



Sun Secure Global Desktop 4.5 Release Notes

Sun Microsystems, Inc.
www.sun.com

Part No. 820-6687-13
December 2009, Revision 01

Submit comments about this document by clicking the Feedback[+] link at: <http://docs.sun.com>

Copyright © Copyright 2007-2009 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and in other countries.

U.S. Government Rights - Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

This distribution may include materials developed by third parties.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, Java, JavaScript, JavaServer Pages, JSP, JVM, Solaris, OpenSolaris, Sun Ray, JavaHelp, VirtualBox, and JDK are trademarks or registered trademarks of Sun Microsystems, Inc. or its subsidiaries in the United States and other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

Adobe is the registered trademark of Adobe Systems, Incorporated.

Intel is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

Products covered by and information contained in this service manual are controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2007-2009 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, Californie 95054, États-Unis. Tous droits réservés.

Sun Microsystems, Inc. détient les droits de propriété intellectuels relatifs à la technologie incorporée dans le produit qui est décrit dans ce document. En particulier, et ce sans limitation, ces droits de propriété intellectuelle peuvent inclure un ou plus des brevets américains listés à l'adresse <http://www.sun.com/patents> et un ou les brevets supplémentaires ou les applications de brevet en attente aux États-Unis et dans les autres pays.

Cette distribution peut comprendre des composants développés par des tierces parties.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux États-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, Java, JavaScript, JavaServer Pages, JSP, JVM, Solaris, OpenSolaris, Sun Ray, JavaHelp, VirtualBox, et JDK sont des marques déposées ou enregistrées de Sun Microsystems, Inc. ou ses filiales aux États-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux États-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

Adobe est une marque enregistrée de Adobe Systems, Incorporated.

Intel est une marque déposée ou enregistrée de Intel Corporation ou ses filiales aux États-Unis et dans d'autres pays.

Les produits qui font l'objet de ce manuel d'entretien et les informations qu'il contient sont régis par la législation américaine en matière de contrôle des exportations et peuvent être soumis au droit d'autres pays dans le domaine des exportations et importations. Les utilisations finales, ou utilisateurs finaux, pour des armes nucléaires, des missiles, des armes biologiques et chimiques ou du nucléaire maritime, directement ou indirectement, sont strictement interdites. Les exportations ou réexportations vers des pays sous embargo des États-Unis, ou vers des entités figurant sur les listes d'exclusion d'exportation américaines, y compris, mais de manière non exclusive, la liste de personnes qui font objet d'un ordre de ne pas participer, d'une façon directe ou indirecte, aux exportations des produits ou des services qui sont régi par la législation américaine en matière de contrôle des exportations et la liste de ressortissants spécifiquement désignés, sont rigoureusement interdites.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DÉCLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES DANS LA LIMITE DE LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE À LA QUALITÉ MARCHANDE, À L'APTITUDE À UNE UTILISATION PARTICULIÈRE OU À L'ABSENCE DE CONTREFAÇON.



Please
Recycle



Adobe PostScript

Contents

Preface ix

1. New Features and Changes 1

New Features in Version 4.50 1

Introducing the SGD Gateway 2

Installing the SGD Gateway 2

Architecture of the SGD Gateway 2

Commands for the SGD Gateway 3

Application-Level Device Configuration 3

Array Failover 4

Seamless Windows Local Window Hierarchy 4

German Language Support 4

Support for Novell eDirectory 4

New Features in Version 4.41 5

New Command for Securing an SGD Server 5

Pull-Down Header for Kiosk Mode Applications 6

Service Tag Support 6

Active Directory Authentication Log Filter 7

Active Directory SSL Security Without Client Certificates 7

New Features in Version 4.40 7

SGD Administration Console	8
Terminology Changes	8
Attribute Name Changes	9
The My Desktop URL	9
Support for Roaming Profiles	10
Automatic Timeout of Idle User Sessions	11
Netmask Filters for Specifying Network Addresses	12
Window Management Keys	12
Support for Solaris™ 10 OS Trusted Extensions	12
Global Management of Passwords and Tokens	13
Subject Alternative Names for Server Certificates	13
Time Zone Map File Attribute	13
Session Directory for Windows Terminal Services	13
Changes in Version 4.50	14
Changes to Supported Platforms	14
Changes to SGD Web Server Component Versions	15
JDK Version Change	15
Option to Resume Printing from My Desktop	16
Changes to the <code>tarantella security enable</code> Command	16
Web Services Changes	16
Kiosk Mode Escape Attribute	17
Support for Evince Document Viewer	17
New <code>-remoteaudio</code> Option For SGD Terminal Services Client	17
Administration Console Configuration Parameter for DNS Lookups	18
Changes in Version 4.41	18
Changes to Supported Platforms	19
SGD Server Command-Line Changes	19
Changes to SGD Web Server Component Versions	20

JDK Version Change	20
My Desktop Link	20
Changes to tarantella security start and tarantella security stop Commands	21
Changes to tarantella status Command	21
Enabling Secure Intra-Array Communications	21
Replacing an SGD Server Certificate	21
Performance Improvements for tarantella array Commands	22
Changes in Version 4.40	22
Retirement of Classic Clients	23
Login and Authentication Sequence	23
Server Certificates and Multiple External DNS Names	23
Web Services Changes	23
Authentication Model Changes	24
Renaming of Methods	24
New Web Service Operations	25
Document/Literal SOAP Message Encoding	26
Querying Device Data	26
Flushing the Kerberos Cache	27
tem status Command	27
SGD Client Does Not Assume Java Technology by Default	27
SGD Client Logs Client Device Information	28
Renamed Command Line Arguments	28
Windows NT Domain Attribute	28
PDF Printers Renamed	29
Window Closure Warning	29
SOCKS Proxy Removed From Client Profile	29
Administration Tools Removed From The Administrator Webtop	29
Login Script Changes	30

Enabling Input Methods for Locales 30

SGD Client Termination Timeouts 30

2. Support Statements, Known Issues, Bug Fixes, and Documentation Issues 33

End-Of-Support Statements 33

Changes to Supported Platforms for The Next Release 34

Known Bugs and Issues 35

602423 - Return Key and Keypad Enter Key Issues 35

6443840 - Automatic Proxy Server Configuration Scripts Fail 36

6456278 - Integrated Mode Does Not Work for the Root User 36

6458111 - Gnome Main Menu Crashes Using Integrated Mode 37

6461864 and 6476661 - Automatic Login and Integrated Mode Fails With the
Gnome Desktop 37

6476194 - No KDE Desktop Menu Item for the SGD Client 38

6481312 - Upgrading Resets the Available Connection Types 38

6482912 - SGD Client Not Installed Automatically 39

6493374 - Non-ASCII Characters in Input Method Windows 39

6503530 – No Launch Menu Entries on Sun Java™ Desktop System 40

6555834 – Java™ Technology is Enabled For Browser But Is Not Installed On
Client Device 40

6592560 – Administration Console Online Help Not Available Over HTTPS
40

6598048 – French Canadian Keyboard Not Mapped Correctly for Windows
Applications 41

6611502 – Errors When Creating and Modifying Objects From a Secondary
Server 41

6616290 – Integrated Mode Issues When Using the SGD Load-Balancing JSP™
Technology Page 42

6631991 – High CPU Usage When Using the SGD Enhancement Module 42

6634243 – Microsoft Windows Vista Applications Limited to 16-Bit Color
Depth 42

6654307 – Slow Log In When Using Active Directory Authentication	42
6665330 – Font Errors When Starting VirtualBox™ Software From a Java Desktop System Session Displayed Using MyDesktop	43
6702234 – tarantella security start Command Errors When SGD Server is Stopped	43
6711001 – SGD Server Will Not Start	43
6711479 – Audio Unavailable on Linux Platform Client Devices	44
6726403 – Active Directory Authentication Fails With SSL Connections to Microsoft Windows Server 2008	44
6734004 – Issues With Extended Characters in User Names	44
6744107 – Applications Fail to Start When Using SSL Connections	45
6756705 – SGD Client Does Not Run on OpenSolaris Client Platforms	45
6801579 – Kana Mode Unavailable for Solaris Applications on Microsoft Windows Client Devices	46
6809365 – Application Start Failures and Quotation Marks in the User’s DN	46
6818834 – LDAP Users Always Prompted to Change Password When Logging In	46
6827258 – SGD Enhancement Module Installation Issues on Microsoft Windows Vista Platforms	47
6829584 – Issues With Long User Names When Starting Applications	47
6831077 – Applications Fail to Start on OpenSolaris	48
6831480 – Backup Primaries List Command Returns an Error	48
6831939 – Windows Application Start Failures and Delays When Using CDM	48
6836075 – 3270 and 5250 Applications Fail to Start	49
6852617 – Unable to Use the SGD Gateway After Upgrading to SGD Version 4.50	49
6872934 – SGD Client Does Not Start if Java Technology is Not Available	50
6874184 – Umlaut Characters and Active Directory Authentication	50
6905376 – Building of Apache Modules Using apxs Fails	50
6905932 – SGD Enhancement Module Upgrade Failure	51

Sun Type 7 Japanese Keyboard Issues	51
Start Menu Items Not Sorted Alphabetically	52
Microsoft Windows Server 2003 Applications Limited to 8-Bit Color Depth for Large Screen Resolutions	52
Bug Fixes in Version 4.50	52
Bug Fixes in Version 4.41	60
Bug Fixes in Version 4.40	65
Documentation Issues in Version 4.50	67
Using the Automatic Procedure for Securing an SGD Array When Deploying the SGD Gateway	67
Corrections to Component Version Information	68
Correction to the “SGD Terminal Services Client” Section	68
Avoiding Port Conflicts for the X Protocol Engine	69
Correction to the “Adding and Removing SGD Servers From An Array” Section	69
Correction to the Table of Supported PDF Viewers	70
Corrections to Supported Browsers Information	70
Correction to the “Troubleshooting Applications” Section	71

Preface

The *Sun Secure Global Desktop 4.5 Release Notes* provide information about the system requirements and support, and the new features and changes, for this version of Sun Secure Global Desktop (SGD). This document is written for system administrators.

Using System Commands

This document might not contain information on basic UNIX[®] system commands and procedures such as shutting down the system, booting the system, and configuring devices. Refer to your system documentation for this information. This document does, however, contain information about specific SGD commands.

Shell Prompts

Shell	Prompt
C shell	<i>machine-name%</i>
C shell superuser	<i>machine-name#</i>
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#

Typographic Conventions

Typeface*	Meaning	Examples
<i>AaBbCc123</i>	The names of commands, files, and directories; on-screen computer output	Edit your <i>.login</i> file. Use <i>ls -a</i> to list all files. <i>% You have mail.</i>
AaBbCc123	What you type, when contrasted with on-screen computer output	<i>% su</i> Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized. Replace command-line variables with real names or values.	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. To delete a file, type <i>rm filename</i> .

* The settings on your browser might differ from these settings.

Related Documentation

The following table lists the documentation for this product. The online documentation is available at:

(<http://docs.sun.com/app/docs/coll/1706.4>)

Application	Title	Part Number	Format	Location
Installation	<i>Sun Secure Global Desktop 4.5 Installation Guide</i>	820-6688-10	HTML	Online
			PDF	DVD media and online
Administration	<i>Sun Secure Global Desktop 4.5 Administration Guide</i>	820-6689-10	HTML	Online
			PDF	
User	<i>Sun Secure Global Desktop 4.5 User Guide</i>	820-6690-10	HTML	Online
			PDF	
Administration	<i>Sun Secure Global Desktop 4.5 Gateway Administration Guide</i>	820-6691-10	HTML	Online
			PDF	

Third-Party Web Sites

Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. You can email your comments to Sun at:

docfeedback@sun.com

Please include the following document title and part number in the subject line of your email:

Sun Secure Global Desktop 4.5 Release Notes, part number 820-6687-13.

New Features and Changes

This chapter describes the new features and changes in Sun Secure Global Desktop (SGD) versions 4.50, 4.41, and 4.40.

Topics in this chapter include the following:

- [“New Features in Version 4.50” on page 1](#)
- [“New Features in Version 4.41” on page 5](#)
- [“New Features in Version 4.40” on page 7](#)
- [“Changes in Version 4.50” on page 14](#)
- [“Changes in Version 4.41” on page 18](#)
- [“Changes in Version 4.40” on page 22](#)

New Features in Version 4.50

This section describes the features that are new in the SGD version 4.50 release.

This section includes the following topics:

- [“Introducing the SGD Gateway” on page 2](#)
- [“Application-Level Device Configuration” on page 3](#)
- [“Array Failover” on page 4](#)
- [“Seamless Windows Local Window Hierarchy” on page 4](#)
- [“German Language Support” on page 4](#)
- [“Support for Novell eDirectory” on page 4](#)

Introducing the SGD Gateway

This release introduces the Sun Secure Global Desktop Gateway (SGD Gateway).

The SGD Gateway is a proxy server designed to be deployed in front of an SGD array in a demilitarized zone (DMZ). This enables the SGD array to be located on the internal network of an organization. Additionally, all connections can be authenticated in the DMZ before any connections are made to the SGD servers in the array.

Using the SGD Gateway is an alternative to running your SGD servers with firewall traversal, also called firewall forwarding.

The SGD Gateway manages load balancing of Hypertext Transfer Protocol (HTTP) connections, so you do not need to use the JavaServer Pages™ (JSP™) technology load balancing page included with SGD.

The SGD Gateway software is included with the SGD distribution.

Instructions on how to install, configure, and use the SGD Gateway are included in the *Sun Secure Global Desktop 4.5 Gateway Administration Guide*. This document also includes details of supported platforms.

Installing the SGD Gateway

To install the SGD Gateway, click the Install the Sun Secure Global Desktop Gateway link on the SGD web server Welcome Page and follow the instructions on the screen.

By default, the SGD Gateway is installed in the `/opt/SUNWsgdg` directory on the SGD Gateway host.

Architecture of the SGD Gateway

The SGD Gateway consists of the following components:

- **Routing proxy.** A Java™ technology-based application that routes Adaptive Internet Protocol (AIP) data connections to an SGD server.

Keystores in the routing proxy contain the certificates and private keys used to secure connections for the SGD Gateway.

The routing proxy uses routing tokens to manage AIP connections. A routing token is a signed, encrypted message which identifies the origin and destination SGD server for a route.

- **Reverse proxy.** An Apache web server, configured to operate in reverse proxy mode.

The reverse proxy also performs load balancing of HTTP connections.

See the Appendix A of the *Sun Secure Global Desktop 4.5 Gateway Administration Guide* for more details about the architecture and features of the SGD Gateway.

Commands for the SGD Gateway

New commands have been introduced for the SGD Gateway, as follows:

- `gateway` – The `gateway` command is used to control and configure the SGD Gateway.

You run this command on the SGD Gateway host.

- `tarantella gateway` – The `tarantella gateway` command is used to register gateways for use by an SGD array.

You run this command on the SGD array.

A new attribute, `--security-gateway`, configures which client connections to an SGD array use the SGD Gateway.

See Appendix B of the *Sun Secure Global Desktop 4.5 Gateway Administration Guide* for more details about these command-line changes.

Application-Level Device Configuration

This release enables application-level device configuration. For Windows applications, SGD Administrators can configure client drive mapping (CDM) and printing settings.

CDM and printing configuration for Windows application objects overrides settings configured for user profile, organizational unit, and organization objects. The order of precedence is: Windows application → user profile → organizational unit → organization.

For CDM on all platforms, the access rights for a mapped client drive are shown in brackets after the drive name: `(rw)` means read-write access, `(ro)` means read only access. For example, in Windows desktop sessions access rights are displayed in file save dialogs and in the My Computer window.

Array Failover

This release includes a new feature called *array failover*. When array failover is enabled for an SGD array, the array repairs itself automatically following the loss of the primary server.

In array failover, a secondary server in the array is upgraded automatically to become the primary server.

Array failover is disabled by default for an SGD array. To enable array failover for an SGD array, run the following command on any SGD server in the array:

```
$ tarantella config edit --array-failoverenabled 1
```

See the *Sun Secure Global Desktop 4.5 Administration Guide* for more details about configuring array failover for an SGD array.

Seamless Windows Local Window Hierarchy

A new attribute SWM Local Window Hierarchy (`--swmopts`) for Windows applications has been introduced for compatibility with some Borland applications. The attribute is only effective for applications having a Window Type setting of Seamless Window. Use this attribute if you are having problems with minimizing and maximizing the application window from the task bar.

A corresponding command option `-swmopts` has been added for the SGD Terminal Services Client program, `ttatsc`.

German Language Support

This release includes support for the German language.

The webtop, the Administration Console, and the SGD Client are available in German. The documentation is not translated into German.

Support for Novell eDirectory

Novell eDirectory version 8.8 or later is now supported as a Lightweight Directory Access Protocol (LDAP) directory server.

By default, Novell eDirectory requires that all simple LDAP binds that contain a password must be encrypted. To use simple binds with a password for SGD, you must do either of the following:

- Configure SGD to use secure connections to eDirectory by using `ldaps://` Uniform Resource Locators (URLs)
- Configure the LDAP group object in eDirectory and disable Transport Layer Security (TLS) for simple binds

New Features in Version 4.41

This section describes the features that are new in the SGD version 4.41 release.

This section includes the following topics:

- [“New Command for Securing an SGD Server” on page 5](#)
- [“Pull-Down Header for Kiosk Mode Applications” on page 6](#)
- [“Service Tag Support” on page 6](#)
- [“Active Directory Authentication Log Filter” on page 7](#)
- [“Active Directory SSL Security Without Client Certificates” on page 7](#)

New Command for Securing an SGD Server

SGD Administrators can now configure security automatically for an SGD server, using a single `tarantella` command. The following commands are now available:

- `tarantella security enable` – Makes an SGD server secure
- `tarantella security disable` – Restores the security settings of an SGD server, to the state before running `tarantella security enable`

The `tarantella security enable` command performs the following configuration:

- Installs a server certificate
- Enables HTTP over Secure Sockets Layer (HTTPS) connections to the SGD web server
- Configures the SGD server for firewall traversal
- Secures the Simple Object Access Protocol (SOAP) connections to the SGD server
- Enables SGD security services
- Restarts the SGD server and SGD web server

The following limitations apply for these commands:

- The SGD server must not be in an array.
- The SGD server must have a *fresh* installation of SGD. The commands cannot be used if you are upgrading the software on an SGD server.

See the *Sun Secure Global Desktop 4.5 Administration Guide* for more details about the `tarantella security enable` and `tarantella security disable` commands.

Pull-Down Header for Kiosk Mode Applications

A new attribute (`--allowkioskescape`) enables a pull-down header for Windows applications and X applications running in kiosk mode.

The pull-down header includes icons for minimizing and closing the application window.

To display the pull-down header when this attribute is enabled, move the mouse to the top of the application window.

To enable or disable the pull-down header, configure the attribute for the Windows application or X application object. For example:

```
$ tarantella object edit \  
--name "o=applications/cn=IndigoProject" --allowkioskescape true
```

Note – Currently, this attribute is only configurable from the command line.

Service Tag Support

SGD version 4.41 includes support for Sun Service Tags. If the Sun Service Tags software is present on the SGD host, SGD creates and registers a new service tag automatically during installation.

Registration of service tags is attempted on every instance of `tarantella start` until successful, after which registration does not take place again. This means that even if the Service Tags software is not present when SGD is installed, SGD will still register with it if you install the Service Tags software on the SGD host at a later date.

For more information about Sun Service Tags, see
(<http://www.sun.com/bigadmin/hubs/connection/tasks/register.jsp>)

Active Directory Authentication Log Filter

There is a new `server/ad` log filter, which enables logging of errors related to Active Directory authentication.

For example, you can use this log filter to find out why an Active Directory user cannot log in to SGD.

Active Directory SSL Security Without Client Certificates

SGD version 4.41 enables you to use Secure Sockets Layer (SSL) security when connecting to an Active Directory server, without using client certificates. This means that an SGD server can meet security requirements in an environment where client certificates are not required, or are not a viable option.

The *Sun Secure Global Desktop 4.5 Administration Guide* provides details of how to configure this feature.

New Features in Version 4.40

This section describes the features that are new in the SGD version 4.40 release.

This section includes the following topics:

- “SGD Administration Console” on page 8
- “The My Desktop URL” on page 9
- “Support for Roaming Profiles” on page 10
- “Automatic Timeout of Idle User Sessions” on page 11
- “Netmask Filters for Specifying Network Addresses” on page 12
- “Window Management Keys” on page 12
- “Support for Solaris™ 10 OS Trusted Extensions” on page 12
- “Global Management of Passwords and Tokens” on page 13
- “Subject Alternative Names for Server Certificates” on page 13

- “Time Zone Map File Attribute” on page 13
- “Session Directory for Windows Terminal Services” on page 13

SGD Administration Console

The SGD administration tools, Object Manager, Array Manager, Configuration Wizard, and Session Manager have been replaced by the SGD Administration Console. The SGD Administration Console is a web application. The Administration Console can be used by SGD Administrators to configure SGD.

The Administration Console is localized into the languages supported by SGD: English, French, Japanese, Korean, Simplified Chinese, and Traditional Chinese.

To use the Administration Console, your browser must have the JavaScript™ programming language enabled.

Wherever possible, run the Administration Console on the primary server in the SGD array. Some operations, for example, creating new objects or editing object attributes, are best done on the primary server. If you perform these operations on a secondary server and the primary server is not running, your changes are not implemented.

Note – The SGD distribution includes a web archive (WAR) file for the Administration Console, `sgdadmin.war`. Using this file to deploy the Administration Console on another web application server is not supported.

You can start the Administration Console in one of the following ways:

- Click the Administration Console link on the webtop of an SGD Administrator.
- Click the Launch the Sun Secure Global Desktop Administration Console link on the SGD web server Welcome Page at `http://server.example.com`, where `server.example.com` is the name of an SGD server.
- Go to `http://server.example.com/sgdadmin`, where `server.example.com` is the name of an SGD server.

See the *Sun Secure Global Desktop 4.5 Administration Guide* for more details about the Administration Console.

Terminology Changes

The Administration Console uses different terminology compared to previous SGD releases.

The following table lists some common terms used in version 4.31 and the corresponding term used in the Administration Console.

SGD Version 4.31	Administration Console
array member	SGD server
browser-based webtop	webtop
emulator session	application session
Enterprise Naming Scheme (ENS)	local repository
ENS equivalent name	user profile
Fully Qualified Name	user identity
host	application server
intelligent array routing	load balancing group
login authority	system authentication
login profile	user profile
person object	user profile object
Tarantella Federated Naming (TFN)	<i>Not used</i>
webtop session	user session

Attribute Name Changes

Some attributes have been renamed for the Administration Console. The *Sun Secure Global Desktop 4.5 Administration Guide* includes the attribute names used in the Administration Console, along with the previous attribute name used in Object Manager and Array Manager.

The My Desktop URL

The My Desktop URL enables users to log in and display a full-screen desktop without displaying a webtop.

To be able to use the My Desktop URL, the user must be assigned an application object called My Desktop (`cn=My Desktop`). This object is created automatically when SGD is installed. By default, the object is configured to run the default desktop application available on the SGD server, for example, the Sun Java™ Desktop System. You can reconfigure this object to run any application you want, but it

works best with full-screen desktop applications. If users require different desktop applications, you can create additional My Desktop objects as required. However, users must be assigned only one My Desktop application.

Note – Users can be assigned any number of applications, but the My Desktop URL only gives users access to the My Desktop application.

The My Desktop URL is `http://server.example.com/sgd/mydesktop`, where `server.example.com` is the name of an SGD server. This URL displays the SGD Login page. Once the user has logged in, the desktop session displays and the browser can be closed.

Note – There are no controls for suspending or resuming the desktop application. Users must log out of the desktop application as normal.

Support for Roaming Profiles

Users with Microsoft Windows client devices can have roaming user profiles. Roaming user profiles provide the user with the same working environment, no matter which Microsoft Windows computer they use. If Microsoft Windows users have roaming user profiles, the SGD client profile is automatically adjusted to allow for this, as follows:

- Settings specific to the user's client device, for example the proxy server configuration, are stored on the client device.

By default, this is `homedrive\Documents and Settings\username\Local Settings\Application Data\Sun\SSGD\profile.xml`

Settings specific to the user, for example the preferred language, are stored in the location of the roaming user profile.

- Usually, this is `homedrive\Documents and Settings\username\Application Data\Sun\SSGD\profile.xml`

Note – This location also contains the user's `hostsvisited` and `certstore.pem` files.

The following settings from the SGD client profile are stored in the location of the user's roaming profile:

Client Profile Setting	Roaming Profile Entry
Login URL	<url>
Add Applications to Start Menu	<mode>
Automatic Client Login	<autologin> <AT>
Connect on System Login	<autostart>
Connection Failure	<reconnect mode> <reconnect_attempts> <reconnect_interval>

Automatic Timeout of Idle User Sessions

SGD Administrators can now configure an automatic timeout for idle user sessions.

The timeout enables user sessions to be suspended if there has been no application session or webtop activity for a specified time period. The timeout applies to all SGD servers in the array.

This timeout is only configurable from the command line. You cannot edit the timeout value using the Administration Console.

You configure the timeout with the following command:

```
$ tarantella config edit \  
--tarantella-config-array-webtopsessionidletimeout secs
```

Replace *secs* with the timeout value, measured in seconds.

A setting of 0 turns off the user session idle timeout feature. This is the default setting.

In the following example, user sessions are suspended after 1800 seconds (30 minutes) of inactivity.

```
$ tarantella config edit \  
--tarantella-config-array-webtopsessionidletimeout 1800
```

Netmask Filters for Specifying Network Addresses

You can now specify a netmask filter when setting the following attributes:

- External DNS names (`--server-dns-external`)
- Array routes (`--tarantella-config-array-netservice-proxy-routes`)

The netmask filter takes the format `v.w.x.y/z`. The previous “wildcard” type filters are still supported.

The following example uses a netmask filter to specify external Domain Name System (DNS) names.

```
$ tarantella config edit --server-dns-external \  
"192.168.55.0/24:boston.indigo-insurance.com"
```

Window Management Keys

A new Window Management Keys (`--remotewindowkeys`) attribute is available for the following object types:

- Windows application
- X application

Using this attribute, keyboard shortcuts that deal with window management can either be sent to the remote session or acted on locally. This setting is only effective for applications having a Window Type setting of Kiosk mode.

To exit Kiosk mode when this attribute is enabled, use the key sequence Alt-Ctrl-Shift-Space. This minimizes the kiosk session on the local desktop.

Support for Solaris™ 10 OS Trusted Extensions

SGD runs on Solaris 10 OS Trusted Extensions with the following known limitations:

- SGD must be installed to a labelled zone. See the *Sun Secure Global Desktop 4.5 Installation Guide* for more information about installing SGD on Solaris 10 OS Trusted Extensions.
- Client drive mapping is not supported for UNIX® platform client devices [6610354].
- Audio is not supported for UNIX platform applications [6610352].

- Integrated mode is not supported for Solaris 10 OS Trusted Extensions client platforms [6610371].
- Kiosk mode display for applications does not provide the best user experience for Solaris 10 OS Trusted Extensions client platforms [6594795].

Global Management of Passwords and Tokens

The Administration Console can be used to globally manage passwords and tokens for all users of SGD.

You can now manage passwords and tokens by user identity or by user profile. Previously, the Object Manager administration tool only supported management of passwords and tokens by user profile.

Subject Alternative Names for Server Certificates

If an SGD server has multiple DNS names, for example, it is known by different names inside and outside a firewall, you can specify the additional DNS names as *subject alternative names* when generating a Certificate Signing Request (CSR). This enables you to associate more than one DNS name with a server certificate.

The `tarantella security certrequest` command now prompts you to enter subject alternative names when generating a CSR.

The subject alternative names for a certificate can be displayed using the `tarantella security certinfo` command.

Time Zone Map File Attribute

A new Time Zone Map File attribute (`--xpe-tzmapfile`) is available.

The attribute enables you to specify a file that contains mappings between UNIX client device and Microsoft Windows application server time zone names. The attribute applies to all SGD servers in the array.

Session Directory for Windows Terminal Services

SGD version 4.40.917 and later supports Session Directory for Windows Terminal Services sessions running on Microsoft Windows Server 2003.

Session Directory can be used instead of SGD to handle session resumability for Windows applications. Session Directory is a database that keeps track of which users are running which sessions on which Windows application server.

Using Session Directory enables SGD users to reconnect automatically to their Windows session.

Changes in Version 4.50

This section describes the changes since the SGD version 4.41 release.

This section includes the following topics:

- [“Changes to Supported Platforms” on page 14](#)
- [“Changes to SGD Web Server Component Versions” on page 15](#)
- [“JDK Version Change” on page 15](#)
- [“Option to Resume Printing from My Desktop” on page 16](#)
- [“Changes to the `tarantella security enable` Command” on page 16](#)
- [“Web Services Changes” on page 16](#)
- [“Kiosk Mode Escape Attribute” on page 17](#)
- [“Support for Evince Document Viewer” on page 17](#)
- [“New `-remoteaudio` Option For SGD Terminal Services Client” on page 17](#)
- [“Administration Console Configuration Parameter for DNS Lookups” on page 18](#)

Changes to Supported Platforms

The supported platforms for SGD have changed, as follows:

- **SGD servers.** OpenSolaris™ 2008.11 or later is now supported as an SGD server installation platform. The following platforms are no longer supported:
 - Solaris OS 8
 - Solaris OS 9
 - Red Hat Enterprise Linux 4
 - Fedora Linux 8
 - SUSE Linux Enterprise Server 9
- **SGD Enhancement Module.** OpenSolaris 2008.11 or later is now supported as an installation platform for the SGD Enhancement Module. The following platforms are no longer supported:

- Windows 2000 Server
- Red Hat Enterprise Linux 4
- Fedora Linux 8
- SUSE Linux Enterprise Server 9
- SUSE Linux Enterprise Server 10
- **Client platforms.** The Internet Explorer 8 browser is supported for this release. OpenSolaris 2008.11 or later is now a supported client platform. The following platforms are no longer supported:
 - Solaris 8 OS
 - Solaris 9 OS
 - Microsoft Windows 2000 Professional
 - Fedora Linux 8
 - SUSE Linux Enterprise Desktop 10
 - Mac OS X 10.4

See the *Sun Secure Global Desktop 4.5 Installation Guide* for more information about supported platforms for this release.

Changes to SGD Web Server Component Versions

The SGD web server now uses version 6 of Tomcat. Version information for the components of the SGD web server are shown in the following table.

Component	Version
Apache HTTP Server	2.2.10
OpenSSL	0.9.8k
mod_jk	1.2.27
Apache Jakarta Tomcat	6.0.18
Apache Axis	1.4

JDK Version Change

The SGD installation now includes JDK™ version 1.6.0_13.

Option to Resume Printing from My Desktop

If a user logs in to My Desktop and they have paused print jobs, a message now displays in the browser window which enables the user to resume printing.

Changes to the `tarantella security enable` Command

The `tarantella security enable` command now includes a `--firewalltraversal` option. This option enables you to choose whether or not to enable firewall traversal when you secure an SGD server.

If you do not specify this option, firewall traversal is enabled by default.

Note – SGD servers configured for firewall traversal cannot be used with the SGD Gateway.

The following example secures the SGD server using the specified SSL certificate and private key. Firewall traversal is not enabled for the SGD server.

```
# tarantella security enable \  
--certfile /opt/certs/cert \  
--keyfile /opt/keys/key \  
--firewalltraversal off
```

See the *Sun Secure Global Desktop 4.5 Administration Guide* for more detailed information about this command option.

Web Services Changes

The `ITarantellaWebtopSession` web service includes a new operation, `endMultiViewSession`.

The `endMultiViewSession` operation ends a user session and logs out the user. All views of the user session are ended.

Note – A *view* of a user session is created when you join an existing user session. For example, when you log in to the Administration Console and the SGD webtop from the same client device.

You use the `endMultiViewSession` operation as follows:

```
endMultiViewSession(sessionCookie);
```

where `sessionCookie` is the user session cookie.

Kiosk Mode Escape Attribute

For Windows applications and X applications running in kiosk mode, the Kiosk Mode Escape (`--allowkioskescape`) attribute for enabling a pull-down header is now configurable using the Administration Console. The attribute is available on the Presentation tab for the application object.

In previous releases, this attribute was only configurable from the command line.

Support for Evince Document Viewer

Evince Document Viewer is now supported for PDF printing on Linux client platforms.

New `-remoteaudio` Option For SGD Terminal Services Client

In this release, a new option (`-remoteaudio`) has been introduced for the SGD Terminal Services Client. The SGD Terminal Services Client, also known as `ttatssc`, is a client program that handles the connection between the SGD server and a Windows Terminal Server.

The `-remoteaudio` option configures whether audio is sent from the terminal server. Using this option has the same effect as the "Leave at remote computer" sound setting for a Microsoft Windows Remote Desktop connection.

For example, to leave audio at the remote server for a Windows XP desktop session, configure the Arguments for Protocol (`--protoargs`) attribute of the Windows application object as follows.

```
-console -remoteaudio
```

Note – The `-console` option is not required if the application server platform supports at least Remote Desktop Protocol (RDP) version 6.

Administration Console Configuration Parameter for DNS Lookups

In this release, a new deployment descriptor parameter has been introduced to configure the class of DNS lookups used by the Administration Console.

By default, SGD uses a query class of ANY for DNS lookups. Some firewall configurations might block this class of DNS lookups. This can lead to problems, for example when configuring Active Directory authentication using the Administration Console.

To configure the Administration Console to use a query class of IN for all DNS lookups, edit the deployment descriptor for the Administration Console web application. The deployment descriptor is the following file:
`/opt/tarantella/webserver/tomcat/version/sgdadmin/WEB-INF/web.xml`

In this file, set the `sgd.naming.dns.in_class_only` parameter to `true`.

```
<context-param>
  <param-name>sgd.naming.dns.in_class_only</param-name>
  <param-value>true</param-value>
</context-param>
```

Restart the SGD server to enable any changes you make to the `web.xml` file.

Changes in Version 4.41

This section describes the changes since the SGD version 4.40 release.

This section includes the following topics:

- [“Changes to Supported Platforms” on page 19](#)
- [“SGD Server Command-Line Changes” on page 19](#)
- [“Changes to SGD Web Server Component Versions” on page 20](#)
- [“JDK Version Change” on page 20](#)
- [“My Desktop Link” on page 20](#)
- [“Changes to `tarantella security start` and `tarantella security stop` Commands” on page 21](#)
- [“Changes to `tarantella status` Command” on page 21](#)
- [“Enabling Secure Intra-Array Communications” on page 21](#)
- [“Replacing an SGD Server Certificate” on page 21](#)

- “Performance Improvements for `tarantella array` Commands” on page 22

Changes to Supported Platforms

The supported platforms for SGD have changed, as follows:

- **SGD servers.** Fedora Linux 8 is now supported as an SGD server installation platform. Fedora Linux 7 is not supported in this release.
- **SGD Enhancement Module.** Fedora Linux 8 and Windows Server 2008 are now supported as installation platforms for the SGD Enhancement Module. Fedora Linux 7 is not supported in this release.
- **Client platforms.** Fedora Linux 8 and Red Hat Desktop version 5 are now supported client platforms. Fedora Linux 7 and Red Hat Desktop version 4 are not supported in this release. The Mozilla 1.5 browser is not supported for this release.

SGD Server Command-Line Changes

The commands used to control the SGD server and the SGD web server have been changed.

The following commands for stopping, starting, and restarting the SGD web server have been deprecated:

- `tarantella webserver start`
- `tarantella webserver stop`
- `tarantella webserver restart`

These commands are now implemented as subcommands for the `tarantella start`, `tarantella stop`, and `tarantella restart` commands.

In previous releases, the `tarantella start`, `tarantella stop`, and `tarantella restart` commands controlled the SGD server. By default, these commands now control the SGD server *and* the SGD web server.

New subcommands to the `tarantella start`, `tarantella stop`, and `tarantella restart` commands enable you to choose to start, stop, or restart either the SGD server or one or more components of the SGD web server.

The following table summarises the main command-line changes.

Command in Version 4.40	Command in Version 4.41
<code>tarantella webserver start</code>	<code>tarantella start webserver</code>
<code>tarantella webserver stop</code>	<code>tarantella stop webserver</code>
<code>tarantella webserver restart</code>	<code>tarantella restart webserver</code>
<code>tarantella start</code>	<code>tarantella start sgd</code>
<code>tarantella stop</code>	<code>tarantella stop sgd</code>
<code>tarantella restart</code>	<code>tarantella restart sgd</code>

See the *Sun Secure Global Desktop 4.5 Administration Guide* for more detailed information about the revised commands.

Changes to SGD Web Server Component Versions

The SGD web server now uses version 2 of Apache. Version information for the components of the SGD web server are shown in the following table.

Component	Version
Apache HTTP Server	2.2.8
OpenSSL	0.9.8g
mod_jk	1.2.25
Apache Jakarta Tomcat	5.0.28
Apache Axis	1.2

JDK Version Change

The SGD installation now includes JDK version 1.6.0_05.

My Desktop Link

The SGD web server Welcome page now includes a My Desktop link. The SGD web server Welcome page is at `http://server.example.com`, where `server.example.com` is the name of an SGD server.

The My Desktop link enables users to log in and display a full-screen desktop, without displaying a webtop. See “[The My Desktop URL](#)” on page 9 for more details.

Using the My Desktop link is an alternative to specifying the My Desktop URL. The My Desktop URL is `http://server.example.com/sgd/mydesktop`.

Changes to `tarantella security start` and `tarantella security stop` Commands

The `--array` and `--server` options have been deprecated for the `tarantella security start` and `tarantella security stop` commands.

This means that the `tarantella security start` and `tarantella security stop` commands can only be used to configure security for the SGD server on which the command is run.

Changes to `tarantella status` Command

If there are problems with the array, the `tarantella status` command now returns more detailed information about the array configuration. This information can be used to diagnose and fix array problems.

Enabling Secure Intra-Array Communications

In previous releases, enabling secure intra-array communications for an array was done by running a `tarantella array join` command on the secondary SGD server joining the array.

In the SGD 4.41 release, if you are using secure intra-array communication, the `tarantella array join` command must be run from the primary SGD server in the array.

Replacing an SGD Server Certificate

In the SGD 4.41 release, you can generate a new CSR without affecting your current SGD server certificate.

This enables you to replace an SGD server certificate, for example because the original certificate is about to expire.

When you use the `tarantella security certrequest` command to generate a CSR, the private key is now stored in the `/opt/tarantella/var/tsp/key.pending.pem` file.

Performance Improvements for `tarantella array` Commands

The performance of the `tarantella array` commands has been improved. Configuring arrays of SGD servers is now a quicker process, compared to previous releases.

Changes in Version 4.40

This section describes the changes since the SGD version 4.31 release.

This section includes the following topics:

- “Retirement of Classic Clients” on page 23
- “Login and Authentication Sequence” on page 23
- “Server Certificates and Multiple External DNS Names” on page 23
- “Web Services Changes” on page 23
- “Flushing the Kerberos Cache” on page 27
- “`tem status` Command” on page 27
- “SGD Client Does Not Assume Java Technology by Default” on page 27
- “SGD Client Logs Client Device Information” on page 28
- “Renamed Command Line Arguments” on page 28
- “Windows NT Domain Attribute” on page 28
- “PDF Printers Renamed” on page 29
- “Window Closure Warning” on page 29
- “SOCKS Proxy Removed From Client Profile” on page 29
- “Administration Tools Removed From The Administrator Webtop” on page 29
- “Login Script Changes” on page 30
- “Enabling Input Methods for Locales” on page 30
- “SGD Client Termination Timeouts” on page 30

Retirement of Classic Clients

SGD version 4.31 was the last release to contain the Java technology clients, the SGD Native Clients and the classic webtop. The 4.40 release does not contain these clients.

As a result of this change, for this release of SGD, you cannot configure applications to display in a browser window. The `webtop` and `newbrowser` options for the Window Type attribute (`--displayusing`) have been removed.

Login and Authentication Sequence

As a security measure to prevent denial-of-service attacks, the sequence of events when you log in to SGD has changed, as follows:

- In SGD version 4.31, the SGD Client was started *before* the login screen was shown.
- For SGD version 4.40, the SGD Client is not started until *after* the user successfully authenticates at the login screen.

Start up of the SGD Client is indicated by an icon in the desktop task bar. See the *Sun Secure Global Desktop 4.5 Installation Guide* for more details about logging in to SGD.

You can no longer deny a connection to SGD based on the client's Internet Protocol (IP) address.

Server Certificates and Multiple External DNS Names

In previous releases, the `--tarantella-config-ssldaemon-certificates` attribute was used to associate an X.509 certificate with an external DNS name for an SGD server.

This attribute is no longer supported. In this release, you can specify external DNS names as subject alternative names when you generate a CSR.

See [“Subject Alternative Names for Server Certificates”](#) on page 13 for more details.

Web Services Changes

The following web services changes have been implemented for this release:

- Authentication model changes

- Renaming of methods
- New web service operations
- Document/Literal SOAP message encoding
- Querying device data

Authentication Model Changes

In the 4.31 release, the `startSession` and the `authenticateSession` methods were used to authenticate a user session.

For the 4.40 release, creating and authenticating a user session have been combined into a single method, `authenticate`.

The `startSession` and `authenticateSession` methods are not available for the 4.40 release.

Renaming of Methods

Some overloaded methods were present in the 4.31 release. These methods were distinguished by the number and type of their parameters. All such overloaded methods have been renamed for the 4.40 release. Additionally, the mandatory parameters for the `setSessionIdentity` method have changed for the 4.40 release.

The following table lists the method name changes for this release.

Interface Name	Method Name in Version 4.31	Method Name in Version 4.40
ITarantellaDatastore	<code>modify(String, String, String[])</code>	<code>modifyReplace (String, String, String[])</code>
ITarantellaEvent	<code>adminSendClientSideMessage (String, String, String, String, String)</code>	<code>adminBroadcastClientSideMessage (String, String, String, String, String)</code>
ITarantellaExternalAuth	<code>setSessionIdentity (String, String)</code>	<code>setSessionIdentity (String, String, String)</code>
ITarantellaPrint	<code>printJobs (String)</code>	<code>printAllJobs (String)</code>
ITarantellaWebtopSession	<code>authenticateSession (String, String, String)</code>	<code>authenticate (String, String, String, String)</code>

Interface Name	Method Name in Version 4.31	Method Name in Version 4.40
ITarantellaWebtopSession	authenticateSession(String, String, String, Item[], Item[])	authenticateExt(String, String, String, String, String, Item[], Item[])
ITarantellaWebtopSession	setTCCCConfiguration(String, String, String, String, String, Item[])	setTCCCConfigurationOverrides(String, String, String, String, String, Item[])
ITarantellaWebtopSession	startSession(*)	No equivalent

New Web Service Operations

The following table lists the new web service operations.

Interface Name	Method Name	Description
ITarantellaDatastore	deleteObjects	Delete several objects from the SGD datastore.
	searchEnd	Release server resources for a given search.
	searchNext	Retrieve the next subset of search results.
	searchStart	Start a datastore search, returning a subset of results.
ITarantellaEmulatorSession	adminCount	Count the number of matching application sessions a search would return.
	adminSearchEnd	Release server resources for a given search.
	adminSearchNext	Retrieve the next subset of search results.
	adminSearchStart	Start a search, returning a subset of results.
	endSessions	End multiple application sessions.

Interface Name	Method Name	Description
ITarantellaPrint	adminCount	Count the number of matching print jobs a search would return.
	adminSearchEnd	Release server resources for a given search.
	adminSearchNext	Retrieve the next subset of search results.
	adminSearchStart	Start a search, returning a subset of results.
ITarantellaWebtopSession	associateTCC	Associate a user session with an existing SGD Client connection.
	authenticate	Authenticate a user session.
	authenticateExt	Authenticate a user session.
	createView	Create a new view of an existing user session.
	adminEndSessions	End multiple user sessions.
	adminCount	Count the number of matching user sessions a search would return.
	adminSearchEnd	Release server resources for a given search.
	adminSearchNext	Retrieve the next subset of search results.
	adminSearchStart	Start a search, returning a subset of results.
	ITarantellaUtility	searchEnd
searchNext		Retrieve the next subset of search results.
searchStart		Start a search, returning a subset of results.

Document/Literal SOAP Message Encoding

The SOAP message encoding format used for SGD web services has changed from RPC/Encoded to Document/Literal.

To list the SGD web services, go to <http://server.example.com/axis/services>, where *server.example.com* is the name of an SGD server. Click on the wsdl link to see the Web Services Description Language (WSDL) listing for an SGD web service.

The WSDL listings for the RPC/Encoded versions of the web services are still included on this page. Do not use the RPC/Encoded versions for developing your own applications. These versions of the web services will be deprecated in future releases.

Querying Device Data

The `adminLookupSession` operation now returns device information. You can use this operation to query the `--scottarawdevicedata` and `--scottadeviceaccessibledata` device data attributes.

The returned device information can be used as a diagnostic tool.

Flushing the Kerberos Cache

A new setting for the `tarantella cache` command enables you to refresh the current Kerberos configuration settings for an SGD server.

The new option, `krb5config`, is used as follows:

```
$ tarantella cache --flush krb5config
```

This setting enables you to update the Kerberos configuration for an SGD server without having to restart the server. This feature is used for Active Directory authentication only.

tem status Command

For users of the SGD Enhancement Module, a new command is available.

The `tem status` command provides status information for load balancing, UNIX platform audio, and client drive mapping services for the SGD array. The command lists the installed modules and indicates whether they are running or not.

SGD Client Does Not Assume Java Technology by Default

The SGD Client can be started from the command line using the `tcc` command on Microsoft Windows client platforms, or the `ttatcc` command on UNIX, Linux, or Mac OS X client platforms.

In this release, by default, when you start the SGD Client from the command line or in Integrated mode, the SGD Client assumes that the client device does not have Java technology enabled. A new `-use-java` argument for the `tcc` and `ttatcc` commands configures the SGD Client to use Java technology.

In previous releases, by default, the SGD Client assumed Java technology was enabled. A `-no-java` argument for the `tcc` and `ttatcc` commands was available to override this behavior. This argument has now been deprecated.

The available arguments for the `tcc` and `ttatcc` commands are described in the *Sun Secure Global Desktop 4.5 Administration Guide*.

SGD Client Logs Client Device Information

The SGD Client now logs information on client devices. Device access data and error messages are logged for printing, serial port, client drive mapping, audio, and smart card devices.

The client device information is written to the SGD Client log file and is displayed on the Detailed Diagnostics page of the webtop.

Renamed Command Line Arguments

Several attributes have been renamed to give shorter attribute names. This prevents errors when typing these attributes on the command line. The following table lists the attribute names that have been renamed.

Attribute Name in Version 4.31	Attribute Name in Version 4.40
--tarantella-config-login-thirdparty-searchens	--login-thirdparty-ens
--tarantella-config-login-thirdparty-allownonens	--login-thirdparty-nonens
--tarantella-config-ldap-thirdpartyldapcandidate-us eens	--login-ldap-thirdparty-ens
--tarantella-config-ldap-thirdpartyldapcandidate-us eprofile	--login-ldap-thirdparty-profile
--tarantella-config-xpeconfig-timezonemapfile	--xpe-tzmapfile

Windows NT Domain Attribute

The Windows NT Domain attribute has been renamed to Domain Name. This attribute specifies the domain to use for the application server authentication process.

The following objects have this attribute:

- Application server
- Windows application
- User profile

PDF Printers Renamed

The names of the SGD PDF printers have changed as shown in the following table.

Printer Name in Release 4.31	Printer Name in Release 4.40
Universal PDF	Universal PDF Printer
Print to Local PDF File	Universal PDF Viewer

Window Closure Warning

For application objects configured with a Window Type setting of Independent Window, a warning dialog is now shown when the application window is closed. The dialog prompts you to confirm that you want to end the application session.

SOCKS Proxy Removed From Client Profile

You can no longer configure SOCKS proxy servers using the SGD Client profile.

You can still configure SOCKS proxy servers using the array routing feature. Use the following command:

```
$ tarantella config edit \  
--tarantella-config-array-netservice-proxy-routes \  
"192.168.10.*:CTSOCKS:taurus.indigo-insurance.com:8080"
```

With this configuration, clients with IP addresses beginning 192.168.10 connect using the SOCKS proxy server `taurus.indigo-insurance.com` on TCP port 8080.

Administration Tools Removed From The Administrator Webtop

The Object Manager, Array Manager, Session Manager, and Configuration Wizard administration tools are no longer displayed on the Administrator's webtop. These administration tools have been replaced by a browser-based administration tool called the Administration Console. See ["SGD Administration Console" on page 8](#) for more details.

The Configuration Wizard is still included in the SGD distribution, as an example web application. To display the Configuration Wizard, go to `http://server.example.com/sgd/admin/configmgr/index.jsp`, where `server.example.com` is the name of an SGD server.

Session Manager is still included in the SGD distribution, as an example web application. To display Session Manager, go to `http://server.example.com/sgd/admin/sessmgr/index.jsp`, where `server.example.com` is the name of an SGD server.

Login Script Changes

The login scripts in the `/opt/tarantella/var/serverresources/expect` directory have been rationalized. Some scripts have been renamed and others have been merged.

If you are using SecurID for application server authentication, objects now use the `securid.exp` script, rather than the `securid/unix.exp` script. For backward compatibility, a symbolic link now exists from `securid/unix.exp` to the new `securid.exp` script.

Enabling Input Methods for Locales

An input method (IM) is a program or operating system component that enables users to enter characters and symbols not found on their keyboard. On Microsoft Windows platforms, an IM is called an input method editor (IME).

When running applications, SGD enables an IM if either the `TTA_PREFERREDLOCALE`, `TTA_HOSTLOCALE`, or the `LANG` (from the application environment overrides) environment variables are set to a locale that requires an IM. The locales that require an IM are controlled by the `IM_localeList` variable, which is defined in the `vars.exp` login script.

By default, an IM is enabled for all Japanese, Korean, and Chinese locales. To enable an IM in other locales, you must edit `vars.exp` and add the locale to the `IM_localeList` variable.

SGD Client Termination Timeouts

If an application is terminated because the SGD Client exits unexpectedly, an additional value of 20 minutes is added to the following timeouts:

- **Timeout for User Session Resumability** – For applications configured to be resumable during the user session
- **Timeout for General Resumability** – For applications configured to be generally resumable

Support Statements, Known Issues, Bug Fixes, and Documentation Issues

This chapter contains support information for SGD.

Topics in this chapter include the following:

- “End-Of-Support Statements” on page 33
- “Known Bugs and Issues” on page 35
- “Bug Fixes in Version 4.50” on page 52
- “Bug Fixes in Version 4.41” on page 60
- “Bug Fixes in Version 4.40” on page 65
- “Documentation Issues in Version 4.50” on page 67

End-Of-Support Statements

The following table lists the end-of-support dates for SGD products.

Software and Version	End of Full Support	End of Limited Support	End of Service Life
Sun Secure Global Desktop Software 4.41	November 12, 2010	November 12, 2014	November 12, 2014
Sun Secure Global Desktop Software 4.40	February 3, 2010	February 3, 2014	February 3, 2014
Sun Secure Global Desktop Software 4.31	May 19, 2009	May 19, 2013	May 19, 2013
Sun Secure Global Desktop Software 4.3	April 29, 2009	April 29, 2013	April 29, 2013
Sun Secure Global Desktop Software 4.2	November 8, 2008	November 8, 2012	November 8, 2012

For details of the Sun End of Service Life (EOSL) Policy, see (<http://www.sun.com/service/eosl/>).

Customers with a valid support agreement can upgrade to the latest version of SGD free of charge.

Changes to Supported Platforms for The Next Release

Changes to the supported platforms for the release following SGD version 4.50 are as follows:

- **SGD servers.** The following table lists the supported installation platforms for the next release.

Operating System	Supported Versions
Solaris™ Operating System (Solaris OS) on SPARC® platforms	10, 10 Trusted Extensions
Solaris OS on x86 platforms	10, 10 Trusted Extensions
OpenSolaris™ on x86 platforms	2008.11
Red Hat Enterprise Linux (Intel® x86 32-bit and Intel x86 64-bit)	5
SUSE Linux Enterprise Server (Intel x86 32-bit and Intel x86 64-bit)	10

- **SGD Enhancement Module.** The following table lists the supported installation platforms for the SGD Enhancement Module in the next release.

Operating System	Supported Versions
Microsoft Windows (Intel x86 32-bit and Intel x86 64-bit)	Windows Server 2008 Windows Server 2003 Microsoft Windows XP Professional Microsoft Windows Vista Business Microsoft Windows Vista Ultimate
Solaris OS on SPARC platforms	8, 9, 10, 10 Trusted Extensions
Solaris OS on x86 platforms	10, 10 Trusted Extensions
OpenSolaris on x86 platforms	Latest version
Red Hat Enterprise Linux (Intel x86 32-bit)	5

- **Client platforms.** The Mozilla Firefox 2 and Safari 2 browsers are not supported for this release.

Java™ Plugin tool version 1.5.0 is not supported for this release.

The following table lists the supported client platforms for the SGD Client in the next release. Also included are the supported browsers.

Supported Client Platform	Supported Browsers
Microsoft Windows Vista	Internet Explorer 8 Internet Explorer 7 Internet Explorer 6 Mozilla Firefox 3
Microsoft Windows XP Professional	Internet Explorer 8 Internet Explorer 7 Internet Explorer 6 Mozilla Firefox 3
OpenSolaris on x86 platforms (latest version)	Mozilla Firefox 3
Solaris 10 OS on SPARC platforms	Mozilla Firefox 3
Solaris 10 OS on x86 platforms	Mozilla Firefox 3
Solaris 10 OS Trusted Extensions on x86 platforms	Mozilla Firefox 3
Mac OS X 10.5 (latest version)	Safari 3 Mozilla Firefox 3
Red Hat Desktop (latest version)	Mozilla Firefox 3
Ubuntu (latest version)	Mozilla Firefox 3

Known Bugs and Issues

This section lists the known bugs and issues with SGD version 4.50.

602423 - Return Key and Keypad Enter Key Issues

Problem: SGD X and character emulators cannot distinguish between the Return key and the keypad Enter key on the user's client keyboard.

Cause: A known issue.

Solution: By default, the SGD Client maps the keypad Enter key to Return in both X and character application sessions. With additional configuration, this behavior can be changed.

To change the behavior of the keypad Enter key in a *character application* session, you need to set up a keymap for your character application object (`--keymap`) and add a mapping for `KPENTER`, for example:

```
KPENTER="hello"
```

To change the behavior of the keypad Enter key in a *Windows or X application* session, you need to modify your X keymap, for example `xuniversal.txt`, and add a mapping for the `KP_Enter` key, for example:

```
92 KP_Enter KP_Enter NoSymbol NoSymbol 0x801c
```



Caution – The X keymap is a global user resource, so all applications for that user might be affected by this change. If any of these applications do not handle `KP_Enter`, then you might need to consult your X or Windows application vendor for assistance.

6443840 - Automatic Proxy Server Configuration Scripts Fail

Problem: Proxy server automatic configuration scripts can specify a list of proxy servers to try. If the first proxy server in the list is unavailable, the browser tries the other proxy servers in turn until it finds one that is available.

If you are using Microsoft Internet Explorer with Java Plugin tool version 1.5.0, only the first proxy server in the list is used. If that proxy server is not available, the connection fails.

Cause: A known issue.

Solution: Use Java Plugin tool version 1.6.0.

6456278 - Integrated Mode Does Not Work for the Root User

Problem: On Solaris 10 x86 platforms, enabling Integrated mode when you are logged in as the `root` user does not add applications to the Solaris 10 Launch menu. You might also see the following warning:

```
gnome-vfs-modules-WARNING **: Error writing vfolder configuration
file "//.gnome2/vfolders/applications.vfolder-info": File not found.
```

Cause: A known issue with the Gnome Virtual File System (VFS).

Solution: No solution is currently available.

6458111 - Gnome Main Menu Crashes Using Integrated Mode

Problem: On client devices running SUSE Linux Enterprise Server 10, the Gnome Main Menu crashes when using the SGD Client in Integrated mode. The crash usually occurs on login or logout.

Cause: A known problem with the Gnome Main Menu applet on SUSE Linux Enterprise Server 10 (Novell bug reference 186555).

Solution: Install the latest version of the `gnome-main-menu.rpm` package for SUSE Linux Enterprise Server 10.

Alternatively, disabling the Recently Used Applications functionality improves the stability of the Gnome Main Menu. Run the following commands on the client device:

```
$ gconftool-2 --set --type=list --list-type=int \  
/desktop/gnome/applications/main-menu/lock-down/showable_file_types [0,2]  
$ pkill main-menu  
$ pkill application-browser
```

6461864 and 6476661 - Automatic Login and Integrated Mode Fails With the Gnome Desktop

Problem: After enabling Automatic Client Login or Integrated mode, the SGD Client does not start automatically when you log in to the Gnome Desktop and the Start menu is not updated with webtop content when you log in to SGD. This problem affects SUSE Linux Enterprise Server 9 and Red Hat Enterprise Linux 4.

Cause: The directories containing the `.menu` files are not monitored and so changes to the Start menu are not detected.

Solution: The workaround is run the `pkill gnome-panel` command to restart the `gnome-panel` and pick up new menu information.

Note – You must run the `pkill gnome-panel` command to update the menu *each time* the menu changes.

6476194 - No KDE Desktop Menu Item for the SGD Client

Problem: Shortcuts for the SGD Client do not display on the KDE Desktop Menu on SUSE Linux Enterprise Server 10.

Cause: SUSE-specific configuration of the KDE menu system means that if a menu contains only one application entry, then that single application is used in the main menu instead of the menu. If menu entry is a sub-menu, the sub-menu does not display at all. This causes the Login menu for the SGD Client in Integrated mode not to display.

Solution: The workaround is to add the following line to the [menus] section of the \$HOME/.kde/share/config/kickerrc file:

```
ReduceMenuDepth=false
```

Then run the following command for the KDE panel to immediately pick up the changes:

```
# dcop kicker kicker restart
```

All subsequent KDE sessions automatically use this setting.

6481312 - Upgrading Resets the Available Connection Types

Problem: After upgrading to version 4.40, a server that was configured to accept only secure connections now accepts standard and secure connections.

Cause: A known issue.

Solution: Reconfigure the server to accept only secure connections. In the Administration Console, display the Secure Global Desktop Servers → Security tab for the SGD server and deselect the Standard check box in the Connection Types field. Alternatively, run the following command:

```
$ tarantella config edit --security-connectiontypes ssl
```

6482912 - SGD Client Not Installed Automatically

Problem: Using Internet Explorer 7 on Microsoft Windows Vista platforms, the SGD Client cannot be downloaded and installed automatically. The SGD Client can be installed manually and can be installed automatically using another browser, such as Firefox.

Cause: Internet Explorer has a Protected Mode that prevents the SGD Client from downloading and installing automatically.

Solution: Add the SGD server to the list of Trusted Sites in Internet Explorer's Security Settings.

6493374 - Non-ASCII Characters in Input Method Windows

Problem: Users in Simplified Chinese and Traditional Chinese locales cannot display non-ASCII characters in the candidate and status windows of the input method when running applications on a Solaris OS application server. This affects Solaris 8 OS, 9 OS, 10 OS, and 10 OS update 1 platforms.

Cause: Missing font path configuration on the SGD server.

Solution: If the application server is running on Solaris 10 OS or Solaris 10 OS update 1, do one of the following:

- For SPARC platforms, install patches 120410, 120412, and 120414.
- For x86 platforms, install patches 120411, 120413, and 12041.
- Upgrade to Solaris 10 OS update 2 or higher.

If the application server is running on Solaris 8 OS or Solaris 9 OS, do one of the following:

- **Simplified Chinese.** Set Environment Variables as “LANG=zh;LC_ALL=zh” in the Applications → Launch tab of the Administration Console.
- **Traditional Chinese.** Set Environment Variables as “LANG=zh_TW;LC_ALL=zh_TW” in the Applications → Launch tab of the Administration Console.

6503530 – No Launch Menu Entries on Sun Java™ Desktop System

Problem: On Sun Java Desktop System (Java Desktop System), users might find that Launch menu entries are not created for SGD when they enable Integrated mode. The Launch menu entries are added when they log out of their desktop and log in again.

Cause: A known issue with the Gnome panel.

Solution: The solution is to install the following patches:

- 119906 for Solaris OS on SPARC technology platforms
- 119907 for Solaris OS on x86 platforms

These patches are included in the Solaris 10 OS update 5 release.

The workaround is to log out of the desktop and log in again.

6555834 – Java™ Technology is Enabled For Browser But Is Not Installed On Client Device

Problem: If Java technology is enabled in your browser settings, but a Java Plugin tool is not installed on the client device, the SGD webtop does not display. The login process halts at the splash screen.

Cause: SGD uses the browser settings to determine whether to use Java technology.

Solution: Install the Java Plugin tool and create a symbolic link from the browser plug-ins directory to the location of the Java™ Virtual Machine (JVM™) software. Refer to your browser documentation for more information.

6592560 – Administration Console Online Help Not Available Over HTTPS

Problem: The online help for the Administration Console is disabled when Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS) connections to the SGD web server are enabled.

Cause: The Administration Console uses the JavaHelp™ software to display the online help. Additional configuration is required to run JavaHelp over an HTTPS connection.

Solution: Import the CA certificate used to sign the certificate for the SGD web server into the JDK™ software keystore. Use the Java software `keytool` application as follows:

```
$ keytool -import \  
-keystore /opt/tarantella/bin/jdk-version/jre/lib/security/cacerts \  
-storepass changeit -file /opt/tarantella/var/tsp/ca.pem
```

Where *changeit* is the password for the keystore and *jdk-version* is the version of the JDK installed on the SGD server.

If you have more than one certificate in your `ca.pem` file, separate each certificate and add them individually.

6598048 – French Canadian Keyboard Not Mapped Correctly for Windows Applications

Problem: When using a Canadian French (legacy) keyboard layout with Windows applications, some French characters are printed incorrectly.

Cause: A known issue with Canadian French (legacy) keyboard layouts.

Solution: No known solution. A compatible keymap file is not supplied with SGD at present.

6611502 – Errors When Creating and Modifying Objects From a Secondary Server

Problem: Creating or modifying objects when running the Administration Console on a secondary SGD server returns the following error message: “Object could not be created”.

Cause: The creation or modification of the object is successful, but the Administration Console proceeds before the replicated data has come back from the primary server.

Solution: Wait for a couple of seconds and then repeat the operation.

6616290 – Integrated Mode Issues When Using the SGD Load-Balancing JSP™ Technology Page

Problem: Integrated mode does not work correctly for arrays where the SGD load-balancing JavaServer Pages™ (JSP) technology page is being used. The SGD load-balancing JSP, `swcd.jsp`, is used for load balancing of user sessions.

Cause: A known problem.

Solution: No known solution at present. Do not run the SGD Client in Integrated mode when using the load-balancing JSP technology page.

6631991 – High CPU Usage When Using the SGD Enhancement Module

Problem: High Central Processing Unit (CPU) usage can be reported when using the SGD Enhancement Module on a Microsoft Windows application server. Processes with high CPU usage can include `ttaswm.exe` and `ttatdm.exe`.

Cause: A known issue.

Solution: No known solution.

6634243 – Microsoft Windows Vista Applications Limited to 16-Bit Color Depth

Problem: For full-screen Microsoft Windows Vista desktop sessions, the display color depth on the client device is limited to 16-bit.

Cause: A known issue when using SGD to display Microsoft Windows Vista desktop sessions.

Solution: No known solution.

6654307 – Slow Log In When Using Active Directory Authentication

Problem: Log in to SGD can be slow when using the Active Directory authentication mechanism in large Active Directory domains.

Cause: A known issue. The SGD Active Directory authentication mechanism does not always use the nearest domain controller when looking up users.

Solution: No known solution at present.

6665330 – Font Errors When Starting VirtualBox™ Software From a Java Desktop System Session Displayed Using MyDesktop

Problem: On Solaris 10 OS, font errors are reported and there are display problems when starting the VirtualBox software from a Java Desktop System desktop session that is displayed using MyDesktop. The problem is seen when using `xsession.jds` as the Application Command for the MyDesktop application object.

Cause: Unavailable fonts on the SGD X server.

Solution: When starting the VirtualBox software from the Java Desktop System desktop session, use the `-fn` option to specify valid fonts. Alternatively, install the missing fonts on the SGD server. See the *Sun Secure Global Desktop 4.5 Administration Guide* for more details about using fonts with SGD.

6702234 – tarantella security start Command Errors When SGD Server is Stopped

Problem: If an SGD server is stopped, error messages are returned when starting security services using the `tarantella security start` command.

Cause: The `tarantella security start` command is unavailable if the SGD server is not running.

Solution: Start the SGD server first, before using the `tarantella security start` command.

6711001 – SGD Server Will Not Start

Problem: SGD server will not start.

Cause: No available disk space on the SGD server.

Solution: Before starting the SGD server, ensure that sufficient disk space is available. The minimum disk space requirements are listed in the *Sun Secure Global Desktop 4.5 Installation Guide*.

6711479 – Audio Unavailable on Linux Platform Client Devices

Problem: SGD audio is not available when using a Linux platform client device.

Cause: The Enlightened Sound Daemon (ESD) is not running on the client device. ESD is usually started when the client device desktop session is started. Otherwise, the daemon must be autospawned by the ESD library on request.

Solution: Ensure that autospawning is enabled in the ESD configuration file. On most Linux platform client devices, this file is at `/etc/esd.conf`. For Ubuntu client devices, this file is at `/etc/esound/esd.conf`. The correct setting to make is `auto_spawn=1`.

6726403 – Active Directory Authentication Fails With SSL Connections to Microsoft Windows Server 2008

Problem: When using Active Directory authentication, users cannot log in to SGD if SGD is configured to use SSL (Secure Sockets Layer) connections without client certificates to Microsoft Windows Server 2008.

Cause: A known issue.

Solution: The workaround is either to use client certificates with SSL connections, or to use the Kerberos protocol, to secure the connection to Microsoft Windows Server 2008.

6734004 – Issues With Extended Characters in User Names

Problem: Some user sessions end suddenly, about 12 minutes after logging in.

Cause: A known issue if the SGD user name contains extended characters, such as the Portuguese character ç or the German character ü, and the LANG locale environment variable on the SGD server is either set to C or is unset.

Solution: The workaround is to set the `LANG` environment variable for the SGD server to use UTF-8 encoding. Then restart services on the SGD server. For example:

```
# set LANG=pt_BR.UTF-8
# /opt/tarantella/bin/tarantella restart
```

6744107 – Applications Fail to Start When Using SSL Connections

Problem: Users cannot start applications when using a secure SSL connection to SGD.

Cause: The SGD server is not forwarding connections from the external network interface of the SGD server to the localhost loopback network interface on the SGD server.

Solution: Ensure that the external bind address entry in the `/opt/tarantella/var/serverconfig/local/nic.properties` file on the SGD server contains a `*`. For example:

```
tarantella.config.edit.bindaddresses.external=*,www.example.com
```

where `www.example.com` is the external DNS name of the SGD server.

By default, the external bind address entry for an SGD server contains a `*`.

6756705 – SGD Client Does Not Run on OpenSolaris Client Platforms

Problem: On OpenSolaris client platforms, users cannot log in to SGD or start the SGD Client.

Cause: The SGD Client requires the `libXm.so.4` library. This library is not included in the OpenSolaris distribution.

Solution: A copy of the `libXm.so.4` library is included in the `/opt/tarantella/lib` directory on the SGD host. Install this library in the `/usr/lib` directory on the client device.

6801579 – Kana Mode Unavailable for Solaris Applications on Microsoft Windows Client Devices

Problem: On Microsoft Windows client devices with Japanese locales, Kana mode is not available for Solaris applications.

Cause: On Microsoft Windows client devices, the SGD Client uses ASCII for Kana mode. Solaris applications use Unicode for Kana mode.

Solution: On the Microsoft Windows client device, add a new system variable `TARANTELLA_KEYBOARD_KANA_SOLARIS`. Set the value of this system variable to 1.

6809365 – Application Start Failures and Quotation Marks in the User's DN

Problem: When using LDAP to authenticate users, Windows applications can fail to start if the distinguished name (DN) of the user contains more than one single straight quotation mark(').

Cause: A known issue.

Solution: The workaround is to edit the `wcpwts.exp` login script. This script is in the `/opt/tarantella/var/serverresources/expect` directory on the SGD server.

Locate the following entry in the `wcpwts.exp` script:

```
regsub {'} $value {'''''} value
```

Edit the entry to read as follows:

```
regsub -all {'} $value {'''''} value
```

6818834 – LDAP Users Always Prompted to Change Password When Logging In

Problem: LDAP users are prompted to change their password each time that they log in to SGD. The issue is seen when using a Sun Java System Directory Server Enterprise Edition 6 server to authenticate users.

Cause: A known issue when using the Require Password Change at First Login Attempt and After Reset setting for Sun Java System Directory Server Enterprise Edition servers.

Solution: Disable the `pwd-must-change-enabled` setting on the LDAP directory server. This enables SGD users to change passwords on initial login, or following a password reset.

6827258 – SGD Enhancement Module Installation Issues on Microsoft Windows Vista Platforms

Problem: Installation of the SGD Enhancement Module on Microsoft Windows Vista platforms completes with no errors, but client drive mapping (CDM) and seamless windows services are not available following installation.

Cause: If installation is done using an account other than the Windows system administrator, registry keys for the CDM and seamless windows services are not installed correctly.

Solution: Log in as the Windows system administrator and install the Enhancement Module. Installing as a user with administrator privileges does *not* install the Enhancement Module correctly.

6829584 – Issues With Long User Names When Starting Applications

Problem: Users have to enter their user name and password every time that they start an application. The issue might be seen when SGD is being used with a Lightweight Directory Access Protocol (LDAP) or Active Directory server.

Cause: Entries in the SGD application server password cache are limited to 256 characters in length. When using SGD with LDAP or Active Directory servers, the fully qualified user name can exceed this limit. This means that an entry in the application server password cache is not created for the user.

The issue is not restricted to entries in the application server password cache. The 256 character user name limit also applies to the following SGD components:

- Token cache
- User preferences
- Billing

Solution: No known solution. If possible, SGD Administrators should attempt to restrict fully qualified user names to be less than 256 characters in length.

6831077 – Applications Fail to Start on OpenSolaris

Problem: All applications fail to start when running SGD on OpenSolaris platforms.

Cause: An issue with ksh for some versions of OpenSolaris.

Solution: A workaround is to remove the `HISTFILE=/dev/null` assignment in the `procs.exp` login script. This script is in the `/opt/tarantella/var/serverresources/expect` directory on the SGD server.

An alternative workaround is to insert an `unset HISTFILE` line before the `HISTFILE=/dev/null` assignment in `procs.exp`.

6831480 – Backup Primaries List Command Returns an Error

Problem: Using the `tarantella array list_backup primaries` command on an SGD server that has been stopped and then detached from an array returns a “Failed to connect” error.

Cause: A known issue.

Solution: Restart the detached SGD server before using the `tarantella array list_backup primaries` command.

6831939 – Windows Application Start Failures and Delays When Using CDM

Problem: Users can experience a delay of about 1 minute when starting Windows applications. On other occasions, Windows applications might not start at all. The issues are seen when a firewall is deployed between the Microsoft Windows terminal server and the SGD server and CDM is enabled.

Cause: For drive mapping, the Microsoft Windows terminal server can use Transmission Control Protocol (TCP) port 445 or port 137. The SGD server only uses port 137. In most situations, the terminal server initially makes a connection to the SGD server on TCP port 445. When this is unsuccessful, the terminal server then connects to the SGD server using port 137.

Problems can occur for certain firewall configurations, if the unsuccessful connection on port 445 is not handled correctly by the firewall.

Solution: Configure the firewall between the Microsoft Windows terminal server and the SGD server to either allow connections on port 445 or to deny connections on port 445.

6836075 – 3270 and 5250 Applications Fail to Start

Problem: When running SGD on 64-bit Red Hat Enterprise Linux 5.2 platforms, all 3270 and 5250 applications fail to start.

Cause: A known issue. The `tt3270` and `tt5250` terminal emulator binaries fail to run on 64-bit Red Hat Enterprise Linux 5.2.

Solution: No known solution.

6852617 – Unable to Use the SGD Gateway After Upgrading to SGD Version 4.50

Problem: Users logging in to an upgraded SGD server through an SGD Gateway see a “Cannot connect to server” message.

Cause: The private key file, `PeerCAkey.der`, is not present on the SGD server. This file is present in a fresh install of SGD version 4.50, but is not created when upgrading from earlier versions of SGD.

Solution: On each SGD server in the array create a `PeerCAkey.der` file, as follows:

```
# cd /opt/tarantella/var/info/certs/  
# /opt/tarantella/bin/bin/openssl pkcs8 -topk8 -nocrypt \  
-inform PEM -in PeerCAkey.pem -outform DER -out PeerCAkey.der  
# chmod 600 PeerCAkey.der  
# chown ttasys:ttaserv PeerCAkey.der
```

After making these changes, restart the SGD server.

After you have created the `PeerCAkey.der` file on each SGD server in the array, restart the SGD Gateway.

6872934 – SGD Client Does Not Start if Java Technology is Not Available

Problem: For client devices that do not have Java technology installed, or do not have a supported version of Java technology, the SGD Client might not start.

Cause: On client devices where Java technology is not available, the SGD Client must always be started manually. Users should not attempt to log in to SGD using their browser.

Solution: Start the SGD Client manually, either from the command line or using the Start Menu option, as described in “Accessing SGD Without Using Java Technology” in Chapter 6 of the *Sun Secure Global Desktop 4.5 Administration Guide*.

6874184 – Umlaut Characters and Active Directory Authentication

Problem: Active Directory authentication fails for user names that include umlaut characters, such as the German character ü.

Cause: Active Directory authentication uses the Kerberos authentication protocol. The Kerberos authentication protocol does not support extended characters, such as umlauts.

Solution: The workaround is to use the LDAP authentication mechanism, with a secure SSL connection to the Active Directory server.

6905376 – Building of Apache Modules Using `apxs` Fails

Problem: Building and installation of Apache dynamic shared object (DSO) modules using the Apache `apxs` tool might fail on some SGD hosts.

Cause: A known issue with the `libtool` script included with SGD version 4.50.933.

Solution: The workaround is to edit the `libtool` script, as follows:

- Change the permissions of the `libtool` script, to make it executable by any user. For example:

```
# chmod 755 /opt/tarantella/webserver/apache/version/build/libtool
```

- Edit the `SED` variable in the `libtool` script, to point to the location of the `sed` command on the SGD host. For example:

```
SED="/usr/bin/sed"
```

6905932 – SGD Enhancement Module Upgrade Failure

Problem: Upgrading the SGD Enhancement Module on Windows platforms to version 4.50.933 from earlier 4.50 versions fails. An error message prompting the user to remove the existing version of the product is shown.

Cause: A known issue when upgrading between these versions of the SGD Enhancement Module on Windows platforms.

Solution: The workaround is to uninstall the existing version of the SGD Enhancement Module before installing version 4.50.933. Alternatively, as version 4.50.933 does not include any new features, do not upgrade the existing 4.50 version.

Sun Type 7 Japanese Keyboard Issues

Problem: Users with Sun Type 7 Japanese keyboards cannot input characters correctly using SGD.

Cause: Missing Solaris OS keytable on the client device.

Solution: Install the appropriate patch to install the keytable on the client device.

Platform	Patch
Solaris 10 OS on SPARC platforms	121868
Solaris 9 OS on SPARC platforms	113764
Solaris 8 OS on SPARC platforms	111075
Solaris 10 OS on x86 platforms	121869
Solaris 9 OS on x86 platforms	113765
Solaris 8 OS on x86 platforms	114539

Start Menu Items Not Sorted Alphabetically

Problem: When using the SGD Client in Integrated mode on Microsoft Windows client devices, users might notice that the Start menu entries are not sorted alphabetically.

Cause: This is caused by a Windows feature that adds new items to end of a menu rather than preserving the alphabetical sorting.

Solution: See Microsoft Knowledge Base article 177482 for details.

Microsoft Windows Server 2003 Applications Limited to 8-Bit Color Depth for Large Screen Resolutions

Problem: For Microsoft Windows Server 2003 applications, the display color depth on the client device is limited to 8-bit for large screen resolutions. The issue is seen when screen resolutions are higher than 1600 x 1200 pixels.

Cause: A known issue with Windows Server 2003 terminal services sessions.

Solution: See Microsoft Hotfix 942610 for details of how to increase the color depth to 16-bit.

Bug Fixes in Version 4.50

The following table lists the additional bugs that are fixed in the 4.50.933 release.

Reference	Description
6690758	Mac client keyboard combinations not sent to Windows 2003 application.
6806240	Active Directory authentication, issues when configuring using the Administration Console.
6842496	Keyboard input issues in kiosk mode for Mac OS X 10.5.7.
6842532	Kiosk mode issues for Mac OS X.
6849891	Upgrade causes <code>tarantella start</code> to fail.
6870510	Empty LDAP groups not found for searches using Administration Console.

Reference	Description
6872934	SGD Client does not start on non-Java clients running Japanese versions of Windows.
6874184	Active Directory authentication fails when user name includes umlaut characters.
6879788	Invalid credentials errors when using Active Directory authentication.
6890490	Seamless windows applications fail on KDE.
6890996	Intermittent array stability issues.
6893011	Apache web server security vulnerabilities.
6893767	Audio issues for Remote Desktop Connection applications.
6898102	Password cache issue with JDK 6u16.

The following table lists the significant bugs that are fixed in the 4.50.907 release.

Reference	Description
6357003	Native client cannot launch browser on Solaris.
6574482	Update Kerberos to version 1.6.1.
6598774	TEM download page only refers to Windows 2003 and Windows 2000 servers.
6600671	Audit logging does not show who made changes to SGD configuration.
6616090	SGD servers show fatal errors.
6616750	Preferred language is ignored when using load-balancing JSP technology page.
6620262	Login theme attribute is still available on the command line.
6621444	Issues with Portuguese Brazilian ABNT2 X keymap.
6623676	Changing the primary server takes longer than expected using the Administration Console.
6629773	Administration Console reports error and exits when browsing LDAP.
6630326	ldapconn and ldapconn-lookup cache threads are not shut down correctly after use.
6631617	Array operations need to be faster and more resilient.
6634621	Certificate validation mechanism does not explore all possible certificate paths.
6655169	Expired password cannot be changed for some application servers using authentication dialog.
6664607	Detached offline secondary does not update to standalone when brought back to the array.
6664789	Some array members have an incorrect license count after a remaster.

Reference	Description
6665303	<code>tarantella status</code> command reports incorrect session count.
6667697	Double-byte group name causes HTTP 500 error.
6670924	Offline secondary server is detached when brought back to the array after a <code>make_primary</code> operation.
6677639	Welcome page modules link issues when Japanese language selected.
6682124	Flushing cached LDAP configuration using <code>tarantella cache --flush</code> command does not work.
6684256	Session refresh issue for objects with Japanese names.
6690579	Load balancing issues mean applications will not start and SGD cannot create new user sessions.
6695309	Remove internal DNS names for cookies and tokens passed to client from SGD Gateway.
6696945	Administration Console labels not updated when changing browser language.
6700455	Load Management column is present in Licenses table.
6706081	SGD server <code>warningerror</code> logs are sent to standard error output.
6707889	Administration Console fails during array join for an SGD server that is disconnected from the network
6707912	Administration Console issues after detaching secondary from an array.
6708340	Ghostscript test file <code>sample.pdf</code> in <code>var/log</code> directory instead of <code>var/info</code> .
6708972	Warning message for silent shadowing is truncated.
6709596	SGD server object should be created using server name provided during install.
6710929	<code>xfrenchcanadian.txt</code> keymap is not loaded while starting SGD applications.
6711024	No audio output from Windows 2003 server application for SLES 9 Sun Ray client.
6712191	Missing default realm in <code>krb5.conf</code> file causes Active Directory integration problems.
6712756	Connections to a down server on Solaris cause long delays in array operations.
6712821	Czech QWERTY keyboards: Issues with S caron in Windows applications.
6713230	Auto-switching keyboards for Sun Ray client devices.
6713241	F11 key presses are ignored on Japanese installation.
6713366	Some translations missing from localized <code>SOAPResources.properties</code> files.
6714419	Poor usability when shadowing a low bandwidth connection.
6714906	SGD Gateway web server incorrectly determines HTTP protocol for client entry point.

Reference	Description
6715694	Active Directory authentication takes a long time or times out.
6716562	<code>tarantella cache --flush krb5config</code> command fails if using Active Directory client certificates with no LDAP credentials in password cache.
6716771	Client printers not created on Windows 2008 server when connecting from UNIX clients.
6717020	Spool file is not deleted immediately after using PDF printing.
6718248	Issues with user-renamed PDF printers.
6720092	Timezone redirection issues with Windows applications.
6720778	<code>tttaexecpe</code> process generates core files during array scalability testing.
6721163	Enhancement Module download page only refers to Windows 2000/2003 server.
6721683	Localized help links remain on webtop after an upgrade, but point to invalid targets.
6723117	Active Directory integration does not recognise a Global Catalog host as being the same as a Domain Controller host.
6724489	My Desktop connection status message is not localized.
6724911	Issues when creating new applications with Kanji names using the Administration Console.
6725323	Unable to launch multi-byte named application from Start menu when using Integrated mode.
6725479	SGD Client does not dock in the icon tray.
6725495	Mac OS X clients: Caps Lock key not synchronized correctly.
6725847	Unable to run Windows applications using Fedora Core 8 SGD server.
6725890	Array join failure using Administration Console on secondary server.
6727951	Hangul/English toggle key on Korean keyboard fails to toggle input correctly.
6728903	Application sessions for anonymous and shared users are orphaned on SGD server restart.
6729370	Querying Domain Controllers for user information should be disabled by default.
6729727	CWM windows on CDE desktop client minimize and move off screen.
6729916	Delivering server-side events via an SGD web server-JServer connection.
6730044	Administration Console fails for Active Directory LDAP searches with Chinese characters.
6730384	Primary SGD server failed on repeated login-logout tests.
6731391	If LDAP server fails, all SGD user sessions are terminated.
6732007	SecurID server list cache thread on the SGD server is not killed.

Reference	Description
6732158	SGD Client exits after a window is closed from Quick Test Pro.
6734004	Users with Portuguese characters in Active Directory common name lose sessions periodically.
6734801	Client's Maximum Size is not calculated correctly on Linux desktops.
6734852	LDAP call always result in cache miss when missing attributes are requested.
6734906	Apache <code>error_log</code> file contains lots of "Network is unreachable" messages.
6736670	Windows application becomes unresponsive whilst scrolling.
6737141	Null pointer exception on login for users with 8-bit character in ENS name.
6738055	LDAP error logging can be uninformative and misleading.
6738069	Caught exception from <code>adminSearchSession</code> SOAP method.
6741559	Copy and paste problems with some Solaris 8 based OpenWindows binaries.
6741912	Administration Console fails to find non top-level LDAP objects without a base DN and a <code>namingContexts</code> attribute.
6742027	Installation of SGD appears to hang.
6742916	Issues with routing token redirection for Session Directory.
6744667	Web services client applications need to specify an IP address when using the SGD Gateway.
6744683	Window minimize issues for Borland applications displayed in seamless mode.
6745306	Windows + Tab key combination not working correctly in kiosk mode.
6746165	SGD Gateway RPM install on SUSE fails with dependency errors.
6747873	Intermittent Active Directory LDAP authentication failures.
6748390	Expired CA's cause security warnings even when another valid CA exists.
6748744	Active Directory site discovery creates alarms that are dereferenced and never cancelled.
6749795	Null pointer exception in SGD log after logging out.
6750824	Web service optimizations and bug fixes.
6751874	Support multiple SKID keys for ASAD and SOAP connections to and from the SGD server.
6752431	Zombie process will not go away until SGD is restarted.
6754059	All other SGD applications are terminated when an application generates an event.
6754667	Adding an array member and removing another results in blocked threads.
6755152	Multiple Java null pointer exceptions in log files.

Reference	Description
6755153	Webtop shows incorrect state for applications that are not resumable.
6755238	SOAP fault shown when logging out of My Desktop.
6755548	Option to resume printer state in My Desktop.
6756523	Client Window Management application issues after upgrading to JDK 1.6.
6756705	SGD Client does not run on OpenSolaris 2008.05.
6756755	ttarandom error messages shown in terminal window.
6757351	tarantella security enable command fails and deletes the private key.
6757757	Client Window Management dialogs do not stay above parent windows.
6757813	Active Directory password expiry only works if the system krb5.conf file is configured.
6761804	Login button on the log out splash screen is disabled.
6763485	Default window coordinates are inconsistent when using Client's Maximum Size attribute for Independent Window window type.
6763877	Mac OS 10.5.5 users unable to start SGD Client due to X11 changes in OS updates.
6765600	Proxy provider errors when logging in to SGD.
6765940	Unable to print when Active Directory user name includes German umlaut character.
6766896	Array members detached from array.
6767773	Secure Apache httpd.conf configuration file needed for SGD.
6767845	Multiple LDAP servers do not work as expected on LDAP server failover.
6767846	Exception thrown when using invalid search string in LDAP Directory Service Integration assignments.
6767847	Error messages seen in log files when using eDirectory with SGD.
6767848	LDAP groups not searchable when using eDirectory with SGD.
6767849	SGD does not prompt for password change after LDAP password expiry.
6769028	SGD Client does not autostart on desktop login to Solaris 10 x86.
6769538	Shadowing fails on Red Hat Enterprise Linux 5.1.
6770071	Issues when changing peer DNS name of an SGD server.
6771177	Power failure on Windows application server causes SGD Windows applications to freeze.
6774869	tarantella security enable command throws retcode error.
6776988	Administration Console fails if LDAP structure is changed from that used in an SGD LDAP search.

Reference	Description
6777016	Active Directory and LDAP configuration settings are not replicated correctly.
6780540	LDAP operations result in unnecessary InterruptedNamingException messages.
6780772	SGD server hangs when not using FQDN and trying to login with Integrated Client.
6783263	Input language switching issues for Windows applications when 3-letter code is used.
6784049	Aged password handler issues with SLES 10 application server.
6785563	SGD Client starts the wrong browser for logging in using Integrated mode.
6786285	Slow application launch due to port conflicts.
6786834	MyDesktop object not created for a Gnome desktop on SUSE 10.0.
6789743	Resuming printing for My Desktop application.
6790513	More detailed information when an array is in an inconsistent state.
6790936	Terminal type not being set when starting character applications.
6791016	Improvements for audit logging.
6791507	Killing browser generates an invalid session cookie error.
6792195	Users unable to launch applications in an array after sudden loss of a node.
6793043	Unable to lock XPE reliably using ttatasc on SGD 4.41.
6793493	Korean/English and Hanja keys of Korean PC keyboard do not work on Solaris client.
6793569	Array join using host short name fails and does not replicate licenses correctly.
6793749	VT420 emulator does not render some graphics characters correctly on OpenSolaris.
6794082	Korean/English and Hanja keys do not work on Solaris client.
6794618	Cross frame scripting vulnerability.
6794839	Accent characters not reproduced correctly for German locale.
6795598	ttatdm.exe process causes high CPU usage on the application server.
6796137	Corruption when resizing CWM windows on Ubuntu 8.10.
6796636	Extra space added after typing "^" and "~" in a Japanese environment.
6797226	Administration Console result tables do not render correctly on Internet Explorer 7.
6797638	Cannot log into Active Directory server after a period of time
6798637	SGD Terminal Services Client on UNIX platforms fails to get a licence from Windows 2008 servers, but still connects.

Reference	Description
6798689	tarantella security disable command removes CA certificate file.
6800499	Japanese Kana mode does not work with Xsun.
6800609	SGD Client dialog box font issue.
6801579	Windows SGD Client cannot enable Kana mode for Solaris applications.
6801662	Connecting via the SGD Gateway displays an Error Page message.
6802223	Message dialog for the SGD Client Helper does not have Sun branding or localization.
6802466	ttaxpe repeatedly maps and unmaps client devices.
6802468	Horizontal mouse scrolling hangs emulator session on Mac OS X.
6802869	SWM applications lock up OpenSolaris desktop.
6802907	ttaxpe crashes when running Administration Console on Sparc Solaris.
6804663	Alternative PDF viewer setting is not saved when using the SGD Gateway.
6804665	Add Evince to default list of PDF viewers for improved out of the box support for Ubuntu.
6805205	Comma on Numpad on German keyboard does not work in Windows session.
6807562	CWM windows z-order issue with Solaris clients.
6809756	Some Chinese and Taiwanese localized strings are not displayed in the Connection Progress dialog.
6810518	Default My Desktop application does not exit when you log out on Red Hat 5.1.
6811627	Expect script update for Smart Card Input Method (SCIM) on SUSE 10.
6811796	egrep syntax error when checking ssh X11 forwarding flag during SGD installation.
6813543	tarantella array command usage message wraps incorrectly on 80-character terminals.

Bug Fixes in Version 4.41

The following table lists the significant bugs that are fixed in the 4.41 release.

Reference	Description
6489154	Window focus issue when applications run in seamless window mode.
6498460	Text is not displayed properly after resizing of screen. Characters overlap or are too far apart.
6506571	SGD Enhancement Module upgrade on Solaris fails to merge <code>client.prf</code> file.
6508202	Em-size/normal-width change in Japanese.
6524429	Windows XP Home client takes a built-in license, instead of a Windows 2000 client access license (CAL).
6531922	Seamless windows are not launched after clicking the Close button on the remote application.
6532001	Active Directory: PKI expired password fails to prompt for new password.
6536434	Korean keyboard does not work correctly with SGD.
6557536	Initial post-launch focus misleading in SGD application window.
6557568	Unexpected focus change with loss of input focus.
6568484	Name of application using seamless windows is not displayed in Japanese, but displays correctly using a full screen.
6570049	Blank webtop when user DN contains <code>"/</code> .
6572217	Webtop hints attribute is missing from Administration Console.
6589194	CPU load based load balancing algorithm providing skewed results.
6591022	Num Lock state unstable with SGD 4.31.905 patch for Num Lock and Caps Lock state issues.
6591516	Page transitions not working in Internet Explorer.
6592699	Accent characters, tonos and dialytika, do not work correctly using Greek keyboard.
6594537	Improved user experience and warning messages for firewall traversal mode.
6600335	“Hangul” and “Hanja” keys fail on WinXP client with Korean USB keyboard when running Windows terminal services applications.
6609001	Cannot detach a stopped secondary server using the Administration Console.
6612935	SGD Client shows blank logout menu items on Gnome panel.
6615864	Secure and non-secure content on Add Assignment page.

Reference	Description
6615864	Internet Explorer Warning Messages When Accessing the Administration Console Over HTTPS.
6616296	Copy and paste from X-based 5250 or 3270 application to local Windows Notepad does not work.
6617987	Erratic behavior seen on creating a user object with inverted commas.
6618516	<code>ttauxserv</code> reports fatal error and exits when file descriptor limit is reached.
6620254	Num Lock and accent acute characters on Portuguese keyboard do not work as expected.
6620268	Classic webtop attributes still available.
6621456	Enabling "Establish proxy settings on session start" in profile does not work.
6621911	Accented characters not properly emulated on Sun Ray™, from <code>es_MX ISO8859-1</code> .
6623775	Need to secure Active Directory queries without using client certificates from the Active Directory server.
6624044	The <code>server/webtop/*</code> logging filter is incorrect.
6624122	Copy and paste does not work with Windows application as non-root user in Trusted Extensions environment.
6624795	Title on minimized Internet Explorer incorrect when using seamless windows.
6625786	Session is cut off when accessing specific URL through a Windows desktop.
6629782	Ambiguous login and SecurID dialogs are not localized.
6630832	PDF printing fails on Solaris OS 8.
6632864	Errors in 4.40 datastore reorganization on upgrade.
6633342	Access Denied errors when accessing mapped drive with SWIFT application.
6633363	Third tier authorization dialog does not accept keyboard input in Mac OS X 10.5.1.
6633389	Cyclic links for application groups not upgraded correctly.
6634373	Log Active Directory errors more concisely.
6634689	4.40 datastore reorganization does not handle <code>dc</code> trees very well.
6635919	<code>-no-browser</code> option required for <code>ttatcc</code> command.
6636787	Documentation for securing SOAP is unclear.
6638874	SGD Client crashes due to partial packet receipt.
6639470	Creation of new object not possible when Security Warning alert notifications enabled.
6639655	X server security vulnerabilities.

Reference	Description
6640141	Exception caused by LDAP search on Assigned User Profiles tab for an OU in the Applications organization.
6641356	Extensible LDAP search filters are not validated correctly.
6641475	LDAP user attribute <code>isMemberOf</code> should be in the <code>reverseAttributes</code> list by default.
6641538	Documentation on <code>cache --flush krb5config</code> should include information about what it affects.
6643772	Unable to resume My Desktop session.
6646817	The <code>printertypes.txt</code> file needs to be updated.
6649163	SGD leaves “white screen” when Windows session is grabbed by Sun Ray client.
6650200	“Potentially unsafe connection” warning dialog presented repeatedly to users in an unsecure environment.
6650334	Difficulties in “mirroring” LDAP in ENS, based on groups, with LDAP profiles on OU.
6651582	<code>-n</code> option displayed on output during certificate request.
6653001	SGD Client crash when cancelling paste action in Trusted Extensions Sun Ray client.
6653019	Suspended Windows session causes <code>ttatsc</code> to consume 100% of CPU resources.
6653024	Authentication token information does not get updated in profile when changed a second time.
6654565	JDK change has changed <code>keytool</code> commands.
6655852	SGD Client fails on Ubuntu when Extra Visual Effects are enabled.
6658738	Application session load balancing is not firewall friendly.
6659812	Escape key and window close button are not working in View Certificate Details message box.
6661505	Active Directory Global Catalog and Domain Controller hostname sorting is incorrect.
6661507	“Failed to Find Site Objects” Active Directory error should be downgraded.
6663148	SGD server stability issues.
6663754	My Desktop feature fails if second webtop entry My Desktop2 exists.
6664301	New primary server detached unexpectedly when old primary server becomes available.
6667259	SGD Client by default is paused when printing.
6668963	Array join issues for two servers with different configurations for secure intra-array communications.

Reference	Description
6670774	Array join on secure intra-array communications-enabled servers fails in certain scenarios.
6670843	Array <code>make_primary</code> option is not working in the Administration Console.
6671528	Absence of Java not detected on Windows client using Internet Explorer 6.
6673906	Licenses replication issues after array remaster.
6678939	Network printers are not appearing in Windows sessions.
6679810	Documentation for <code>CommandExecutionFailed</code> or Error 7 should also mention permissions on the <code>/tmp</code> folder on the application server.
6679845	Sun Ray DTU ID required for Windows terminal services sessions.
6680413	<code>ttatssc</code> core dumps with Solaris patch 119060-38.
6682124	Flushing a cached LDAP configuration using <code>tarantella cache --flush</code> does not work.
6685521	Login to SGD webtop fails after upgrade from 4.31.
6686727	Administration Console: New Object pop up needs scroll bars.
6689236	How to use load balancing JSP for My Desktop functionality.
6689502	Entering application command line arguments in the Administration Console.
6690301	SGD Client crashes when using OpenOffice from SGD webtop.
6692376	SGD Client pegged at 100% CPU, fails on authorization of Windows application running OS X Leopard as a client device.
6692620	Unable to interrupt Active Directory discovery timeouts when using default Kerberos credentials.
6693487	Unable to write to CDM drives using Office 2007.
6693489	Invalid session cookie causes JSP error with French locale.
6693496	Browsing to Info->Detailed Diagnostics immediately after login fails.
6693498	SGD Client Motif dialog has large icons on Solaris 10u4.
6693505	Microsoft Word 2007 does not maximize correctly on Solaris 10u4 desktop.
6693508	Microsoft Word 2007 claims to start in German locale on Solaris 10u4 desktop.
6693516	Window close operation not handled correctly in GIMP on Solaris 10u4.
6693972	Internet Explorer browser hangs on connection with obsolete JRE 1.3.
6694481	Restricting the LDAP search when the <code>ou=</code> has multibyte characters fails to authenticate user via LDAP authorization to Active Directory.
6695371	Copy and paste between two protocol engines crashes <code>ttaxpe</code> .
6695876	Misleading load balancing error message in log.

Reference	Description
6697034	Create button remains inactive for localized characters input.
6698552	X application launch failure seen in certain scenarios with "Unknown Terminal" error.
6698730	No errors displayed to user when the SGD application shortcut is no longer valid.
6699329	<code>tarantella security fingerprint</code> command shows wrong fingerprint.
6699873	Certain keys do not work with Turkish keyboard in Windows sessions.
6700449	Protocol argument (<code>-dir</code>) for Windows applications does not work with <code>cmd.exe</code> .
6701438	2X load balancer does not work with SGD.
6702069	Seamless display method does not work correctly for applications on Windows 2008.
6702822	Solaris Trusted Extensions: kiosk mode area should be below the Trusted Extensions stripe area.
6703066	Solaris Trusted Extensions: Xerror in call to XSelectInput via copy and paste incremental selections.
6704749	Print job size does not match in webtop and command line.
6704925	Problems with <code>portuguesebrasilian_abnt2</code> keyboard.
6705544	Terminal services CALs for users with parentheses in their CN are not reused by SGD.
6707001	Missing apostrophes in French translations.
6709037	Mouse over tooltips in an seamless windows session causes the SGD Client to crash.
6710067	Unicode to keysym table maps the Unicode for EuroSign to the keysym for EuroSign.
6710510	Solaris array operations take a long time to respond when other array members are down.
6710580	Printing status: potential null pointer exception in <code>opt.jsp</code> .
6710927	Log in menu item not completely seen on Sun Ray client start menu.
6712258	Missing information for InvalidSessionCookie error string in localized versions.
6712649	Integrated client login fails with <code>StringIndexOutOfBoundsException</code> exception.
6712721	Garbled characters are displayed in localized authentication error message for all languages.
6714996	Active Directory authentication does not fail over to the next Global Catalog.

Bug Fixes in Version 4.40

The following table lists the additional bugs that are fixed in the 4.40.917 release.

Reference	Description
6499184	Support for Windows 2003 Session Directory required.
6613733	SGD printing causes core dumps, for Solaris OS on SPARC platforms.
6624122	Copy and paste issues with Windows applications for SGD on Solaris 10 OS Trusted Extensions.
6632816	Mac OS X client platform issues.
6632864, 6633389, 6646187	Datastore issues following upgrade to SGD version 4.40.907.
6638874	SGD Client exits unexpectedly due to network packet fragmentation.
6639655	SGD X server security vulnerabilities.
6641522	Administration Console errors when specifying an application server DNS name that begins with a number.
6642603	Upgrade of SGD Enhancement Module fails.
6644678, 6645784	Upgrade issues when using a nonstandard installation directory.

The following table lists the significant bugs that are fixed in the 4.40.907 release.

Reference	Description
2144612	Active Directory authentication does not failover to the next global catalog.
2147536	<code>ttaxpe</code> command does not exit if an incorrect password is entered.
2148699	CDM fails with multiple external DNS names.
2148700	SGD Client fails when an X application opens a specific window.
2148811	Printer preferences on Terminal Services not set permanently with Zebra bar code printer.
2149630	Korean keyboard does not work correctly with SSGD 4.30.915.
2150849	Intermittent problems with serial COM port redirection.
2151274	Accented characters fail in French locale windows.

Reference	Description
6469935	SGD Client should be able to match hostname to DNS item in certificate subjectAltName extension.
6478585	Java virtual machine SSL key and certificate store destroyed on upgrade.
6520742	The <code>tarantella security peerca --show</code> command fails on primary SGD server.
6525004	Extend client device access logging in the SGD Client.
6527507	Better error reporting for web service failures.
6532425	UNIX CDM fails if <code>ttta_tem</code> is installed in non-standard directory.
6532764	LDAP failover is not seamless when multiple LDAP servers are configured.
6537643	SGD Client crashes if application exited while dialog displayed.
6541478	SGD session hangs if audio played from SGD while local audio is playing on Sun Ray Client.
6541914	CDM does not work in Windows Vista in certain scenarios.
6542533	Webtop does not update to display launched applications in Safari on MacOS X 10.4.9.
6544350	Webtop print controls are unstable in an array.
6546840	Integrated mode is not enabled on SUSE Linux Enterprise Server 9.
6547337	Using <code>-preferredlanguage</code> option for <code>ttatcc</code> command does not open page in appropriate locale.
6550172	Launch fails if offline server selected in a load balanced group.
6552038	Improvements to <code>ttaxpe</code> debug logging.
6553252	SGD Client exits with segmentation faults and is terminated by Electric Fence application.
6558691	Secondary licenses are removed when primary stopped or array breaks apart.
6561306	Check <code>ssh</code> version before updating <code>ssh</code> arguments.
6563481	Improve error messages in <code>execpe</code> log files.
6571826	Command line for creating 3270 and 5250 objects does not accept all arguments correctly.
6574469	Update Java Platform, Standard Edition to 1.6.0_01 or later (third party) for Solaris and Linux platforms.
6574471	
6583316	CDM cannot be disabled on a per-client basis for SGD clients.
6583333	<code>ssh</code> launch failure when <code>sshhelper</code> is setuid, and SGD user has no home directory.

Reference	Description
6597576	SGD Enhancement Module for Linux platforms does not get installed in non-default path.
6598686	Application title is garbaged on locales.
6601084	In Integrated mode, the folder specified in the "Start In" box is invalid.

Documentation Issues in Version 4.50

This section lists the known documentation issues for the 4.50 release.

This section includes the following topics:

- ["Using the Automatic Procedure for Securing an SGD Array When Deploying the SGD Gateway" on page 67](#)
- ["Corrections to Component Version Information" on page 68](#)
- ["Correction to the "SGD Terminal Services Client" Section" on page 68](#)
- ["Avoiding Port Conflicts for the X Protocol Engine" on page 69](#)
- ["Correction to the "Adding and Removing SGD Servers From An Array" Section" on page 69](#)
- ["Correction to the Table of Supported PDF Viewers" on page 70](#)
- ["Corrections to Supported Browsers Information" on page 70](#)
- ["Correction to the "Troubleshooting Applications" Section" on page 71](#)

Using the Automatic Procedure for Securing an SGD Array When Deploying the SGD Gateway

Configuration steps for the deployment scenarios on page 9 and page 11 of the *Sun Secure Global Desktop 4.5 Gateway Administration Guide* refer to the manual procedure for enabling security for an SGD array.

You can also use the automatic procedure for enabling security, provided that you disable firewall forwarding using the `--firewalltraversal` option of the `tarantella security enable` command. This command option is described in ["Changes to the tarantella security enable Command" on page 16](#).

Corrections to Component Version Information

SGD version 4.50 uses version 1.2.27 of the `mod_jk` Apache Tomcat Connector and version 0.9.8k of `OpenSSL`. The SGD 4.50 documentation contains incorrect version information for these components in the following places:

- On page 374 of the *Sun Secure Global Desktop 4.5 Administration Guide*, the table of web server components contains incorrect component version information.

The table of components should read as follows:

Component	Version
Apache HTTP Server	2.2.10
OpenSSL	0.9.8k
<code>mod_jk</code>	1.2.27
Apache Jakarta Tomcat	6.0.18
Apache Axis	1.4

- In the *Sun Secure Global Desktop 4.5 Administration Guide* and the *Sun Secure Global Desktop 4.5 Gateway Administration Guide*, Apache web server path names include incorrect component versions.

For example, on page 27 of the *Sun Secure Global Desktop 4.5 Gateway Administration Guide*, the following paragraph is incorrect:

“Configuration files for the Apache web server configured for use with the SGD Gateway are in the
`/opt/SUNWsgdg/httpd/2.2.10_openssl-0.9.8i_jk1.2.25/conf`
directory.”

This paragraph should read as follows:

“Configuration files for the Apache web server configured for use with the SGD Gateway are in the
`/opt/SUNWsgdg/httpd/2.2.10_openssl-0.9.8k_jk1.2.27/conf`
directory.”

Correction to the “SGD Terminal Services Client” Section

The table of command options for the SGD Terminal Services Client on page 176 of the *Sun Secure Global Desktop 4.5 Administration Guide* incorrectly states that the default setting for the `-windowskey` option is `on`.

The default setting for the `-windowskey` option is `off`.

Avoiding Port Conflicts for the X Protocol Engine

The following applications troubleshooting topic is missing from the released documentation.

Application startup can take longer than expected if SGD attempts to use an X display port that is being used by another service. Application startup eventually completes successfully.

The solution is to exclude the port from use by the X Protocol Engine.

In the Administration Console, go to the Protocol Engines → X tab for each SGD server in the array and type `-xport portnum` in the Command-Line Arguments field, where `portnum` is the TCP port number to exclude.

Alternatively, use the following command:

```
$ tarantella config edit --xpe-args "-xport portnum"
```

To exclude several ports, you can specify `-xport portnum` multiple times, as follows:

```
$ tarantella config edit \  
--xpe-args "-xport portnum_1" "-xport portnum_2" "-xport portnum_3"
```

The changes made take effect for new X Protocol Engines only. Existing X Protocol Engines are not affected.

Correction to the “Adding and Removing SGD Servers From An Array” Section

The “Adding and Removing SGD Servers From An Array” section on page 340 of the *Sun Secure Global Desktop 4.5 Administration Guide* contains an error.

Step 4 of the “How to Add a Server to an Array” procedure should read as follows:

“4. Enter the peer DNS name of an SGD server in the DNS Name field.

The peer DNS name must be a fully-qualified DNS name, for example `boston.indigo-insurance.com`.”

Correction to the Table of Supported PDF Viewers

The table of supported PDF viewers on page 243 of the *Sun Secure Global Desktop 4.5 Administration Guide* is incorrect. The table does not list Evince as a supported PDF viewer for Linux client platforms.

The table of supported PDF viewers should read as follows:

Client Platform	Default PDF Viewer
Solaris OS on SPARC platforms	Adobe Reader (acroread) GNOME PDF Viewer (gpdf)
Solaris OS on x86 platforms	GNOME PDF Viewer (gpdf)
Linux	GNOME PDF Viewer (gpdf) X PDF Reader (xpdf) Evince Document Viewer (evince)
Mac OS X	Preview App (/Applications/Preview.app)

Corrections to Supported Browsers Information

The documentation contains incorrect test information about the supported browsers for Windows client platforms, as follows:

- On page 303 of the *Sun Secure Global Desktop 4.5 Administration Guide*, the table of supported client platforms contains errors.
- On page 7 of the *Sun Secure Global Desktop 4.5 Installation Guide*, the table of supported client platforms contains errors.

The corrected table entries on these pages should read as follows:

Supported Client Platform	Supported Browsers	Integrated Mode Support
Microsoft Windows Vista (Intel x86 32-bit)	Internet Explorer 6 Internet Explorer 7 Internet Explorer 8 Mozilla Firefox 2 Mozilla Firefox 3	Microsoft Windows Start Menu
Microsoft Windows XP Professional (Intel x86 32-bit)	Internet Explorer 6 Internet Explorer 7 Internet Explorer 8 Mozilla Firefox 2 Mozilla Firefox 3	Microsoft Windows Start Menu

Correction to the “Troubleshooting Applications” Section

The “Troubleshooting Applications” section in chapter 4 of the *Sun Secure Global Desktop 4.5 Administration Guide* contains an error.

The registry key mentioned in the “An Application Session Does Not End When the User Exits an Application” troubleshooting topic on page 214 is incorrect. The sentence containing this registry key should read as follows:

“To do this, edit the `System processes` value for the `HKEY_LOCAL_MACHINE\Software\Sun Microsystems, Inc.\Enhancement Module for Windows` key in the registry on the application server. “

