



# Sun Secure Global Desktop 4.41 Release Notes

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# Preface

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The *Sun Secure Global Desktop 4.41 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<sup>®</sup> 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 <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>% You have mail.</code>
<b>AaBbCc123</b>	What you type, when contrasted with on-screen computer output	<code>% su</code> 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 <code>rm filename</code> .

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

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# Related Documentation

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

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Application	Title	Part Number	Format	Location
Installation	<i>Sun Secure Global Desktop 4.41 Installation Guide</i>	820-4906-10	HTML	Online
			PDF	Software CD and online
Administration	<i>Sun Secure Global Desktop 4.41 Administration Guide</i>	820-4907-10	HTML	Online
			PDF	
User	<i>Sun Secure Global Desktop 4.41 User Guide</i>	820-4908-10	HTML	Online
			PDF	

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*Sun Secure Global Desktop 4.41 Release Notes*, part number 820-4905-12.



# New Features and Changes

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This chapter describes the new features and changes in Sun Secure Global Desktop (SGD) versions 4.41, 4.40, and 4.31.

Topics in this chapter include the following:

- “New Features in Version 4.41” on page 1
- “New Features in Version 4.40” on page 3
- “New Features in Version 4.31” on page 10
- “Changes in Version 4.41” on page 11
- “Changes in Version 4.40” on page 15
- “Changes in Version 4.31” on page 23

---

## New Features in Version 4.41

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

### 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 HTTPS connections to the SGD Web Server
- Configures the SGD server for firewall traversal
- Secures the 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 4.41 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 4.41 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.

# 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 JavaScript 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 4.41 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.

<b>SGD Version 4.31</b>	<b>Administration Console</b>
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 4.41 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 Uniform Resource Locator (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 web 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 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.

By default, the Windows key is now enabled in SGD Windows Terminal Services sessions. The default setting for the SGD Terminal Services Client (`ttatsc`) `-windowskey` option is on. You can change this option using the Arguments for Protocol (`--protoargs`) attribute on the Windows application object.

## 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 4.41 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.

---

## New Features in Version 4.31

This section describes the features that are new in the SGD version 4.31 release.

### Audio Support in X Applications

SGD Administrators can now enable audio in X applications accessed using SGD.

To hear audio in X applications, the following conditions must be met:

- The client device must be capable of playing audio.
- The SGD Client must be used to connect to SGD.
- The UNIX audio module of the SGD Enhancement Module must be installed and running on the application server.
- The X application must output audio using the Open Sound System (OSS). If your system uses the Advanced Linux Sound Architecture (ALSA), you might have to enable the ALSA OSS emulation modules in the kernel.
- The SGD UNIX audio service must be enabled in the Administration Console. The service is disabled by default.

The UNIX audio module contains an OSS audio driver emulator. The audio driver emulator is installed in the kernel when you install the UNIX audio module of the SGD Enhancement Module.

---

**Note** – As the UNIX audio module includes an audio driver emulator, the application server itself does not actually need to have a sound card.

---

Some X applications are hard-coded to use the `/dev/audio` or `/dev/dsp` devices for audio output. A new attribute for X application objects, Audio Redirection Library (`--unixaudiopreload`), enables an SGD audio redirection library to force the X application to use the SGD audio device.

## Support for the Remote Desktop on Microsoft Windows Vista

Microsoft Windows Vista includes the Remote Desktop feature that enables you to access a computer using the Microsoft Remote Desktop Protocol (RDP). You can now use SGD and Remote Desktop, for example, to enable users to access their office PC when they are out of the office. Only full Windows desktop sessions are supported.

You can also install the SGD Enhancement Module on Microsoft Windows Vista client devices to provide support for client drive mapping. Advanced load balancing and seamless windows are not supported.

## SSH Client Settings

A new SSH Arguments (`--ssharguments`) attribute is available for the following object types:

- X application
- Character application
- 3270 application
- 5250 application

With this attribute, you can specify the command-line arguments for the SSH client when the connection method for an application is SSH.

---

## Changes in Version 4.41

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

### 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.

See the *Sun Secure Global Desktop 4.41 Installation Guide* for more information about supported platforms 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>



Command in Version 4.40	Command in Version 4.41
<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 4.41 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 5](#) 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 Certificate Signing Request (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.

### 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 web 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 4.41 Installation Guide* for more details about logging in to SGD.

You can no longer deny a connection to SGD based on the client's 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 9 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	modify(String, String, String[])	modifyReplace (String, String, String[])
ITarantellaEvent	adminSendClientSideMessage (String, String, String, String, String)	adminBroadcastClientSideMessage (String, String, String, String, String)
ITarantellaExternalAuth	setSessionIdentity (String, String)	setSessionIdentity (String, String, String)
ITarantellaPrint	printJobs (String)	printAllJobs (String)
ITarantellaWebtopSession	authenticateSession(String, String, String)	authenticate(String, String, String, String)
ITarantellaWebtopSession	authenticateSession(String, String, String, Item[], Item[])	authenticateExt (String, String, String, String, Item[], Item[])
ITarantellaWebtopSession	setTCCConfiguration (String, String, String, String, String, Item[])	setTCCConfigurationOverrides (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.
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	Authenticate a user session.
	adminEndSessions	Create a new view of an existing user session.
	adminCount	End multiple user sessions.
		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	Release server resources for a given search.
	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 4.41 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
<code>--tarantella-config-login-thirdparty-searchens</code>	<code>--login-thirdparty-ens</code>
<code>--tarantella-config-login-thirdparty-allownonens</code>	<code>--login-thirdparty-nonens</code>

---



Attribute Name in Version 4.31	Attribute Name in Version 4.40
--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 4 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

---

## Changes in Version 4.31

This section describes the changes since the SGD version 4.30 release.

### SecurID Authentication on Solaris x86 Platforms

In version 4.31, you can use SecurID authentication when SGD is installed on Solaris x86 platforms.

# Support for Multiple SGD Servers in Integrated Mode

In version 4.30, it is possible to connect only to one SGD server when the SGD Client is in Integrated mode. In version 4.31, Integrated mode can be used with multiple SGD servers. In the desktop Start or Launch menu, a login link is available for each SGD server.

## Array Routes

SGD has an array routes feature that enables you to configure server-side SOCKS proxy servers. You configure array routes with the following command:

```
$ tarantella config edit \  
--tarantella-config-array-netservice-proxy-routes route...
```

Array routes are enhanced so that you can now configure a direct connection type. Use `CTDIRECT` as the connection type to specify the clients that can connect without using a proxy server.

The following is an example array route configuration:

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

With this configuration, clients with IP addresses beginning `192.168.5` have a direct connection. Clients with IP addresses beginning `192.168.10` connect using the SOCKS proxy server `taurus.indigo-insurance.com` on TCP port 8080.

## SGD Startup Scripts

In version 4.31, the startup scripts that ensure SGD services stop and start when an SGD server is rebooted are renamed and restructured. The `*Tarantella` and `*TarantellaWebserver` scripts are replaced by a single script named `*sun.com-sgd-base`. The `*tem` script for the SGD Enhancement Module is now named `*sun.com-sgd-em`.

## Untrusted Initial Connection Message

The Untrusted Initial Connection warning message that is displayed when users first connect to an SGD server is enhanced. Users can now view the server's security certificate from this message.



# 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 27
- “Known Bugs and Issues” on page 30
- “Bug Fixes in Version 4.41” on page 43
- “Bug Fixes in Version 4.40” on page 48
- “Bug Fixes in Version 4.31” on page 50
- “Documentation Issues in Version 4.41” on page 51

## 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 4.40	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
Secure Global Desktop Enterprise Edition 4.1			March 31, 2007
Secure Global Desktop Enterprise Edition 4.0			March 31, 2007

Software and Version	End of Full Support	End of Limited Support	End of Service Life
Secure Global Desktop Software Appliance 4.0			March 31, 2007
Secure Global Desktop Enterprise Edition 3.44*			December 31, 2007
Secure Global Desktop Enterprise Edition 3.42			March 31, 2007
Tarantella Enterprise 3 (including TASP)			March 31, 2007

\* Japanese only

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 4.41 are as follows:

- **SGD servers.** OpenSolaris is supported as an SGD server installation platform in this release. Solaris OS 8, Solaris OS 9, Red Hat Enterprise Linux 4, Fedora Linux 8, and SUSE Linux Enterprise Server 9 are not supported.

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	Latest version
Red Hat Enterprise Linux (Intel x86 32-bit)	5
SUSE Linux Enterprise Server (Intel x86 32-bit)	10

- **SGD Enhancement Module.** OpenSolaris is supported as an installation platform for the SGD Enhancement Module in this release. Windows 2000 Server, Red Hat Enterprise Linux 4, Fedora Linux 8, SUSE Linux Enterprise Server 9, and SUSE Linux Enterprise Server 10 are not supported.



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

Operating System	Supported Versions
Microsoft Windows	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.** OpenSolaris is a supported client platform for this release. Solaris 8 OS, Solaris 9 OS, Microsoft Windows 2000 Professional, Fedora Linux 8, and SUSE Linux Enterprise Desktop 10 are not supported in this release. The Internet Explorer 6.0 browser is not supported.

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 7.0+ Mozilla Firefox 2.0+
Microsoft Windows XP Professional	Internet Explorer 7.0+ Mozilla Firefox 2.0+
OpenSolaris on x86 platforms (latest version)	Mozilla Firefox 2.0+
Solaris 10 OS on SPARC platforms	Mozilla Firefox 2.0+
Solaris 10 OS on x86 platforms	Mozilla Firefox 2.0+
Solaris 10 OS Trusted Extensions on x86 platforms	Mozilla Firefox 2.0+
Mac OS X 10.4+, 10.5+	Safari 2.0+ Mozilla Firefox 2.0+
Red Hat Desktop (latest version)	Mozilla Firefox 2.0+
Ubuntu (latest version)	Mozilla Firefox 2.0+

---

# Known Bugs and Issues

This section lists the known bugs and issues with SGD version 4.41.

## 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 Sun Java Plug-in 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 Sun Java Plug-in 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 `kill gnome-panel` command to restart the `gnome-panel` and pick up new menu information.

---

**Note –** You must run the `kill 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 Systems

**Problem:** On Sun Java Desktop Systems (JDS), 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 web browser settings, but a Sun Java Plug-in 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 web browser settings to determine whether to use Java technology.

**Solution:** Install the Sun Java Plug-in tool and create a symbolic link from the web browser plug-ins directory to the location of the JVM. Refer to your web 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 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.

## 6609518 – Array Joining When Running the Administration Console From a Secondary Server

**Problem:** You cannot add a new secondary server to an SGD array when the Administration Console is running on an existing secondary server.

**Cause:** In this release, it is not possible to supply credentials for more than one secondary server.

**Solution:** Run the Administration Console on the primary server, or on the server that is to be joined into the array.

## 6610760 – Custom PDF Printer Settings Not Applied For Windows Applications

**Problem:** Custom PDF printer settings are not applied when printing from Windows applications.

For example, if you *enable* the SGD Universal PDF Printer and Universal PDF Viewer printers for an organizational unit (OU) object. Then, you override the parent objects setting and *disable* the Universal PDF Printer and Universal PDF Viewer printers for a user in the OU. The custom printer settings are not inherited by the user.

**Cause:** A known issue when inheriting PDF printer settings.

**Solution:** No known solution. Configure PDF printer settings at OU or organization level wherever possible, rather than at user level.

## 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

**Problem:** Integrated mode does not work correctly for arrays where the SGD load-balancing JSP 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.

## 6618698 – Blank Webtop When Using LDAP Authentication

**Problem:** Users who log in using the LDAP authentication mechanism see a blank webtop.

**Cause:** LDAP assignment of applications fails if the user object does not match the following LDAP search filter:

```
( | (objectclass=user) (objectclass=person) (uid=*) )
```

For example, LDAP assignment of applications fails if an LDAP object is of `inetOrgPerson` object class and does not have a `uid` attribute.

**Solution:** In the LDAP directory, ensure that SGD users are of `person` or `user` object class. Alternatively, assign a `uid` attribute to the LDAP object describing the SGD user.

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

**Problem:** High 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 (AD) authentication mechanism in large AD 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 JDS 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 JDS 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 JDS 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 4.41 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.

## 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`.

## 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 4.41 Installation Guide*.

## 6712191 – Active Directory Password Expiry Dialog Issues

**Problem:** The password expiry dialog used for Active Directory authentication does not work correctly. Users are unable to change their password. Additionally, log in to SGD can fail if the user does not enter a domain name.

**Cause:** A `default_realm` entry is not present in the Kerberos configuration file used by the SGD server. The `default_realm` setting is used by the Kerberos password expiry mechanism. Additionally, for users who log in without typing a domain name, SGD uses the `default_realm` in cases where the Active Directory Default Domain (`--login-ad-default-domain`) attribute is not set.

**Solution:** Edit the Kerberos configuration file used by the SGD server, ensuring a valid entry is present for `default_realm`. See the *Sun Secure Global Desktop 4.41 Administration Guide* for more information about the Kerberos configuration file.

## 6716771 – Default Printer Not Created for Windows 2008 Applications

**Problem:** When printing from applications hosted on a Windows 2008 Server application server to a UNIX, Linux, or Mac OS X platform client device, a default client printer is not shown in the Windows application print dialog.

**Cause:** The default printer driver used by SGD is QMS 1060 Print System. This printer driver is not included with Windows 2008 Server.

**Solution:** Do either of the following:

- Install the QMS 1060 Print System printer driver on the Windows 2008 Server application server.
- Edit the global printer configuration file on the SGD server, and specify a different default printer driver. The global printer configuration file is `/opt/tarantella/etc/data/default.printerinfo.txt`.
- Edit the user-specific printer configuration file on the client device, and specify a different default printer driver. The user-specific printer configuration file is `$HOME/.tarantella/printerinfo.txt`.

See the *Sun Secure Global Desktop 4.41 Administration Guide* for more details about configuring printer drivers for UNIX, Linux, and Mac OS X platform client devices.

## 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 Secure Sockets Layer (SSL) 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.

## 6734906 – “Network is Unreachable” Messages in Apache Log File

**Problem:** The error log for the Apache component of the SGD Web Server contains multiple “Network is unreachable” warning messages. The error log is at `/opt/tarantella/webserver/apache/2.2.8_openssl-0.9.8g_jk1.2.25/logs/error_log`.

Although this issue results in large log files, it does not affect the operation of SGD.

**Cause:** A known issue.

**Solution:** The workaround is to set the `LogLevel` directive to `error` in the main Apache configuration file at `/opt/tarantella/webserver/apache/2.2.8_openssl-0.9.8g_jk1.2.25/conf/httpd.conf`.

## 6742027 – Installation of SGD Appears to Hang

**Problem:** Installation of SGD version 4.41 can take much longer than expected. The installation procedure halts at the following line:

```
...  
Configuring and starting Secure Global Desktop web server...
```

Installation eventually completes with no adverse affects.

**Cause:** A known issue when installing SGD version 4.41. The installation program attempts to access a location on `/net/telford`.

**Solution:** The workaround is to add a DNS entry for `telford`.

## 6742916 – Issues With Routing Token Redirection for Session Directory

**Problem:** Resuming of Windows Terminal Services sessions is not handled correctly when using Session Directory with routing token redirection.

**Cause:** A known issue.

**Solution:** Use IP address redirection for Session Directory. This is the default setting for Windows Terminal Services.

## 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 `*`.

## 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 KB 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.

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## 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.prfl</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.

Reference	Description
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 "/".
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	"Hangu" 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.
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	ttauxserv 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 es_MX ISO8859-1.
6623775	Need to secure Active Directory queries without using client certificates from the Active Directory server.
6624044	The server/webtop/* logging filter is incorrect.



Reference	Description
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 dc 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.
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.

Reference	Description
6653001	SGD Client crash when cancelling paste action in Trusted Extensions Sun Ray client.
6653019	Suspended Windows session causes <code>ttatasc</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.
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>ttatasc</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.

Reference	Description
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 ou= 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.
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 <code>XSelectInput</code> via copy and paste incremental selections.

Reference	Description
6704749	Print job size does not match in webtop and command line.
6704925	Problems with portuguesebrasilian_abnt2 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.

Reference	Description
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.
6469935	SGD Client should be able to match hostname to DNS item in certificate <code>subjectAltName</code> 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>tta_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.

Reference	Description
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 <code>setuid</code> , and SGD user has no home directory.
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.

## Bug Fixes in Version 4.31

The following table lists the significant bugs that are fixed in the 4.31 release.

Reference	Description
2140625	Time zone redirection is fixed for clients on UNIX platforms.
2145026	Licensing information is not copied to all the secondaries until after a restart.
2145602	X application launch is slow or times out. Possible error in the Input Method handling in the <code>procs.exp</code> script.
2145932	Windows key functionality is being held when returning to SGD session.

Reference	Description
2146043	Using client drive mapping, you cannot overwrite a larger file.
2146285	Tomcat fails and icons do not appear on the webtop.
6440254	The proxy server authentication dialog does not display realm information.
6443192	Upgrading using the <code>pkgadd</code> command on Solaris OS reports hundreds of file conflicts.
6443840	The SGD Client does not understand proxy failover from proxy server configuration (PAC) files.
6474180	The <code>HARD_SERVER_LIMIT</code> of the SGD Web Server is increased to 1024.
6480225	In Integrated mode, applications fail to resume on UNIX client platforms.
6494450	Client drive mapping cannot handle files larger than 2 gigabytes.
6499639	A recursive directory request causes a segmentation fault when using client drive mapping on UNIX and Linux platforms.
6503627	The <code>xfrbelgian.txt</code> keyboard map file contains a mistake.
6518152	Start menu is not updated using Integrated mode on Microsoft Windows Vista client devices.
6518638	The <code>tarantella print cancel</code> command deletes all print jobs instead of just the selected job.
6525384	XRDP does not work with SGD.
6528037	Page Not Found displays on the webtop when a group containing hosts is deployed by mistake to a webtop.
6506222	A user's <code>.xdefaults</code> file is not used when launching an application.

## Documentation Issues in Version 4.41

This section lists the known documentation issues for the 4.41 release.

### Correction to the “Selecting a Cipher Suite for Secure Intra-Array Communication” Section

In the “Selecting a Cipher Suite for Secure Intra-Array Communication” section on page 55 of the *Sun Secure Global Desktop 4.41 Administration Guide*, the following sentence is incorrect:

“By default, the SGD uses the `RSA_WITH_AES_256_CBC_SHA` cipher suite.”

The corrected sentence is as follows:

“By default, SGD uses the TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA cipher suite.”

## Correction to the “Keep Alive Configuration for Windows Terminal Servers” Section

The “Keep Alive Configuration for Windows Terminal Servers” section on page 166 of the *Sun Secure Global Desktop 4.41 Administration Guide* contains an invalid link to Microsoft Knowledge Base Article 216783.

The corrected link is as follows:

<http://support.microsoft.com/?kbid=216783>

## Correction to the “How to Configure SSL Connections to Active Directory” Section

The “How to Configure SSL Connections to Active Directory” section on page 83 of the *Sun Secure Global Desktop 4.41 Administration Guide* contains incorrect port number information.

The port number information in step 4 of the procedure should read as follows:

“The ports required depends on the SSL configuration used for Active Directory authentication, as follows:

- **SSL connections without client certificates** – TCP port 636 for the secure LDAP connection to an Active Directory server, and TCP port 3269 for the secure connection to the global catalog server
- **SSL connections with client certificates** – TCP port 389 for the secure LDAP connection to an Active Directory server, and TCP port 3268 for the secure connection to the global catalog server”