

Oracle® Virtual Desktop Client for iPad

User Guide for Release 1.2



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Oracle® Virtual Desktop Client for iPad: User Guide for Release 1.2

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Abstract

This manual describes how to use Oracle Virtual Desktop Client for iPad to log into a Sun Ray Software or Oracle Virtual Desktop Infrastructure server and start or reconnect to a session.

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Preface

The *Oracle Virtual Desktop Client for iPad User Guide for Release 1.2* provides an introduction to using Oracle Virtual Desktop Client for iPad. The manual provides information on how you can use Oracle Virtual Desktop Client to connect to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server.

Audience

This document is intended for new users of Oracle Virtual Desktop Client. It is assumed that readers are familiar with Web technologies.

Document Organization

The document is organized as follows:

- [Chapter 1, *Introducing Oracle Virtual Desktop Client for iPad*](#) provides a brief introduction to Oracle Virtual Desktop Client.
- [Chapter 2, *Using Oracle Virtual Desktop Client for iPad*](#) describes how to use Oracle Virtual Desktop Client to connect to a session.
- [Chapter 3, *Configuring Oracle Virtual Desktop Client for iPad*](#) describes how to change the configuration of Oracle Virtual Desktop Client.
- [Chapter 4, *Frequently Asked Questions*](#) answers some frequently asked questions (FAQs) about Oracle Virtual Desktop Client.

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Related Documents

The documentation for this product is available at:

<http://www.oracle.com/technetwork/documentation/virtualdesktopclient-411777.html>.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Chapter 1. Introducing Oracle Virtual Desktop Client for iPad

This chapter provides an introduction to Oracle Virtual Desktop Client for iPad.

1.1. About Oracle Virtual Desktop Client for iPad

Oracle Virtual Desktop Client is an application that enables you to access your virtual desktop from anywhere and from almost any device. You use Oracle Virtual Desktop Client to connect to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server to access your virtual desktop.

Because Oracle Virtual Desktop Client installs on a variety of client operating systems, you can use your PC, laptop, or iPad as an alternative to using a Sun Ray Client. Oracle Virtual Desktop Client for iPad allows you to easily and securely access desktop applications and data that are hosted in your data center – all while on the go.

This manual describes how to use the iPad version of Oracle Virtual Desktop Client.

1.2. Features of Oracle Virtual Desktop Client for iPad

Oracle Virtual Desktop Client for iPad includes the following features:

iPad Graphical User Interface (GUI) Support

- Simple, intuitive, and accurate gestures and navigation
- Rich keyboard support, including additional keys for the iPad on-screen keyboard, enables enhanced user interactions with your applications
- International on-screen keyboard support
- Apple Wireless Keyboard and iPad Keyboard Dock support
- On-screen keyboard and side bar menu icons for easy access
- Fast and responsive interface
- Supports screen resolutions compatible with high resolution iPad displays
- Copy and paste of text between iPad and the remote desktop

Multimedia

- Smooth multimedia playback experience on Oracle Desktop Virtualization hosted applications, including Adobe Flash Player and Windows Media Player
- Bidirectional audio enables clear two-way communication
- Optimized multimedia delivery to the local client provides enhanced network utilization and scalability

Security

- Secure remote access, using your existing Virtual Private Network (VPN) software
- Uses the ultra secure Appliance Link Protocol (ALP) with Sun Ray Software or Oracle Virtual Desktop Infrastructure

Multi-tasking

- Increase productivity with the ability to instantly switch between virtual and native applications

Configurability

- Simple configuration of connection settings
- Auto discovery of available Sun Ray Software and Oracle Virtual Desktop Infrastructure servers

Connectivity

- Click-and-go connectivity to configured and available desktops and applications

Chapter 2. Using Oracle Virtual Desktop Client for iPad

This chapter describes how you can use Oracle Virtual Desktop Client to connect to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server from your iPad and log in to a session.

Details of the supported gestures when you are working in a session are included, as well as information on using the on-screen keyboard.

Finally, the procedure for disconnecting from a session is described.

2.1. Before You Begin

Before you begin to use Oracle Virtual Desktop Client, check the following:

- Ensure you know the user name and password for your Sun Ray Software or Oracle Virtual Desktop Infrastructure session.
- (Optional) Ensure you know the name or IP address of your Sun Ray Software or Oracle Virtual Desktop Infrastructure server.

This information is only required if you need to configure Oracle Virtual Desktop Client with your server details.

If your administrator has preconfigured Oracle Virtual Desktop Client for your server, you do not need to know these details.

2.2. Connecting to a Server

1. Start the Oracle Virtual Desktop Client application.

On the Home screen, tap the Oracle Virtual Desktop Client application icon.

Figure 2.1. Oracle Virtual Desktop Client Application Icon



The Oracle Virtual Desktop Client connect screen is displayed.

Figure 2.2. Oracle Virtual Desktop Client Connect Screen


To view help on Oracle Virtual Desktop Client, tap one of the links at the bottom left of the connect screen. See [Section 4.1, “How Can I Get More Help on Using Oracle Virtual Desktop Client?”](#).

The Oracle Virtual Desktop Client software version is shown at the bottom right of the connect screen.

2. Specify a server to connect to.

For the Server field, do one of the following:

- **Choose the Find Automatically option.** Use this option if you want Oracle Virtual Desktop Client to find a server on your network automatically. See [Section 2.3, “Auto Discovery of Servers”](#).

Tap the  button to show the servers list.

Choose the **Find Automatically** option in the servers list.

- **Enter the name of a server.** If you know the name of the server, enter this in the Server field.

Tap in the Server field to display the on-screen keyboard.



Note

You can enter a host name or IP address for the server. See [Section 4.2, “Do I Need to Know the Name of My Server?”](#).

- **Choose a server you have connected to before.** Tap the  button to show a list of servers that you have connected to previously.

Choose the server from the servers list. See [Figure 2.3, “Servers List, Showing Previous Server Connections”](#).

Figure 2.3. Servers List, Showing Previous Server Connections

3. Connect to the server.

Tap the **Connect** button.

Oracle Virtual Desktop Client connects to the server and displays the login screen.

4. Log in to the session.

Enter the user name and password for your Sun Ray Software or Oracle Virtual Desktop Infrastructure session.

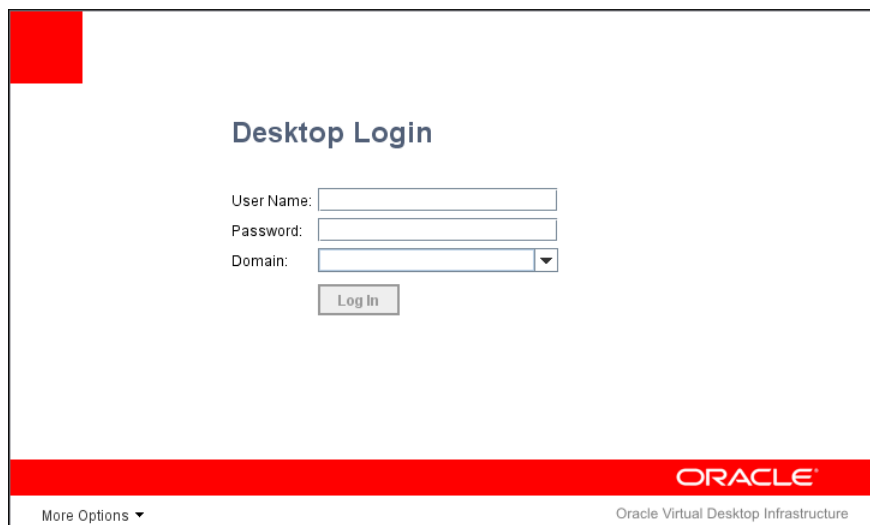
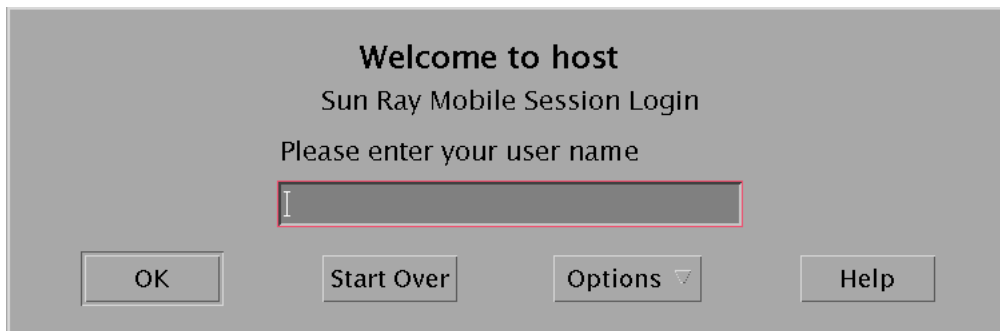
Figure 2.4. Oracle Virtual Desktop Infrastructure Login Screen

Figure 2.5. Sun Ray Software Login Screen


Welcome to host
Sun Ray Mobile Session Login

Please enter your user name

When you are not using an external keyboard, the on-screen keyboard is displayed automatically.

After logging in, the session is displayed.

An example session is shown in [Figure 2.6, “Full-Screen Windows Desktop Session Displayed Using Oracle Virtual Desktop Client for iPad”](#). This figure shows a desktop session that is displayed using the whole area of the iPad screen.

Figure 2.6. Full-Screen Windows Desktop Session Displayed Using Oracle Virtual Desktop Client for iPad

2.3. Auto Discovery of Servers

Oracle Virtual Desktop Client includes the ability to automatically discover servers for connection. This auto discovery process uses several techniques including Dynamic Host Configuration Protocol (DHCP), DNS lookups, and broadcast to select a server on your network automatically.

Auto discovery of servers is enabled when you select the **Find Automatically** option in the Server field on the connect screen. Oracle Virtual Desktop Client then finds a server on your network automatically.



Note

Depending on your network configuration, auto discovery may not be available when accessing the network from remote locations. If auto discovery is not available, contact your administrator for details of the server name.

2.4. Using Gestures in a Session

A *gesture* is a finger motion that is used to interact with the iPad touch screen. The following table shows the supported gestures when you are working in a session.

Table 2.1. Supported Gestures in a Session

Gesture	Action
Tap with one finger	Left mouse-button click
Tap with two fingers	Right mouse-button click
Drag upwards with three fingers ^a	Display the on-screen keyboard
Touch and hold, then drag	Left mouse-button click + drag
Pinch fingers together	Zoom out
Pinch fingers apart (<i>unpinch</i>)	Zoom in
Drag with one finger	Pan across the screen. Only available when zoomed in.
Drag from the left side of the screen with three fingers ^b	Display the Oracle Virtual Desktop Client side bar
Drag downwards or upwards with two fingers	Simulates scrolling using the middle scroll wheel on a mouse
Drag down with three fingers	Display the Sun Ray Windows connector (uttsc) toolbar

^a Tap with three fingers also displays the keyboard.

^b Drag from the left side of the screen using two fingers also displays the side bar.

To view help information on supported gestures, tap the **Gestures** link on the connect screen, or on the side bar.

2.5. Using the On-Screen Keyboard

To display the on-screen keyboard, do either of the following:

- Drag upwards on the screen with three fingers
- Tap the keyboard button at the bottom right of the screen

Figure 2.7. Keyboard Button

You can drag the keyboard button to another position on screen.

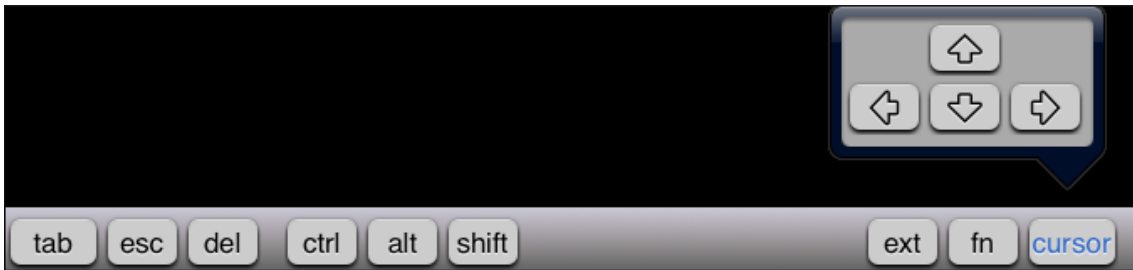
**Tip**

If you do not want to use the keyboard button, you can turn it off on the **Virtual Desktop** page in iPad Settings. See [Section 3.2, “iPad Configuration Settings”](#).

2.5.1. iPad Keyboard Extensions

To provide enhanced support for keyboard input during a session, some additional keys have been added to the iPad on-screen keyboard.

The additional keys are at the top of the on-screen keyboard, as shown in [Figure 2.8, “Additional iPad Keys for Oracle Virtual Desktop Client”](#).

Figure 2.8. Additional iPad Keys for Oracle Virtual Desktop Client

[Table 2.2, “Additional iPad Keys for Oracle Virtual Desktop Client”](#) lists the additional keys.

Table 2.2. Additional iPad Keys for Oracle Virtual Desktop Client

Key	Description
tab	Tab
esc	Escape
del	Delete
ctrl	Control
alt	Alt
shift	Shift
ext	Extra keys. A list of options enables you to select from the following extra keys: Insert, Home, End, Page Up, Page Down
fn	Function keys. A list of options enables you to select a function key, from F1 to F12.

Key	Description
cursor	Cursor keys. A list of options enables you to select from the following cursor keys: Left, Right, Up, Down

2.5.1.1. Using the Additional Keys

1. Display the on-screen keyboard.
2. Tap the required key strokes.

You can use the additional keys in combination with the normal keys.

For example, to type **Control-C**, tap the **ctrl** key. After it turns blue, then tap the **C** key.

To lock an additional key, tap it twice.

See your iPad documentation for more information about using the on-screen keyboard.

2.5.2. Changing the Keyboard Language

See [Section 3.3, “Changing the Keyboard Language”](#) for details of how to change the language for the on-screen keyboard.

2.6. Disconnecting From a Session

1. (Optional) Log out of the session.

The procedure used to log out of a session depends on the type of session. For example:

- For an Oracle Virtual Desktop Infrastructure Windows desktop session, tap the **Log Off** option in the Windows Start menu.
- For a Sun Ray GNOME desktop session, tap the **Log Out** option in the Sun Ray Launch menu.

2. Disconnect from the server.

- a. Display the side bar.

Do either of the following:

- Drag from the left side of the screen using three fingers.
- If the side bar button has been turned on, tap the side bar button.

See [Section 4.7, “How Do I Display the Side Bar?”](#) for more details about turning on and using the side bar button.

- b. Tap the **Disconnect** button in the side bar.

Figure 2.9. Disconnect Button



You are disconnected from the server and the connect screen is redisplayed.



Tip

You are not disconnected from the session if you press the **Home** button to return to the iPad Home screen.

Chapter 3. Configuring Oracle Virtual Desktop Client for iPad

This chapter describes how you can change the configuration of Oracle Virtual Desktop Client for iPad.

Details on how to configure the list of servers are included, as well as how to change settings such as the language used for the on-screen keyboard.

3.1. Configuring the Servers List


The servers list contains a list of servers that you have previously connected to. See [Figure 2.3, “Servers List, Showing Previous Server Connections”](#).

To display the servers list, tap the  button on the connect screen.

The list of servers is automatically populated as you use Oracle Virtual Desktop Client.

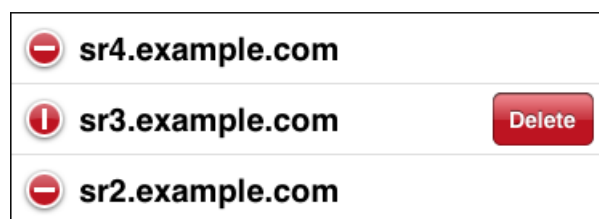
If the list contains incorrect or outdated host names, you can remove servers from the list. See [Section 3.1.1, “Removing a Server”](#).

3.1.1. Removing a Server

1. Tap the **Edit** button on the server list.
2. Tap the Delete icon  to the left of the server that you wish to remove.

The Delete icon rotates and a **Delete** button appears next to the server name. See [Figure 3.1, “Delete Server Screen”](#).

Figure 3.1. Delete Server Screen



3. Tap the **Delete** button.

The server is removed from the server list.

4. Save the changes you have made.

Tap the **Done** button.

3.2. iPad Configuration Settings

After you install Oracle Virtual Desktop Client, the iPad Settings app includes a section called **Virtual Desktop**. You use the **Virtual Desktop** page to configure settings for Oracle Virtual Desktop Client.

To display the Virtual Desktop page, tap the **Settings** icon on the Home page and select the **Virtual Desktop** option in the **Apps** section.

Figure 3.2. Settings for the Virtual Desktop Page

The available settings on this page are described in [Table 3.1, “Settings on the Virtual Desktop Page”](#).

Table 3.1. Settings on the Virtual Desktop Page

Setting	Description
Side Bar Button	<p>Displays an icon that you can use to show the side bar.</p> <p>The default setting is OFF.</p> <p>See Section 4.7, “How Do I Display the Side Bar?” for more details about using the side bar button.</p>
Primary Keyboard Country	<p>Changes the language used for the on-screen keyboard.</p> <p>See Section 2.5.2, “Changing the Keyboard Language” for more details about changing the keyboard language.</p>
Keyboard Button	<p>Displays an icon that you can use to show or hide the on-screen keyboard.</p> <p>The default setting is ON.</p> <p>See Section 2.5, “Using the On-Screen Keyboard” for more details about using the keyboard button.</p>
Dynamic Resize	<p>Resizes the session automatically when you rotate the tablet screen. This feature is called <i>dynamic session resizing</i>.</p> <p>The default setting is ON.</p>

Setting	Description
	To use dynamic session resizing, the feature must be enabled on the server. See Section 4.12, “What Happens If I Rotate My Tablet Display During a Session?” .
Session Size	<p>Configures the size of the session sent from the server. For the best user experience with large desktop sessions, you can choose a larger session size.</p> <p>To ensure that that the session size works well on your iPad, resolutions for some common portrait and landscape tablet displays are available.</p> <p>See Section 4.13, “Improving the User Experience for a Large Desktop Session”.</p>
Bandwidth	<p>Maximum bandwidth for the connection, in megabits per second.</p> <p>The default setting is 100 megabits per second, which is the maximum value.</p> <p>Decrease this setting if you are using a low bandwidth connection, or if you want to restrict the amount of server bandwidth used by Oracle Virtual Desktop Client.</p>
Maximum Transmission Unit	<p>The Maximum Transmission Unit (MTU) is the maximum packet size for network connections, in bytes.</p> <p>The default setting is 1500 bytes, which is the maximum setting.</p> <p>If you are experiencing problems when using a VPN, you might want to change this value. See Section 4.3, “Can I Connect Over a Virtual Private Network?”.</p>

3.3. Changing the Keyboard Language

To change the language for the on-screen keyboard used by Oracle Virtual Desktop Client, use the following steps.

1. Check that the keyboard language you want to use is present in the list of supported keyboards on the **General, International, Keyboards** page in iPad Settings.

If the language is not present in this list, add the language.

2. Set the primary keyboard country for Oracle Virtual Desktop Client.

This is the keyboard country code sent to the remote server.

Tap the **Settings** icon and go to the **Virtual Desktop** page.

Tap **Primary Keyboard Country** to display a list of languages supported by Oracle Virtual Desktop Client.

Figure 3.3. Setting the Primary Keyboard Country



Tap the **Auto** setting.



Note

The **Auto** setting detects automatically the country setting that is currently used by the iPad on-screen keyboard.

3. Switch the keyboard language when you are using the on-screen keyboard.

Tap the Globe key and select the language that you require.

Chapter 4. Frequently Asked Questions

This chapter provides the answers to some frequently asked questions (FAQs) about Oracle Virtual Desktop Client for iPad.

4.1. How Can I Get More Help on Using Oracle Virtual Desktop Client?

To view help on using Oracle Virtual Desktop Client, tap one of the following links on the connect screen, or the side bar:

- **Help.** Displays this User Guide.
- **Gestures.** Displays help on supported gestures.

4.2. Do I Need to Know the Name of My Server?

If you use the Find Automatically option for the Server field on the connect screen, you do not need to know the name of the server. See [Section 2.3, “Auto Discovery of Servers”](#) for more details.

If you have connected previously to the server, the server name is shown in the servers list. You can select the required server from the servers list.

If you want to connect to a specific server, you need to type the name of the server in the Server field. Depending on how your network is configured, you can use one or more of the following names:

- The full name of the server on the network, also called the DNS name. For example, `vdi-1.example.com`.
- The host name of the server. For example, `vdi-1`.
- The IP address of the server. For example, `123.456.789.12`.

Contact your administrator if you need to know the name of your Sun Ray Software or Oracle Virtual Desktop Infrastructure server.

4.3. Can I Connect Over a Virtual Private Network?

You can use Oracle Virtual Desktop Client to connect to a server over a Virtual Private Network (VPN). A VPN is typically used to provide secure access to a company network to people from outside the network, such as employees working from home. See your administrator if you need help to configure your iPad for connecting over a VPN.

When you are connected to a VPN, an icon is displayed in the iPad status bar.

If you are experiencing problems when using a VPN, you might want to decrease the Maximum Transmission Unit (MTU) setting to allow space for Internet Protocol Security (IPSec) headers. See [Table 3.1, “Settings on the Virtual Desktop Page”](#).

Contact your administrator for advice on the correct MTU setting for your network.

4.4. What If I Am Unable to Connect to a Sun Ray Server?

Sun Ray Software uses an on-screen display (OSD) to show the status of a connection. The OSD can be used to diagnose problems with a connection. For example, the following OSD icon indicates that the Sun Ray Software has not been enabled for access using Oracle Virtual Desktop Client.

Figure 4.1. Access Not Enabled OSD Icon



If you are unable to connect to the Sun Ray server and this icon is displayed, contact your administrator.

Your firewall configuration might prevent you from connecting to the Sun Ray server. Check that the firewall settings on your network allow you to use Oracle Virtual Desktop Client to access the Internet.

If the connection to the Sun Ray server fails, a warning screen is shown. When you tap **OK** at this screen, the connect screen is redisplayed. You can then connect to an alternative Sun Ray server.

4.5. Can I Play and Record Audio on My iPad?

If your administrator has enabled audio for sessions, you can play and record audio on your iPad. If you play a podcast, for example, the sound is output through the speaker on your iPad.

To record audio input from your iPad in a session, you can connect a microphone to the iPad, for example, and record the sound using software running on the server.

4.6. Can I Run Other iPad Applications While I am Using Oracle Virtual Desktop Client?

Yes. You can run other iPad applications at the same time as you are using Oracle Virtual Desktop Client. This is called *multi-tasking*.

When you press the Home button to switch away from your session, the Oracle Virtual Desktop Client application is suspended. You can then run other applications on your iPad.

Provided that your server is not configured to close the connection after a period of inactivity, you can usually resume your session when you switch back to Oracle Virtual Desktop Client.



Caution

If the iPad is running low on memory, it may terminate the Oracle Virtual Desktop Client application to free up memory. You cannot then resume your session by switching back to Oracle Virtual Desktop Client. Instead, you must reconnect to your session.

If you are experiencing issues with low memory, close down unwanted applications before you start Oracle Virtual Desktop Client.

4.7. How Do I Display the Side Bar?

The side bar is used to disconnect from a session. You can display the side bar using either of the following methods:

- **Use a gesture.** Drag from the left hand side of the screen with three fingers.
- **Use the side bar button.** Tap the side bar button to show the side bar.

You can drag the side bar button to another position on screen.

Figure 4.2. Side Bar Button



The side bar button is turned off by default. You turn on the side bar button using the **Virtual Desktop** page in iPad Settings. See [Section 3.2, “iPad Configuration Settings”](#) for more information.

When you have finished using the side bar, either tap **Done** on the side bar, or drag towards the left hand side of the screen with two fingers.

4.8. How Can I Scroll Through a Document or Web Page?

To scroll through a document or web page when you are working in a session, use the scroll gesture. The scroll gesture emulates the middle scroll wheel on a mouse.

To use the scroll gesture, drag upwards or downwards with two fingers.

An alternative way to scroll through a document or web page is to use the scroll bars on the application window.

See [Section 2.4, “Using Gestures in a Session”](#) for details of the supported gestures when you are working in a session.

4.9. Can I Use Oracle Virtual Desktop Client With an External Keyboard?

You can use an Apple Wireless Keyboard or iPad Keyboard Dock as an external keyboard.

See your iPad documentation for more information about configuring iPad to use a Bluetooth wireless keyboard.

4.10. Can I Copy and Paste From Applications Running in a Remote Session?

You can copy and paste text between applications running on a virtual desktop and applications running on your iPad.

For example, you might be using a text editor application in a Sun Ray desktop session. You can copy text from this application and paste it into an application running on your iPad. Alternatively, you can copy text from an application running on your iPad and paste it into a text editor application running in your Sun Ray desktop session.

Oracle Virtual Desktop Client supports the copy and paste of Unicode characters.

**Note**

To copy and paste, the clipboard service must be enabled on the server. This is done by enabling the Oracle Virtual Desktop Client Clipboard option in the Sun Ray Software Admin GUI, as described in the [Sun Ray Software Administration Guide](#).

To use the clipboard service in a Sun Ray or Oracle Virtual Desktop Infrastructure session, the remote server must be running at least Sun Ray Software version 5.3. This version of Sun Ray Software is supplied with Oracle Virtual Desktop Infrastructure version 3.4.

Clipboard sharing is configured for Oracle Virtual Desktop Client by default. Note that clipboard sharing is not available if the clipboard service is not enabled on the server.

4.11. How Can I Access the Sun Ray Windows Connector Toolbar?

The Sun Ray Windows connector (`uttsc`) is used to connect to a remote Windows desktop from within a Sun Ray Software session.

On a desktop computer, you display the toolbar for the Sun Ray Windows connector by moving the mouse to the top of the screen. This feature can be reproduced on the iPad by dragging downwards with three fingers.

Table 4.1, “[Gestures for Working in a Sun Ray Windows Connector Session](#)” describes the gestures you can use with the Sun Ray Windows connector.

Table 4.1. Gestures for Working in a Sun Ray Windows Connector Session

Gesture	Description
Drag downwards with three fingers	Display the Sun Ray Windows connector (<code>uttsc</code>) toolbar
Drag right with three fingers	Display the side bar, for disconnecting from a session
Drag upwards with three fingers	Display the on-screen keyboard

4.12. What Happens If I Rotate My Tablet Display During a Session?

If you are displaying a remote session and you rotate your iPad screen between landscape and portrait display mode, the session is resized automatically.

This feature is called *dynamic session resizing*.

To configure dynamic session resizing, use the **Dynamic Resize** setting on the Oracle Virtual Desktop Client Settings screen. This setting is enabled by default. See [Table 3.1, “Settings on the Virtual Desktop Page”](#).

**Note**

To use dynamic session resizing, the feature must be enabled on the server. See the [Sun Ray Software Administration Guide](#) for details.

4.13. Improving the User Experience for a Large Desktop Session

When you are displaying a large desktop session on the iPad, you may see one of the following issues:

- The desktop session does not fit well on the iPad screen; or

- Desktop icons, text, and menus are too small

For the best user experience when displaying a desktop session, you can configure Oracle Virtual Desktop Client to display the session in a resolution that works best on your iPad screen.

Use the **Session Size** setting on the Oracle Virtual Desktop Client Settings screen to select a session size. Typical landscape and portrait settings that should work well on an iPad are available. See [Table 3.1, “Settings on the Virtual Desktop Page”](#).



Note

If you rotate the tablet screen, the pixel dimensions for the **Session Size** setting are swapped. For example, if you rotate a 1024 x 768 display, a resolution of 768 x 1024 is used.

Chapter 5. Third-Party Legal Notices

This chapter contains the legal notices for third-party software used by Oracle Virtual Desktop Client for iPad.

5.1. CryptoLib

```
* This is version 1.2 of CryptoLib
*
* The authors of this software are Jack Lacy, Don Mitchell and Matt Blaze
* Copyright (c) 1991, 1992, 1993, 1994, 1995 by AT&T.
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* modification of this software and in all copies of the supporting
* documentation for such software.
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* OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
```

5.1.1. MD5 Message-Digest Algorithm

```
/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */
/* Copyright (C) 1991, RSA Data Security, Inc. All rights reserved. License to copy and
use this software is granted provided that it is identified as the "RSA Data Security,
Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this
software or this function. License is also granted to make and use derivative works
provided that such works are identified as "derived from the RSA Data Security, Inc.
MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.
RSA Data Security, Inc. makes no representations concerning either the merchantability
of this software or the suitability of this software for any particular purpose. It is
provided "as is" without express or implied warranty of any kind. These notices must be
retained in any copies of any part of this documentation and/or software. */
```

