client system. You *must* register the system that acts as the proxy. If, however, your client system is also remotely managed by the Sun Update Connection Hosted web application, the client system *must* be registered.

A customer with a Sun Service Plan, which includes software support, can do any of the following:

- Use the Update Manager application to locally manage updates

- Use the Sun Update Connection Hosted web application to remotely manage updates
- Access the Sun update server to manually manage updates
- Use the `smpatch` command to manage updates

For information about the available Solaris Service Plans, go to the <http://www.sun.com/service/solaris10/> web site.

Registration Service Levels

To use Update Manager, you must register the system on which you installed the software. You can select from three levels of registration and entitlement, which are described in the following sections:

- Registered with no subscription
- Registered with a subscription
- Registered with a subscription and managed with Sun Update Connection System

Note – An unregistered system only has access to security updates. You can manage the updates on your unregistered system by using the `smpatch add` command and the `smpatch remove` command.

Registered With No Subscription

You have sent basic information about your system to Sun, but have not purchased an update management subscription. At this service level, you can use the Update Manager application to locally manage updates, which includes doing the following:

- Viewing lists of installed updates
- Managing security updates on your system
- Analyzing your system for appropriate updates
- Installing and uninstalling appropriate updates
- Resolving update dependencies
- Monitoring update download and installation status
- Being notified when new updates for your system become available

Note – If your update management environment includes a Sun Update Connection Proxy and your system is a client of that proxy, your client system does not need to be registered to use the Update Manager software. However, the system that acts as the proxy *must* be registered.

Registered With a Subscription

You have sent system information to Sun and have purchased an update management subscription. This service level expands the functionality available at the previous (basic) service level. You can use the Update Manager application for these tasks:

- Managing all Solaris updates on your system
- Selecting updates for automated download and installation
- Receiving notification about all update dependencies

- Deciding to remotely manage your system with the Sun Update Connection Hosted web application

Note – If your update management environment includes a Sun Update Connection Proxy and your system is a client of that proxy, your client system does not need to be registered to use the Update Manager software. The system that acts as the proxy *must* be registered. If, however, you decide to use the Sun Update Connection Hosted web application to remotely manage your client system, that system *must* be registered.

Registered With a Subscription and Managed With Sun Update Connection System

You have sent system information, purchased a subscription, and want to use the Sun Update Connection Hosted web application to remotely manage updates. This service level expands the functionality available at the previous (middle) service level. You can use the Sun Update Connection Hosted web application for these tasks:

- Viewing information about all your managed systems
- Viewing reports that show all update management activity
- Using a web application that is hosted at Sun to remotely manage updates on your systems
- Controlling system check-in times to automate update management

Update Management Process

Update Manager enables you to perform the *update management process*, which includes the following tasks:

- Analyzing the system to obtain a list of appropriate updates
- Downloading the appropriate updates to your system
- Applying the appropriate updates to your system
- Configuring the update management environment for your system
- Tuning the update management environment for your system
- Removing updates from your system
- Using the Sun Update Connection Hosted web application to remotely manage your systems

For information about recommended strategies and practices for using Solaris updates, see *Solaris Patch Management Recommended Strategies* at <http://docs.sun.com/app/docs/coll/1078.1>.

After an update has been successfully applied, the downloaded update is removed from the *download directory*.

Updates are applied to your system depending on the specified policy and the update properties that are associated with the downloaded updates.

If an update does not meet the policy for applying updates, the update is not applied immediately. Instead, the update is applied during a scheduled system shutdown. The Update Manager application shows these updates as being Restart Required updates.

For any of the updates that have the interactive property set, follow the instructions in the update's README file to manually apply them. The Update Manager application shows these updates as being Download Only updates.

Analyzing Your System

Before you apply updates to your system, you must determine which updates are needed. You can use Update Manager to perform a update analysis of your system to obtain a list of appropriate updates.

Update Manager uses analysis modules and a list of available updates to perform the analysis of your Solaris system. For information about the source of updates, see [“Specifying the Source of Updates” on page 31](#).

Based on the result of the analysis, the updates can be downloaded and applied to your system.

Sometimes an update cannot be applied to the system until another update is applied. The first update is said to depend on the second update. When Update Manager analyzes your system, it checks for update dependencies and automatically includes all updates in the resulting list.

Note – The list of updates that is generated by the analysis is based on all of the available updates from the Sun update server. No explicit information about your host system or its network configuration is transmitted to Sun. Only a request for the Sun update set is transmitted. The update set is scanned for updates that are appropriate for this host system, the results are displayed, and those updates are optionally downloaded.

Downloading Updates to Your System

Before you apply updates to your system, you must download the updates that you want from the Sun update server to that system.

You can download updates from the Sun update server based on an analysis of the system, or you can specify particular updates to download.

The Update Manager application ties the download operation and the installation operation together. So, when you request that an update be installed, the update is first downloaded to your system and then installed.

Some updates, which are marked as Download Only, cannot be installed by the Update Manager application. When you request that a Download Only update be installed, the update is downloaded to your system, but not installed. To install the update, you must follow the installation instructions in the update's README file.

Applying Updates to Your System

Update Manager can apply updates to your system.

If you use the `smpatch add` command to apply particular updates, it attempts to apply only those updates that you specified. The `smpatch add` command does not attempt to resolve *update dependencies*. If you want to apply an update that has a missing dependency, the update is not applied. You can use the `smpatch analyze` command or the `smpatch update` command to resolve update dependencies.

When you use the Update Manager GUI to apply updates that you selected from the list of updates, each update is downloaded (if necessary) before it is applied.

If you attempt to install a list of updates, Update Manager first performs an analysis to determine whether dependent updates must also be installed.

Removing Updates From Your System

You might want to remove (or back out) an update that you previously applied to your system. Update Manager enables you to remove updates.



Caution – Do *not* remove the Update Manager feature update from a system, or Update Manager will not work properly.

When you remove an update, the Solaris update tools restore all of the files that have been modified by that update, unless any of the following are true:

- The update was applied by using the `patchadd -d` command, which instructs `patchadd` *not* to save copies of files being updated or replaced.
- The update was applied by using the `patchadd` command without the `-d` option, and the backout files that were generated have since been removed.
- The update has been made obsolete by a later update.
- The update is required by another update.

During the update removal process, the `patchrm` command logs the backout process in the `/tmp/backout.log.process-id` file. This log file is automatically removed if the update is successfully removed.

You can use the Update Manager GUI to remove one or more updates by selecting them from the list of applied updates. However, you can only remove *one* update at a time with the `smpatch remove` command.

Note – If you attempt to remove an update on which other updates depend, it is not removed. If you remove all of the updates that depend upon this update, you can remove the update.

When you attempt to remove an update on which other updates depend, Update Manager presents you with the list of updates that must be removed as well. To remove the update you originally selected, you must agree to remove these updates.

Using the Sun Update Connection Hosted Web Application to Manage Your Systems

You can request that your Solaris 10 systems be managed by the Sun Update Connection Hosted web application either during or after the registration process. This Hosted web application enables you to manage the updates on all of your systems. For more information, see [Chapter 5](#).

Even if your system is managed by the Sun Update Connection Hosted web application, you can still use Update Manager to manage updates on your local system.

Specifying the Source of Updates

When you use Update Manager, your client systems and any Sun Update Connection proxies must have access to Solaris updates and update data. Both client systems and proxies can obtain updates from these sources:

- **Update server.** A server that provides access to Solaris updates and update data. An update server can be a Sun Update Connection Proxy on your intranet or the Sun update server, which is accessed over the Internet.
- **Local collection of updates.** A collection of updates and update data that is stored in a directory available to the local system. Such a directory might be a local directory, a shared network directory, or a CD mounted on your local system.

The default source of updates for client systems and Sun Update Connection System Proxies is the Sun update server. As a result, any client system or Sun Update Connection Proxy that obtains updates from the Sun update server must be connected, either directly or through a *network proxy*, to the Internet.

You can use a combination of Sun Update Connection System Proxies and different update sources to configure these update management environments.

Clients access updates and update data from the following sources:

- **Sun update server.** This configuration requires that the client systems are connected, directly or through a network proxy, to the Internet. Such a client system must be registered with Update Manager.
- **Sun Update Connection Proxy on your intranet (by way of the Sun update server).** This configuration requires that only the Sun Update Connection Proxy be connected, directly or through a network proxy, to the Internet. The system that acts as the proxy must be registered with Update Manager, but the proxy's client systems need not be registered.
- **Collection of updates on your local system.** This configuration does not require that the client systems be connected to the Internet. These client systems also need not be registered with Update Manager.
- **Sun Update Connection Proxy (by way of a collection of updates on your local system).** This configuration does not require that the client systems and Sun Update Connection Proxy be connected to the Internet. Neither the system that acts as the proxy nor the client systems must be registered with Update Manager.

For instructions on specifying the source of updates for your client system, see “[How to Specify a Source of Updates \(GUI\)](#)” on page 56.

For instructions on specifying the source of updates for your proxy, see “[How to Change Configuration Settings for Your Sun Update Connection Proxy \(Command Line\)](#)” on page 96.

Customizing the Policy for Applying Updates

Update Manager applies these types of updates to your system:

- Standard updates that are applied immediately and require no system restart
- Updates that require a system restart
- Updates that must be manually applied

Standard updates are associated with the `standard` update property. Updates marked as Restart Required are associated with the `rebootafter`, `reconfigafter`, `rebootimmediate`, `reconfigimmediate`, and `singleuser` update properties. Updates marked as Download Only are associated with the `interactive` update property. Download Only updates are only downloaded to your system and must be applied manually according to the instructions in the update’s README file.

If you use the `smatch` update command to update your system, however, you can customize the policy for applying updates.

For more information about this policy, see the `smatch(1M)` man page.

Setting Update Manager Configuration Properties

The `smatch set` command uses the following parameters to configure your update management environment.

Note – Except for `patchpro.patchset`, parameters can also be modified in the Update Manager GUI by choosing Preferences from the File menu and specifying the appropriate values.

- `patchpro.patchset` – Name of the update set to use. The default name is `current`.
Choose the update set from the View Collection menu.
- `patchpro.download.directory` – Path of the directory where downloaded updates are stored and from which updates are applied. The default location is `/var/sadm/spool`.
- `patchpro.backout.directory` – Path of the directory where update *backout data* is saved. When an update is removed, the data is retrieved from this directory as well. By default, backout data is saved in the package directories.
- `patchpro.patch.source` – URL that points to the collection of updates. The default URL is that of the Sun update server, `https://getupdates.sun.com/solaris/`.

- `patchpro.proxy.host` – Host name of your network proxy. By default, no network proxy is specified, and a direct connection to the Internet is assumed.
- `patchpro.proxy.port` – Port number used by your network proxy. By default, no network proxy is specified, and a direct connection to the Internet is assumed. The default port is `8080`.
- `patchpro.proxy.user` – User name used by your network proxy for authentication.
- `patchpro.proxy.passwd` – Password used by your network proxy for authentication.
- `patchpro.install.types` – Your policy for applying updates. The value is a list of zero or more colon-separated update properties that are permitted to be applied by an update operation (`smpatch update`).
 - By default, the `smpatch update` command applies updates that have the `standard`, `rebootafter`, and `reconfigafter` properties. See [“Customizing the Policy for Applying Updates” on page 32](#).
 - The Update Manager GUI always applies updates that have the `standard` property. This policy *cannot* be changed.

Installing the Sun Update Connection System Software

This chapter describes how to install the Sun Update Connection System software on your Solaris system. The software you can install includes the Update Manager client software and the optional Sun Update Connection Proxy software. This chapter also describes how to uninstall the Update Manager client software.

Installing the Update Manager client software is part of the getting started process. For an overview of the entire process, see [“Getting Started Process Overview”](#) on page 12.

This chapter covers the following topics:

- [“Installing the Sun Update Connection System Software \(Task Map\)”](#) on page 35
- [“Uninstalling the Update Manager Client Software \(Task Map\)”](#) on page 39

Installing the Sun Update Connection System Software (Task Map)

The Sun Update Connection System software is supported on systems that run the Solaris 10 Operating System.

To use the Update Manager tool, you must install at least the End User Software Group of Solaris 10 software. Your system also must have 160 Mbytes of available disk space in `/var`.

If your system has the initial Solaris 10 release installed, you must install the Update Manager client software on your system. Subsequent releases of the Solaris 10 software include the Update Manager client software.

The following table identifies how you can install the Sun Update Connection System software on your system.

Task	Description	For Instructions
(Optional) Install the Update Manager client software.	You can install the Update Manager client software in one of these ways: <ul style="list-style-type: none"> Use the <code>smpatch update</code> command to install the Update Manager feature update. Download the Sun Update Connection System software from the Sun Download Center, and run the installation script to install the Update Manager client software. 	<ul style="list-style-type: none"> “How to Install the Update Manager Feature Update” on page 36 “How to Install the Update Manager Client Software” on page 37
(Optional) Install the Sun Update Connection Proxy software.	You can use the <code>smpatch update</code> command to install the proxy feature update.	“How to Install the Sun Update Connection Proxy Feature Update” on page 38
(Optional) Upgrade from the Preview Release to the Sun Update Connection System 1.0.8 release.	From the Preview Release version of Update Manager, upgrade to Sun Update Connection System 1.0.8.	“How to Upgrade From the Preview Release to the Sun Update Connection System 1.0.8 Release” on page 39

▼ How to Install the Update Manager Feature Update

Ensure that your system is running at least the End User Solaris Software Group of the Solaris 10 Operating System.



Caution – Your system must be connected to the Internet before you can install the Update Manager feature update because the software must be retrieved from Sun.

1 Identify the appropriate version of the Update Manager feature update for your system.

Choose the feature update based on the platform type of your Solaris system.

- SPARC: Latest revision of update 121118
- x86: Latest revision of update 121119

2 Become superuser.

3 Use the `smpatch update` command to automatically download and apply the appropriate feature update to your system.

For example, the following command applies the Update Manager feature update to your SPARC based system:

```
# smpatch update -i 121118
```

Note that the `smpatch update` command installs the latest revision of the update you specify with the `-i` option.

Now you must access the GUI to configure your update management environment and register your system. See “[Accessing the Update Manager GUI](#)” on page 52.

▼ How to Install the Update Manager Client Software

Ensure that your system is running at least the End User Solaris Software Group of the Solaris 10 Operating System.



Caution – Your system must be connected to the Internet before you can install the Update Manager client software because the software must be retrieved from Sun.

1 Go to the Sun Download Center at <http://www.sun.com/download>.

- a. Click the Downloads A-Z tab.
- b. Click Sun Update Connection System 1.0.8
- c. Click Download to start the download process.
Follow the download instructions.
- d. Download the software to a local directory on your system.

Note – The directory must not be mounted through NFS because of patch bug 6188748.

Choose the software based on the platform type of your Solaris system.

- SPARC: `updateConnection-sparc.zip`
- x86: `updateConnection-i386.zip`

2 Become superuser.

3 Go to the directory where you downloaded the file.

For example, if you downloaded the file to `/tmp`, go to `/tmp`.

4 Unzip the file you downloaded.

- For SPARC based systems, type:


```
# unzip updateConnection-sparc.zip
```
- For x86 based systems, type:


```
# unzip updateConnection-i386.zip
```

- 5 **Install the Sun Update Connection System 1.0.8 feature update, which includes the Update Manager client software.**

```
# ./updateConnection/installUpdateConnection
```

Now you must access the GUI to configure your update management environment and register your system. See “[Accessing the Update Manager GUI](#)” on page 52.

▼ How to Install the Sun Update Connection Proxy Feature Update



Caution – Your system must be connected to the Internet before you can install the proxy software because the software must be retrieved from Sun.

Ensure that your system is running at least the End User Solaris Software Group of the Solaris 10 Operating System.

Note – The Sun Update Connection Proxy is an optional feature that you can obtain at no charge if you have a Sun Service Plan. For information about obtaining a Sun Service Plan, go to Solaris Operating System Software Support at <http://www.sun.com/service/support/software/solaris/> and select the appropriate level of service.

- 1 **Identify the appropriate version of the Sun Update Connection Proxy feature update for your system.**

Choose the feature update based on the platform type of your Solaris system:

- SPARC: Latest revision of update 119788
- x86: Latest revision of update 119789

- 2 **Become superuser.**

- 3 **Use the `smpatch` command to apply the appropriate feature update to your system.**

The `smpatch` update command automatically downloads and applies the feature update to your system.

For example, the following command applies the proxy feature update to your x86 based system:

```
# smpatch update -i 119789
```

Note that the `smpatch` update command installs the latest revision of the update you specify with the `-i` option.

Now you must configure your proxy. See “[Configuring Your Sun Update Connection Proxy \(Task Map\)](#)” on page 89.

▼ How to Upgrade From the Preview Release to the Sun Update Connection System 1.0.8 Release

If you installed the Preview Release of the Sun Update Connection System software, you must upgrade the Sun Update Connection System software when the Preview Release promotional period ends. Perform this upgrade by installing the new Sun Update Connection System 1.0.8 feature update. If you are using the Preview Release, this feature update will appear as an available update for your system through any of the Sun Update Connection System user interfaces. See [“How to Install the Update Manager Feature Update”](#) on page 36.

If you have also configured a Sun Update Connection Proxy, you must upgrade the software on the proxy system. You must install both the feature update for the Sun Update Connection System and the feature update for the proxy software. The proxy feature update will appear in the list of available updates for your system only if you have a Sun Service Plan. See [“How to Install the Sun Update Connection Proxy Feature Update”](#) on page 38.

► Install the appropriate feature updates for your system.

The feature update IDs for this software are as follows:

- 121118-07: Sun Update Connection System 1.0.8 (SPARC)
- 121119-07: Sun Update Connection System 1.0.8 (x86)
- 119788-07: Sun Update Connection Proxy (SPARC)
- 119789-07: Sun Update Connection Proxy (x86)

Uninstalling the Update Manager Client Software (Task Map)

The following table identifies how you can uninstall the Update Manager client software from your system.

Task	Description	For Instructions
(Optional) Uninstall the Update Manager client software.	Use the <code>patchrm</code> command to uninstall the Update Manager client software.	“How to Uninstall the Update Manager Client Software” on page 39
(Optional) Stop and disable the Update Manager client agents.	Stop the client agents on your system before you uninstall the Update Manager client software from a system.	“How to Stop and Disable the Update Manager Client Agent Software” on page 40

▼ How to Uninstall the Update Manager Client Software

Before you uninstall the Update Manager client software, ensure that neither the Update Manager application nor the `smpatch` command are running.

- 1 **Become superuser.**
- 2 **(Optional) If you installed the Sun Update Connection Proxy software, remove the prebackout lock file for the proxy software, and use `patchrm` to remove the update.**
 - For SPARC based systems, type:

```
# rm /var/sadm/patch/119788-07/prebackout
# patchrm 119788-07
```
 - For x86 based systems, type:

```
# rm /var/sadm/patch/119789-07/prebackout
# patchrm 119789-07
```
- 3 **Remove the prebackout lock file for the Sun Update Connection System software.**
 - For SPARC based systems, type:

```
# rm /var/sadm/patch/121118-07/prebackout
```
 - For x86 based systems, type:

```
# rm /var/sadm/patch/121119-07/prebackout
```
- 4 **(Optional) If you use the `patchrm -R` command to uninstall the Update Manager feature update on a diskless client, you must first log in to the diskless client to stop and disable the Update Manager client agents.**

```
# /usr/lib/cc-cfw/framework/lib/cc-client-adm stop
# /usr/lib/cc-cfw/framework/lib/cc-client-adm disable
```
- 5 **Use the `patchrm` command to remove the Update Manager feature update.**
 - For SPARC based systems, type:

```
# patchrm 121118-07# patchrm 119574-02
```
 - For x86 based systems, type:

```
# patchrm 121119-07
# patchrm 119575-02
```

▼ How to Stop and Disable the Update Manager Client Agent Software

These agents are installed when you install the Update Manager software. When you register your system with the Update Manager Registration Wizard, the agents are enabled.

In most cases, the `pkg rm` command safely disables the agents before removing the `SUNWccinv` package. However, if you installed this package on a diskless client or a cluster of systems, you must manually disable the agents before you remove the `SUNWccinv` package.

1 Become superuser.

2 Stop and disable the inventory agent.

```
# /usr/lib/cc-cfw/framework/lib/cc-client-adm stop
# /usr/lib/cc-cfw/framework/lib/cc-client-adm disable
```


Registering Your System With Update Manager

This chapter describes how to register your system with Update Manager and to perform other tasks from the registration wizard. You can also use the `sconadm` command to perform registration from the command line. See the `sconadm(1M)` man page.

Registering Your System With Update Manager (Task Map)

You can use Update Manager to manage security updates for your Solaris 10 system by registering your system with Update Manager. Registration is free and it involves sending only your basic system specifications to Sun. The registration process is initiated when you access the Update Manager GUI for the first time.

You can also use the `sconadm` command to perform registration from the command line. See the `sconadm(1M)` man page.

For more information about the different levels of registration, see “[Update Manager Registration](#)” on page 26.

The following table identifies the tasks that you might perform when you use the Update Manager registration wizard.

Task	Description	For Instructions
(Optional) Register your system with Update Manager.	If your system obtains updates and update data from the Sun update server, or you want to manage your system remotely by using the Sun Update Connection Hosted web application, you must register your system with Update Manager.	“ How to Register Your System ” on page 44

Task	Description	For Instructions
(Optional) Obtain a Sun subscription key.	<p>If you want access to other than security updates, or you want to manage your system remotely by using the Sun Update Connection Hosted web application, you must register your system with a Sun subscription key.</p> <p>This subscription key is available to software support customers.</p>	“How to Obtain a Sun Subscription Key” on page 48
(Optional) After registration, specify the network proxy to use.	<p>If your system is connected to the Internet through a network proxy, you must specify the network proxy that is used to access the Sun update server.</p> <p>By default, no network proxy is specified.</p>	Step 5 in “How to Register Your System” on page 44
(Optional) After registration, specify a local source of updates for your system.	<p>You might want your system to obtain updates from a local source, such as a Sun Update Connection Proxy or a collection of updates on a local system.</p> <p>You must specify a local source of updates if your system is not connected to the Internet.</p> <p>By default, your system obtains updates from Sun.</p>	Step 4 in “How to Register Your System” on page 44

▼ How to Register Your System

Note – To register your system, it must be connected to the Internet. You might already have a Sun Online Account if you registered for an account with programs such as Java Developer Connection, OSC, MySun, SunSolve, and SunStore.

For more information about the different levels of registration, see [“Update Manager Registration” on page 26](#).

You can also use the `sconadm` command to perform registration from the command line. See the `sconadm(1M)` man page.

1 Start the Update Manager application.

- For GNOME users, start the Update Manager application in one of these ways:
 - From the Notification area of the GNOME panel, click the Update Manager notification icon.

This icon is a blue circle with a question mark. This icon indicates that the system has not been registered.

This method does not work immediately after you install the software. You must log out of the GNOME desktop and log back in.

- From the Sun Java Desktop System Launch menu, choose Applications.

From the Applications menu, choose Utilities. Then, from the Utilities menu, choose Update Manager.

- Run the `/usr/bin/updatesmanager` command from your shell prompt.
- For CDE users, start the Update Manager application in one of these ways:
 - From the Application Manager window, double-click the Update Manager icon.
 - Run the `/usr/bin/updatesmanager` command from your shell prompt.

The Authentication Required dialog box appears.

2 Log in to the Update Manager GUI.

If you want to exit the Update Manager application during this step, click Cancel.

a. Specify the user name of a privileged user and click OK.

By default, the user is `root`.

The Authentication Required dialog box appears.

b. Specify the password for the privileged user you specified and click OK.

The Update Manager Registration Wizard appears.

3 From the Welcome screen, specify how you want to use Update Manager to manage updates on your system.

Update Manager can automatically manage updates on your system or enable you to manually manage updates on your system.

- To use the Update Manager GUI or `smatch` CLI to manage updates on your system, click Register to Manage Updates.

The Sun Online Account screen appears.

- To download updates from the Sun update server and to use the `smatch add` command and the `smatch remove` command to manage updates, click Apply Updates Manually.

Click Finish to exit the registration wizard.

Now you are ready to manually manage updates on your system. For information about using the `smatch add` command and the `smatch remove` command to manage updates, see the `smatch(1M)` man page.

4 (Optional) If your system does not connect to the Internet, specify a local source of updates.

To specify this local source for updates by using the Update Manager application, see [“How to Specify a Source of Updates \(GUI\)”](#) on page 56.

a. Click Configure the System to Retrieve Updates From a Local Source.

The Use a Local Source for Updates screen appears.

b. Click Retrieve Updates From a Local Source (Sun Update Connection Proxy).

c. In the Patch Source URL field, type the URL to the local update source.

The Sun Update Connection Proxy URL has this form:

```
http://server-name:3816/solaris/
```

d. Click Finish to set these update source values, and to return to the Sun Online Account screen.

Click Cancel to discard the registration information about the update source values that you set. Then, click Discard Registration to return to the Sun Online Account screen.

5 (Optional) Specify the network proxy your system uses to connect to the Internet.

To specify this network proxy information by using the Update Manager application, see [“How to Specify a Network Proxy \(GUI\)”](#) on page 55.

If your system is directly connected to the Internet, you do not need to specify network proxy information.

a. Click Configure Network Proxy Settings.

The Network Proxy Settings screen appears.

b. Click Enable Network Proxy.

c. Type the host name for the proxy in the Proxy Host Name field.

d. Type the port number for the proxy in the Proxy Port field.

e. (Optional) If a user name and password are needed for proxy authentication, click Use Proxy Authentication, then do the following:

i. Type the proxy user name in the Proxy User Name field.

ii. Type the proxy user password in the Proxy Password field.

iii. Click OK to set these network proxy values, and to dismiss the dialog box.

Click Cancel to discard the network proxy values you set, and to dismiss the dialog box.

f. Specify your Sun Online Account.

- **If you already have a Sun Online Account, log in by supplying your Sun Online Account user name and password, click Next, and then go to Step 8.**

The Terms of Use and Software License screen appears.

- **If you have forgotten your user name or your password, click Forgot Your User Name or Password.**

After you have your Sun Online Account information, restart the registration process.

- **If you do not have a Sun Online Account, register for an account.**

6 (Optional) Click Create a Sun Online Account.

The Create Sun Online Account screen includes the Sun privacy policy and text fields in which to supply the information required to obtain a Sun Online Account.

a. Review the Sun Privacy Policy.

b. Complete the account information on the registration form and click Next.

If you supplied an invalid entry, you are prompted to correct the error.

The second Create Sun Online Account screen appears.

c. Complete the second registration form and click Next.

You must supply your company name, your country or territory, and the language you want to use for communications with Sun. The other values on this form are optional.

The Terms of Use and Software License screen appears.

7 (Optional) Decide whether you want access to all updates or only security updates.

- **If you want access to all updates, supply your subscription key in the Key field.**

Your Sun subscription key might be your support contract number. If you do not have a subscription key, sign up for one of these software support plans:

- For information about the Solaris 10 Service Plans, go to <http://www.sun.com/service/solaris10/>.
- For information about general Solaris support plans, go to <http://www.sun.com/service/support/software/solaris/>.

- **If you want to access only security updates, click either Continue Without a Subscription Key or Enter One Later.**

You can specify a subscription key at any time to gain access to all Solaris updates. See “How to Specify Your Subscription Key (GUI)” on page 56.

8 Review the terms of use and the software license.

- **If you agree, click I Have Read the Agreement and I Accept, and click Next.**

- If you supplied a subscription key, the Remote Software Updates Service screen appears. From this screen you can view demos of Sun Update Connection System and Update Manager.
- If you did not supply a subscription key, the System Registration screen appears. Go to Step 11.
- **If you do not agree, click Cancel to exit the registration wizard.**
You cannot use the Update Manager software unless you agree to the terms of use and the software license.

9 Decide whether to manage updates on your systems remotely or locally.

- **To manage updates remotely, click Activate Remote Update Management Using the Sun Update Connection System.**

Even if you choose to manage updates remotely, you can still use Update Manager to manage updates locally on your system.

You can click What Gets Sent to see what information about your system is sent to Sun.

For information about using the Sun Update Connection Hosted web application to remotely manage updates on your systems, see [Chapter 5](#).

- **To manage updates locally, click Activate Local Update Management.**

You can click What Gets Sent to see what information about your system is sent to Sun.

10 Click Finish to complete the registration of your system, at which time information about your system is sent to Sun.

Click Cancel to discard the registration information that you supplied, and to dismiss the registration wizard.

The Registration Confirmation screen, from which you can access the Sun Update Connection Hosted web application, appears.

11 Click Close to dismiss the registration wizard.

The Checking dialog box shows the progress of the update analysis of your system.

The list of updates that you can install on your system appears in the Available Updates screen of the Update Manager application.

Note – If your client system is not properly registered, you might get error messages when you run the installation application. Restart the registration process to eliminate any errors.

▼ **How to Obtain a Sun Subscription Key**

To gain access to all Solaris updates, you must have a Sun subscription key. Without a subscription key, you can only view security updates. You also need a subscription key to use the Sun Update Connection Hosted web application.

To obtain a subscription key, subscribe to any of the following Sun service offerings:

- Software Support Service plan
- Solaris 10 Service Plan
- SunSpectrum Support service agreement

▶ **If you do not have a Sun subscription key, sign up for one of these software support plans:**

- For information about the Solaris 10 Service Plans, go to <http://www.sun.com/service/solaris10/>.
- For information about general Solaris support plans, go to <http://www.sun.com/service/support/software/solaris/>.

Managing Solaris Updates by Using the Update Manager GUI

This chapter describes how to use the Update Manager GUI to manage updates.

Note – You can also perform these tasks by using the `smpatch` command. See the `smpatch(1M)` man page.

This chapter covers the following topics:

- “Managing Solaris Updates by Using the Update Manager GUI (Task Map)” on page 51
- “Accessing the Update Manager GUI” on page 52
- “Configuring Your Update Management Environment by Using the GUI (Task Map)” on page 54
- “Managing Updates by Using the GUI (Task Map)” on page 58
- “Tuning Your Update Management Environment by Using the GUI (Task Map)” on page 62

Managing Solaris Updates by Using the Update Manager GUI (Task Map)

The following table identifies the tasks that you might perform when you use the Update Manager GUI.

Task	Description	For Instructions
Access the GUI.	If you want the convenience of a GUI to manage updates, use the Update Manager GUI.	“Accessing the Update Manager GUI” on page 52

Task	Description	For Instructions
Configure the update management environment for your system.	By default, your system is assumed to be connected directly to the Internet and configured to obtain updates from the Sun update server. If this is not true for your system, change the configuration settings to match your environment.	“Configuring Your Update Management Environment by Using the GUI (Task Map)” on page 54
Manage updates on your system.	You can use the GUI to perform an analysis of your system, apply one or more updates, find update dependencies, and remove updates.	“Managing Updates by Using the GUI (Task Map)” on page 58
(Optional) Tune the update management environment for your system.	Change some optional configuration settings, such as the update directory locations.	“Tuning Your Update Management Environment by Using the GUI (Task Map)” on page 62

Accessing the Update Manager GUI



Caution – The Update Manager application does *not* permit you to run simultaneous GUI and command-line update operations on your system because the system might become unstable.

Only cancel an operation from the Update Manager progress dialog. Do not interrupt an `smptch` update operation once it has started. You must wait for that operation to complete before starting another operation.

▼ How to Access the Update Manager Application (GUI)

You can start the Update Manager GUI from the GNOME desktop, the Sun Java Desktop System, the CDE Application Manager, or the command line.

The first time you start the application, the Update Manager Registration Wizard appears. Use this wizard to register your Solaris 10 system to use Update Manager to manage updates.

1 Start the Update Manager application.

- For GNOME users, start the Update Manager application in one of these ways:
 - **From the Notification area of the GNOME panel, click the Update Manager notification icon.**

This icon is blue with a question mark. This icon indicates that the system has not been registered.

This method does not work immediately after you install the software. You must log out of the GNOME desktop and log back in.

- **From the Sun Java Desktop System Launch menu, choose Applications.**

From the Applications menu, choose Utilities. Then, from the Utilities menu, choose Update Manager.

- **Run the `/usr/bin/updatesmanager` command from your shell prompt.**

- For CDE users, start the Update Manager application in one of these ways:

- **From the Application Manager window, double-click the Update Manager icon.**

- **Run the `/usr/bin/updatesmanager` command from your shell prompt.**

The Authentication Required dialog box appears.

2 Specify the user name of a privileged user, and click OK.

By default, the user is root.

If you want to exit the Update Manager application, click Cancel.

The Authentication Required dialog box appears.

3 Specify the password for the privileged user you specified, and click OK.

Click Cancel to exit the Update Manager application.

- **If you are accessing the Update Manager GUI for the first time, the registration wizard appears so you can complete the registration process.**

See [“How to Register Your System”](#) on page 44.

- **If you have already completed the system registration process, you can configure, manage, or tune the update management environment by using the Update Manager GUI.**

See [“Managing Solaris Updates by Using the Update Manager GUI \(Task Map\)”](#) on page 51.

Note – Following a successful registration with the Sun Update Connection System, the Sun Update Connection System Update Manager Application (GUI) automatically launches when the user logs in to the GNOME desktop as root. The Update Manager does not automatically launch on login for a non-root user, if basic registration services are disabled, or if the user has not registered with Sun Update Connection System. Once launched, the Update Manager automatically begins analyzing the system for updates.

Configuring Your Update Management Environment by Using the GUI (Task Map)

By default, the update management environment is configured to obtain updates directly from the Sun update server. Therefore, you must customize your environment if your system does one or more of the following:

- Connects to the Internet by means of a network proxy
- Requires a user name and password to provide authentication for the network proxy
- Obtains updates from an update source other than the Sun update server

The following table identifies the tasks that you might perform when you configure the update management environment for your system.

If you want to use the `smpatch` command to configure your update management environment, see the `smpatch(1M)` man page.

Task	Description	For Instructions
(Optional) Specify the network proxy to use.	If your system is connected to the Internet through a network proxy, you must specify the network proxy that is used to access the Sun update server. By default, no network proxy is specified.	“How to Specify a Network Proxy (GUI)” on page 55
(Optional) Specify the user and password needed to provide authentication for the network proxy.	If your network proxy requires authentication, you must specify the network proxy user that is needed for authentication. By default, no network proxy user is specified.	“How to Specify a Network Proxy (GUI)” on page 55
(Optional) Specify the source of updates for your system.	Your system can obtain updates from one of the following sources: <ul style="list-style-type: none"> ▪ Sun update server (default) ▪ Update server on your intranet ▪ Collection of updates on your local system 	“How to Specify a Source of Updates (GUI)” on page 56

Task	Description	For Instructions
(Optional) Specify your Sun subscription key.	When you add a subscription key to your system registration information, your system will gain access to all Solaris updates. Without a subscription, your system only has access to security updates.	“How to Specify Your Subscription Key (GUI)” on page 56
(Optional) Enable your system to be managed by the Sun Update Connection Hosted web application.	If you want to remotely manage updates on your system, you can use the Sun Update Connection Hosted web application.	“How to Manage Your System by Using the Sun Update Connection Hosted Web Application (GUI)” on page 57

▼ How to Specify a Network Proxy (GUI)

This procedure describes how to update the network proxy from the Update Manager application. Use this procedure if your system requires a network proxy to connect to the Internet. If your system is already connected directly to the Internet, you do not need to specify a network proxy.

To specify this network proxy information from the registration wizard, see Step 5 of [“How to Register Your System” on page 44](#).

1 Access the Update Manager GUI.

See [“How to Access the Update Manager Application \(GUI\)” on page 52](#).

2 Choose Preferences from the File menu.

The Preferences dialog box appears.

3 In the Network Proxy section, select Manual Proxy Configuration for Internet Connection.

4 Type the host name of the network proxy in the Proxy Host Name field.

5 Type the port number of the network proxy in the Proxy Port Number field.

6 (Optional) If a user name and password are needed for proxy authentication, click Use Proxy Authentication, and do the following:

a. Type your network proxy user name in the Proxy User Name field.

b. Type your network proxy password in the Proxy Password field.

7 Click OK to set these values, and to dismiss the dialog box.

Click Cancel to discard the values you set, and to dismiss the dialog box.

▼ How to Specify a Source of Updates (GUI)

This procedure describes how to specify an alternate source of updates from the Update Manager application. By default, your system obtains updates from Sun.

To specify a local source of updates from the registration wizard, see [Step 4 of “How to Register Your System” on page 44.](#)

Note – If you change the source of updates for your system from a Sun Update Connection Proxy to the Sun update server, your system must be registered with Update Manager. If your system is not registered and you make this change, the registration wizard appears so you can complete the system registration process.

1 Access the Update Manager GUI.

See [“How to Access the Update Manager Application \(GUI\)” on page 52.](#)

2 Choose Preferences from the File menu.

The Configuration screen of the Preferences dialog box appears.

3 In the Update Source section, specify your source of updates.

- **Click From the Sun Update Connection to obtain updates from Sun.**

By default, you obtain updates from Sun.

- **Click From a Local Source (Sun Update Connection Proxy or CD) to obtain updates from your specified update source.**

You must type the URL to the update source in the text field.

- For a Sun Update Connection Proxy on your intranet, type a URL of this form:

`http://server-name:3816/solaris/`

- For a directory, type a URL of this form:

`file:/directory-name`

4 Click OK to set this value, and to dismiss the dialog box.

Click Cancel to discard the value you set, and to dismiss the dialog box.

▼ How to Specify Your Subscription Key (GUI)

Perform this procedure after you have registered your system.

If you want access to all Solaris updates, not just security updates, add your Sun subscription key to your Update Manager registration information. If you do not have a Sun subscription key, see [“How to Obtain a Sun Subscription Key” on page 48.](#)

You can also specify your Sun subscription key during the registration process. See [“How to Register Your System” on page 44](#).

All available updates should be visible in Update Manager within 24 to 48 hours. Allow all processes to run for approximately 24 to 48 hours before you use Update Manager to manage updates. Or, use the Sun Update Connection Hosted web application to manage updates on your system.

1 Access the Update Manager GUI.

See [“How to Access the Update Manager Application \(GUI\)” on page 52](#).

2 Choose Manage Subscription from the File menu.

The Add Subscription dialog box appears.

3 Supply your Sun Online Account information.

a. Type your user name in the User Name field.

b. Type your password in the Password field.

4 Type your subscription key in the Key field.

5 Click Finish to store the changes, and to dismiss the dialog box.

Click Cancel to discard the changes, and to dismiss the registration wizard.

▼ **How to Manage Your System by Using the Sun Update Connection Hosted Web Application (GUI)**

This procedure describes how to enable your system to be managed from the Sun Update Connection System web site.

1 Access the Update Manager GUI.

See [“How to Access the Update Manager Application \(GUI\)” on page 52](#).

2 Click Manage at Sun Update Connection.

The Enable Portal Management screen appears.

Note – When you click Manage at Sun Update Connection, the Launching Web Browser window appears. Update Manager launches a new web browser window even if an existing window is open.

3 (Optional) Click What Gets Sent to see what information about your system is sent to Sun.

The System Data dialog box appears.

Click OK to dismiss the dialog box.

4 Supply the user name and password for your Sun Online Account.

- a. **Type your user name in the User Name field.**
- b. **Type your password in the Password field.**

If you have forgotten the user name or password for your Sun Online Account, click [Forgot Your User Name or Password](#).

5 Specify your Sun subscription key in the Key field.

If you do not have a Sun subscription key and you want to use the Sun Update Connection Hosted web application, see [“How to Obtain a Sun Subscription Key” on page 48](#).

6 (Optional) Click What Keys Qualify to see which subscription keys you can use as your Sun subscription key.

7 Click Finish.

Click [Cancel](#) to discard the values you set, and to dismiss the dialog box.

Managing Updates by Using the GUI (Task Map)

You can use the Update Manager GUI to perform the following tasks:

- Analyze your system to determine the list of appropriate updates
- Update your system with updates automatically
- Remove an update from your system

Perform these tasks and more by using the command-line interface. See the `smpt ch(1M)` man page.

The following table identifies the common update management tasks.

Task	Description	For Instructions
Analyze your system to determine the list of updates.	<p>You want to analyze your system to obtain the list of appropriate updates. Based on the analysis, you can update your system with one or more updates in the list.</p> <p>Note that the GUI lists the appropriate updates. If you request another analysis, the list of updates is changed to reflect any new updates that are needed.</p>	“How to Analyze Your System for Updates and View the List of Available Updates (GUI)” on page 59

Task	Description	For Instructions
Apply one or more updates in a single procedure.	You want to download and apply the updates that are appropriate for your system. The list of updates is determined by having Update Manager analyze your system.	“How to Apply Updates to Your System (GUI)” on page 59
Remove updates from your system.	You want to remove, or back out, updates that you applied to your system.	“How to View Installed Updates and Remove Updates From Your System (GUI)” on page 61

▼ How to Analyze Your System for Updates and View the List of Available Updates (GUI)

Use this procedure to manually initiate a system analysis to determine which updates are appropriate for your system.

By default, your system is analyzed once a day. If the automatic analysis feature is disabled, you can enable it. See [“How to Enable a Daily Analysis of Updates \(GUI\)” on page 63](#).

1 Access the Update Manager GUI.

See [“How to Access the Update Manager Application \(GUI\)” on page 52](#).

2 In the Available Updates screen, click Check for Updates.

The Analyze System dialog box shows the progress of the analysis. The list of appropriate updates then appears in the Available Updates window and is sorted according to Update type. The Sun Update Connection System Updates are listed at the top of the list of Available Updates.

▼ How to Apply Updates to Your System (GUI)

Use this procedure to apply one or more updates to your system.

If an update you install requires a system restart to activate it (Restart Required), the update is staged for installation during the next system shutdown. To apply an update that requires a restart, you must use one of the following commands to initiate the system shutdown:

- **Power down the system** – `init 0` or `shutdown -i 0`
- **Go to the firmware prompt** – `init 5` or `shutdown -i 5`
- **Restart the system** – `init 6` or `shutdown -i 6`

Note – Do *not* use the reboot command, the halt command, the uadmin command, or press the Reset or Power button to initiate the shutdown. Taking any of these actions bypasses the required shutdown processing, and prevents the updates from being staged for later installation. Even if you bypass the required shutdown processing, the updates are still staged for installation during a system restart.

1 Access the Update Manager GUI.

See “How to Access the Update Manager Application (GUI)” on page 52.

2 Go to the Available Updates screen.

This screen shows the list of updates that are appropriate for your system.

3 (Optional) Click Check for Updates to perform an update analysis of your system.

You might perform this analysis if the daily update analysis is disabled.

4 Select one or more updates to install.

Only those updates that have a check box can be installed. Updates that have a dash next to the update ID are set to be installed during the next scheduled system shutdown.

The name of the Install button changes based on the number of updates you select. For example, if you select one update, the button name is Install 1 Update. If you select two updates, the button name is Install 2 Updates.

5 Click Install 1 Update Now.

The Installing dialog box shows the progress of the system analysis. This analysis is performed to determine whether the updates you selected depend on other updates being installed on the system. This dialog box also shows the progress of the update download and installation operations. You can cancel these operations by clicking Cancel.

The Installation Summary dialog box shows the installation status for the selected updates. A symbol with a green check mark shows that the installation was successful. If the installation fails, a yellow caution symbol is displayed to the left of the Update ID, and a "Failed" symbol (a red circle with an exclamation point in it) is displayed to the right of the Update ID. An error message describes the possible cause for the installation failure.

6 Click OK to exit the Installation summary box.

7 (Optional) If you selected an update that depends on one or more other updates being installed, agree to install the update dependencies.

The Additional Updates Required dialog box shows the other updates that you must install.

- **Click Continue to install the updates.**

The updates are installed.

- **Click Cancel to cancel the installation.**

If you cancel the operation, the update is not installed.

8 (Optional) If you selected an update that requires a system restart, decide whether to restart the system now or later.

The Installation Complete dialog box shows which updates were installed and whether the installation succeeded or failed. If updates that require a system restart (Restart Required) must be installed, the tool asks you whether you want to restart the system to install the updates.

- **To perform the system restart now, click Restart System Now, then click OK.**

Updates that do not require a system restart are installed immediately.

The Restart System dialog box asks you to confirm whether to restart the system now.

- **Click Yes to restart the system.**

Update Manager restarts the system, and the updates that require a restart are installed.

- **Click No to dismiss the Restart System dialog box.**

- **To perform the system restart later, click OK.**

Note – Use only the `init` command or the `shutdown` command to restart your system, or the updates waiting for the restart will not be installed.

Updates that do not require a system restart are installed immediately, while updates that require a restart are queued for installation at the next system restart.

▼ How to View Installed Updates and Remove Updates From Your System (GUI)

Use this procedure to view the list of updates that are installed on your system and to remove one or more updates.

1 Access the Update Manager GUI.

See “[How to Access the Update Manager Application \(GUI\)](#)” on page 52.

2 In the Available Updates screen, click Installed Updates.

The Installed Updates screen shows the list of updates that are installed on your system.

3 Select one or more updates to remove.

Only those updates that have a check box can be removed. Updates that have a dash next to the update ID *cannot* be removed.

The name of the Uninstall button changes based on the number of updates that you select. For example, if you select one update, the button name is Uninstall 1 Update. If you select two updates, the button name is Uninstall 2 Updates.

4 Click Uninstall 1 Update.

The Confirm Uninstallation dialog box shows the updates you want to remove. It also shows any update dependencies that must also be removed.

5 Click Continue to uninstall the selected updates.

The Uninstalling dialog box shows the progress of the operation. You can cancel the uninstallation operation by clicking Cancel.

When the updates are uninstalled, the Uninstallation Complete dialog box shows which updates were uninstalled and whether the uninstallation operation succeeded or failed. Click OK to dismiss the dialog box.

Tuning Your Update Management Environment by Using the GUI (Task Map)

The following table identifies the optional tasks that you might perform when you use the GUI to tune the update management environment for your system.

If you want to use the `smatch` command to tune your update management environment, see the `smatch(1M)` man page.

Task	Description	For Instructions
(Optional) Set different directory locations.	Specify a different location for the download directory or the backout directory if the default locations are not large enough.	“How to Change Update Directory Locations (GUI)” on page 63
(Optional) Schedule a regular update analysis to determine the list of appropriate updates.	Analyze your system on a regular basis to determine the list of appropriate updates. By default, an analysis is performed daily.	“How to Enable a Daily Analysis of Updates (GUI)” on page 63
(Optional) Reassign your system to another Sun Online Account.	Change the owner of your registered system to a different Sun Online Account.	“How to Reassign Your System to a Different Sun Online Account (GUI)” on page 64
(Optional) Display the Update Manager notification icons and menu on your GNOME desktop.	Use these icons to access the Update Manager GUI and the Sun Update Connection Hosted web application. You can also use these icons to obtain information about the updates, and their types, that are available for this system.	“How to Display the Notification Icons and Menu on Your GNOME Desktop (GUI)” on page 64

▼ How to Change Update Directory Locations (GUI)

This procedure describes how to specify alternative locations for the *download directory*, the *backout data directory*, or both. By default, the download directory is `/var/sadm/spool`.

1 Access the Update Manager GUI.

See “[How to Access the Update Manager Application \(GUI\)](#)” on page 52.

2 Choose Preferences from the File menu.

The Configuration screen of the Preferences dialog box appears.

3 In the Directories section, specify alternative directory locations, as applicable.

- Type the alternative location for the download directory in the Download Directory field.
- Type the alternative location for the backout data directory in the Backout Data Directory field.

4 Click OK to set one or both of these values, and to dismiss the dialog box.

Click Cancel to discard the values you set, and to dismiss the dialog box.

▼ How to Enable a Daily Analysis of Updates (GUI)

By default, an automatic update analysis is performed one time each day. The analysis uses the source of updates you specified. Only the updates that you are permitted to access, based on the system registration and subscription key, are listed on the Available Updates screen after an analysis operation.

1 Access the Update Manager GUI.

See “[How to Access the Update Manager Application \(GUI\)](#)” on page 52.

2 Choose Preferences from the File menu.

The Configuration screen of the Preferences dialog box appears.

3 Click Notification.

The Notification screen of the Preferences dialog box appears.

4 In the Updates Analysis section, specify whether to perform an automatic update analysis on your system.

- To enable the automatic analysis operation, select **Run Updates Analysis Daily (Recommended)**.
- To disable the automatic analysis operation, select **Do Not Run Updates Analysis**.

- 5 **Click OK to set this value, and to dismiss the dialog box.**

Click Cancel to discard the value you set, and to dismiss the dialog box.

▼ **How to Reassign Your System to a Different Sun Online Account (GUI)**

Perform this procedure after you have registered your system.

- 1 **Access the Update Manager GUI.**

See [“How to Access the Update Manager Application \(GUI\)”](#) on page 52.

- 2 **Choose Manage Subscription from the File menu.**

The Add Subscription dialog box appears.

- 3 **Supply the information for the other Sun Online Account.**

- a. **Type the other user name in the User Name field.**

- b. **Type the password in the Password field.**

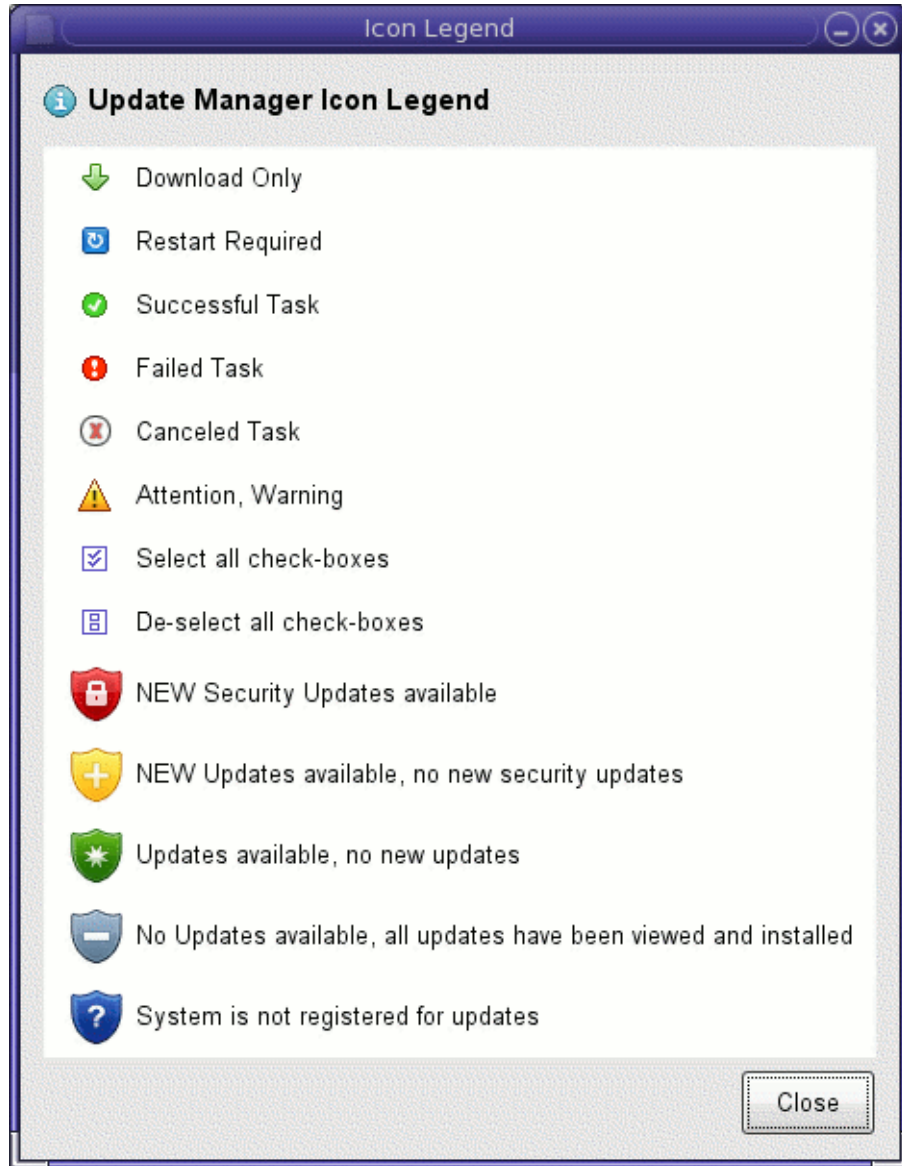
- 4 **(Optional) Type your subscription key in the Key field.**

- 5 **Click Finish to store the changes, and to dismiss the dialog box.**

Click Cancel to discard the changes, and to dismiss the registration wizard.

▼ **How to Display the Notification Icons and Menu on Your GNOME Desktop (GUI)**

The Icon Legend Window lists the icons used by Update Manager and lists a brief description of each.



The five icons towards the bottom of the Icon Legends Window appear only on the GNOME desktop and enable you to access the Update Manager GUI and the Sun Update Connection Hosted web application. You can also use these icons to obtain additional information about the updates that are available for the system. Right-click the icon to view the menu choices that are linked to each notification icon. Left-click the icon to start the Update Manager application.

The following list contains a description of each of the GNOME desktop icons:

- **Red symbol with a lock.** Indicates that new security updates are available for this system. This icon *only* appears if your system is registered and you have an Update Manager subscription. You must also have the daily system analysis enabled to get this notification. From the icon menu, you can start the Update Manager application and go to the Sun Update Connection System web site.
- **Yellow symbol with a plus mark.** Indicates that new updates are available, but none are security updates. You must have the daily system analysis enabled to get this notification. From the icon menu, you can start the Update Manager application and go to the Sun Update Connection System web site.
- **Green symbol with a star.** Indicates that updates are available but no new updates have been detected for the system. Note that you might see this state indicator if you disabled the daily update analysis. From the icon menu, you can start the Update Manager application and go to the Sun Update Connection System web site.
- **Grey symbol with a dash.** Indicates that no updates are available. All updates have been viewed and installed on the system. From the icon menu, you can start the Update Manager application and go to the Sun Update Connection System web site.
- **Blue symbol with a question mark.** Indicates that the system is not registered. From the icon menu, you can open the registration wizard and learn more about the Update Manager and Sun Update Connection System tools.

1 Access the Update Manager GUI.

See “[How to Access the Update Manager Application \(GUI\)](#)” on page 52.

2 Choose Preferences from the File menu.

The Configuration screen of the Preferences dialog box appears.

3 Click Notification.

The Notification screen of the Preferences dialog box appears.

4 In the Notification Icon and Menu section, specify whether to display the notification icon and menu.

- **To view the Notification Icon and Menu, select Display Notification Icon and Menu. To enable this feature, select Run Updates Analysis Daily from the Updates Analysis section of the Notification dialog box.**
- If you do not want Updates Analysis to run in the background, select Do not run Updates Analysis. Selecting this option prevents you from displaying the notification icon and menu.
- **To disable this feature, deselect Display Notification Icon and Menu.**

5 Click Apply to set the value, and save your selection.

Note – The Notification icon is enabled only if the GNOME panel is running. The Notification icon will not display if the Update Manager application is running remotely.

- 6 Click OK to dismiss the dialog box or click Cancel to discard the value you set, and to dismiss the dialog box.**

Managing Solaris Updates by Using the Sun Update Connection Hosted Browser Interface

This chapter explains how to perform the update management jobs using the Sun Update Connection System browser interface. It includes the following sections:

- “Managing Solaris Updates by Using the Sun Update Connection Hosted Web Application (Task Map)” on page 69
- “Accessing the Sun Update Connection System (Task Map)” on page 71
- “Managing Systems by Using the Sun Update Connection System (Task Map)” on page 75
- “Managing Updates by Using Sun Update Connection System (Task Map)” on page 80
- “Managing Jobs (Task Map)” on page 83

Managing Solaris Updates by Using the Sun Update Connection Hosted Web Application (Task Map)

To use the Sun Update Connection Hosted web application, you must first register your Solaris 10 systems with the Update Manager registration wizard. During registration, you must supply your Update Manager subscription key, and indicate that you want to use the Sun Update Connection Hosted web application to remotely manage your systems.

Note – If you use the Sun Update Connection Hosted web application, you can still use the Update Manager application to perform update management jobs locally.

You can access the Summary page, the Systems page, the Updates page, or the Jobs page by clicking the tabs at the top of the page.

The Summary page appears each time you log in to the Sun Update Connection System web site. It shows summary information about systems, updates, and jobs.

From this page, you can get the following information about systems, updates, and jobs, each in their own section:

- **Systems.** This section shows you the number of systems that have not checked in to Sun within the last 24 hours. This section also shows you the total number of managed systems
- **Updates.** This section also shows you the total number of updates that are available for all of your managed systems. This section also shows you the number of the following types of updates available for your systems:
 - Security updates
 - Sun Alert and recommended updates
 - Feature updates
 - Non-critical updates
- **Jobs.** This section shows you the job status, which includes the total number of jobs that succeeded, that failed, that are awaiting system check-in to run, and that are in progress.

Each page includes a Jobs Summary sidebar, which shows up to 25 of the jobs created this session. When the Jobs Summary queue is full and you create a new job, the first one drops off of the list. You can access job details from the sidebar.

If your session is inactive for 20 minutes, you are automatically logged out. The web application issues a warning after 15 minutes and enables you to extend the session for another 20 minutes.

The following table identifies the tasks that you might perform when you use the Sun Update Connection Hosted web application.

Task	Description	For Instructions
Access the web application.	Log in to the browser interface and manage your Sun Online Account.	“Accessing the Sun Update Connection System (Task Map)” on page 71
Manage your systems.	You can use the browser interface to set the check-in interval for your system, change a system name, view your systems, view applicable updates, and remove systems from the list of those managed by the Sun Update Connection System.	“Managing Systems by Using the Sun Update Connection System (Task Map)” on page 75
Manage updates.	Install updates and update dependencies, uninstall updates, and view update details.	“Managing Updates by Using Sun Update Connection System (Task Map)” on page 80
Manage jobs.	View jobs and job details, create jobs, track running jobs, archive jobs, view job status, and cancel pending jobs.	“Managing Jobs (Task Map)” on page 83

Accessing the Sun Update Connection System (Task Map)

The following table identifies the tasks that you might perform when you access the Sun Update Connection Hosted web application.

Task	Description	For Instructions
Log in to the Sun Update Connection System web site.	Access the Sun Update Connection Hosted web application to manage updates on one or more of your systems.	“How to Log In to the Sun Update Connection System Web Site (Browser Interface)” on page 71
(Optional) Retrieve your forgotten Sun Online Account user name.	If you forgot your Sun Online Account user name, you can request that it is sent to you.	“How to Retrieve Your Forgotten User Name (Browser Interface)” on page 72
(Optional) Retrieve your forgotten Sun Online Account password.	If you forgot your Sun Online Account password, you can request that it is sent to you.	“How to Retrieve Your Forgotten Password (Browser Interface)” on page 73
(Optional) Change your Sun Online Account password.	Periodically change your password to improve the security of your account.	“How to Change Your Password (Browser Interface)” on page 73
(Optional) Create a Sun Online Account.	If you do not already have a Sun Online Account, you can create one from the Sun Update Connection System web site.	“How to Create a Sun Online Account (Browser Interface)” on page 74
(Optional) Modify your Sun Online Account information.	You can modify your system’s registration information.	“How to Modify Your Sun Online Account Information (Browser Interface)” on page 75

▼ How to Log In to the Sun Update Connection System Web Site (Browser Interface)

1 Open your browser.

Supported browsers include the following:

- At least Mozilla 1.3
- At least Internet Explorer 5.0
- At least Firefox 1.0

2 Go to <http://updates.sun.com>.

Consult your network administrator for network proxy and port settings if you have difficulty connecting.

3 Enter your Sun Online Account user name and password, and click Log In.

If you have forgotten your user name, see [“How to Retrieve Your Forgotten User Name \(Browser Interface\)”](#) on page 72.

If you have forgotten your password, see [“How to Retrieve Your Forgotten Password \(Browser Interface\)”](#) on page 73.

▼ **How to Retrieve Your Forgotten User Name (Browser Interface)**

Sun stores the email address for each Sun Online Account and the associated user names. One email address can have one or more associated user names. Sun can email the user names linked to an email address.

If you remember your user name and have forgotten your password, see [“How to Retrieve Your Forgotten Password \(Browser Interface\)”](#) on page 73.

1 From the Sun Update Connection System login screen, click Forgot User name or Password.

The Already a Sun Update Connection System User window opens.

2 Click the Forgot your User Name or Password? link.

The Forgot Your User Name or Password? window opens.

3 Enter your email address.

This is the email address you provided to Sun when you registered for your Sun Online Account.

4 Click Submit.

Sun verifies that the email address is associated with a valid Sun Online Account.

- If the email address is validated, Sun sends you an email with the user names associated with the email address.
- If the email address is not found or is not valid, you receive one of the following error messages:
 - Email does not correspond to a Sun Online Account
 - Email and user name do not correspond to a Sun Online Account
 - Email and user name do not correspond to the same Sun Online AccountA confirmation screen directs you to a sent email.

5 Return to the Sun Update Connection System login screen.

6 Enter your Sun Online Account user name and password, and click Log In.

▼ How to Retrieve Your Forgotten Password (Browser Interface)

- 1 From the Sun Update Connection System login screen, click *Forgot User name or Password*.**
The *Already a Sun Update Connection System User* window opens.
- 2 Click the *Forgot your User Name or Password?* link.**
The *Forgot Your User Name or Password?* window opens.
- 3 Enter your email address.**
This is the email address you provided to Sun when you registered for your Sun Online Account.
- 4 Enter your User Name.**
- 5 Click *Submit*.**
Sun verifies that the email address is associated with a valid Sun Online Account.
 - If the email address is validated, your password is reset to a system-generated password, and your generated password is emailed to you.
 - If the email address is not found or is not valid, you receive one of the following error messages:
 - Email does not correspond to a Sun Online Account
 - Email and user name do not correspond to a Sun Online Account
Enter your correct email address and click *Submit*.
A confirmation screen directs you to a sent email.
- 6 Return to the Sun Update Connection System login screen.**
- 7 Enter your Sun Online Account user name and password, and click *Log In*.**

▼ How to Change Your Password (Browser Interface)

- 1 Click *Account*.**
- 2 Click *Change Your Password*.**
Your Sun Online Account user name appears.
- 3 Type your current password.**
- 4 Type your new password.**
The new case-sensitive password must be 6-8 characters in length.

5 Retype your new password.

6 Click Submit.

- If the password change succeeds, click Continue.
- If the password change fails, reenter the password and click Submit.

▼ **How to Create a Sun Online Account (Browser Interface)**

If you have not previously created a Sun Online Account, you can create one from the Log In screen.

Note – A Sun Online Account is required for you to register each client system. If you are creating your Sun Online Account here, you have not registered your Sun systems for remote update management in the Update Manager application. You must log into each client system and register each system for Manage at Sun Update Connection System to view and manage your systems using the Sun Update Connection System services.

1 Click the Not Registered: Create Account link in the Existing Users Log in panel.

The Registration window appears.

Note – The system where you are logged in must be connected to the Internet to create the Sun Online Account. The information you enter into the fields is saved locally and sent to Sun. Sun requests that you use English characters for the information you supply.

2 Complete the fields.

Some fields are required. Your account creation will fail if any of these fields are blank.

3 Click Next to connect to Sun and validation of the entered data.

If a required field is blank, or an invalid entry is detected, a message displays, the screen is displayed again, and you are prompted to correct the error or fill in the blank field.

Data is validated to make sure of the following:

- User name is not already taken (at Sun).
- Required fields are completed.
- All entered data matches field validation logic.

4 Click Continue.

The Terms of Use window displays.

5 Review the Sun Terms of Use.

- **If the terms are acceptable, click I Accept and click Submit.**

Your registration is completed, and the Home page appears.

- **If you have questions or concerns about the Terms of Use, click Cancel to discard your account changes.**

Contact your Sun representative to discuss your questions or concerns.

The Summary screen appears, but no system information is displayed as no systems are registered.

- 6 **Launch the Update Manager application and register your system.**

▼ **How to Modify Your Sun Online Account Information (Browser Interface)**

You can manage your Sun Online Account from the Sun Update Connection System web site. You can modify your registration information and change your password.

- 1 **Click Account.**

The button is at the top of your screen.

- 2 **Click Update Registration Information.**

The Sun Online Account registration form appears, which shows the current values.

- 3 **Modify the values in the appropriate fields.**

- 4 **Enter your password.**

- 5 **Click Continue.**

Your account information is modified, and a confirmation of success displays.

Managing Systems by Using the Sun Update Connection System (Task Map)

The following table identifies the common system-related tasks you can perform.

Task	Description	For Instructions
View your systems.	You want to see the systems you manage. View system update status.	“How to View Your Systems (Browser Interface)” on page 76

Task	Description	For Instructions
View details about each system being managed.	You want to see configuration information about each of your systems.	“How to View System Details (Browser Interface)” on page 77
View applicable updates for one or more systems.	You want to see the list of applicable updates that can be applied to one or more of your systems.	“How to View the Applicable Updates for One or More Systems (Browser Interface)” on page 77
Modify system settings.	You want to modify some of your system settings.	“How to Edit System Settings (Browser Interface)” on page 77
Set the check-in interval for your systems.	You want to specify how often each of your systems check in to the Sun Update Connection System web site to run jobs.	“How to Set the Check-In Interval for a System (Browser Interface)” on page 78
Change a system name.	You want to change the name of one or more of your systems.	“How to Change a System Name (Browser Interface)” on page 78
Delete a system.	You no longer want a system to be managed by the Sun Update Connection Hosted web application, so you delete it. A deleted system is still registered.	“How to Delete a System (Browser Interface)” on page 79

▼ How to View Your Systems (Browser Interface)

1 From the Systems page, choose All from the Filter menu.

All systems linked to your Sun Online Account are listed.

2 (Optional) If a system is not listed, register the system for remote update management by using the Sun Update Connection Hosted web application.

You can do this from the Update Manager application:

- **Click Manage at Sun Update Connection System.**

If the system is not registered for remote management, the registration screen displays. You can enter your Sun Online Account user name and password in this screen.

- **Complete the registration for remote management.**

A confirmation window displays asking if you want to open the Sun Update Connection Hosted web application.

▼ How to View System Details (Browser Interface)

- ▶ **From the Systems Page, click the name of a system.**

A message pops up which includes the details of the system which were sent to Sun when you registered the system in the Update Manager application.

▼ How to View the Applicable Updates for One or More Systems (Browser Interface)

The list of available updates is automatically updated when the system checks in with Sun. Updates remain in the list until the system check-in, so the list may not reflect real time changes.

- 1 From the Systems page, check the check box for the systems for which you want to view available updates.**
- 2 Click View Available Updates.**

All updates available for the selected system are listed.

Note – If you uninstalled an update, it might not be listed until the system checks in and the analysis for that system is performed. The uninstalled update might not be appropriate, so it is not automatically added to the list of available updates.

▼ How to Edit System Settings (Browser Interface)

- 1 From the Systems page, click the History icon in the System Name column.**

The History icon provides access to the historical data for the system.

The Installed Updates page for the system you selected opens.

- 2 Click Edit System Settings.**

The button is located below the page name and above the list of installed updates.

- 3 Choose the setting to edit:**

- Change system common name
See “[How to Set the Check-In Interval for a System \(Browser Interface\)](#)” on page 78.
- Change system check-in interval
See “[How to Change a System Name \(Browser Interface\)](#)” on page 78.
- Delete system
See “[How to Delete a System \(Browser Interface\)](#)” on page 79.

▼ How to Set the Check-In Interval for a System (Browser Interface)

- 1 **From the Systems page, click the History icon in the System Name column.**

The History icon provides access to the historical data for the system.

The Installed Updates page for the system you selected opens.

- 2 **Click Edit System Settings.**

The button is located below the page name and above the list of installed updates.

- 3 **Set System to check in with the Sun Update Connection System.**

- 4 **Choose the check-in interval from the menu.**

The default check-in interval is two hours. Select from the drop-down list to change the interval.

Your system will check in at the next originally scheduled interval. After that check-in, the newly set interval is activated.

- 5 **Click Save Changes.**

After you save the changes, you are returned to the Edit Your System Settings window.

Note – To exit this screen without saving any changes, skip this step and click a navigation button.

- 6 **Exit the System Settings page.**

You can exit this page by clicking one of the following buttons:

- View Available Updates
- View Installed Updates
- View All Jobs

▼ How to Change a System Name (Browser Interface)

You can modify the name of the selected system. The populated name is the name sent to Sun during system registration.

- 1 **From the Systems page, click the History icon, on the same line as the system name.**

The Systems page includes an icon in the system name column. This icon provides a link to the historical data for the system.

The Installed Updates page for the system you selected opens.

2 Click Edit System Settings.

The button is located below the page name and above the list of installed updates.

3 Enter a System Name.

The default name is the one used when you registered the system. Each of the systems you manage must have a unique name.

Note – If you enter a system name which is already in use and assigned to you, an error message displays in a pop-up window instructing you to re-enter the system name.

4 Click Save Changes.

After you save the changes, you are returned to the Edit Your System Settings window.

Note – To exit this screen without saving any changes, skip this step and click a navigation button.

5 Exit the System Settings page.

You can exit this page by clicking one of the following links:

- View Available Updates
- View Installed Updates
- View All jobs

▼ How to Delete a System (Browser Interface)

To remove a system from remote update management, click Delete System. A confirmation message displays in a pop-up window. If you click OK, the system information is removed from the Sun Update Connection System records, including all job information. The deleted system's job queue is removed and pending jobs are not started. In addition, the automatic system analysis and check-in processes are stopped.

You can manage the deleted system in the Update Manager application. You can re-register the system for remote management at the Update Manager client application.

1 From the Systems page, click the History icon, on the same line as the system name.

The Systems page includes an icon in the system name column. This icon provides a link to the historical data for the system.

The Installed Updates page for the system you selected opens.

2 Click Edit System Settings.

The button is located below the page name and above the list of installed updates.

3 Choose Delete System.

The information sent to Sun when you registered this system for remote management at the Sun Update Connection System is displayed. This information is read only.

4 Click Save Changes.

Note – To exit this screen without saving any changes, skip this step and click a navigation button.

After you save the changes, you are returned to the Edit Your System Settings window.

5 Exit the System Settings page.

You can exit this page by clicking one of the following links:

- [View Available Updates](#)
- [View Installed Updates](#)
- [View All Jobs](#)

Managing Updates by Using Sun Update Connection System (Task Map)

The following table identifies the common update-management tasks you can perform.

Task	Description	For Instructions
Install an update.	You want to install updates to one or more of your systems.	“How to Install an Update (Browser Interface)” on page 80
Install updates on which other updates depend.	You want to install updates on which other updates depend.	“How to Install Dependent Updates With Selected Updates (Browser Interface)” on page 81
Remove updates from one or more systems.	You want to remove updates from one or more of your systems.	“How to Uninstall an Update (Browser Interface)” on page 82
View details about an update.	You want to view the details about an update in the update README file.	“How to View Update Details (Browser Interface)” on page 82

▼ How to Install an Update (Browser Interface)

This procedure describes how to create a job to install one update on one or more of your systems. After you have created your jobs, each of your systems checks in to Sun or to your Sun Update Connection Proxy to perform their queued jobs.

If an update you want requires a system reboot to activate it, the update is staged for installation at the next system shutdown. You must use one of the following commands to initiate the system shutdown:

- **Power down the system** – `init 0` or `shutdown -i 0`
- **Drop to the firmware prompt** – `init 5` or `shutdown -i 5`
- **Reboot the system** – `init 6` or `shutdown -i 6`

Note – Do *not* use the `reboot` command, the `halt` command, the `uadmin` command, or press the Reset or Power button to initiate the shutdown. Taking any of these actions bypasses the required shutdown processing, and prevents the updates from being staged for later installation.

1 From the Updates page, select one or more systems, and click View Available Updates.

A window that shows a list of all updates for each system you selected appears.

2 Select one or more updates you want installed on the systems you selected.

The window shows the time of the next check-in for each system. This is the time at which your system will check in to Sun or to your Sun Update Connection Proxy and run queued jobs for that system.

A confirmation window appears to show you the details about the jobs you created.

Note – If the installation of an update that you selected requires that another update be installed, a dialog box appears to show you this *dependency*. To successfully install the update you originally selected, you *must* agree to install the dependency or the job will not be created.

3 Click Apply Updates to create the job.

The job is queued for execution at the next check-in time. One job is created for each update to be installed on one or more systems.

4 Click Cancel to discard the job information.

▼ How to Install Dependent Updates With Selected Updates (Browser Interface)

1 From the Systems page, select one or more check boxes for any systems where updates are to be installed.

2 Click View Available Updates.

3 Select the check boxes of the updates you want installed, and click Apply Updates.

Sun Update Connection System searches the information for the selected updates, and if one or more updates must be installed before you can install a selected update, the dependencies are displayed in an Install Dependencies and Confirmation window.

Note – You must install any dependencies or no job can be created to install the selected updates.

4 Click the Install All Above Updates button to agree to install the listed dependencies and the selected updates.

The job is created, and a confirmation window opens.

If you choose not to install the dependencies, click Cancel to close the window and discard your update installation request.

5 Click a tab to navigate from the confirmation window.

▼ How to Uninstall an Update (Browser Interface)

Some updates that affect core Solaris functionality *cannot* be uninstalled. On the Updates page these updates are designated by a dash in the check box column and cannot be selected.

From the Systems page, you can click completed jobs to view the list of updates that have already been installed on the system you selected and the date when each update was installed.

1 From the Updates page, select the updates you want to uninstall.

2 Click Uninstall Selected.

Note – If you try to uninstall an update that has one or more dependencies (updates which must be uninstalled along with the selected update), a dialog box appears that lists the dependencies and gives details about the dependency updates. You must agree to uninstall the dependencies along with the selected updates to proceed with the uninstall. Click OK to agree.

The uninstallation operation runs. An acknowledgment dialog box appears when the uninstallation operation successfully completes. If the operation fails, an acknowledgement dialog box appears that explains the failure.

▼ How to View Update Details (Browser Interface)

► From the Updates page, click the update ID of the update for which you want to see details.

The README for the update displays in a pop-up window.

Managing Jobs (Task Map)

A job can be in one of four active statuses, or Archived.

- **Pending.** The job is created and has not been executed. The job may be awaiting the system check-in, system reboot, or other manual intervention. A pending job can be canceled.
- **In Progress.** The job has been started and is not yet completed. Jobs can be started at system check-in or system reboot, or at other manual intervention.
- **Failed.** The job completed unsuccessfully. A failed job is eligible to be archived.
- **Succeeded.** The job completed successfully. A succeeded job is eligible to be archived.
- **Archived.** The completed job has been removed from the default list of jobs in the Sun Update Connection System pages. To see archived jobs, set the filter to Archived.

The following table identifies the common job-related tasks you can perform.

Task	Description	For Instructions
View your jobs.	You want to see the jobs that you have created to run on one or more of your systems.	“How to View Jobs (Browser Interface)” on page 84
View details about each job you created.	You want to see detailed information about the jobs you created.	“How to View Job Details (Browser Interface)” on page 84
Create a job from the Systems page.	You want to create a job to install updates to one or more of your systems.	“How to Create a Job From the Systems Page (Browser Interface)” on page 84
Create a job from the Updates page.	You want to create a job to install updates to one or more of your systems.	“How to Create a Job From the Updates Page (Browser Interface)” on page 85
Track a running job.	You want to see which jobs are running on your systems.	“How to Track a Running Job (Browser Interface)” on page 86
Archive a completed job.	You want to move a completed job to the archive.	“How to Archive a Completed Job (Browser Interface)” on page 86
View the status of a job.	You want to see the status of a job.	“How to View the Status of a Job (Browser Interface)” on page 87
Cancel a pending job.	You no longer want to run a job you created. You can only cancel a pending job, which has been scheduled but has not run.	“How to Cancel a Pending Job (Browser Interface)” on page 87

▼ How to View Jobs (Browser Interface)

From the Jobs page, you can view jobs with any status. Use the Filter menu to choose one of the following categories:

- **All Jobs.** Lists all jobs except for those that have been archived.
- **Archived Jobs.** Lists completed jobs that have been archived.
- **Completed.** Lists non-archived jobs that are in the Succeeded or Failed status.
- **Active.** Lists jobs which are in the Pending or In Progress status.

- 1 **From the Jobs page, choose the value from the Filter menu for the jobs you want to view.**
- 2 **Click the View Selected button to see the job details.**

This page does not automatically refresh. To refresh the screen to see progress, click your browser Reload or Refresh button.

▼ How to View Job Details (Browser Interface)

- 1 **From the Jobs page, select one or more jobs.**

Select the check box for each job for which you want to display details. The jobs included in the display depends on the Filter choice. If you do not see the jobs in which you are interested, change the Filter choice to All Jobs.

- 2 **Click View Selected.**

The details about the selected jobs display. The links on this screen enable you to view system and update details by clicking on the system name or the update synopsis.

- 3 **(Optional) Click the system name to view details about the system.**
- 4 **(Optional) Click the update synopsis to view details about the update.**

▼ How to Create a Job From the Systems Page (Browser Interface)

You can use jobs to install and uninstall an update. To create a job from the Updates page, see [“How to Create a Job From the Updates Page \(Browser Interface\)”](#) on page 85.

- 1 **From the Systems page, select one or more systems.**
- 2 **Click View Available Updates.**

This opens the list of updates available for each of the systems you selected. Each selected system displays with updates available for that system.

3 Select one or more updates for the listed systems.

To select all listed updates for a listed system, select the check box for the system.

4 Click Apply Updates.

Selected updates are reviewed against the updates that are already installed on the selected system to determine if any of the selected updates have dependencies.

5 (Optional) If one or more dependencies are detected, agree to install the dependencies.

You must agree to install the listed dependencies along with the selected updates to create a job and insert the job in the queue. Click Cancel on the Dependencies window to close the window and discard the selections and to not create a job.

6 Review the Confirmation screen which lists the created and scheduled jobs.

The confirmation screen lists the update to be installed, the system host name where the update is to be installed, and the expected installation time and date.

Note – The job scheduled time and date is the next scheduled check-in for the system where the update is to be installed.

These jobs will be queued and run at the next check-in of each affected system.

▼ **How to Create a Job From the Updates Page (Browser Interface)**

A job is one update being installed on one or more selected systems. You can create an installation job or an uninstallation job from a Systems page or an Updates page. See [“How to Create a Job From the Systems Page \(Browser Interface\)” on page 84](#).

1 From the Updates page, select one or more updates.

Each update installed creates one job, regardless of the number of affected systems. If you select multiple updates, multiple jobs are created: one per update.

2 Click View Systems Affected.

This opens the list of systems available for each of the updates you selected. Each selected system displays in a group format with updates available for that system.

3 Select one or more updates for the listed systems.

To select all listed updates for a listed system, select the check box for the system.

4 Click Apply Updates.

Selected updates are reviewed against the updates that are already installed on the selected system to determine if any of the selected updates have dependencies.

5 (Optional) If one or more dependencies are detected, agree to install the dependencies.

You must agree to install the listed dependencies along with the selected updates to create a job and insert the job in the queue. Click Cancel on the dependencies window to close the window and discard the selections and to not create a job.

6 Review the Confirmation screen which lists the created and scheduled jobs.

The confirmation screen lists the update to be installed, the system host name where the update is to be installed, and the expected installation time and date.

Note – The job scheduled time and date is the next scheduled check-in for the system where the update is to be installed.

These jobs will be queued and run at the next check-in of the affected system.

▼ **How to Track a Running Job (Browser Interface)**

A running job is one with the In Progress status.

From the Jobs page, you can view jobs with any status. Use the Filter menu to choose one of the following categories.

- **All Jobs.** Lists all jobs except for those that have been archived.
- **Archived Jobs.** Lists completed jobs that have been archived.
- **Completed.** Lists non-archived jobs that are in the Succeeded or Failed status.
- **Active.** Lists jobs which are in the Pending or In Progress status.

1 From the Jobs page, choose In Progress from the Filter menu.

The jobs which have started and are not completed display in the list. If the job does not display, perhaps the job is complete or pending.

2 Click the View Selected button to see the job details.

This page does not automatically refresh. To refresh the screen to see progress, click your browser Reload or Refresh button.

▼ **How to Archive a Completed Job (Browser Interface)**

Each completed job has either a failed or a succeeded status. Only a job that has completed can be archived. Those jobs with the icon can be archived.

1 From the Job page, choose All from the Filter menu.

All current (non-archived) jobs are listed.

2 Select one or more of the completed jobs you want to archive.

Select the check box for any completed job with a status of either Failed or Succeeded.

3 Click Archive Selected.

A pop-up message displays confirming that the selected jobs with a completed status are archived. Any jobs with a status of Pending or In Progress cannot be archived.

▼ How to View the Status of a Job (Browser Interface)**► From the Jobs page, choose All Jobs from the Filter menu.**

A list of all current (non-archived) jobs displays with the status of each. Archived jobs do not display in this list.

▼ How to Cancel a Pending Job (Browser Interface)

Only a job with a status of Pending can be canceled. The Cancel Updates for Selected Systems window displays. This window includes the update details and the system details of the job that you have requested to be canceled.

1 From the Jobs page, choose Pending (under Active) from the Filter menu.**2 Select the check box for the job to be canceled.****3 Select one or more jobs that you want to cancel.****4 Click Cancel Selected Jobs.****5 Confirm that you want to cancel the job.****▪ Click OK to cancel the job.**

The job moves to a Failed status, and the job is removed from the queue to be executed.

▪ Click Cancel to discard the job cancellation request.

The window closes, the request is discarded, and you are returned to the Job Details window.

Configuring a Sun Update Connection Proxy

This chapter describes how to configure a Sun Update Connection Proxy, also referred to as a local patch server, on a Solaris 10 system. This chapter includes the following task-related information:

- “Configuring Your Sun Update Connection Proxy (Task Map)” on page 89
- “Configuring Your Sun Update Connection Proxy” on page 90

The Sun Update Connection Proxy supports client systems that use the Sun Update Connection Hosted product and the Sun Patch Manager 2.0 product. A Sun Update Connection System client system is not compatible with the older local patch server feature associated with the Sun Patch Manager 2.0 product.

Note – The Sun Update Connection Proxy is an optional feature that you can obtain at no charge if you have a Sun Service Plan. For information about obtaining a Sun Service Plan, go to Solaris Operating System Software Support at <http://www.sun.com/service/support/software/solaris/> and select the appropriate level of service.

For instructions on how to install the proxy, see “How to Install the Update Manager Feature Update” on page 36 or “How to Install the Update Manager Client Software” on page 37.

Configuring Your Sun Update Connection Proxy (Task Map)

The following table identifies the tasks that you can perform with the `patchsvr` setup command to configure an update server on your intranet. See the `patchsvr(1M)` man page.

Before you can perform these tasks, you must install the Sun Update Connection Proxy software. For instructions on how to install the proxy, see “How to Install the Update Manager Feature Update” on page 36 or “How to Install the Update Manager Client Software” on page 37.

Task	Description	For Instructions
Configure your Sun Update Connection Proxy for the first time.	<p>Before you can use your system as a Sun Update Connection Proxy , you must do the following:</p> <ul style="list-style-type: none"> ▪ Verify that the proxy software is installed on the system. ▪ (Optional) Change configuration settings, such as specifying a network proxy, for the system. ▪ Enable the system to act as a Sun Update Connection Proxy . ▪ Configure client systems to specify your Sun Update Connection Proxy as the source of updates. 	<p>“How to Initially Configure Your Sun Update Connection Proxy (Command Line)” on page 92</p>
(Optional) Obtain information about the configuration of your Sun Update Connection Proxy .	<p>This information can help you diagnose problems or view the configuration settings you specified.</p>	<p>“How to View Configuration Settings for Your Sun Update Connection Proxy (Command Line)” on page 95</p>
(Optional) Change the configuration settings of your Sun Update Connection Proxy .	<p>By default, your proxy directly connects to the Internet and obtains updates from the Sun update server.</p> <p>If your update management environment does not match the default, modify the configuration settings appropriately.</p>	<p>“How to Change Configuration Settings for Your Sun Update Connection Proxy (Command Line)” on page 96</p>

Configuring Your Sun Update Connection Proxy

Client systems are configured to obtain updates from the Sun update server by default. You need a Sun Update Connection Proxy in the following situations:

- Your client systems are not permitted to connect to the Internet.
- You want to minimize the Internet traffic between your client systems and the Sun update server.

Note – The Sun Update Connection Proxy is an optional feature that you can obtain at no charge if you have a Sun Service Plan. For information about obtaining a Sun Service Plan, go to Solaris Operating System Software Support at <http://www.sun.com/service/support/software/solaris/> and select the appropriate level of service.

For additional information, see “Sun Update Connection Proxy” on page 22.

Configuring Your Update Management Environment to Include a Sun Update Connection Proxy

Configuring your update management environment to include a Sun Update Connection Proxy and configuring your client systems to use the proxy involves completing these tasks:

1. Configure and start your Sun Update Connection Proxy .
See “[How to Initially Configure Your Sun Update Connection Proxy \(Command Line\)](#)” on page 92.
2. Configure your client system or systems to obtain updates from your Sun Update Connection Proxy .
See “[How to Specify a Source of Updates \(GUI\)](#)” on page 56.

After completing these tasks, you are ready to have your client systems obtain updates from your Sun Update Connection Proxy . See [Chapter 4](#).

The Sun Update Connection Proxy logs are stored in the `/var/patchsvr/logs` directory.

Configuration Requirements

Your Sun Update Connection Proxy needs to obtain updates and update data from one of these sources:

- **Update server.** The update server can be the Sun update server or another Sun Update Connection Proxy in the chain of update servers. The Sun update server is the default source of updates.
- **Local collection of updates.** A collection of updates and update data that is stored in a directory available to the local system. Such a directory might be a local directory, a shared network directory, or a CD mounted on your local system.

After you set up the Sun Update Connection Proxy , you must configure each of your client systems to communicate with that proxy. Then you are ready to have your client systems obtain updates from that proxy.

Note – If you locally manage a system that is a client of a Sun Update Connection Proxy on your intranet, you do not need to register the client system. You *must* register the system that acts as the proxy. If, however, your client system is also remotely managed by the Sun Update Connection Hosted web application, the client system *must* be registered.

Configuring Your Sun Update Connection Proxy by Using the Command-Line Interface

Use the `patchsvr` command to configure and enable your Sun Update Connection Proxy. See the `patchsvr(1M)` man page.

▼ How to Initially Configure Your Sun Update Connection Proxy (Command Line)

Before you can use a system as a Sun Update Connection Proxy, you must ensure that the proxy software is installed, configure and start the proxy, and configure clients to communicate with it.

For instructions on how to install the proxy, see [“How to Install the Update Manager Feature Update” on page 36](#) or [“How to Install the Update Manager Client Software” on page 37](#).

Note – The Sun Update Connection Proxy supports client systems that use the Sun Update Connection Hosted product and the Sun Patch Manager 2.0 product. A Sun Update Connection System client system is not compatible with the older local patch server feature associated with the Sun Patch Manager 2.0 product.

The system that you want to act as a Sun Update Connection System Proxy on your intranet must meet these software requirements:

- Solaris 10 system with at least the Developer Solaris Software Group (SUNWCdev), the Entire Solaris Software Group (SUNWCaLL), or the Entire Plus OEM Solaris Software Group (SUNWCXaLL).
A software group is a logical collection of Solaris packages that is installed only with an initial Solaris installation. The Developer Solaris Software Group provides the packages needed to support software development.
- Sun Update Manager software
 For step-by-step instructions on installing the Update Manager software, see [“Installing the Sun Update Connection System Software \(Task Map\)” on page 35](#).

Note – If your Sun Update Connection Proxy uses a network proxy to connect to the Internet, you *must* specify information about the network proxy. See [“How to Change Configuration Settings for Your Sun Update Connection Proxy \(Command Line\)” on page 96](#).

1 As superuser, log in to the system that you plan to use as your Sun Update Connection Proxy.

2 Determine whether the SUNWpsvru and SUNWpsvrr packages are installed on the system.

```
# pkginfo | grep SUNWpsvr system      SUNWpsvrr      Patch Server Deployment (Root)
system      SUNWpsvru      Patch Server Deployment (Usr)
```

3 If the packages are not installed, you must install them before continuing this task.

4 Register this system with Update Manager.

See “[Registering Your System With Update Manager \(Task Map\)](#)” on page 43.

5 If needed, specify the network proxy that your Sun Update Connection Proxy uses to connect to the Internet.

```
# patchsvr setup -x network-proxy-name:port
```

If you do not have the network proxy information, contact your network administrator.

6 Specify the update source.

Your Sun Update Connection Proxy can point to a different source of updates. This update source can be used to fulfill update download requests that cannot be fulfilled by your proxy. By default, the source of updates for your Sun Update Connection Proxy is the Sun update server.

- To specify the next update server in the chain of Sun Update Connection Proxies, type:

```
# patchsvr setup -p http://server-name:3816/solaris/
```

The port used for a proxy server is 3816.

- To specify a collection of updates on the Sun Update Connection Proxy, type:

```
# patchsvr setup -p file:///directory-name
```

The local collection of updates can be in a directory, on a CD, or on a remote file system.

- To specify the Sun update server, which is the default, type:

```
# patchsvr setup -p https://getupdates1.sun.com/
```

7 Start your Sun Update Connection Proxy .

```
# patchsvr start
```

8 (Optional) Enable your Sun Update Connection Proxy so that it is started each time the system boots.

```
# patchsvr enable
```

Examples: Initially Configuring Your Sun Update Connection Proxy

Each of these examples verify that the Sun Update Connection Proxy software is installed on the system.

- The following example shows how to configure a Sun Update Connection Proxy to point to another proxy in a chain. You configure two proxies to serve systems in two buildings. You configure `psvr1` to obtain updates from the Sun update server. Also, `psvr1` communicates with the Internet by using a network proxy. Before you can make the Sun Update Connection Proxy ready for use, you must specify the host name, `networkproxy1`, and the port number, `2010`, of the network proxy. After you configure `psvr1`, you must start it. You can also enable it for automatic restart when the system boots.

```

psvr1 # pkginfo | grep SUNWpsvr
system      SUNWpsvrr      Patch Server Deployment (Root)
system      SUNWpsvru      Patch Server Deployment (Usr)
psvr1 # patchsvr setup -x networkproxy1:2010
psvr1 # patchsvr setup -p https://getupdates1.sun.com/
psvr1 # patchsvr start
Starting Local Patch Server
psvr1 # patchsvr enable

```

You configure psvr2 to obtain updates from psvr1 by specifying the URL to the server, which is `http://psvr1:3816/solaris/`. After you configure psvr2, you must start it. You can also enable it for automatic restart when the system boots.

```

psvr2 # pkginfo | grep SUNWpsvr
system      SUNWpsvrr      Patch Server Deployment (Root)
system      SUNWpsvru      Patch Server Deployment (Usr)
psvr2 # patchsvr setup -p http://psvr1:3816/solaris/
psvr2 # patchsvr start
Starting Local Patch Server
psvr2 # patchsvr enable

```

Now that both of the update servers are configured and started, configure client systems to use them. See [“How to Specify a Source of Updates \(GUI\)” on page 56](#).

- The following example shows how to configure a Sun Update Connection Proxy to obtain updates from a local collection of updates in the `/export/updates` directory. The URL that points to this directory is `file:///export/updates`. After configuring the proxy, you must start it. You can also enable it for automatic restart when the system boots.

```

# pkginfo | grep SUNWpsvr
system      SUNWpsvrr      Patch Server Deployment (Root)
system      SUNWpsvru      Patch Server Deployment (Usr)
# patchsvr setup -p file:///export/updates
# patchsvr start
Starting Local Patch Server
# patchsvr enable

```

Now that the update server is configured and started, configure client systems to use it. See [“How to Specify a Source of Updates \(GUI\)” on page 56](#).

- The following example shows how to configure a Sun Update Connection Proxy to obtain updates from a local collection of updates on a CD mounted from the first CD-ROM drive. The URL that points to this CD is `file:///cdrom/cdrom0`. After configuring the proxy, you must start it. You can also enable it for automatic restart when the system boots.

```

# pkginfo | grep SUNWpsvr
system      SUNWpsvrr      Patch Server Deployment (Root)
system      SUNWpsvru      Patch Server Deployment (Usr)
# patchsvr setup -p file:///cdrom/cdrom0

```

```
# patchsvr start
Starting Local Patch Server
# patchsvr enable
```

Now that the update server is configured and started, configure client systems to use it. See [“How to Specify a Source of Updates \(GUI\)”](#) on page 56.

- The following example shows how to configure a Sun Update Connection Proxy to obtain updates from a collection of updates that is mounted on a remote system. The URL that points to this directory is `/net/mars/export/updates`. After configuring the proxy, you must start it. You can also enable it for automatic restart when the system boots.

```
# pkginfo | grep SUNWpsvr
system      SUNWpsvrr    Patch Server Deployment (Root)
system      SUNWpsvru    Patch Server Deployment (Usr)
# patchsvr setup -p file:///net/mars/export/updates
# patchsvr start
Starting Local Patch Server
# patchsvr enable
```

Now that the update server is configured and started, configure client systems to use it. See [“How to Specify a Source of Updates \(GUI\)”](#) on page 56.

▼ How to View Configuration Settings for Your Sun Update Connection Proxy (Command Line)

You can check the configuration settings of your Sun Update Connection Proxy to help diagnose problems or to understand your server’s update-related settings.

The information includes the following:

- **Location of the update collection.** Source of updates to be checked when the requested update is not available on the local server.
- **Network proxy information.** Host name and port of a network proxy that is used to communicate with the Internet.
- **Location of the update cache.** Directory where updates are cached.

1 Log in to the Sun Update Connection Proxy as superuser.

2 List the configuration settings for your proxy.

```
# patchsvr setup -l
Patch source URL: https://getupdates1.sun.com
Cache location: /var/sadm/spool/patchsvr
Web proxy host name: mars
Web proxy port number: 8080
```

▼ How to Change Configuration Settings for Your Sun Update Connection Proxy (Command Line)

If you want to change the configuration settings of your Sun Update Connection Proxy, you must first stop the proxy. After you change the settings by using the `patchsvr setup` command, you must restart the proxy.

For information about the configuration settings that you can change, see the `patchsvr(1M)` man page.

1 As superuser, log in to the system that you plan to use as your Sun Update Connection Proxy .

2 Stop the proxy.

```
# patchsvr stop
```

3 Change one or more configuration settings, one per command line.

For example, specify a network proxy, *network-proxy-name*, and a port, *port*.

```
# patchsvr setup -x network-proxy-name:port
```

4 Start the proxy.

```
# patchsvr start
```

Example: Changing Configuration Settings for Your Sun Update Connection Proxy

This example shows how to change some configuration settings for your Sun Update Connection Proxy. The Sun Update Connection Proxy communicates with the Internet by using a network proxy. First, you stop the Sun Update Connection Proxy, then specify the host name, `networkproxy1`, and the port number, `2010`, of the network proxy.

Then, you specify the next Sun Update Connection Proxy in the chain. You configure two proxies to serve systems in two buildings. The `psvr1` server obtains updates from the Sun update server. The second server, `psvr2`, obtains updates from `psvr1`. You configure `psvr2` to obtain updates from `psvr1` by specifying the URL to the server, which is `http://psvr1:3816/solaris/`.

```
# patchsvr stop
Shutting down Local Patch Server
# patchsvr setup -x networkproxy1:2010
# patchsvr setup -p http://psvr1:3816/solaris/
# patchsvr start
Starting Local Patch Server
```


Sun Update Connection System Navigation

This chapter describes the user interface for the Sun Update Connection Hosted web application and how to navigate through the interface.

The Summary, Systems, Updates, and Jobs pages provide different ways to view your update information and to manage updates on your systems. You can access these pages by clicking the corresponding tab.

This chapter includes these major sections:

- “Summary Page” on page 97
- “Systems Page” on page 100
- “Updates Page” on page 106
- “Jobs Page” on page 111

Summary Page

The summary page is the page that displays when you log into Sun Update Connection System. The information on this page is a compilation of information available in the other Sun Update Connection System pages.

The navigation from this page and the included information are described in this section.

How To Buy | My Sun | Worldwide Sites Search Go

Sun Connection English dhallest connected ACCOUNT LOG OUT HELP

Sun Update Connection

Summary Systems Updates Jobs

Welcome back, David
Find out whether your systems have checked in with the Sun Update Connection, view the latest updates for your systems and monitor the status of recent jobs.

Systems	
Not Checked-In	0
Total Systems	1
Browse All	

Updates	
Security	1
Critical to keeping your systems secure	
Recommended	0
Sun recommends these updates.	
Feature Update	0
Updates to installed software applications	
Non-Critical	31
Latest release of currently installed updates	
Total Updates	32
Browse All	

Jobs	
Failed	0
Update could not be applied to one or more systems.	
Succeeded	2
Update applied successfully to all systems.	
Total Completed Jobs	2
Total Active Jobs	0
Browse All	

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Systems Table

Each item in this table with a value greater than zero is a link to system information.

- Not Checked-In.** A system checks in with Sun according to the default check-in interval or the one you select. The default check-in interval is two hours. See “[How to Set the Check-In Interval for a System \(Browser Interface\)](#)” on page 78 for details. A system is considered not checked in when more than one scheduled check-in time passes without any contact from the system to Sun.

The alert icon designates a condition considered potentially critical. Systems not checking in with Sun at the scheduled interval can mean a system-down or other condition requiring your attention.

Click the Not Checked-In link to open the Systems page with the Not Checked-In filter setting.

- Total Systems.** The total number of systems which meet these conditions:
 - The system is registered through the Update Manager application for remote update management with Sun Update Connection System.
 - The system is associated with the Sun Online Account used this session.

Click the Total Systems link to open the Systems page with the All Filter setting.

- **Browse All.** Opens the Systems page with the All filter setting. All systems registered through the Update Manager application for remote update management with Sun Update Connection System and associated with the Sun Online Account used this session are included in the systems listing.

Click the Browse All button to open the Systems page with the All Filter setting.

Updates Table

Each row in this table lists an update category and the number of available updates within that category, plus the total number of updates for all categories. Each category with one or more available updates is a link to open the Updates page with the filter set to that category of updates.

- **Update Category.** Each category of updates included in the available updates from Sun is included in the table, and the number of updates in that category available for your registered systems displays with the category.
If the number in the category is one or more, the category name is a link to the Updates page with the filter set to the category name.
- **Total Updates.** The total of the update category numbers. This represents the total number of updates available for all of your registered systems included in this session of Sun Update Connection System.
If the number is one or more, the heading is a link to the Updates page with the filter set to the All.
- **Browse All.** Click this button to open the Updates page with the filter set to All.

Job Table

This table lists the completed job statuses along with the total completed and total active jobs.

- **Failed.** The number of jobs which completed unsuccessfully. If this number is one or more, Failed is a link to open the Jobs page with the filter set to Failed.
- **Succeeded.** The number of jobs which completed successfully. If this number is one or more, Succeeded is a link to open the Jobs page with the filter set to Succeeded.
- **Total Completed.** The total number of non-archived jobs which have the status of failed or succeeded. If this number is one or more, Total Completed is a link to open the Jobs page with the filter set to Completed.
- **Total Active.** The number of current jobs with the status of Pending or In Progress. If this number is one or more, Total Active is a link to open the Jobs page with the filter set to Active.
- **Browse All.** Click this button to open the Jobs page with the filter set to All.

Systems Page

This window includes a list of your managed systems and summarized information about all available updates and jobs for each managed system. The Filter field allows you to view a subset of systems, such as Not Checked-in or Checked-in, or All Systems to browse through the list of all of your managed systems.

The screenshot shows the Sun Update Connection interface. At the top, there is a header with the text "Sun Update Connection" and a navigation bar with tabs for "Summary", "Systems", "Updates", and "Jobs". Below the navigation bar, the "Systems" tab is active, displaying a table of managed systems. The table has columns for "System", "Last Checked-In", "Updates Available", and "Job Status". One system is listed: "swupga-e4500" with a last checked-in date of "16:09, 2005/06/10" and 32 updates available. To the right of the table is a "Jobs Summary" panel showing "Added this Session (1)" and a list of jobs: "119252-02: SunOS 5.10: System Administration Applications Patch" for 1 system. Below this is a summary of "All Jobs (3)": 0 Failed, 2 Succeeded, 0 In Progress, and 1 Pending.

Systems (1 - 1 of 1 results)

View Available Updates | Filter: All (1)

System	Last Checked-In	Updates Available	Job Status
swupga-e4500	16:09, 2005/06/10	32 - 2 - 1	

View Available Updates

Jobs Summary

Added this Session (1)

119252-02: SunOS 5.10:
System Administration
Applications Patch
1 System

All Jobs (3)

Failed	0
Succeeded	2
In Progress	0
Pending	1

View All

The primary function of this screen is to view a system, drill down to the updates for that system, and determine what updates you want to install onto that system. Details of each system, each update, and each job are available by clicking the system name or number of available updates, or by clicking on the number of jobs.

Note – A job is one update to be installed on one or more systems. When you order multiple updates to be installed on one system, each update to be installed generates a job. If you order one update to be installed on multiple systems, that is one job with multiple steps.

The Systems screen is a primary point for managing your Sun systems that are registered for management at the Sun Update Connection System. The window includes several one-click links which transport you to other functions. Buttons to display and apply updates are also included on this window.

There are several Systems windows with multiple features and functions on each. Functions available from each page are detailed in this section.

Systems

The primary Systems page gives you a view of your registered systems with the ability to install one or more updates on any system. Multiple navigation paths are available from this screen.

Note – For details and steps to view your systems, see [“How to View Your Systems \(Browser Interface\)” on page 76](#).

- **View Available Updates button.** Opens the Systems: Available Updates screen lists each selected system (check box checked on the Systems screen) with its available updates.
- **System name.** Click a system name to open the System Detail pop-up window.
- **Job Status number.** Click a digit, greater than zero, to open the Systems screen listing all jobs in the Job Status you selected for the selected system. Navigation from this window includes:
 - **System Name link.** Click the system name to open a System Detail pop-up window.
 - **Cancel Selected Jobs.** After you have selected one or more job check boxes, click the Cancel Selected Jobs button to cancel one or more pending jobs. Jobs with any status other than pending cannot be selected, because they cannot be canceled.
 - **Back to List.** Click to return to the primary Systems screen.
- **Jobs Summary sidebar links.** Some of the data in the Jobs Summary sidebar are links:
 - **Job Status numbers.** Click any number, greater than zero, to open the Jobs page listing all jobs in that status that were created this session.
 - **View All button.** Click View All to open the primary Jobs page.
- **Summary tab.** Click the Summary tab to open the Summary page.
- **Updates tab.** Click the Updates tab to open the primary Updates page listing all available updates for all of your registered systems.
- **Jobs tab.** Click the Jobs tab to open the primary Jobs page listing all non-archived jobs.

Systems – Available Updates

From this screen you can find information about available updates for each of your systems including the type of update, whether an update must be manually installed or requires a reboot of your system, the date the update was released, and the number of dependencies for each update.

Note – For details and steps to view applicable updates for one or more systems, see [“How to View the Applicable Updates for One or More Systems \(Browser Interface\)”](#) on page 77.

You can select the updates for each system to be updated, and click Apply Updates. This creates the one or more jobs and accomplishes the following:

- Checks for any dependencies.
- Displays a confirmation window listing any dependencies.
- Displays a confirmation window listing all queued jobs including those selected on this screen.
- Updates downloaded and queued to be installed at the next check-in for each affected system.

Systems – All Jobs

Access this screen by clicking on a Job Status number for a system and by clicking the History icon in the System Name field. The All Jobs screen displays the jobs for the system you selected. Multiple navigation paths are available from this screen.

- **Job status link.** Opens the Job Detail window.
- **Synopsis link.** Opens the update Detail pop-up. Click Close to close the pop-up.
- **View Installed Updates link.** Opens the Installed Updates window. From this page, you can view all of the updates installed on this system. This page also provides the date each update was installed, the number of dependencies for each update, and how the update was installed. To uninstall updates, select the check box next to the update you wish to uninstall and click Uninstall Selected.
- **View Available Updates link.** Opens the Systems – Available Updates window. This page displays information about available updates for each of your systems including the type of update, whether an update must be manually installed or requires a reboot of your system, the date the update was released, and the number of dependencies for each update. You can find more information about an update by clicking Synopsis or Update ID. To begin applying updates to your systems, select the check boxes next to the update you wish to apply and click Apply Updates.
- **Edit System Settings link.** Opens the Edit Your System Settings window. In this window you can accomplish the following:
 - Edit the name of the system (Common Name)
See [“How to Change a System Name \(Browser Interface\)”](#) on page 78.
 - Change the Check-In Interval for the system
See [“How to Set the Check-In Interval for a System \(Browser Interface\)”](#) on page 78.
 - View the details of this system stored by Sun

- **View Details button.** Opens the Job Details window. From this window you can view the status of recent jobs performed on each system and find information on why a task may have failed. Once a job has either succeeded or failed, you can choose to archive the job, saving it in your history and removing it from this view.
- **Back to List button.** Opens the Systems primary window.
- **Back button.** Returns to the window opened just prior to this window.

Displays a list of all updates ever installed on the systems that you select. This information is retrieved from cache in the selected system.

Systems – Installed Updates

From this page, you can view all the installed updates on this system. This page also provides the date each update was installed, the number of dependencies for each update, and how the update was installed. To uninstall updates, select the check box next to the update you wish to uninstall and click Uninstall Selected. Multiple navigation paths are available from this screen.

- **View All Jobs link.** Opens the System – All Jobs window. See the above explanation for details.
- **View Available Updates link.** Opens the System – Available Updates window. See the above explanation for details.
- **Edit System Settings link.** Opens the Edit System Settings window. See the above explanation for details.
- **Uninstall Selected button.** Opens the Uninstall Dependencies and Confirmation page.
- **Back to List button.** Opens the primary Systems page.

Data Columns

Four function windows are included in the Systems function area of the Sun Update Connection Hosted web application. Each window displays system update and job information differently to give you visibility to all of your systems, their update history, queued jobs, available updates, and more. The data columns in each window are explained in this section, one table per window.

System (Main)

The following lists the columns on the primary Systems screen and a description of the data, any links from the column contents, and how to proceed to managing your updates from this data.

Note – The data on this window can be refreshed with your browser Refresh button. The data remains for the session until a refresh or reload is ordered.

You can use any column that has a pyramid icon in the heading row as the sort key. Many of the fields are links system details.

- **Check boxes.** Each system has a check box to select that system and all its listed updates. The Select All button and the Clear All button enable selection or deselection of all check boxes in the list.
- **System.** Host name of the managed systems as registered in the Update manager application to be managed by the Sun Update Connection Hosted web application.
Link:
 - Click the system name to open a pop-up with system details: system data sent to Sun with the system registration in Update Manager.
 - The icon at the right of this column opens the job history window for the system.
- **Last Checked-in.** The date stamp when the system last connected to Sun through the Sun Update Connection System. You can customize the Check-in preferences for each system in the System screen by selecting a system and clicking the Edit System Preferences button above the list of systems.
 - Time and date are displayed for a system that checked in today.
 - Date only is displayed for a system that checked in prior to today.
 - Not checked in indicates the system has missed one or more consecutive check-in cycles.
The Alert icon to the left of the Last Check-In time stamp indicates the system is in a not checked in status; the system has failed to check in for one or more scheduled check-in times.
- **Available Updates.** The number of updates detected by the Update Manager analysis engine for the system.
Link:
The number is a link to open a window listing the updates included in the displayed count. Click the number to open the window of Available Updates for the system.
- **Job Status: Pending.** The number of jobs currently in the pending status. A job is pending when it is waiting for a system to check in so the update can be downloaded from Sun to the system. Once the job is initiated, the status changes from pending to in progress. Only pending jobs can be cancelled.
Link:
 - The number is a link to view the details of the jobs which make up the count.
 - The System: All Jobs opens with the Filter of Pending applied so that only pending jobs display.
The Jobs Summary window provides additional information about jobs just created (this session), and the breakdown of jobs into the four states.
- **Job Status: In Progress.** The number of jobs currently in the In Progress state. A job to install an update which requires a reboot is In Progress once the update is downloaded to the system. It remains In Progress until the next system reboot, when the update is installed and activated. In Progress jobs cannot be cancelled.

Note – The status of an update awaiting reboot continues in the In Progress state even after the reboot and successful or failed installation. You can archive the update to remove it from the active update lists and numbers.

Link:

- The number is a link to view the details of the jobs which make up the count.
- The System: All Jobs opens with the Filter of In Progress applied so only In Progress jobs display.
- The details of the jobs include the stage in the execution of the job where each job is positioned. These details might help you determine whether a manual intervention is required.
- **Job Status: Succeeded.** The number of jobs which have completed successfully. This is one of two states which make up the Completed state: Succeeded and Failed are both considered completed.

Link:

- The number is a link to view the details of the jobs which make up the count.
- The System: All Jobs opens with the Filter of Succeeded applied so that only Succeeded jobs display.
- **Job Status: Failed.** The number of jobs which have failed to complete successfully. The details of the jobs include the log entries which can track the instance and cause of the failed job. A failed job cannot be restarted. To try again, create a new job.

Link:

- The number is a link to view the details of the jobs which make up the count.
- The System: All Jobs opens with the Filter of Failed applied so only Failed jobs display.
- The details of the jobs include the stage in the execution of the job where each job is positioned. These details might help you determine whether a manual intervention is required.

Systems: Available Updates

The heading row includes fields and links. The following lists all fields on the screen along with a description of each field, including any link and its destination.

- **Check boxes.** Each system includes a check box for selecting the system and all its updates.
- **System Name.** Host name of the managed systems as registered in the Update manager application to be managed by the Sun Update Connection Hosted web application.

Link:

- Click the system name to open a pop-up with system details: system data sent to Sun with the system registration in Update Manager.
- The icon at the right of this column opens the job history window for the system.

- **Next Check-in.** The date and time of the next scheduled check-in for the system. Check-in frequency can be modified in the System Settings (System: All Jobs: Edit System Settings button).

The body row includes a check box and links. The following lists all fields on the screen along with a description of each field, including any link and its destination.

- **Check boxes.** Each update has a check box for selecting that update.
- **Update ID.** Unique ID assigned by Sun to the update. Click the ID to open the Update detail pop-up.
- **Synopsis.** A brief description of the update. Click the synopsis to open the Update detail pop-up.
- **Release Date.** The date Sun released the update for customer installation.
- **Dependencies.** The number of other updates that must be installed prior to the installation of the listed update. Click the number to open a pop-up listing the IDs, synopses, and details of the dependencies.

Updates Page

Click the Updates tab to view a list of all available updates for all of your managed systems.

The Updates page is a primary point for managing Sun updates for your systems that are registered for management with the Sun Update Connection Hosted web application. The page includes several one-click links which transport you to other functions. Buttons to display and apply updates are also included on this page.

The screenshot displays the Sun Update Connection web interface. At the top, there's a header with 'Sun Connection', a language dropdown set to 'English', and user information 'dhalitest connected' with 'ACCOUNT', 'LOG OUT', and 'HELP' links. Below the header is a navigation bar with tabs for 'Summary', 'Systems', 'Updates', and 'Jobs'. The 'Updates' tab is active.

The main content area is titled 'Updates' and includes a sub-header 'Updates Available (1 - 25 of 32 results)'. Below this is a filter section with 'View Systems Affected' and a dropdown menu set to 'All (32)'. The primary feature is a table listing updates with columns for 'Update ID', 'Synopsis', 'Type', 'Systems Affected', and 'Release Date'. The table contains 25 rows of update information, such as 'liblgrp Patch', 'M64 Graphics Patch', and 'System Administration Applications Patch'.

On the right side, there is a 'Jobs Summary' sidebar. It shows 'Added this Session (1)' with a list of jobs, including '119252-02: SunOS 5.10: System Administration Applications Patch 1 System'. Below this is a section for 'All Jobs (3)' with a summary: 0 Failed, 2 Succeeded, 0 In Progress, and 1 Pending. A 'View All' button is located at the bottom of the sidebar.

There are several Updates windows with multiple features and functions on each. Each window is detailed in this section.

Updates

The primary Updates page gives you a view of all available updates and the number of your registered systems affected by each update. From this page, you can view all the different types of updates available for your systems by ID, name, type, how many systems would be affected, and the date that the update was released.

Multiple navigation paths are available from this window.

- View Systems Affected button.** Opens the Updates – Systems Affected window that lists each update along with each system that update affects.

- **Update ID link.** Opens the README for the update in a pop-up window. Click Close to close the pop-up.
- **Synopsis link.** Opens the README for the update in a pop-up window. Click Close to close the pop-up.
- **Summary tab.** Click the Summary tab to open the Summary page. See [“Summary Page” on page 97.](#)
- **Systems tab.** Click the Systems tab to open the primary Systems page listing all of your registered systems. See [“Systems Table” on page 98.](#)
- **Jobs tab.** Click the Jobs tab to open the primary Jobs page listing all non-archived jobs.

Updates – Systems Affected

From this page, you can view each update and the systems that update will affect. You can also view the status of your systems, the dependencies for each update, and the version of the update currently installed on each system. To begin applying updates to your systems, select the check boxes next to the updates you wish to apply and click Apply Updates.

Multiple navigation paths are available from this window.

- **Apply Updates button.** Directs Sun Update Connection System to create a job which completes the following actions:
 - Checks for any dependencies.
 - Displays a confirmation window of the list of any dependencies.
 - Displays a confirmation window listing all queued jobs including those selected on this screen.
[See “How to Install Dependent Updates With Selected Updates \(Browser Interface\)” on page 81.](#)
- **Back to List.** Opens the primary Updates page.

Dependencies and Confirmation

Opens page when a selected update requires the installation of one or more updates, which you did not select, to install successfully. The window header is:

host-name:update-ID Dependencies

The text explains the dependencies.

- Click Install All Above Updates to proceed with the update installation, including the dependencies.
- Closes this window, then opens a Confirmation of Jobs Scheduled window listing the created jobs to install the updates.

Confirmation of Jobs Scheduled to Install Updates

Confirms that you have successfully scheduled a number of jobs. You can print this page for your records using your browser's Print option. You can cancel scheduled updates by going to your Job List. You can continue queuing new updates from either the Systems main page or the Updates main page.

Navigation from this page is with the Summary, Systems, or Jobs tab, plus the Back to List button.

Data Columns

Two major function windows are included in the Updates function area of the Sun Update Connection Hosted web application. Each window displays system update and job information differently to give you visibility to all available updates for your systems. The data columns in each window are explained in this section, one table per window.

Updates

The following lists the columns on the primary Updates screen along with a description of the data, any links from the column contents, and how to proceed to managing your updates from this data.

Note – The data on this window can be refreshed with your browser Refresh button. The data remains for the session until a refresh or reload is ordered.

You can sort on any column that has a pyramid icon in the heading row of the column. Most of the data are links.

- **Check boxes.** Each update has a check box to select that update.
The Select All button and the Clear All button enable selection or deselection of all check boxes in the list.
- **Update ID.** The unique ID assigned by Sun to the update.
- **Synopsis.** Brief descriptive text identifier of the update.
Link:
 - Click the synopsis to open a pop-up with update details.
 - The icon at the right of the synopsis indicates if the update requires a reboot for installation or if it requires manual intervention for installation. If no icon displays for the update, the update can be installed on the systems selected on the next window when each checks-in next.
- **Type.** The category of update. The choices of type include:
 - Security
 - Recommended
 - Non-critical

- Feature
- **Systems Affected.** The number of systems for which this update is appropriate as detected by the Update Manager analysis engine.
Link:
Click the number to open the window labelled Updates: Systems Affected.
- **Release Date.** The date on which the listed update was released by Sun.
This field is not a link.

Updates: Systems Affected

The heading row includes fields and links. The following lists all fields on the screen along with a description of each field, including any link and its destination.

- **Check boxes.** Each update has a check box. Checking that box selects the update and all systems for which that update is appropriate.
- **Update ID: Synopsis.** Unique ID assigned by Sun to the update. Click the ID to open the Update detail pop-up followed by a brief description of the update. Click the synopsis to open the Update detail pop-up.

Each body row has a selection check box and links. The following lists all fields on the screen along with a description of each field, including any link and its destination.

- **Check boxes.** Each system has a check box to select system for installation of the listed update on that registered system.
- **System Status.** The status of the listed system. The status choices are checked-in or not checked-in. A system is considered not checked-in when it fails to contact Sun three check-in intervals in a row.
- **System Name.** Host name of the managed systems as registered in the Update Manager application to be managed by the Sun Update Connection Hosted web application.
- **Dependencies.** The number of other updates that must be installed prior to the installation of the listed update. Click the number to open a pop-up listing the IDs, synopses, and details of the dependencies.
- **Installed Version.** The Update ID and the version currently detected as installed on the indicated system.

The Dependencies window series is the same as for Systems.

Jobs Page

From this page, you can view the jobs queued for each of your systems, including the status of updates, how many systems are affected, and the date the job was scheduled or completed. You can view update details including dependencies and any problems encountered by clicking the Update ID or Synopsis. You can view the job details by selecting the check boxes for each job you wish to view and then clicking View Selected.

Jobs

View the jobs queued for each of your systems including the status of updates, how many systems are affected and the date the job was scheduled or completed. You can view update details including dependencies and any problems encountered by clicking on the "Update ID" or "Synopsis." You can view the job details by selecting the check boxes for each job you wish to view and then clicking "View Selected."

Jobs (1 - 3 of 3 results)

<input type="checkbox"/>	Job Status	Update ID	Synopsis	Systems Affected	Time/Date
<input checked="" type="checkbox"/>	Succeeded	119317-01	SunOS 5.10: SVr4 Packaging Commands (usr) Patch	1	00:10, 2005/06/08
<input checked="" type="checkbox"/>	Succeeded	119015-03	WITHDRAWN PATCH SunOS 5.10: Packaging Commands Patch	1	00:10, 2005/06/08
<input type="checkbox"/>	Pending	119252-02	SunOS 5.10: System Administration Applications Patch	1	17:28, 2005/06/10

Jobs Summary

Added this Session (1)

119252-02: SunOS 5.10: System Administration Applications Patch
1 System

All Jobs (3)

Failed	0
Succeeded	2
In Progress	0
Pending	1

When you click the Job tab, you display a list of all current jobs created and queued for your registered systems. From this window you can view and manage the jobs. You can perform the following jobs from the main Job window:

- View a list of all current jobs
- Archive completed jobs
- Click a job to see the job details
- Select several jobs by checking the check boxes to view details of the jobs
- Click the number in the Systems Affected column to view details of the systems included in the job

- Click the Update ID to view a pop-up of the update README
- Sort by any data column
- Select one or more Pending jobs, click the View Selected, open the Job Detail window, and cancel one or more Pending jobs

Multiple navigation paths are available from this page.

- **View Selected button.** Opens the Jobs Detail page. From this page, you can view the status of recent jobs performed on each system along with information on why a job may have failed. Once a job has either succeeded or failed, you can choose to archive the job, saving it in your history and removing it from this view. You cannot archive a job that is Pending or In Progress. You can view your archived jobs by going to the Archived JobList.
- **Archive Selected button.** Opens the Archived Job Detail window. Each selected job is listed in a group format: Job ID header with Status for the job on each affected system.
 - Only completed jobs can be archived.
 - Completed jobs are Failed and Succeeded jobs
- **Job Status link.** Opens the Job Details page. From this page, you can view the status of recent jobs performed on each system along with information on why a job may have failed.
- **Update ID link.** Opens the README for the update in a pop-up window. Click Close to close the pop-up.
- **Synopsis link.** Opens the README for the update in a pop-up window. Click Close to close the pop-up.
- **System Affected link.** Opens the Jobs Details page. From this page, you can view the status of recent jobs performed on each system along with information on why a job may have failed.

Data Columns

The Jobs windows include the following:

- Jobs
- Job Detail
- Archived Job Detail
- Confirmation of Jobs Scheduled

Each window displays Job information differently to give you visibility to all available jobs, updates, and systems affected. The data columns in each window are explained in this section, one table per window.

Jobs

The following columns on the primary Jobs screen are listed along with a description of the data, any links from the column contents, and how to proceed to managing your jobs from this data.

Note – The data on this window can be refreshed with your browser Refresh button. The data remains for the session until a refresh or reload is ordered.

You can sort on any column that has a pyramid icon in the heading row of the column. Most of the data are links.

- **Check boxes.** Each update has a check box to select that update.
The Select All button and the Clear All button enable selection or deselection of all check boxes in the list.
- **Job Status.** The current status of the job.
 - Pending – queued job to be performed when affected system checks in next or the system is rebooted
 - In Progress – performed job not yet completed
 - Failed – completed job that did not complete successfully
 - Succeeded – completed job that completed successfully
- **Update ID.** The unique ID assigned by Sun to the update.
- **Synopsis.** Brief descriptive text identifier of the update.
Link:
 - Click the synopsis to open a pop-up with update details.
 - The icon at the right of the synopsis indicates if the update requires a reboot for installation, or if it requires manual intervention for installation. If no icon displays for the update, the update can be installed on the systems selected on the next window when each checks in next.
- **Systems Affected.** The number of systems for which this update is appropriate as detected by the Update Manager analysis engine.
Link:
Click the number to open the window labelled Updates: Systems Affected.
- **Date/Time.** The date and time the listed job was last processed: reached its current status.
This field is not a link.

Jobs Detail

The following columns on the Jobs Detail window are listed along with a description of the data, any links from the column contents, and how to proceed to managing your jobs from this data.

Note – The data on this window can be refreshed with your browser Refresh button. The data remains for the session until a refresh or reload is ordered.

You can sort on any column that has a pyramid icon in the heading row of the column. Most of the data are links.

- **Check boxes.** Each update has a check box to select that update.

The Select All button and the Clear All button enable selection or deselection of all check boxes in the list.

- **Job Status.** The current status of the job.
 - Pending – queued job to be performed when affected system checks in next or the system is rebooted
 - In Progress – performed job not yet completed
 - Failed – completed job that did not complete successfully
 - Succeeded – completed job that completed successfully
- **System Name.** Common name of the system where the job is being or is to be performed.
- **Comments.** Text explaining why the job either failed or succeeded.
- **Date/Time.** The date and time the listed job was last processed to reach its current status.
This field is not a link.

Archived Job Detail

The following columns on the Archived Jobs Detail window are listed along with a description of the data, any links from the column contents, and how to proceed to managing your jobs from this data.

Note – The data on this window can be refreshed with your browser Refresh button. The data remains for the session until a refresh or reload is ordered.

You can sort on any column that has a pyramid icon in the heading row of the column. Most of the data are links.

- **Archived Job Status.** The current status of the archive job.
 - Pending – queued job to be performed when affected system checks in next
 - In Progress – performed job not yet completed
 - Failed – completed job that did not complete successfully
 - Succeeded – completed job that completed successfully
- **System Name.** Common name of the system where the job is being or is to be performed.
- **Comments.** Text explaining why the archive job either failed or succeeded.
- **Date/Time.** The date and time the listed job was last processed to reach its current status.
This field is not a link.

Glossary

The following terms are used throughout this book.

analyze	To check a system to determine the list of updates that are appropriate for this system. Update Manager uses analysis modules and a list of available updates from the Sun update server to generate a list of updates for your Solaris system.
apply	To install an update on a system.
back out	To remove an update from a system.
backout data	Data that is created when an update is applied to enable the system to return to its previous state if the update is removed (<i>backed out</i>).
backout directory	Directory in which backout data is stored. By default, this is the save directory of each package that was installed by the update.
caching	The ability of a server in a chain of update servers to store an update that has been downloaded to it from another server.
check in	When a system connects to the Sun Update Connection System web site to run queued jobs, which install and uninstall updates.
dependency	See <i>update dependency</i> .
digital signature	An electronic signature that can be used to ensure that a document, such as an update, has not been modified since the signature was applied.
download	To copy one or more updates from a source of updates, such as a Sun Update Connection System Proxy or the Sun update server, to the system where the updates are to be applied.
download directory	Directory in which updates are stored when they are downloaded from the update source. This is also the directory from which updates are applied. The default location is <code>/var/sadm/spool</code> .
feature update	An update that introduces a new feature to the system.

job	An update-management activity that runs on one or more of the systems that you manage by using the Sun Update Connection Hosted web application.
keystore	A repository of certificates and keys that is queried when you attempt to apply a signed update.
local mode	A mode available for the <code>smpatch</code> command, which can only be run on the local system. This mode can be used to apply updates while the system is either in single-user mode or in multiuser mode.
local patch server	See <i>Sun Update Connection System Proxy</i> .
network proxy	A system that is used to connect your system to the Internet. Your system cannot connect directly to the Internet, but must use the network proxy to establish the connection. Also called <i>web proxy</i> .
order	To sort a set of updates in an order suitable for applying updates.
package	The form in which software products are delivered for installation on a system. The package contains a collection of files and directories in a defined format.
patch	See <i>update</i> .
PatchPro	A product developed by Sun Network Storage to provide automated update management technology, which is used by Sun Update Manager.
policy for applying updates	A user-configurable policy that specifies the types of updates that can be applied during an update of your system.
register	To enroll your Solaris system to use the Sun Update Manager software.
remote mode	A mode available for the <code>smpatch</code> command, which can be run on a local system to update another system with updates. This mode can only be used while the system is in multiuser mode.
resolve	To determine the update dependencies required for a list of updates. Each update in the list is checked to determine whether any other updates must be added to the list. If any updates are required, they are added to the ordered update list.
signed update	An update that is signed with a valid digital signature. A signed update offers greater security than an unsigned update. The digital signature of the update can be verified before the update is applied to your system. A valid digital signature ensures that the signed update has not been modified since the signature was applied. Signed updates are stored in Java Archive (JAR) format files.
subscription key	A value that you use when registering your Solaris system with Sun Update Manager. This key gives you access to non-security updates and to the Sun Update Connection Hosted web application.
Sun Online Account	The account that you need to register your systems to use Sun Update Manager and to log in to the Sun Update Connection System web site, where you can manage updates on your systems.

Sun Update Connection Hosted Proxy	A system on your intranet that provides access to update data. This proxy can be used instead of the Sun update server. This proxy caches updates that are downloaded from its update source. Also called <i>local patch server</i> .
Sun Update Connection Hosted web application	A web application hosted on a Sun web site that enables you to remotely manage updates on one or more of your Solaris systems.
unsigned update	An update that is not signed with a digital signature.
update	<p>(n.) A change to software that you apply that corrects an existing problem or that introduces a feature.</p> <p>(v.) To perform the steps necessary to apply updates to a system. The system is analyzed, and the updates are downloaded and then applied.</p> <p>Also called <i>patch</i>.</p>
update analysis	A method of checking a system to determine which updates are appropriate for the system.
update dependency	An instance where an update depends on the existence of another update on a system. An update that depends on one or more updates can only be applied to a system when those other updates have already been applied.
update ID	A unique alphanumeric string, with the update base code first, a hyphen, and a number that represents the update revision number.
update incompatibility	A rare situation where two updates cannot be on the same system. Each update in the relationship is incompatible with the other. If you want to apply an update that is incompatible with an update already on the system, you must first remove the update that is already on the system. Then, you can apply the new update.
update list	<p>A file that contains a list of updates, one update ID per line. Such a list can be used to perform update operations. The list can be generated based on the analysis of a system or on user input.</p> <p>Each line in an update list has two columns. The first column is the update ID, and the second column is a synopsis of that update.</p>
update management process	A process that involves analyzing a system to determine the appropriate updates, downloading the updates to that system, and applying the updates. Another part of the update management process is the optional removal of updates.
update obsolescence	An instance where an update replaces another update, even if it has not already been applied to a system. An update that obsoletes one or more updates replaces those updates entirely and does not require that the obsolete updates be applied before the replacement update is applied.

- update server** A source of Solaris updates that can be used by your systems to perform update analyses and from which to obtain the appropriate updates. The update server can be the Sun update server, or it can be a server on your intranet, called the *Sun Update Connection Proxy*.
- web proxy** See *network proxy*.

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