



Iridium Direct Internet

Powered by Riverbed[®] SteelHead[™] Mobile

User Manual for Mac OS X® Operating Systems





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1. Overview

Iridium's Direct Internet Service allows customers to connect directly to the Internet via the Iridium gateway. While users are not required to load any special software onto their computer to connect, they will find additional compression and speed benefits from installing the Riverbed SteelHead Mobile ("Riverbed"). However, the service utilizes standard dial-up networking and has been shown to work with a variety of operating systems. This documentation provides complete instructions on use.

The Iridium Direct Internet service is provided by the Riverbed software application and runs through a Riverbed® Controller at the Iridium gateway. The application provides data reduction/acceleration for faster browsing using your Iridium phone as an Internet modem.



2. How It Works

By initiating a connection through the pre-configured dial-up connection, your Iridium phone will dial and initiate a connection with the Iridium gateway through the Iridium satellite constellation. The Iridium gateway switch will then route the call to the Riverbed server. Once connected to the Riverbed server and a session has been established, the Riverbed accelerator (if installed on your computer) will automatically detect the connection and enhance your Internet connectivity experience. NOTE: The Riverbed application may take up to 30 seconds to establish its connection with the server.









3. The Dial-Up Connection

3.1. Connect

This process will allow you to connect to the Internet via a data call from your Iridium phone.

- Connect the computer and Iridium satellite phone or transceiver. The Iridium Extreme®, Extreme® PTT, and 9555 satellite phones require a USB to mini USB cable (Iridium Part Number: USBC0801). The Iridium 9505A satellite phone requires a standard RS-232 cable and RS-232 Data Adapter (Iridium Part Number: RDA0401). The Iridium 9522B satellite transceiver requires the 26-pin IDC connector.
- 2. Position the Iridium phone or transceiver antenna with a clear view of the sky.
- 3. Make sure the computer is powered and completely booted up.
- 4. Turn on the Iridium phone or transceiver and wait for it to register with the satellite network.
- 5. Launch the Riverbed SteelHead Mobile application from your **Applications** folder.



6. Click the Wi-Fi AirPort icon to Turn Wi-Fi Off and click Open Network Preferences

Wi-Fi: Off	
Open Network Preference	·s



7. Click **iridium_handset**, then, click **Connect.** *Note: your Iridium phone may register as a different name, such as Iridium 9575, Iridium 9555, or other names of the modem you use.*

Ballar.	Loca	ation: Automatic	\$
	 IridiumHandset Not Connected 	Status: Not Connected	
	Off Thundethernet Not Connected	Configuration: Default	C
	• USB 10/00 LAN	Telephone Number: 008816000025	
	Bluetooth PAN Not Connected	Dessword:	
	• Quad RS232-HS Not Configured	Connect	
	• Quad R32-HS 2		
AND A	Quad R32-HS 3		
	Not Configured	Show modem status in menu bar	Advanced ?

- 8. As the Iridium phone is dialing...
 - The phone will display USB Data Call in Progress or Data Call in Progress.
 - The *computer* will show the **Status** as **Connecting**...

Loca	ation: Automatic		
Connecting	Status:	Connecting	
• Wi-Fi 🛜			
• Thundethernet	Configuration:	Default	0
USB 10/00 LAN	Telephone Number:	008816000025	
Bluetooth BAN	Account Name:	any	
Not Connected	Password:	•••	
Quad RS232-HS Not Configured		Disconnect	
Quad R32-HS 2 Not Configured			
Quad R32-HS 3 Not Configured			
Quad R32-HS 4 Not Configured			
+ - *	Show modem statu	is in menu bar	Advanced ?





9. Once connected, the **Status** will read **Connected** and you can now launch you Internet connection.



3.2. Disconnect

This process will disconnect your Iridium phone's data call and end your Internet access.

1. Click the Wi-Fi AirPort icon and click Open Network Preferences



• Click **Disconnect**.





Locat	ion: Automatic		٥	
IridiumHandset	Status: Connect Time:	Connected 0:00:41	Sent:	
Thundethernet Not Connected USB 10/00 LAN Not Connected	Configuration: Telephone Number:	Default 008816000025		\$
Bluetooth PAN Not Connected Quad RS232-HS Not Configured	Deewood	Disconnect		
Quad R32-HS 2				
Quad R32-HS 4	Show modem statu	s in menu bar	A	dvanced

4. SteelHead Mobile Client

Source: Riverbed. "Mac SteelHead Mobile Client Properties." *SteelCentral™ Controller for SteelHead™ Mobile User's Guide*. Version 4.8.

Note: Any changes to the default settings on the Riverbed SteelHead Mobile client is not necessary and is discouraged as it may impact the client working properly.

4.1. Status Tab

The Status tab displays the SteelHead Mobile system status, performance statistics, and connection list.







The following table describes the controls under the Status tab of the Windows® SteelHead Mobile.

Function	Control	Description
System Status	Optimization Status	Displays the current state of the SteelHead Mobile. The SteelHead Mobile can be in one of the following states:
		Initializing - Indicates that the optimization service is starting.
		Healthy - Indicates that all systems are functioning properly.
		Critical - Indicates that the optimization service is not running. Contact your system administrator.
		Disabled - Indicates that the optimization service is turned off.
	Current Controller	Displays the Mobile Controller hostname or IP address and the port to which the client



		conn	ects.
		W Co	arning - Indicates that the optimization status is running, but there are some issues.
	Controller Connection Status		Displays the Mobile Controller's connection status. Possible values are Connected, Licensed, Not Licensed, or Not Connected .
	Policy	Displ	ays the policy currently running on the client.
Performance Statistics		Total Data Reduction	Displays the percent data reduction on the SteelHead Mobile since the optimization service has been running.
		Optimization Statistics (LAN/ WAN)	Displays the total amount of optimized data exchanged with peer SteelHead (for LAN/WAN).
		Your Capacity Increase	Specifies the performance improvement as a result of data optimization
		Branch Warming Statistics (In/Out)	Displays the branch warming statistics. This is a feature that is not utilized with the solution Iridium is providing.
		SSL Connections (Successful/Total)	Displays the number of successful SSL connections.
Connection List			Displays the different connections. Right-click a connection and select Detect SteelHeads to find and display SteelHeads along the network path to a specified destination server.

Connection Icons

The following icons are displayed in the Connection List of the Status tab to indicate the state of the connection:

Yellow arrows	H	Displays Established (Optimized) connection.
Green arrow	→	Displays Established (Branch Mode) connection.
Blue arrow	***	Displays Established (Branch Warming) connection.
Gray arrow Red arrow	⇒ →	Displays Established (Pass-through) connection. Displays Established (Optimized) connection with optimization error.
Lock icon	<u> </u>	Indicates secure inner channel connection



4.2. Support Tab

The Support tab displays tools for assisting you in diagnosing problems with your system. Listed below are the controls for the user to be used during troubleshooting with a system administrator or Riverbed support staff.

	Optimization Status: Critical Not Connected to 192.168.24.112:7870 Data Reduction: 0%	
	Optimization: Enabled Turn Optimization Service Off	JRE KEY
	Status Preferences	
View Log	Support •	÷
Generate Sysdump Generate TCP Trace Detect SteelHeads	About SteelHead Mobile Quit	en Shot 77.57 A
Restart SteelHead Mobile Reset Statistics		

- 1. View Log: View the log files for the SteelHead Mobile Client
- 2. Generate Sysdump: Generate a system dump to upload to your Administrator for troubleshooting.
- 3. Generate TCP Trace: Generate a TCP dump sent to your Administrator for troubleshooting
- 4. Detect SteelHeads: Displays SteelHeads along the network path to a specified destination server
- 5. **Restart**: Restart the SteelHead Mobile. This is the first step to troubleshooting the client.
- 6. Reset Statistics: Resets the cumulative historical statistics





The SteelHead Mobile client preferences pane appears with three tabs: Optimization, Controllers, and SSL.

1. The Optimization tab displays current optimization status and enables users to enable optimization, configure connection reset, and set the data store size.

o		ers SSL P	dout	
SteelHead Mobile Monitor	Service: Running	Restart	:	
Optimization Status. Thea	itity			
RiOS Bandwidth and Lat	tency Optimization	Dn Off		
NFS Optimization: On O	Disabled by admin M	API Optimization:	On Off	
HTTP Optimization: On O	ff Ci	trix Optimization:	On Off	Disabled by admin
SSL Optimization: On O	ff Lo	tus Optimization:	On Off	Disabled by admin
Oracle Optimization: On O	Disabled by admin			
✓ Reset connections w Datastore	nen SteelHead Mobile i	s initialized		
Current data store size	e on disk: 3220.0 MB			
Data s	tore size: Auto (10 GB) 🔽		



2. The Controllers tab displays the current controller and connection status, and enables users to specify controller options and to add and modify controllers.

\circ \langle \rangle \blacksquare	SteelHead Mobile	Q Search
Opt	imization Controllers SSL	About
Current Controller: 192.168	3.24.112:7870	
Connection Status: Connec	ted : Licensed	
Select controller to use at rar	ndom: Auto (Off) On Off	
Use controller list defined Override controller list	by administrator	
Controller Name		Port Test Valid
192.168.24.112		7,870 Test
		$+ - \blacktriangle \vee$
		Revert Apply



3. The SSL tab displays the CA certificates and enables users to enable or disable SSL optimization.

Optimization Controllers SSL About SL Optimization: On Off Refree SteelCentral Controller for SteelHead Mobile CA Certificate Server Certificate Server Certificate SteelCentral Controller for SteelHead Mobile Server Certificate Server Certificate Advanced SSL CA Certificate Advanced SSL CA Certificate Server Certificate Server Certificate Serial Number: 16:EC:1D:D6 Issued By: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Common Name: Email: Organization: Riverbed Technology Inc Org. Unit: Locality: State: Org. Unit: Locality: State: State: Country: Issued On: Jul 25 22:14:58 2016 MST State: Country:		SteelHe	ead Mobile	Q Search
SL Optimization: On Off Refree SteelCentral Controller for SteelHead Mobile CA Certificate SteelCentral Controller for SteelHead Mobile Server Certificate SteelHead Peering Certificate Advanced SSL CA Certificate Advanced SSL CA Certificate SteelHead Peering Certificate Issued By: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Issued By: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Organization: Riverbed Technology Inc Org. Unit: Locality: Locality: State: Country: State: Country: State: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST Country: Country:		Optimization Con	trollers SSL Abo	ut
SteelCentral Controller for SteelHead Mobile CA Certificate SteelCentral Controller for SteelHead Mobile Server Certificate SteelHead Peering Certificate Advanced SSL CA Certificate Serial Number: 16:EC:1D:D6 ssued To: Issued By: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Email: Organization: Riverbed Technology Inc Org. Unit: Locality: Locality: State: Country: State: Country: State: Country: Country:	SL Optimization:	On Off		Refres
Serial Number: 16:EC:1D:D6 ssued To: Issued By: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Email: Organization: Riverbed Technology Inc Org. Unit: Locality: State: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	SteelCentral Controller SteelCentral Controller SteelHead Peering Cer Advanced SSL CA Cert	for SteelHead Mob for SteelHead Mob tificate tificate	ile CA Certificate ile Server Certificate	
Issued To: Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Email: Organization: Riverbed Technology Inc Org. Unit: Locality: State: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Serial Number: 16:EC:1D:	D6		
Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Common Name: Riverbed SteelHead Mobile Client Internal CA Cert Email: Organization: Riverbed Technology Inc Org. Unit: Org. Unit: Locality: State: Country: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Issued To:		Issued By:	
Email: Email: Organization: Riverbed Technology Inc Organization: Riverbed Technology Inc Org. Unit: Org. Unit: Locality: Locality: State: State: Country: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Common Name: Riverbed Client Inte	SteelHead Mobile ernal CA Cert	Common Name: Ri Cl	verbed SteelHead Mobile lient Internal CA Cert
Org. Unit: Org. Unit: Locality: Locality: State: State: Country: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Organization: Riverbed	Technology Inc	Organization: Bi	verbed Technology Inc.
Locality: Locality: Locality: State: State: Country: Country: Country: State: Locality: State: Country: Country	Org. Unit:	loominingy mo	Org. Unit:	terbed reenhology me
State: State: Country: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Locality:		Locality:	
Country: Country: Country: Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	State:		State:	
Issued On: Jul 25 22:14:58 2016 MST Expires On: Aug 02 18:54:36 2017 MST	Country:		Country:	
Expires On: Aug 02 18:54:36 2017 MST	Issued On: Jul 25 22:1	14:58 2016 MST		
	Expires On: Aug 02 18	:54:36 2017 MST		
Fingerprint: 4A:5E:DA:71:0F:BF:E9:68:9C:76:42:64:A5:2E:DD:FD:3E:B4:E7:74	Fingerprint: 4A:5E:DA:	71:0F:BF:E9:68:9C:70	6:42:64:A5:2E:DD:FD:3E:	:B4:E7:74





5.SteelHead Mobile Client Interactions

5.1. About

1. Click on the Riverbed icon in the Taskbar and then click About



2. The **About** dialogue box will appear and will give you information regarding Patents, Version, and Support.







5.2. Close Program

- 1. To close the Riverbed SteelHead Mobile, select **Quit** by clicking on the Taskbar icon.
 - It is important to note that closing the Riverbed client will NOT disconnect the call. To **Disconnect** the call, refer to **3.2 Disconnect**.



5.3. Uninstall Program

1. To Uninstall the Riverbed SteelHead Mobile application from your computer right-click the **Riverbed** icon in your **Applications** folder and click **Move to Trash**.







6. Web Browsing Tips

6.1. Mobile Websites

Whenever possible, use the mobile version of a website. Mobile websites are optimized for viewing on mobile devices. Viewing mobile websites while connected to Riverbed SteelHead Mobile will significantly reduce web loading time as compared to the original website. For a list of popular mobile websites, visit the Iridium Mobile Websites page at: <u>http://www.iridium.com/mobile</u>



6.2. Disconnect After Loading Web Page

To minimize airtime charges, disconnect your Riverbed SteelHead Mobile dial-up connection after loading the desired web page. Re-connect your Riverbed SteelHead Mobile Dial-Up connection when you are ready to view a new web page.



7. Emailing Tips

7.1. Client-Based Email

Avoid using web-based email software to send or receive email. In web-based email, Internet connection time is spent on:

- Loading the log in web page
- Once logged in, waiting for all your past messages and the web email interface to load on to the web page.
- Waiting for the new messages to be loaded or sent.

Client-based email software, however, will only use the Internet connection to send or receive new emails. All of your past messages as well as the email interface are already available locally from your computer.

Below are a few examples of client-based email software to use and web-based email software to avoid.

Use	Avoid
Mozilla Thunderbird [®]	Windows Live™ Hotmail
Eudora®	Gmail™
Windows Live™ Mail	AOL Mail.
Outlook Express [®]	Yahoo!® Mail
Outlook [®]	Other Internet Service Provider Webmail Service
Entourage®	
Any other client-based email software	

7.2. Disconnect After Sending or Receiving New Email

To minimize airtime charges, disconnect your Riverbed SteelHead Mobile dial-up connection after sending or receiving new email. Re-connect your Internet connection when you are ready to send or receive new email.



8.Troubleshooting

8.1. Direct Internet Dial-Up Connection

1. NETWORK CONNECTION ERROR MESSAGE

Symptom

When I try to connect to Riverbed SteelHead Mobile, I get an error message similar to the one shown below.

Network Connection
The communication device selected for your connection does not exist. Verify your settings and try reconnecting.
ОК

Cause

This error message appears if:

- Your Iridium satellite phone or transceiver is not powered on or not plugged into a COM port
- The Iridium satellite phone and transceiver lost connection to the Iridium satellite network or was not registered on the network prior to the call.
- The Riverbed SteelHead Mobile telephone number was changed.

Action

First, make sure your Iridium satellite phone and transceiver is powered on and there is a good physical connection between your phone and transceiver and computer.

Second, verify that the Iridium satellite phone and transceiver registers with the Iridium satellite network before redialing.

Finally, verify the correct telephone number is dialed. 008816000025





9. Frequently Asked Questions

9.1. Mac OS X® 10.11 El Capitan or higher compatibility

Currently Mac OS X® 10.11 El Capitan or higher delivers a warning upon install that it doesn't support Riverbed. Click through the warning and the application will still work on your computer.

9.2. Computer Applications

Newer computer applications (i.e. Google Chrome, Apple Safari, Adobe products, etc.) will run updates in the background of the application attempting to connect to the internet. This will make your data connection slower and we recommend turning off Auto-Updates for all applications that connect to the internet to improve your data speeds.

The IP address of the offending applications are shown on the Riverbed client window when a call is in progress. The Connections section on the Status page will list every process and IP address the client is trying to reach. As a potential fix, users can then take the target IP address and block it via the computer firewall by adding it to a list on the client computer. If all is well, you should only see your own IP address contacting the license server or your destination Web site, etc.

9.3. How to create a dial-up connection

For additional information on creating a Dial-Up connection with your Iridium phone, please see the Iridium RUDICS Description manual posted on (www.iridium.com).