

Sun Secure Global Desktop 4.4 User Guide

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Contents

Preface vii

Using Sun Secure Global Desktop 1 Logging In 1 User Names and Passwords 1 ▼ How to Log In to SGD 2 Potentially Unsafe Connection Message 5 ▼ How To Deal With a Potentially Unsafe Connection Message 6 The SGD Webtop 6 Menu Bar 7 Applications Area 8 Printing Area 8 Information Area 8 Using Applications 10 Running Applications Suspending and Resuming Applications 11 Changing the Way an Application is Displayed 14 Copying Information Between Applications 14 Running Applications Using a Different User Name and Password 15 Using a Single-Button Apple Macintosh Mouse 15

Printing 15

Managing Your Print Jobs 16

Printing From UNIX Platform Applications 17

Printing From Windows Applications 18

PDF Printing 19

Printing Troubleshooting 21

Changing Your Settings 21

Client Settings 22

Application Groups 22

▼ How To Create a Group 23

Using SGD From Your Desktop Start or Launch Menu 24

▼ How to Add SGD to Your Desktop Start or Launch Menu 25

Working With the Start or Launch Menu 25

Logging Out 27

Logging Out of the SGD Webtop 27

Logging Out Using the Start or Launch Menu 28

A. Installing the SGD Client Manually 29

Installing the SGD Client 29

- ▼ How to Install the SGD Client Manually on Microsoft Windows Platforms 29
- ▼ How to Install the SGD Client Manually on Solaris OS and Linux Platforms 31

Logging In Using the SGD Client 32

▼ How to Configure the SGD Client 32

B. Advanced Configuration 35

Advanced Configuration 35

Client Settings 35

Changing the Login URL 36

Changing the Language 36
Changing Proxy Settings 36
Specifying an Alternative PDF Viewer 36
Printing 36
Configuring Your Client Printers 37
Accessing the Drives on Your Computer 37

C. Client Profile Settings 39

Description of Client Profile Settings 39

Configuring Integrated Mode Operation 41

Glossary 43

Index 47

Preface

The Sun Secure Global Desktop 4.4 User Guide provides an introduction to using Sun Secure Global Desktop software (SGD). The manual provides information on how you can use SGD to run applications. This document is intended for both new and existing users of SGD.

How This Book Is Organized

Chapter 1 describes how to use SGD to run applications from your client device.

Appendix A describes how to install the SGD Client manually on your computer.

Appendix B discusses configuration settings for advanced users of SGD.

Appendix C describes the available client profile settings.

Glossary is a list of words and phrases and their definitions.

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- Documentation (http://www.sun.com/documentation)
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Using Sun Secure Global Desktop

Sun Secure Global Desktop software (SGD) provides you with secure, remote access to desktop applications running on application servers.

You can be writing a report on a computer in the office, administering $UNIX^{\circledR}$ platform servers on your PC at home, or checking stock databases with a laptop on the train, SGD enables you do all this.

SGD also enables you to run applications over a secure network connection to safeguard corporate and private data.

With SGD, you access all the applications that you can run from a single place, the webtop.

To access a webtop, all you need is a web browser with Java™ technology enabled.

This manual guides you through the basics of using SGD. It describes how to log in and log out of the software, as well as how you can use SGD to run applications.

Logging In

This section describes how to log in to SGD and display the SGD webtop.

User Names and Passwords

When you use SGD, you need to know your user name and password for the following servers:

- The SGD server
- The application servers that run your applications

The following table describes the user names and passwords you might require when using SGD.

User Name and Password	Description
SGD server	When you log in to SGD, you need to type a user name and password so that the SGD server knows who you are and can display your webtop. You do not need to type this password again until the next time you log in to SGD.
	You might also be able to log in to SGD anonymously, that is, without typing a user name and password.
Application servers	When you start an application, you might need to supply a password for the application server that runs it. The SGD server can remember these passwords, so you do not need to type them every time. Use the Save This Password option, if available, when you type your user name and password.
	If you want to use a different user name and password to run an application, you can force SGD to prompt you.

▼ How to Log In to SGD

Before you log in to SGD, ensure that the following requirements are met:

- JavaScript is enabled on your web browser
- Java technology is enabled on your web browser

Note – If Java technology is not enabled for your web browser, you can download the SGD Client program to your computer. See "Installing the SGD Client" on page 29 for more details.

- You have a user name and password for the SGD server. Contact your SGD Administrator if you do not know your user name and password.
- You know the login URL for the SGD server. Contact your SGD Administrator if you do not know the URL for the SGD login page.
- 1. Using your web browser, go to the SGD login URL.

The SGD login URL is usually http://server.example.com/sgd, where server.example.com is the name of the SGD server.

Note – If Java technology is not enabled on your web browser, a warning message is shown. You must enable Java technology on your browser before proceeding.

The SGD Login dialog box is shown.

FIGURE 1-1 SGD Login Dialog Box



Note – If JavaScript is not enabled on your web browser, a warning message is displayed beneath the login dialog box.

- 2. Type in your SGD user name and password.
- 3. Click the Login button.

While SGD is starting up, the splash screen is shown.

FIGURE 1-2 SGD Splash Screen



The Initial Connection dialog box is shown. This is a security message that is shown the first time you connect to an SGD server.

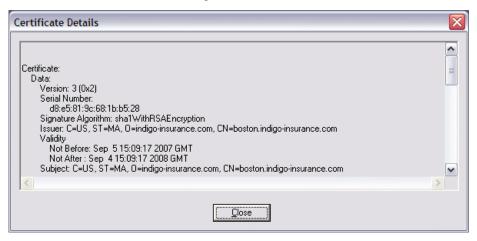
FIGURE 1-3 Initial Connection Dialog Box



4. (Optional) Click the View Certificate button.

The Certificate Details dialog box is shown. This screen enables you to view security certificate details, to ensure that the server you are connecting to can be trusted.

FIGURE 1-4 Certificate Details Dialog Box



- a. Check that the Validity and Subject fields are correct.
- b. Click Close.

The Initial Connection dialog box is redisplayed.

5. If the certificate details are correct, click Yes to agree to the connection.

Once you have clicked Yes, you do not see the security message again unless there is a problem with the connection.

The SGD Client icon is displayed in the task bar.

FIGURE 1-5 SGD Client Task Bar Icon



The SGD webtop is displayed. See FIGURE 1-7.

You can also log in to SGD from a link in your desktop Start or Launch Menu. For details of how to configure your computer to enable log in from the Start or Launch Menu see "Using SGD From Your Desktop Start or Launch Menu" on page 24.

Potentially Unsafe Connection Message

If there is a security problem with the connection to the SGD server, a Potentially Unsafe Connection message is displayed.

FIGURE 1-6 Potentially Unsafe Connection Message



If you see a Potentially Unsafe Connection message, do the following.

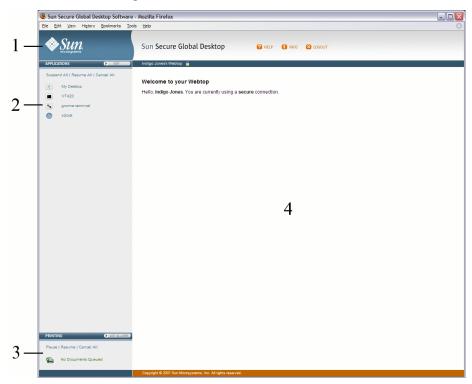
- ▼ How To Deal With a Potentially Unsafe Connection Message
 - 1. Click the View Certificate button and make a note of the certificate details.
 - 2. Click the Reject button to cancel the connection and contact your SGD Administrator.

The SGD Webtop

Your webtop is a special web page that lists the applications you can run through SGD and enables you to run them. When you use a browser to display a webtop, you are using SGD in Webtop mode.

The following graphic shows the different areas of the webtop.

FIGURE 1-7 SGD Webtop



#	Name	Description	
1	Menu bar	Includes log out, help and diagnostics buttons.	
2	Applications area	Lists the applications that you can run.	
3	Printing area	Enables you to manage your print jobs.	
4	Information area	Displays error messages and system information.	

The different areas of the webtop are described in the following sections.

Menu Bar

This area of the webtop includes buttons for logging out and for displaying help and diagnostics information.

See "Logging Out" on page 27 for more information about logging out of SGD.

Displaying Diagnostics Information

If you are using a web browser to log in to SGD, you can display a page containing information useful for Support.

Click the Info button on your webtop and then click the Detailed Diagnostics link in the Information area.

Applications Area

The Applications area of the webtop is used to display the list of applications that you can run through SGD.

See "Using Applications" on page 10 for more information about running applications.

Only an SGD Administrator can add an application to, or remove an application from, the list of applications that you can run. If you want more applications, contact an Administrator. However, you can choose how and when your applications display on your webtop. You do this by creating webtop groups. See "Application Groups" on page 22.

Printing Area

The Printing area of the webtop includes links that enable you to list and control your print jobs.

See "Printing" on page 15 for more information about printing.

Information Area

The Information area is used to display error messages and system information. The information displayed includes the following:

- User name
- Secure connection status
- SGD Client icon

User Name

Your SGD user name is displayed on the webtop toolbar (next to the padlock symbol).

FIGURE 1-8 User Name Displayed on the Webtop Toolbar



If the toolbar says you are logged in as "Guest user" then you either logged in without typing a user name and password (anonymous login) or you are using a webtop that is shared with other users.

These details also display on the webtop when you first log in.

Secure Connection Status

If you have a secure connection, the locked padlock symbol is displayed below the webtop menu bar. Also, when you first log in, the page that is displayed on the webtop tells you whether you have a secure or a standard connection.

Secure connections to SGD are available only if an SGD Administrator has enabled them.

You might not automatically receive a secure connection, or you might only get a secure connection under certain circumstances. Contact your SGD Administrator if you do not get a secure connection when you need one.

SGD Client Icon

Every time you log in to SGD, the SGD Client program runs on your client device. This is indicated by the client icon which is shown in the taskbar.



Using Applications

Use the Applications area of the webtop to start, stop and manage your applications.

Running Applications

To start an application, you click its link on your webtop. In a few moments the application is shown, ready for you to use.

FIGURE 1-10 Webtop Link for Running an Application



XClaim

When you start an application, you might be asked for a user name and password. This is your user name and password for the application server that runs the application.

You do not have to exit an application before starting another. Just click another link.

SGD Administrators configure how the applications display.

Note – You cannot start a Windows application using a different Windows domain name. Ask an SGD Administrator to do this for you.

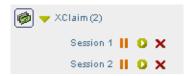
If you have difficulties, contact your SGD Administrator.

SGD also enables you to run your applications using links in the desktop Start or Launch Menu. See "Using SGD From Your Desktop Start or Launch Menu" on page 24 for more details.

Number of Instances of an Application

When an application is running, a triangle appears in front of the application's name on the webtop and a number appears in brackets after it. The session toolbar also appears below the application name. The session toolbar is used to suspend, resume or end an application.

FIGURE 1-11 Webtop Link When the Application is Running



The number in brackets is the number of separate instances of the application that you have started. SGD Administrators configure how many instances of an application you can start. To find out how many instances of an application you are allowed, point to its link on the webtop. The popup that is displayed states the number of sessions allowed.

See "Suspending and Resuming Applications" on page 11 for more details.

What If I Get an Error Message When Starting an Application?

If an error message is shown when you click a link to start an application, try one of the following:

- Make sure you supplied the correct user name and password for the application server. If SGD does not prompt you for this information, hold down the Shift key and click the link to force the prompt to appear.
- Log out of SGD and exit your web browser, then restart it and log in to SGD again. Click the application's link.
- Use SGD from a different client device.
- Contact an SGD Administrator, supplying all the information shown in the error message.

Suspending and Resuming Applications

Some applications can be configured to keep running, even when they are not displayed. These are "resumable" applications.

To close an application's window without ending the application, you *suspend* the application. To display the window again and start using the application, you *resume* the application.

As an application is still running even though it is not displayed, you could start writing an urgent report in the office and then log out of SGD at the end of the day (the application is suspended). When you get home, you could log in to SGD again, resume the application and carry on writing the report.

Suspending and resuming applications is done using the session toolbars on the webtop.

Session Toolbars for Controlling an Application

There is a separate session toolbar for each running instance of the application:

- Click II to suspend an application
- Click to resume an application
- Click X to end an application

Click the triangle to hide and show the session toolbars for the application sessions.

FIGURE 1-12 Session Toolbar when Hidden



You can manage all your application sessions at once, using the following links at the top of the Applications area:

- Click the Suspend All link to suspend all running applications.
- Click the Resume All link to resume all suspended applications.
- Click the Cancel All link to end all running or suspended applications.

FIGURE 1-13 Links for Managing All Application Sessions



Resumability Settings for Applications

To see if an application is resumable or not, point to its link on your webtop and look at the popup window that is displayed.

The available resumability settings for an application are described in the following table.

Resumability Settings	Description
Not Resumable	This application exits when you log out of SGD. You cannot suspend or resume non-resumable applications.
	Note - Non-resumable applications only have a Cancel button in the session toolbar.
Resumable Until Log Out	This application continues running until you log out of SGD. While you are logged in, you can suspend and resume these applications.
Always Resumable	This application continues running even after you have logged out of SGD. When you log in again, click the Resume button to display the running application again.

Note – If you log in to SGD without typing a user name and password, resumable applications are only resumable until you log out.

Do I Lose My Work If I Close My Web Browser?

No, you do not lose any work if you accidentally close your web browser (without logging out) or if your web browser crashes. You can restart your web browser and log in to SGD to display your webtop.

However, if the SGD Client exits unexpectedly, or if you close down the SGD Client, your ability to resume an application depends upon how your SGD Administrator configured the application and how you logged in to SGD.

- If an application is configured to be "Not Resumable", then it exits when the SGD Client exits or is closed down. Typically, applications are configured to be Not Resumable if they are used only for short periods at a time, and not for business-critical functions.
- Applications configured to be "Always Resumable", or "Resumable Until Log Out", continue to run for a period of time after an SGD Client exits or is closed down. Simply restart your browser, log in to SGD again and resume the applications that are still running.
- If you logged in to SGD anonymously (you did not supply a user name and password) or you are using a shared webtop (where more than one person logs in using the same user name and password, see "User Name" on page 9), then your applications exit if the SGD Client exits or is closed down. In both cases, the

reason for this is that SGD cannot tell when you log in to SGD again that you are the same user as before, because you are not using a unique user name and password.

Changing the Way an Application is Displayed

Your SGD Administrator defines how an application is displayed on your desktop. For example, if the application is displayed full-screen or in a desktop window.

A graphical application that is displayed in a desktop window can be scaled to fit the size of the window. If you resize the window, SGD rescales the application to fit the new window size, without displaying any scroll bars.

You can switch the application between being scaled and not being scaled by pressing the Scroll Lock key.

To see if an application is displayed in a scalable window, point to its link on your webtop and look at the popup that is shown (or look in the status bar at the bottom of the window).

Copying Information Between Applications

For *Windows applications and X applications*, use the normal method for the application you are copying from, and then the usual method for the application you are pasting to. You might not be allowed to copy and paste information from particular applications. This is configured by your SGD Administrator. If you are not allowed to copy and paste between an application, the following message is pasted instead of the information you copied:

Sun Secure Global Desktop Software: Copied data not available to this application

For *character applications*, click with the right mouse button, and then click Copy or Paste as appropriate. To select a column of text, hold down the Shift key while selecting the text.

You can copy information between different types of application, for example from an xterm running on an application server to a text editor running on your client device.

You can only copy and paste *graphics* to or from Microsoft Windows 2000 and Windows 2003 applications.

Running Applications Using a Different User Name and Password

To force SGD to prompt you for a user name and password when you start an application, hold down the Shift key when you click the application's link on your webtop.

Forcing SGD to prompt you for a user name and password in this way means that SGD does not use any user name and password that has already been saved for the application server. This is useful if you want to run an application as another user.

If the Save This Password check box is selected, the new user name and password are saved, replacing any previously saved user name and password for you on this application server. This user name and password is used for any other applications you run on this application server.

Holding down the Shift key has no effect in the following cases:

- When you are logged in to SGD anonymously, or as a shared user.
- When the link for starting an application is in your desktop Start or Launch Menu. The Shift key prompt only works for links on a webtop.

Using a Single-Button Apple Macintosh Mouse

Many Microsoft Windows and X applications make use of a middle mouse button or a right mouse button. To use these applications from an Apple Macintosh mouse with one button, click the button while holding down one of the following keys on the keyboard:

- To simulate a *middle* mouse button click, press Alt while clicking the mouse button
- To simulate a *right* mouse button click, press Command while clicking the mouse button

Printing

SGD enables you to print from your applications to your client device's printer.

If you are printing from an application running on a Microsoft Windows 2000, Windows 2003, or a UNIX platform application server, you can choose a printer you print to. For all other types of application server, you can only print to your default printer.

Managing Your Print Jobs

You use the Printing area of the webtop to manage your print jobs. The Printing area shows the number of jobs currently in the print queue and includes controls for managing your print jobs.

FIGURE 1-14 Printing Area of the SGD Webtop



When documents are printing, the webtop tells you how many print jobs are in the queue.

Click the Pause link to temporarily stop printing. The printer icon changes to show you when printing is paused.

FIGURE 1-15 Printing Paused Icon



If you pause printing, any print jobs that are pending are held in a queue until you either cancel them or resume printing.

Click the Resume link to start printing again after you have paused printing.

Click the Cancel All link to delete all your print jobs.

To manage print jobs individually, click the List All Jobs button. The webtop displays a list of all the print jobs in the queue, along with information about the job. For example, the number of copies and the printer to use.

If you have paused printing, click • to print just that one print job.

To cancel a print job, click X.

Printing From UNIX Platform Applications

SGD enables users to print from UNIX platform applications to a printer attached to their client device.

Printing from UNIX Platform Applications to UNIX, Linux, or Mac OS X Platform Client Devices

From a terminal window on the application server, you can print a file to the default printer on the client device by typing the following command:

\$ lp file

Alternatively, you can specify any client printer that your SGD Administrator has configured.

For example, if a client printer named salesprinter has been configured by your SGD administrator, you can use the following command:

\$ lp -d salesprinter file

Printing from UNIX Platform Applications to a Windows Client Device

The following command prints *file* to the default printer on the Windows client device:

\$ **lp** file

You can also print to a port on the client device. For example:

\$ lp -d LPT1: file

You can also print by specifying the universal naming convention (UNC) name of a network printer that is accessible from the client device. To use a UNC name, you must enclose the printer name in quotes and escape backslashes as appropriate for the shell. For example:

\$ lp -d '\\\PRTSERVER\\HPLJ5' file

To avoid problems with UNC names, you can print using a "friendly" name such as:

\$ lp -d label-printer file

In this case, the friendly name must be configured by your SGD Administrator.

Printing From Windows Applications

SGD enables users to print from Windows applications to a printer attached to their client device.

Printing from Windows Applications to UNIX, Linux, or Mac OS X Platform Client Devices

If you access an application on a Microsoft Windows 2000 Server or Microsoft Windows Server 2003 application server, you see the client printers that have been configured by your SGD Administrator.

In the application server's Print dialog box, the printers on your client are designated by "Sun SGD" in the printer name.

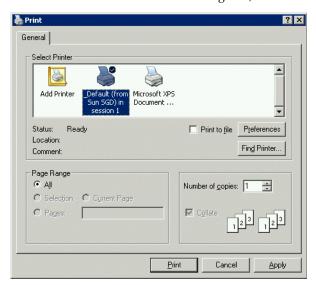


FIGURE 1-16 Windows 2003 Print Dialog Box, With an SGD Client Printer Selected

See "Configuring Your Client Printers" on page 37 for more information on how you can configure your own client printers.

Printing from Windows Applications to a Windows Client Device

When accessing an application on a Microsoft Windows 2000 Server or Microsoft Windows Server 2003 application server, you see some, all, or none of the printers that are attached to the client and also the printers that are attached directly to the application server. The SGD Administrator configures which client printers you can see.

In the application server's Print dialog box, the printers on your client are designated by "Sun SGD" in the printer name (see FIGURE 1-16).

PDF Printing

With Windows 2000, Windows 2003, Unix platform, or Linux platform application servers you can print to a PDF file. This avoids many problems with print drivers by using the Adobe PDF format.

SGD has two PDF printers: Universal PDF Printer and Universal PDF Viewer.

On Microsoft Windows client devices, the Universal PDF Printer printer displays the print job as a PDF file in Adobe Reader, which then prints the PDF file to your default printer. The Universal PDF Viewer printer displays the print job as a PDF file in Adobe Reader. You can then decide whether to print or save the PDF file.

On UNIX, Linux, and Mac OS X platform client devices, there is no difference between the Universal PDF Printer and Universal PDF Viewer printers, as the print job is always displayed as a PDF file in a PDF viewer. You can then decide whether to print or save the PDF file.

Using PDF Printing

From a Windows application, you print in the normal way and select either the Universal PDF Printer or the Universal PDF Viewer printer in the application's Print dialog box.

From an application running on a UNIX or Linux platform application server, you print in the normal way, specifying a PDF printer as part of the print command. For example:

\$ lp -d "Universal PDF Printer" file

\$ lpr -P "Universal PDF Viewer" file

The *file* must be a PostScript file, so the application must be able to output PostScript.

On Windows client devices, the PDF file is displayed in the Adobe Reader. Depending on the printer you select, either of the following applies:

- If the Universal PDF Printer printer is selected, the PDF file is printed automatically to your default printer. The Adobe Reader runs minimized and does not exit when the print job has finished.
- If the Universal PDF Viewer printer is selected, the PDF file is displayed in the Adobe Reader window. You can then decide whether to print or save the file.

On UNIX, Linux, and Mac OS X platform client devices, the PDF file is displayed either in the default PDF viewer or in the PDF viewer configured in the client profile. You can then decide whether to print or save the PDF file. There is no difference between the Universal PDF Printer and the Universal PDF Viewer printers, as the print job is always displayed in a PDF viewer.

Printing Troubleshooting

If you print from an application and the output does not appear, check the following.

Possible Cause	More Information
Have You Paused Printing?	Make sure that your webtop indicates that printing is not paused. See "Printing Paused Icon" on page 16.

Possible Cause	More Information
Is Your Printer Set Up Correctly?	Make sure your printer is set up correctly. For example, by printing a web page to the printer from a web browser.
Have You Printed To the Correct Printer?	If you are printing from a Windows 2000, Windows 2003, or UNIX platform application server, you can choose a printer you print to. If you do not select a printer, output is sent to your default printer.
	For all other application servers, you always print to your default printer.
	To see which printer is your default printer, point to the printer icon on your webtop. A popup shows the name of your default printer.
	If you want to change your default printer, you must log out of SGD, change the default printer, then log in to SGD again.
Is the Message "No Client Printer Available" Displayed?	Make sure that your webtop does not display a "No Client Printer Available" message and that the printer icon does not contains a red X. This means that SGD does not support printing for your client device or for your printer.
	Your SGD Administrator might be able to help enable printing.

If none of the above solves your printing problem, contact your SGD Administrator.

Changing Your Settings

You can configure the following user-specific SGD settings by clicking on the Edit button in the Applications area:

- Client settings
- Application Groups

Client Settings

Each time the SGD Client starts it uses a profile. A profile is a group of configuration settings that control the SGD Client. The settings in a profile define the following:

■ How the SGD Client connects to an SGD server. For example, the URL to connect to and the proxy server to use.

- The operating mode of the SGD Client. For example, whether to display a webtop (Webtop mode) or whether the list of applications that you can run is displayed in the desktop Start or Launch Menu (Integrated mode).
- How the SGD Client behaves. For example, if it loses a connection to an SGD server.

You have one profile (one group of settings) for each SGD server you connect to.

The available client settings are described in Appendix C.

Editing Profiles

You can only edit profiles if your SGD Administrator has configured SGD to let you do this.

You can only edit profiles from a webtop. On your webtop, click the Edit button in the Applications area of the webtop, and then click the Client Settings tab.

You can only edit your own profiles and you can only edit the profile for the SGD server you are currently connected to.

When you first edit a profile, the settings are the ones your Administrator has configured for you.

To restore a profile to the system default settings, click the Reset button.

Note – You must log out of SGD and log in again for changes to your profile to take effect.

Application Groups

Only an SGD Administrator can add an application to, or remove an application from, the list of applications that you can run. However, you can choose how and when those applications display on your webtop. You do this by creating groups.

Groups are useful for grouping similar applications together or for hiding applications you do not use very often. How you use groups is up to you.

▼ How To Create a Group

- 1. On the webtop, click the Edit button.
- 2. Click the Edit Groups tab.

3. Click the Add New Group button.

Type a name for the group.

In Choose Your Content, select the check boxes for the applications and documents you want to include in the group.

4. Set the display options for the group.

To hide the applications *and* the group so that they do not display on your webtop, you deselect the check box next to I Want to See This Group on My Webtop When I Log In.

To hide the contents of the group so that only the group name is displayed when you first log in, you deselect the check box next to I Want to See the Contents of This Group When I Log in.

FIGURE 1-17 Creating a New Group Using the Edit Groups tab

Name				
Enter name: Office apps				
Choose your content				
✓ Cash-o-Win ☐ Cust-o-dat ☐ Pers-o-dat ✓ Slide-o-Win ✓ Write-o-Win ☐ XClaim ☐ XFinance				
Set your display options				
✓ I want to see this group on my webtop when I log in ✓ I want to see the contents of this group when I log in				
Cancel Save Group				

5. Click the Save Group button.

6. Click the Update button.

The names of the webtop groups you create are displayed on the webtop.

FIGURE 1-18 Group Displayed on a Webtop, Showing Group Contents



A separator line to show you which applications are in the group is also displayed.

7. Click the triangle to hide and show the applications in the group.

FIGURE 1-19 Group Displayed on a Webtop, Hiding Group Contents



You can add as many groups as you like. You can change or delete a group whenever you like. After making a change you must click Update.

Using SGD From Your Desktop Start or Launch Menu

You can use SGD from your desktop Start or Launch Menu. This is called Integrated mode. When you use SGD in Integrated mode, the links for starting applications display in your desktop Start or Launch Menu instead of on your webtop. This means you can run applications through SGD in the same way as applications installed on your client device.

▼ How to Add SGD to Your Desktop Start or Launch Menu

To add SGD to your desktop Start or Launch Menu, you usually have to perform an initial login to display a webtop, and then edit your profile.

1. Start a web browser and go to the SGD login URL.

The SGD login URL is at http://server.example.com/sgd, where server.example.com is the name of the SGD server.

- 2. Log in and display a webtop.
- 3. Edit your client profile as follows.
 - a. Click the Edit button in the Applications area of the webtop and then click the Client Settings tab.
 - b. Select the Add Applications to Start Menu check box.
 - c. To start the SGD Client when you log in to your desktop, select the Connect on System Login check box.
 - d. Configure the proxy server settings.

Your SGD Administrator can tell you what proxy server settings to use.

- e. Click Save.
- 4. Log out of SGD.

After the initial login, and depending on your profile, you might not need to use a web browser to access SGD.

Working With the Start or Launch Menu

This section describes the how you do the following tasks using the desktop Start or Launch Menu.

- Logging in
- Running applications
- Printing
- Displaying a webtop
- Using application groups
- Logging out

Logging In

You log in to SGD by clicking the Login link on your desktop Start or Launch Menu.

FIGURE 1-20 Logging In Using the Desktop Start or Launch Menu

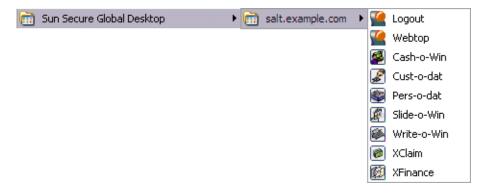


Note – If you log in to more than one SGD server, there is a Login link for each server in the Start or Launch Menu.

Once you have logged in to SGD, the Start or Launch Menu is updated with the links for the applications you can run through SGD.

To use SGD in Integrated mode, you always log in using the Start or Launch Menu. If you start a web browser and log in, your applications are not displayed in the Start or Launch Menu.

FIGURE 1-21 Webtop Content Links in the Desktop Start or Launch Menu



Displaying a Webtop

If you need to display a webtop, for example to be able to edit your profile, resume a suspended application or manage printing, you click the Webtop link in the Start or Launch Menu. The webtop is displayed in your default web browser.

Running Applications

To start an application, you click its link on the Start or Launch Menu. To start another instance of the application, you click the link again.

Unlike the webtop, you cannot suspend and resume individual applications. Instead, when you log out of SGD, your running applications are either suspended or ended (depending on how their resumability settings, see "Suspending and Resuming Applications" on page 11). When you log in again, any suspended applications you have are resumed automatically.

See "Using Applications" on page 10 for more information about running applications using SGD.

Printing

You cannot manage individual print jobs from the Start or Launch Menu and so print jobs go straight to the selected printer.

See "Printing" on page 15 for more information about printing using SGD.

Using Application Groups

If you have arranged any of your webtop content to display in groups, those groups are also used in the Start or Launch Menu. If the group is configured to hide webtop content, the content does not display in the Start or Launch Menu.

Logging Out

The log out procedure varies, depending on whether you are using the SGD webtop or you are using SGD from the desktop Start or Launch Menu.

Logging Out of the SGD Webtop

Always log out of SGD before closing your web browser.

Click the Logout button on your webtop and click OK when prompted for confirmation.

FIGURE 1-22 Log Out Button on the Webtop



Logging Out Using the Start or Launch Menu

To log out of SGD in Integrated mode, you click the Logout link on the Start or Launch Menu.

Installing the SGD Client Manually

To use SGD with a web browser that does not have Java technology enabled, you must download the SGD Client manually and install it on your computer.

Installing the SGD Client

The SGD Client is usually installed automatically when a user connects to an SGD server using a web browser with Java technology enabled. Follow these instructions only if you want to install the SGD Client *manually*.

You do not need superuser (root) or administrator privileges to install the SGD Client.

On Microsoft Windows platforms, the SGD Client is installed in the C:\Program Files\Sun\Secure Global Desktop Client directory by default, but you can choose a different installation directory when you install the software. A shortcut for the SGD Client is added to the Windows Start Menu.

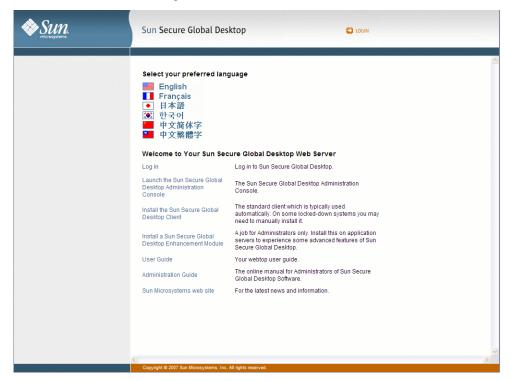
On UNIX and Linux platforms, the SGD Client is installed in the \$HOME/bin directory by default, but you can choose a different installation directory when you install the software.

▼ How to Install the SGD Client Manually on Microsoft Windows Platforms

1. In a web browser, go to an SGD Web Server.

For example, http://server.example.com. The SGD Web Server Welcome page displays.

FIGURE A-1 SGD Welcome Page



2. (Optional) Select your preferred language.

Click one of the flags at the top of the Welcome page. The Welcome page displays in the selected language.

3. Click Install the Sun Secure Global Desktop Client.

The Sun Secure Global Desktop Client page displays.

4. Download the SGD Client installation program.

Click Download the Secure Global Desktop Client for Microsoft Windows. Save the installation program to a temporary directory on the PC. The SGD Client installation program is sgdcwin-lang.exe.

5. Change to the temporary directory and install the SGD Client.

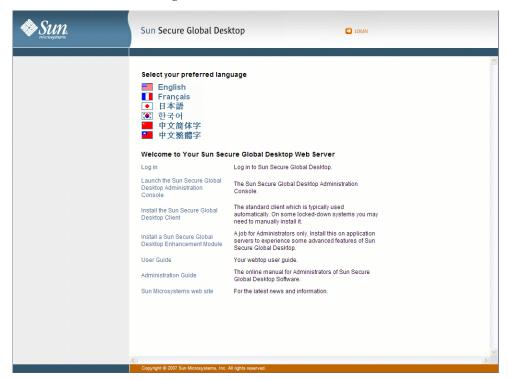
Double-click sgdcwin-lang.exe and follow the instructions on the screen.

▼ How to Install the SGD Client Manually on Solaris OS and Linux Platforms

1. In a web browser, go to an SGD Web Server.

For example, http://server.example.com The SGD Web Server Welcome page displays.

FIGURE A-2 SGD Welcome Page



2. (Optional) Select your preferred language.

Click one of the flags at the top of the Welcome page. The Welcome page displays in the selected language.

3. Click Install the Sun Secure Global Desktop Client.

The Sun Secure Global Desktop Client page displays.

4. Download the SGD Client tar file.

Click Download the Secure Global Desktop Client for platform.

Save the tar file to a temporary directory on the host.

Tar file names indicate a platform, as follows:

- sgdci3so.tar for Solaris OS on x86 platforms
- sgdcspso.tar for Solaris OS on SPARC technology platforms
- sgdci3li.tar for Linux platforms

5. Change to the temporary directory and extract the tar file.

```
$ cd /tempdir
$ tar xvf tarfile
```

6. Install the SGD Client.

\$ sh sgdc/install

Follow the instructions on the screen.

Logging In Using the SGD Client

- On UNIX and Linux platforms, you start the SGD Client with the ttatcc command.
- On Microsoft Windows platforms, you can either start the SGD Client as part of the installation or click Start ⇒ Programs ⇒ Sun Secure Global Desktop ⇒ Login.

▼ How to Configure the SGD Client

The first time you start the SGD Client, it asks for the following information:

- The URL of the SGD server to which it connects. This is usually http://server.example.com/sgd.
- The proxy settings to use. The settings can be determined from your default web browser (requires Java technology) or you can enter them.
- 1. Start the SGD Client for the first time.

On UNIX and Linux platforms:

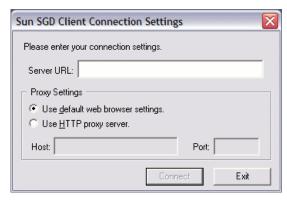
\$ cd \$HOME/bin \$ sh ttatcc

On Windows platforms:

Click Start \Rightarrow Programs \Rightarrow Sun Secure Global Desktop \Rightarrow Login.

The Client Connection Settings dialog box is shown.

FIGURE A-3 Client Connection Settings Dialog Box



2. Type in the Server URL for the SGD server.

3. Select a Proxy Settings option.

If you select the Use HTTP Proxy Server option, type the proxy server host name and port in the fields provided.

4. Click the Connect button to connect to the SGD server.

Your default web browser is loaded and the SGD Login dialog is displayed.

5. Log in to SGD.

Type in your SGD user name and password at the SGD Login dialog. Click the Login button to log in to SGD.

6. Log out of SGD.

Click the Logout button on the SGD webtop menu bar.

The Client Connection settings you have entered are used by the SGD Client for any subsequent connections to this SGD server.

Advanced Configuration

This appendix includes configuration information for advanced users of SGD.

Advanced Configuration

This section describes the following advanced configuration topics:

- Client settings
- Printing
- Accessing the drives on your computer

Client Settings

You can change some of the following settings for your SGD Client.

- Login URL
- Language
- Proxy settings
- PDF viewer

To display the Client Settings tab, you click the Edit button in the Applications area of the webtop. You can only edit client settings for the SGD server you are currently connected to.

Note – Your SGD Administrator determines if you are allowed to change your own client settings.

Changing the Login URL

You use the Login URL setting to specify the location of the login page on the SGD server.

This client setting applies when you are logging in to SGD from the desktop Start or Launch Menu.

The Login URL is usually http://server.example.com/sgd/index.jsp, where server.example.com is the name of an SGD server.

Changing the Language

You use the Preferred Language setting to specify the language used for the login page and on-screen messages.

This client setting applies when you are using SGD from the desktop Start or Launch Menu.

Changing Proxy Settings

You use the settings in the Proxy section of the Client Settings tab to specify the proxy servers used by the SGD client.

The default setting is to use the same proxy server settings as your web browser. But you can enter manual settings for an HTTP proxy server.

Specifying an Alternative PDF Viewer

When printing PDF files on UNIX, Linux and Mac OS X platform client devices, the PDF file is normally displayed using the default PDF viewer for the client.

You can override this by specifying another PDF viewer for the Alternative PDF Viewer setting. Type in the application command for the alternative PDF viewer. If the application is not on your PATH, type the full path name for the application.

Printing

If you are using a UNIX, Linux, or Mac OS X client device, you can override the settings made by the SGD Administrator and configure printers on the client device.

Configuring Your Client Printers

Typically, your SGD Administrator configures the available client printers for you to use. However, if you are printing from a UNIX, Linux, or Mac OS X platform client device, you can override these settings and configure your own client printers. You do this by defining them in a client printer configuration file in your home directory at \$HOME/.tarantella/printerinfo.txt. This file is not installed by default. You must create this file, or ask your SGD Administrator for a template file that you can install and edit.

The format of the printer configuration file is as follows:

```
[UNIX]
"printer_name" = "windows_driver" printer_type
"printer_name" = "windows_driver" printer_type...
```

printer_name is the name of the printer as it is known to the lp or lpr system on the client device.

windows_driver is the name of the printer driver to use when printing from a Microsoft Windows 2000 or Microsoft Windows 2003 application server.

printer_type is the format to be used for the print job. The values can be PostScript, PCL, or Text.

An example of a client printer configuration file is as follows:

```
[UNIX]
"drafts" = "HP DeskJet 970Cxi" PCL
"salesprinter" = "HP LaserJet 5/5M" PostScript
```

This defines two client printers: drafts and salesprinter. You can then use the following command to print from a UNIX platform application to salesprinter:

```
$ lp -d salesprinter file
```

Accessing the Drives on Your Computer

Your SGD Administrator configures whether you can access the drives on your client device from applications running through SGD.

If you are using a UNIX, Linux, or Mac OS X platform client device, by default your home directory is mapped to a drive called "My Home." But you can configure the drives you want to use with applications. This is done by editing your client configuration file, \$HOME/.tarantella/native-cdm-config. This file is automatically created when the SGD Client is installed. The file contains detailed instructions for users on how to create mapped drives.

The configuration file contains entries of the form <path> <type> <label>, where:

- <path> is the absolute path name of the client file system
- <type> is either unknown, fixed, floppy, cdrom, or remote
- <label> is the name that will be used in the application session

Use a separate line for each drive and separate each of the fields with a space or a tab. If either the <path> or the <label> fields contains spaces or tabs, enclose the field in quotes.

You can use environment variables in the <path> or <label> fields. You delimit these with a dollar sign (\$). To use a literal \$, escape it with another \$.

The following is an example configuration file.

```
[CDM]
$HOME$ fixed "My Home"
/tmp/$USER$ fixed Temp
"/mnt/win/My Documents" fixed "My Local Documents"
[/CDM]
```

Client Profile Settings

This appendix describes the settings you can configure in a client profile.

Description of Client Profile Settings

Each time the SGD Client starts it uses a profile. A profile is a group of configuration settings that control the SGD Client.

The following table lists the settings available in a client profile, with a description of what they do.

If you are unsure about a setting, ask your SGD Administrator for help.

Setting	Description
Login URL	The SGD URL to use for the profile. This is usually http://server.example.com/sgd, where server.example.com is the name of an SGD server.
	In Webtop mode, the URL is loaded automatically in your default web browser so that you can log in and access your webtop.
	In Integrated mode, the URL is only loaded in your default web browser if you need to log in to SGD, or if the SGD Client needs to obtain proxy server settings.
	The default Login URL is http://server.example.com:80/sgd/index.jsp.

Setting	Description
Connect on System Login	If enabled, the SGD Client is started automatically with this profile whenever you log in to your client device.
	If enabled, the SGD Client creates an application shortcut or symbolic link for itself in the startup folder of your desktop system.
	This is disabled by default.
Add Applications to Start Menu	Controls how you use SGD. If enabled, the applications you can run are displayed in the desktop Start or Launch Menu on the client device (Integrated mode).
	If disabled, the applications you can run are displayed on a webtop in a web browser (Webtop mode).
	With Integrated mode, you cannot suspend and resume individual applications or pause and resume individual print jobs.
	This is disabled by default.
Automatic Client Login	If enabled, as soon as the SGD Client starts, it attempts to log you in automatically to SGD. Your Administrator can tell you whether automatic logins are being used. You can only enable this option if the Add Applications to Start Menu setting is enabled.
	This is disabled by default.
Alternative PDF Viewer	The application command for an alternative PDF viewer to use with PDF printing.
	If the application is not on your PATH, type the full path to the application.
	This setting only applies to UNIX, Linux, and Mac OS X platform client devices.
Logging	Controls the amount of information that is output to the SGD Client log file.
	The output is logged to a text file in the same directory as the SGD Client.
	The default is Errors only.
Preferred Language	The default language to use when the SGD Client is started from the command line. For example, when the SGD Client is in Integrated mode.
	The language selected is used for messages displayed by the SGD Client, the login dialog, and the webtop. The default is en.

Setting	Description
Check for Local X Server	If enabled, the SGD Client checks whether there is an X server running on the client device. Enabling this option can improve performance when launching X applications that are configured to display using an X server on the client device. This setting only applies to Windows client devices. This setting is disabled by default.
Proxy Settings	Settings that control how the SGD Client determines what proxy servers to use. Use Default Web Browser Settings means use the proxy server settings configured in your default web browser. Manual Proxy Settings enable you to define the proxy server settings in the profile. You can specify an HTTP proxy server. In Integrated mode, if the proxy settings are determined from a web browser, the SGD Client has to start your web browser at least once in order to detect what the proxy settings are. If the proxy settings are determined from a web browser, the settings are stored and used the next time the SGD Client starts. If Establish Proxy Settings on Session Start is enabled, every time the SGD Client starts, the default web browser is started so that the proxy settings can be determined. The stored proxy settings are not used.
Connection Failure	The default is: Use Default Web Browser Settings, with Establish Proxy Settings on Session Start disabled. Settings that control what the SGD Client does if the connection to an SGD server is lost: Whether to always reconnect, to never reconnect or to ask you what to do. If the SGD Client reconnects, these settings control how many attempts are made to reconnect and the time in seconds between each attempt. If the SGD Client is unable to reconnect, the webtop session ends and any running applications are ended or suspended, depending on how they have been configured for you. The default settings are: Always Attempt to Reconnect, Number of Attempts: 6, and Interval: 10.

Configuring Integrated Mode Operation

The following settings on the Client Settings tab are used for configuring Integrated mode operation of SGD:

■ Connect on System Login

- Automatic Client Login
- Add Applications to Start Menu

See "Using SGD From Your Desktop Start or Launch Menu" on page 24 for more information.

Glossary

This chapter defines terms used with the SGD software.

Α

Application

A program running on a server. SGD lets you access your applications using a web browser on any client device.

C

Client device

The hardware you run when you use SGD. For example, a PC or a Network Computer.

I

Integrated mode

The mode of operation when you run SGD from the desktop Start or Launch Menu. Applications are started by clicking links in the Start or Launch Menu.

T

Link Provides access to documents and applications on your webtop. Usually an icon with a label.

P

Password A secret set of characters that, together with your user name, proves your

identity to a server. You can have different passwords (and user names) on

different servers.

Profile A group of configuration settings that control the SGD Client.

S

Server A computer, or software, that provides services to client devices. The SGD

server enables you to see your webtop. Other servers might run the

applications that are listed on your webtop.

SGD Administrators The people who can configure SGD, put links on user's webtops and set up

applications.

SGD server The SGD software you log in to using your web browser to see your webtop.

IJ

User name The unique name by which servers identify you. You can have different user

names on different servers.

W

Web browser Software you run on your client device to access SGD. For example, Microsoft

Internet Explorer or Mozilla Firefox.

Webtop The special web page you see when you log in to SGD, providing access to

applications.

Webtop mode The mode of operation when you run SGD from a web browser. Your

applications are listed in a special web page called a webtop.

Index

۸	D
A	D
Alternative PDF Viewer, specifying, 36	desktop Start Menu
anonymous users	application links, 10 logging in to SGD, 5
closing the web browser, 14	using SGD from, 10, 24, 25, 41
webtop username, 9	•
Apple Macintosh mouse, single-button, 15	diagnostics information, 8
applications	E
adding to the webtop, 8	
authentication, 15	error messages
cancelling, 12 copying and pasting between, 14	when starting an application, 11
error messages, 11	G
groups, 22, 27	
number of instances, 11	glossary of terms, 43
printing, 17, 18	groups
resuming, 11, 12	creating, 22
running, 10	Guest user, 9
running from the Start Menu, 10, 27	Ī
scaling the display, 14	•
starting, 10	Info button, 8
suspending, 11, 12	Information area, 8
Applications area, 8	Initial Connection dialog, 4
authentication	Integrated mode, 24
applications, 15	,
•	J
C	Java technology-enabled web browser, 2
cancelling applications, 11	JavaScript, 2
client drives, accessing, 37	
client install, 29	L
client printers, configuration, 36	language, changing, 36
clipboard, 14	logging out of SGD, 27
copying, 14	login URL, 2

changing, 36	U
	Universal PDF Printer printer, 19
M	Universal PDF Viewer printer, 19
Menu bar, 7	user names, 1,9
P	W
pasting, 14	web browser
PDF printing, 19	closing, 14
changing the default viewer, 36	Java technology-enabled, 2
Potentially Unsafe Connection, 5	JavaScript-enabled, 2
printing	webtop
managing print jobs, 16	adding applications, 8
PDF files, 19	application start links, 10
troubleshooting problems with, 21	Applications area, 8
UNIX platform applications, 17 user configuration, 36	Information area, 8 introduction, 6
Windows applications, 18	Menu bar, 7
Printing area, 8	Printing area, 8
proxy settings, changing, 36	user name, 9
1 7 0 0	Webtop mode, 6
R	Windows applications, 18
resuming applications, 11	NT domains, 10
S	Windows domains, 10
scalable windows, 14	
secure connections, 9	
SGD	
adding links to the desktop Start Menu, 24	
Client, taskbar icon, 9	
glossary of terms, 43	
introduction, 1	
logging out, 27 splash screen, 3	
SGD Client	
manual install, 29	
taskbar icon, 9	
shared accounts	
closing the web browser, 14	
webtop username, 9	
splash screen, 3	
SSL connections, 9	
standard connections, 9	
Start Menu, 10	
suspending applications, 11	