

XeosOnline User Manual

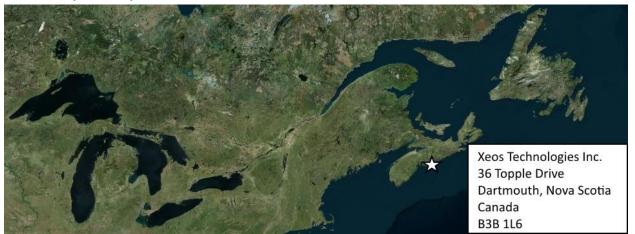
WEB-BASED MONITORING SOFTWARE



Version 5.2 November 2020



Developed By



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Version History

Version No.	Date	Description
4.0	February 2018	Format overhaul for new iteration of site
4.1	April 2018	Added new map option and Manuals button
4.2	January 2019	Reflect various site changes
5.0	January 2020	Overhaul to reflect site changes
5.1	February 2020	Overview expanded
5.2	November 2020	Changes to RUDICS section

Regular checks for the latest manual are suggested. Be sure to check <u>Xeos Technologies' manuals</u> <u>page</u> to compare versions and download the latest version.



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Overview

XeosOnline[™] is a web-based application that streamlines and facilitates the management of Iridium and cellular devices, and can be used to track, monitor and configure Xeos devices remotely.

Users of XeosOnline are given a select space to house devices within which to command and control. Data from these devices can be viewed in part or whole in this space. Using XeosOnline's forwarder system, select members of groups (Organization Administrators) can create mailing lists to distribute all, or a subset of data to individuals, regardless of the recipient.

XeosOnline also has the added benefit of organizing device data for real-time analysis and export, as well as the ability to apply that data to an easy-to-use map system, where applicable, to visualize current environments and predict future positions of objects in motion.

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Filter By Date Total Rows: 16102 CSV Excel							-	



User Level

The **User Level** indicates that user's privileges throughout the XeosOnline web portal. Each user level has the following scope in the group they inhabit:

- Regular User
 - \circ Can send commands, view, and download data from all devices
- Organization Administrator
 - $_{\odot}$ Can send commands, view, and download data from all devices.
 - o Admin tab functionality to edit/delete device information
 - $_{\odot}$ Can search device IMEIs through the site

While users can be placed in multiple groups by Organization Administrators, new users can only be created by Xeos, and must use a valid email for login.

Home Tab

The Home view can be reached by clicking A Home on the top right of XeosOnline, and is the first window that will appear upon logging in. For regular users, this will be the only main window.

Devices Menu

The Devices Menu displays all devices that have been added to an organization.



- The Devices menu is also used to select devices for viewing Logs and Locations.
- Any number of devices may be selected.
- Select all devices of a type by using the checkbox by the Product Name.
- Collapse the Devices Menu by clicking <

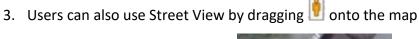


Message Panel

Мар

The Map tab displays a satellite map of current and past GPS fixes from the selected device.

- 1. To navigate around the map, click and hold the left mouse button and drag the screen. Alternatively, the pan control can be used
- 2. Zoom in and out using the scroll wheel on the mouse, or use the zoom control on the top-left of the map





- 4. To exit **Street View**, click the 🔀 in the top-right corner
- 5. Users can switch between Map and Satellite overlays by using the Map
 - The **Satellite** overlay displays real satellite images. Labels, such as street names, can be toggled by clicking the labels checkbox
 - The **Map** overlay displays basic map information. Terrain can be toggled on or off using the Terrain checkbox



Alternative Map

A secondary map option to the map tab that uses OpenStreetMaps and MapBox is available as an alternative to Google Maps. This option retains all the same features as the Google maps option along with some new filters that can be accessed in the top right-hand corner of the map window using the w button.

Use the Map Provider: Mapbox

button to switch maps at any time.



This setting will store the last map loaded as the default for the next login.



Media

Lists any media recordings created by the device. Files here can be downloaded for analysis.

Event Log

Any **Events** generated by a device are logged and displayed in this tab. To sort messages, click on a column header

ID	Generated for each individual record by the database
Message ID	Unique to each message from a device. Multiple log entries can reference
	the same Message ID
Device	Name assigned to the remote device that generated the message
Date Processed	Date and time from when XeosOnline received and processed a message
Event Type	Name assigned to an event, such as Power-up, Motion, Surfacing or an
	Alarm.
Details	The content of the message

Filters

- Logs can be filtered by clicking on Showing All Messages
- The user can enter a Date Range to filter the Event Log

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• Filtered or unfiltered **Event Logs** can be downloaded by clicking on a preferred file type

CSV	Excel	
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Location Log

All messages pertaining to Location are displayed here. To sort messages, click on a column header

[
ID	Generated for each individual record by the database
Message ID	Unique to each message from a device. Multiple log entries can reference the
	same Message ID when sent at the same time
Device	Name assigned to the remote device that generated the message
Timestamp	Date and time taken from the Iridium message
Latitude	Latitude of the GPS message
Longitude	Longitude of the GPS message
Uptime	How long the device took to acquire the GPS position
SNR	The Signal to Noise ratio of the GPS reading, higher is better
Sat Count	Number of satellites used to acquire the GPS position
Alarm	Whether or not the message was generated by an alarm event
Bearing	Some devices can detect direction of motion, displayed as degrees from
	north
Speed	If a device can detect motion, this field displays speed in km/h, and knots
HDOP	Horizontal Dilution of position, lower is more accurate

Filters

- Location logs can be filtered by clicking Showing All Messages
- The user can enter a **Date Range** to filter the Location Log

12/17/2018 15:28:38 01/02/2019 15:28:38 Total Rows: 0

• Filtered or unfiltered Location Logs can be downloaded by clicking on a preferred file type

CSV	Excel
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Message Log

The **Message Log** Tab displays all messages sent to and from a device. To sort messages, click on a column header

ID	Unique to each message from a device. Multiple log entries can reference the same Message ID
Device	Name assigned to the remote device that generated the message
Date	Date and time from when XeosOnline received and processed a message
Processed	
SBD Date	Timestamp generated on reception by the Iridium network
Direction	Indicates whether a message was sent to a device (outgoing) or from a device
	(incoming)
Message	The parsed contents of the message

Filters

- RUDICS keep-alive messages can be filtered out by clicking Hide IP Data
- Message logs can be filtered by clicking Showing All Messages
- The user can enter a Date Range to filter Message Logs

12/17/2018 15:28:38

01/02/2019 15:28:38

Total Rows: 0

• Filtered or unfiltered Message Logs can be downloaded by clicking on a preferred file type

CSV Excel



RUDICS Tunnels

The RUDICS Tunnels tab displays the station details associated with any selected devices. This tab is only useful to devices capable of using a RUDICS tunnel.

Station 0	Active State	e \$	Connection State \$	IMEI ≎	Tunnel Port 🗘	Voltage 🗘	Temp ≎	Data 🗘	
Centaur	A	ctive	Disconnected	300025060316330	*:11000	12.75	19 °C	0	*
Station		The na	ame assign	ed to the st	ation				
Active Sta	ate	Indica	tes whethe	er this RUDI	CS station's	connection	options ca	in be utilize	ed
Connectio	on	Indicates if a station is currently connected by a RUDICS tunnel				el			
State									
IMEI		The IN	The IMEI number of the device associate			d with this	station		
Voltage		Indicates the battery health of the device associated with this station.							
Temp		The last temperature reading at the station							
Data		Sum of data used by this device in bytes.							
Details		Click the wrench for an in-depth view of a station's health							

Station Health Details

The Details section (inside the previous menu's wrench) gives the user an in-depth view of a station's statistics, as well as the ability to edit connection settings.

Name	Tunnel Listen Port	Status	Last Connected	Last Disconnected	
Centaur	*:11000	Active Disconnected	2020-11-04T20:06:00.275Z	2020-11-04T20:14:32.655Z	e
		Status	of Health		
Firmware Version: 3.105.6755	5	Battery Voltage: 12.75 V	Last Temperature:	19 °C	Data Last 24: 0 MB
		Tunnel C	onfiguration		
Connect Script:		Disabled	Script Filename:		
		Ти	nnels		
Name	Local IP:Port	Remote IP:Port	Protocol		Status
Centaur-SFTP	*:11122	10.200.100.175:22	ТСР		Enabled
Dave	*:11013	10.200.100.176:180	000 ТСР		Disabled
Centaur-Seedlink	*:11012	10.200.100.175:180	000 ТСР		Enabled
Centaur-SOH	*:11011	10.200.100.175:80	ТСР		Enabled

Basic Information

Name	The Name assigned to this station
Tunnel Listen Port	The open port XeosOnline will use to listen for incoming RUDICS
	connections.
Status	Indicates if a station is able to start a connection (Active or Inactive) and if
	the station is currently connected to a tunnel (Connected or Disconnected)
	as on the above page.
Last Connected	The timestamp of the station's last connection
Last Disconnected	The timestamp of the station's last disconnection

Status of Health

Firmware Version	The current firmware currently running on the device	
Battery Voltage	The last recorded battery voltage of the device (in Volts)	
Last Temperature	The last recorded temperature measured by the device (in degrees	
	Celsius)	
Data Last 24	Data transferred over RUDICS in the last 24 hours	



Tunnel Configuration

Tunnels can run scripts for downloading or other actions over RUDICS on detection of an applicable connection.

Connect Script	Indicates if a script is enabled or disabled
Script Filename	Shows the path of the script to be implemented if enabled

Tunnels

Displays statistics logged for tunnels used by this station.

Name	The name assigned to the tunnel
Local IP:Port	Port of the XeosOnline Server used to "Tunnel" to the peripheral device.
	The IP portion is non-editable.
Remote IP:Port	IP:Port of the peripheral device to be "Tunneled" to through the RUDICS
	device
Protocol	The protocol used by the tunnel's connection (UDP or TCP)
Status	Current ability to use this particular tunnel connection

Exporting Data

The export selection feature allows the user to download a file containing all log entries of a specific category for currently selected units.

1. Data can be quickly downloaded by selecting the device to pull, then navigating to the relevant tab containing the data to export.

2. At the bottom of the tab are two buttons, CSV and Excel. Clicking these buttons downloads the currently displayed messages in .csv or .xslx format, respectively. It should be noted that the date filter in this section can be used to download a specific timeframe of messages, or choose the Show All Messages button to download all messages for a device.

Show All Messages	Date Range	12/08/2018 23:12:03	12/24/2018 23:12:03	Total Rows: 0
CSV	Excel			

Note: If more than one device is selected at the time of download, messages from both devices will be mixed in order of date and time.

Main Menu

The top left of the Home Tab lists several different options for interaction, whether that be for interaction with devices or the user's account.

Once a user has been created, an administrator may add that user to another organization through the Admin tab.

Sending an Iridium Message

The **Send Command** dialog provides users with a convenient way to send messages to any number of devices within their organization.

- 1. Users can send an SBD (Short Burst Data) message to any device within the scope of their organization by going to File → Send Command
- 2. The Send Message dialog will appear
- 3. Select the device to receive the SBD message and click
 - Multiple devices can be selected by holding
 - Click 🖃 to add **all** devices
 - Click
 to remove a device from the intended target list, or click
 to remove all devices

 \rightarrow

• Devices can also be dragged and dropped from one side of the window to the other

Send Commands				×
Targets 300234063117100 House Xi- (300234063117100) 300234063646270 House Sal (300234063646270) 300234063953350 House Kild (300234063953350) 300434060932020 House Row	ble	→ →1 ←		ŕ
(300434060932020) 300234066531780 House Sho (300234066531780) 4 Commands	out	14-		÷
Saved templates 💌	Save	Save As	Delete	Send

4. SBD Commands can be typed into the **Commands** box. For more information on device commands, consult the device's manual.

Send Command Options

Change Password

Search Device

Log out

Menu 🔻





Note: Some devices (as noted in their manuals) require an **Unlock Code** before all commands. XeosOnline saves this unique code for each device if it has been received previously and adds it ahead of any outgoing commands.

If the outgoing command is prefixed with **\$Unlock 0** in the message log, XeosOnline does not have this code. The intended command will be ignored by the device; it will reply with the correct code on the next Iridium check, provided XeosOnline is set to receive the device's messages.

Send Commands				х
Targets				A
0234063117100 House Xi-202)0234063117100) 0234063646270 House Sable	Î		300434060932020 Rover (30043406093202	
)0234063646270 House Sable		→	(000.0.000000202	,
0234063953350 House Kilo)0234063953350)		÷I		
0234066531780 House Shout		+		
)0234066531780) 0434061709180 House Osker		i←		
)0434061709180 House Osker	-	•		
4	•			*
Commands				
Saved templates 🔻	Save	Save	e As Delete	Send

- 5. Target Lists and/or Commands can be saved as templates for later use. Saved templates can be loaded from the **Saved templates** list.
- 6. Once the Target List and Commands are ready, click Send The target devices will process the command during their next Iridium Check. Outgoing messages are logged in the Message Log tab.

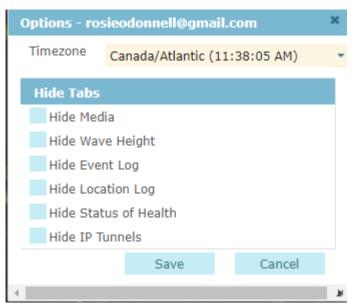


Options

Time Zone

When the user's time zone is changed, all messages and message logs will display in local time.

- 1. Select Menu \rightarrow Options
- 2. The **Options** dialog will appear.



3. From the Time Zone list, select the desired Time Zone.

		Canada/Atlantic (03:27:47 💌
		Canada/Atlantic (03:27:47 PM)
		Canada/Central (01:27:47 PM)
		Canada/East-Saskatchewan (01:27:47 PM
		Canada/Eastern (02:27:47 PM)
		Canada/Mountain (12:27:47 PM)
		Canada/Newfoundland (03:57:47 PM)
		Canada/Pacific (11:27:47 AM)
		Canada/Saskatchewan (01:27:47 PM)
4. Click	Save	and the new time zone will be applied immediately.



Hide Tabs

Tabs not used by the user can be hidden. This setting is retained to the user through logins.

- 1. Select Menu \rightarrow Options
- 2. The **Options** dialog will appear.

Options - ro	sieodonnell@gmai	l.com ×
Timezone	Canada/Atlantic (1	1:38:05 AM) 🔹
Hide Tabs		
Hide Med	lia	
Hide Way	ve Height	
Hide Eve	nt Log	
Hide Loca	ation Log	
Hide Stat	tus of Health	
Hide IP T	ūnnels	
	Save	Cancel
4		لا

- 3. Select the tabs to hide
- 4. Click **Save** and the new tab setup will be applied through a refresh.

Change Password

A user may wish to change their password; this can be done through the options menu.

- 1. Select Menu → Change Password
- 2. The Change Password dialog will appear

Change Password	
Confirm Password	

3. Enter the new password and press

Save Log out to finalize the change.

It should be noted that users that forget their password can use the Forgot Password utility on the login page.



Search Device

The search device option allows a user to find any device by IMEI number. If the device already exists on the system (may be in a testing area) the results will be found here. This is an Organization Admin only feature.

- 1. Select Menu → Search Device
- 2. The **Search Device** dialog will appear.
- 3. Enter the IMEI of the device to find and click Search

Search Device			×			
Enter Device IMEI						
	Search	Cancel				
	Scarch	cancer	h			
Search Result			×			
Enter Device IMEI	300434061880	0190				
Device Name						
300434061880190 House Apollo						
D	evice Type					
Apollo						
Or	ganizations					
Stephen TestinXeos Testing	g					
	Projects					
No records found.						
	New Search	Close				

Results for the search will appear, listing the name of the device in the system, and a list of all Organizations to which the device is a member.

Manuals

Users can find a link to all the latest manuals pertaining to Xeos products using the **Product Manuals** button on the top-right of the screen. Clicking this button will open a new tab in the browser.



Admin

The Admin button gives the Organization Administrators access to the administration pane. From there, the Admins can configure XeosOnline options such as: **Devices, Forwarders** and **Organizations**.

To access the Administration Pane, simply click the Admin button on the top right of the page.

Devices Tab

The **Devices** tab contains statistics and settings related to the devices in the currently selected Organization.

Columns

Name

The **Name** column lists all devices in the currently selected organization. The devices are sorted by product type

Options

The **Options** column allows the user to edit or delete individual devices; see below

🝵 🔹 Delete Device

Clicking on the **Delete Device** button will completely remove the device from XeosOnline. **All** data related to this device will be erased.

Edit Device

Clicking the Edit Device button will bring up the **Device** dialog

evice					
Device			*		
Organizations	Select Or	ganizations	•		
Enabled	*	Enabled			
Name	30000000	0000000			
Notes			,		
		3000000000000			
Incoming SBD	Direct IP	SBD			
Latitude	44.63739	1			
Longitude	-63.58612	21			
DISA	*	Enabled			
Config Sync	ж	Disabled			
		Save	Cancel		



Device Dialog

Device	Shows the device's Product Type (Set when adding a new device)				
Organizations	Allows an admin to assign the device to any organization to which that person belongs. Devices can exist in any number of organizations.				

÷

Select Organizations



Enabled	Allows (Enabled) or restricts (Disabled) the sending of outgoing
	commands to this device.
Name	The name of the device as shown on the Home Tab and Device menu
Notes	stores relevant additional information for this device
IMEI	displays the devices SBD IMEI number
Incoming SBD	Allows the user choose the source for the device's SBD messages
Latitude/	Can be used to show the devices deployment location. Must be set
Longitude	manually for device types that do not have GPS systems.
DISA	Specifies to XeosOnline if the device is using the DOD network;
	commands to devices will then send to the correct destination. If a
	DoD modem is not being used, leave this setting as Disabled .



Forwarders Tab

The Forwarders tab allows users to send device messages to individual emails. Forwarders can be customized to include several devices as well as multiple recipient emails. It should be noted that recipients of these emails are not required to be users of XeosOnline. Therefore, any number of recipients can be set to receive messages to quicken response to appropriate events.

Creating a Forwarder

1. To create a forwarder, click on + New

Forwarder			×		
Forwarder Type	Alarm Email Forwarder (*)		•		
Name					
Description					
Limit	Max 0 🗘 forwards in 1 🗘 minutes				
Note	e Zero indicate no limit on the number of forwards sent				
		Save	Cancel		
			ĥ		

- 2. The Forwarder dialog will appear
- 3. Forwarder Type will present several options from a drop-down menu:

Alarm Email Forwarder	Will forward all alarms to included targets.
All Email Forwarder	Forwards all SBD messages to included targets
To Shout Forwarder	Forwards SBD messages to a Nano Shout handheld
	Iridium device
STI Event Forwarder (STI40x)	Forwards STI Events to included targets
Audio Forwarder	Forwards Audio Recordings from Sentinel units
Sentinel Plain Text Forwarder	Forwards SBD messages from Sentinel units
Simple ASCII Position Forwarder	Forwards GPS Fixes to included targets in text format
Simple ASCII Position Forwarder	Forwards GPS Fixes, as well as current battery voltage
w/Battery Voltage	of the device in text format
Hermes Forwarder	Forwards Xeos Beacon positions to the Hermes

- 4. Name: Give the Forwarder a meaningful name
- 5. Description: Record any additional details about the Forwarder
- 6. Limit: The number of forwarded messages the target will receive can be limited. If no limit is required, leave at Zero Forwards.

Adding Devices and Targets to Forwarders

Once a Forwarder has been created, devices and targets can be added.



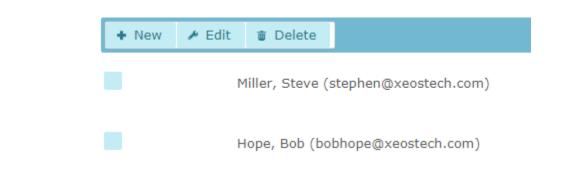
1. Select a Forwarder from the list.

alarm test	
audio	
plaintext	
shout test	

2. Click \rightarrow Next and the **Source Devices** tab will appear. Select the devices to forward.



3. Click - Next again, email targets can be created and selected.



- 4. To add recipients to the Forwarder, use the **+** New button and add the recipient's name and email address. Check off any individuals in the list to receive forwarded messages.
- 5. Click → Next The prompt to save the additions to appears. Additionally, the Test Forwarder button will send a test message to all checked recipients.



Organizations

The Organizations Tab lists all spaces that the user has access to. From here, user credentials can be modified, added or deleted.

The system administrator has the sole authority to create new users, Organization Administrators can move existing users between different groups.

+	Add User						
	Select User					:	×
	User, Demo (demouser@xeostech.com)	Ψ.	as	Regular User	-		
				Save	Cancel		,
						_	

- 1. The Add User Dialog will appear
- 2. Begin typing the name of the user to add to the Organization
- 3. Select the user to add from the list of users
- 4. Grant that user an access level, for more information see Users

Edit Organization

The **Edit Organization** dialog will appear; from here, the name of the Organization can be changed.

Users

Organization Administrators can manage the privileges of users within their scope, as well as delete users.

– Delete

When deleting a User from an Organization, an alert will appear. Press OK to confirm the action.

Edit							
	Select User						×
	1234, Tester (te	ester1234@	as	Regular User		•	
				Save	Cancel		4

Clicking the Edit User button brings up the Organization User Dialog. Administrators may then choose a new User Level for that user within an Organization



Terms of Service and Private Policy

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To make sure that the content and services Xeos provides to you are of the highest possible quality, we have developed this Terms of Service and Privacy Policy.

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2. Information Collection and Use

Xeos collects personally identifiable information when you register.

When you register with Xeos, we ask for your name, email address, city, state/province, and country, as well as other optional information. Once you register with Xeos and sign in to our services, you are not anonymous to us.

Xeos also automatically receives and records information on our server logs from your browser including your IP address, Xeos cookie information and the page you requested.

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Contact: Privacy Officer

Via letter mail: 36 Topple Drive, Dartmouth, Nova Scotia, Canada

Via telephone: +1 (902) 444-7650

Via email: itadmin@xeostech.com