



Java Desktop System Release 3 Accessibility Release Notes

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Preface

These release notes provide release information about the accessibility features and accessibility applications in the Sun Java™ Desktop System Release 3 for the Solaris™ 10 Operating System. Please read these release notes before you install or use the accessibility features of the Java Desktop System Release 3.

Supported Systems

This release of the Java Desktop System supports the following systems:

- Systems running the Solaris 10 Operating System on SPARC® platforms.
- Systems running the Solaris 10 Operating System on x86 platforms.

Table P-1 describes where you can find information about systems that are supported by the Solaris Operating System, relevant to this product release. In the Java Desktop System documentation, the term *x86* refers to the processor families shown in Table P-1.

TABLE P-1 Supported Solaris Systems

Architecture	Processor Families	Solaris Systems
SPARC	<ul style="list-style-type: none">■ SPARC64■ UltraSPARC	See the <i>Solaris 10 Hardware Compatibility List</i> at the following location: http://www.sun.com/bigadmin/hcl
x86	<ul style="list-style-type: none">■ AMD64■ Pentium■ Xeon	See the <i>Solaris 10 Hardware Compatibility List</i> at the following location: http://www.sun.com/bigadmin/hcl

Who Should Read These Release Notes

These release notes are for users who perform the following tasks with the Java Desktop System Release 3 on Solaris Operating Systems:

- Install the Java Desktop System accessibility features.
- Administer the Java Desktop System accessibility features.
- Use the Java Desktop System accessibility features.

Related Documentation

The following manuals are related to these release notes:

- *Java Desktop System Release 3 Accessibility Guide*
- *Java Desktop System Release 3 Administration Guide*
- *Java Desktop System Release 3 for the Solaris 10 Operating System Release Notes*
- *Java Desktop System Release 3 Troubleshooting Guide*
- *Java Desktop System Release 3 User Guide*

Associated Documentation

The following documents are associated with these release notes:

- *Java Desktop System Email and Calendar User Guide*
- *StarOffice 7 Office Suite Administration Guide*
- *StarOffice 7 Office Suite Basic Guide*
- *StarOffice 7 Office Suite Setup Guide*
- *StarOffice 7 Office Suite User's Guide*

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Typographic Conventions

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

TABLE P-2 Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. Do <i>not</i> save the file. (Emphasis sometimes appears in bold online.)

Shell Prompts in Command Examples

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

TABLE P-3 Shell Prompts

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

Mouse Usage Conventions

The following table lists the conventions for mouse usage in documentation for the Java Desktop System.

Action	Definition
Click	Press and release the left mouse button, without moving the mouse.
Click-and-hold	Press and do not release the left mouse button.
Left-click	Same as <i>click</i> . Left-click clarifies the action when there might be confusion with <i>right-click</i> .
Middle-click	Press and release the middle mouse button, without moving the mouse.
Right-click	Press and release the right mouse button, without moving the mouse.
Double-click	Press and release the left mouse button twice in rapid succession without moving the mouse.
Drag	Click-and-hold a mouse button, then move an object. For example, you can drag a window or an icon. The left and middle mouse buttons can perform drag actions.
Drag-and-drop	Click-and-hold a mouse button, then move an object. For example, you can drag-and-drop a window or an icon. Release the mouse button to place the object in a new location.
Grab	Point to an item that you can move, and click-and-hold on the mouse button. For example, you can grab the titlebar of a window, then drag the window to a new location.

Accessibility Release Notes

These release notes provide accessibility information for the following releases of the Java Desktop System on Solaris Operating Systems:

- Java Desktop System Release 3 for the Solaris 10 Operating System on SPARC platforms.
- Java Desktop System Release 3 for the Solaris 10 Operating System on x86 platforms.

1.1 Accessibility Features

The Java Desktop System includes the following accessibility features:

Accessible login

The Java Desktop System includes an Accessible Login feature. The Accessible Login feature enables you to:

- Log in to the desktop even if you cannot easily use the screen, mouse, or keyboard in the usual way.
- Launch assistive technologies at login time by using special gestures from the standard keyboard, or from a keyboard, pointing device, or switch device that is attached to the USB or PS/2 mouse port.
- Change the visual appearance of the login dialog before you log in, for example, you may want to use a high contrast theme for better visibility.

For information about configuring your system for accessible login, see the *Java Desktop System Release 3 Accessibility Guide*.

Keyboard Accessibility preference tool, also known as AccessX

This preference tool enables you to configure the keyboard accessibility options such as mouse keys, slow keys, bounce keys, sticky keys, toggle keys, and repeat keys.

Assistive technologies

The Java Desktop System contains the following applications to enable users with a physical disability to use the desktop:

- On-Screen Keyboard (GOK)
- Screen Reader and Magnifier (Gnopernicus)

For more information about these applications, see the online Help for GOK and Gnopernicus.

Keyboard navigation

Users who have difficulty using a mouse or other pointing device can navigate and use the desktop from the keyboard. For more information about keyboard navigation, see the *Java Desktop System Release 3 Accessibility Guide*.

Accessible themes

There are several themes available that suit different accessibility needs. For more information about themes, see the *Java Desktop System Release 3 Accessibility Guide*.

1.2 Support for Sun Ray Systems

The Java Desktop System Release 3 currently provides minimal accessibility support for Sun Ray™ systems. The following accessibility features do not work on Sun Ray systems:

- Keyboard Accessibility preference tool
- On-Screen Keyboard
- The magnifier component of the Screen Reader and Magnifier application

1.3 Known Issues Without Workarounds

The following table describes known accessibility issues in the Java Desktop System for which a workaround has not yet been identified on Solaris Operating Systems.

Topic	Known Issue
Desktop	<ul style="list-style-type: none">■ Change Request Number: 5080638 Accessible Login: If you log in using accessibility features on the Java Desktop System for the Solaris platform, the following error dialog might appear: <code>Error activating XKB configuration</code>. This error does not affect your session. You can close the error dialog and continue with your session.■ Change Request Number: 6192693 Screensaver Preference Tool: If support for assistive technologies is enabled, the Screensaver preference tool crashes.
Screen Reader and Magnifier	<ul style="list-style-type: none">■ Change Request Number: 6202416 File Manager: The Nautilus file manager crashes frequently when the Screen Reader and Magnifier application is running.■ Change Request Number: 5085440 Email and Calendar: When you use the Screen Reader and Magnifier application to read mail messages in the Email and Calendar application, speech output is interrupted when there is a hyperlink or bold text in the message.
Screen Reader and Magnifier and On-Screen Keyboard	<ul style="list-style-type: none">■ Change Request Number: 6200425 and 6200696 Web Browser: When you use the Screen Reader and Magnifier or On-Screen Keyboard applications with the Mozilla web browser, the performance is slow in some areas, for example, when you open the File menu or move the scrollbar.

1.4 Known Issues With Workarounds

This section identifies workarounds for known accessibility issues in the Java Desktop System.

1.4.1 Desktop Issues

The following sections describe general desktop issues.

1.4.1.1 Application Crash Affects Accessibility Applications

Problem	If an application crashes, the application can continue to run but CORBA traffic to and from the application stops. This situation might prevent accessibility information from passing between other applications and the accessibility applications.
Solution	To resolve the situation, set the following environment variable value to 1: GNOME_DISABLE_CRASH_DIALOG

1.4.1.2 Moving or Resizing Windows Freezes Accessibility Applications

Problem	Change Request Number: 6200511 If you try to move or resize windows while you are using the accessibility applications, the applications may freeze.
Solution	Disable wire frame mode in Window Manager. Perform the following steps: <ol style="list-style-type: none">1. Click Launch, then choose Applications → Utilities → Configuration Editor.2. In GConf editor, choose Apps → Metacity → General.3. Ensure that the reduced_resources key is not selected. Alternatively, you can enter the following command from a terminal window: <pre>gconftool-2 -t bool -s /apps/metacity/general/reduced_resources false</pre>

1.4.1.3 Gestures for Starting Accessibility Applications Not Working

Problem	Change Request Number: 6214222 The GNOME Display Manager (GDM) gestures for starting the assistive technologies such as On-Screen Keyboard and Screen Reader and Magnifier do not work.
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Solution Use the full path to the applications in the GDM configuration files.

Perform the following steps:

1. Edit the following two files:
 - /etc/X11/gdm/modules/AccessKeyMouseEvents
 - /etc/X11/gdm/modules/AccessDwellMouseEvents
2. Replace all occurrences of `gok` with `/usr/sfw/bin/gok`.
3. Replace all occurrences of `srcore` with `/usr/sfw/bin/srcore`.
4. Save the files.

1.4.1.4 Timezone Icon Taking Over Vertical Panels

Problem Change Request Number: 6208184

If you are using the High Contrast Large Print Inverse theme and you change the orientation of the bottom panel to be Left or Right, the Timezone icon on the panel increases in size until it takes over the entire panel and affects system resources.

Solution Do not change the orientation of horizontal panels that contain the Timezone icon.

1.4.2 Screen Reader and Magnifier Issues

The following sections describe Screen Reader and Magnifier issues.

1.4.2.1 Speech and Navigation Not Working for Web Browser, Email and Calendar, or Help Content

Problem Change Request Number: 6216962

You are unable to navigate or receive speech output for HTML containers such as web pages, email messages, or Help content.

Solution Press F7 to enable caret navigation mode. Refer to the following table for more information about how to use the caret navigation mode. You can also refer to the online Help for the Web Browser or Email and Calendar applications.

TABLE 1-1 General Caret Navigation

Key	Function
left arrow key	Move one character to the left.
right arrow key	Move one character to the right.
up arrow key	Move up one line.
down arrow key	Move down one line.
Ctrl + left arrow key	Move to the beginning of the previous word.
Ctrl + right arrow key	Move to the end of the next word.
Page Up	Scroll up one page of content.
Page Down	Scroll down one page of content.
Home	Move to the beginning of the current line.
End	Move to the end of the current line.
Ctrl + Home	Move to the beginning of the current frame.
Ctrl + End	Move to the end of the current frame.
Shift + any of the keys listed above	Move from the current position to the destination position and select all text between the two positions.
Tab	Move focus to the next focusable control.
Shift + Tab	Move focus to the previous focusable control.
F6	Move to the next frame in the current document and the location bar.
Shift + F6	Move to the previous frame in the current document and the location bar.
Enter	Activate a button or submit a form.

1.4.2.2 Setting Dual-Head Magnification

Problem Change Request Number: 5083128
You are having difficulty setting dual-head magnification.

Solution	<p>To set either virtual or real dual-head magnification in the Screen Reader and Magnifier application, you must perform the following steps:</p> <ol style="list-style-type: none"> 1. Open the Zoomer Options dialog. 2. Type the value you require in the Source field, then press Return. 3. Type the value you require in the Target field, then press Return. <p>Note – The changes to the Source and Target fields do not take effect until you press Return.</p>
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1.4.2.3 Magnifier Does Not Show Window Movement

Problem	<p>Change Request Number: 6199904</p> <p>When you move windows, the movement is not visible in the Screen Reader and Magnifier magnification area.</p>
Solution	<p>Disable wire frame mode in Window Manager.</p> <p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Click Launch, then choose Applications → Utilities → Configuration Editor. 2. In GConf editor, choose Apps → Metacity → General. 3. Ensure that the reduced_resources key is not selected. <p>Alternatively, you can enter the following command from a terminal window:</p> <pre>gconftool-2 -t bool -s /apps/metacity/general/reduced_resources false</pre>

1.4.2.4 Magnifier Crashes When Using a Second Framebuffer

Problem	<p>Change Request Number: 6205225</p> <p>On a system with two framebuffers configured, full screen magnification does not work.</p>
Solution	<p>Please contact the Customer Resolution Center to obtain a patch for this issue.</p>

1.4.2.5 Magnifier Does Not Correctly Display Java Applications

Problem	Change Request Number: 6202413 Java applications are not displayed correctly in the magnifier. The entire Java window may initially be blank in the magnified area.
Solution	Set the following environment variable: <code>NO_J2D_DGA=true</code>

1.4.3 On-Screen Keyboard Issues

The following sections describe On-Screen Keyboard issues.

1.4.3.1 Cannot Start a Web Browser from the On-Screen Keyboard

Problem	Change Request Number: 6211656 When you activate Launcher in the GOK — main window and then activate Web Browser , a web browser application does not start.
Solution	Perform the following steps: <ol style="list-style-type: none">1. Edit the <code>/usr/share/gok/launcher.kbd</code> file.2. Replace "mozilla" with <code>"/usr/sfw/bin/mozilla"</code>.3. Save the file.

1.4.3.2 On-Screen Keyboard Cannot Display Web Browser Submenus

Problem	Change Request Number: 5070427 The On-Screen Keyboard application cannot display Web Browser submenus if the submenus were not previously displayed.
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Solution

Perform the following steps:

1. Activate **Compose** in the **GOK — main** window.
2. Activate the keyboard shortcut for the menu that contains the submenus that you want to view.
For example, activate Alt+B to display the **Bookmarks** menu. The Bookmarks submenus are now displayed in the On-Screen Keyboard.

1.4.4 StarOffice Issues

The following section describes StarOffice issues.

1.4.4.1 StarOffice Is Not Accessible

Problem

You started the StarOffice application before you configured the Java environment for accessibility and StarOffice cannot detect an accessible Java runtime environment.

Solution

Perform the following steps:

1. Follow the instructions in the section entitled “Configuring the Java Environment for Accessibility” in the *Java Desktop System Release 3 Accessibility Guide*.
2. Enter the following command from a terminal window:
`/usr/staroffice7/program/jvmsetup`

1.5 Where To Find Documentation

You can view PDF and HTML versions of the documentation for the Java Desktop System in the following locations:

- On the accompanying Documentation CD.
- On <http://docs.sun.com>.

