# Foreseer Web Configuration Guide





# Table of contents

Foreseer Web Configuration Guide	5
Introduction	5
Welcome	5
Web Configuration Basics	5
Accessing Web Configuration	6
Language Selection Dropdown	
Alarms	7
Reports	11
Administration	15
Help	15
Breadcrumbs	16
Administration Menu	17
Configuration Backup	17
Scheduled Backup	
Create All .vi Files	
Alarm Notification Properties	22
Start Database	
Stop Database	
Check Database	
Fix Database	26
Database Consistency Check	
SQL Server Properties	
Scheduled Data Deletion	
Install Language Pack	
Install Language Pack Process	
Version Information	
Update Translations	
Download Translations	
Upload User Defined Translations	
Restore Translations	
Local Server List Menu	
Start Server Configuration	
End Server Configuration	
Start New Log File	
Install Devices From List	
Update Devices From List	
User Defined Fields	
Add Remote	
Buffered Data Retrieval	
Copy for WebViews	
Restart WebViews	
Restart Server	
Restart Windows	
Add Note	

Get Log File	. 81
Upload Files	. 82
Open Older Log File	84
Open Saved Wiretap	. 87
Properties	. 89
Remote Server List Menu	. 90
Connect Remote	. 91
Disconnect Remote	. 92
Delete Remote	. 92
Copy for WebViews	94
Restart Remote App	. 95
Restart Remote OS	. 96
Add Note	. 97
Get Updates	. 98
Get Log File	101
Upload Files	102
Download Backup	104
Synchronize Redundant	106
Properties	108
Device List Menu	109
Enable	109
Disable	110
Disarm	111
Re-Arm	113
Add User-Defined Channel	115
Delete	118
Rename	120
Copy for WebViews	121
Copy Channel Properties	
Paste Channel Properties	
Create .vi File	124
Load Driver	
Unload Driver	
Properties	
Text Control Points	
Channel List Menu	
Enable	138
Disable	
Disarm	
Re-Arm	
Delete	
Rename	
Copy for WebViews	
Copy Channel Properties	
Paste Channel Properties	
Properties	
WebViews Menu	
New Folder	

Delete 1	55
Cut 1	56
Сору 1	57
Paste 1	
Rename	
Create Single Page / Create Pages for Tree 1	60
Create Page From Template / Create Tree from Templates	
Create Single Template / Create Templates for Tree	
Check Files for Page 1	
Check Files for Tree	
Properties 1	
WebViews Channel List Menu 1	
Delete 1	
Copy for WebViews 1	
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# Introduction

The Foreseer Web Configuration utility is a browser based utility used to manage your:

- o Servers
- o Devices
- o Channels
- o WebViews
- o WebViews Channel Lists
- o Database
- o Alarms
- o Reports
- Welcome

#### Welcome

Welcome to the Foreseer WebConfiguration Utility Guide. You can use the Foreseer Web Configuration Utility to:

- Restart the WebViews server, the Foreseer Server, or the server machine.
- Manage Foreseer alarms.
- Run Foreseer reports.
- Start, stop, and repair the database.
- Populate and edit the WebViews tree and assign devices and channels to various WebViews pages.
- Delete Devices.
- Disable and enable Device Channels.
- Configure Channel properties.
- Add Remote Servers; including Data Acquisition Engine (DAE) appliances, and a Secondary Redundant Foreseer Server.

The following chapters outline how to access the Web Configuration Utility and how use it to configure Foreseer.

# Web Configuration Basics

This section provides information on the basic functionality of the Web Configuration environment.

- Accessing Web Configuration
- Alarms
- Reports
- Administration
- Help

Breadcrumbs

#### Accessing Web Configuration

To access the Web Configuration Application, you must:

• Have a user account that is a member of the PXSauthAPPADMIN Windows user group.

Please check the Foreseer Release Notes for supported browser information.

You can access the Web Configuration Utility at the following URL: https://machine/WebConfd/.

Where machine is either the machine name or IP address of the machine on which Foreseer is installed. When accessing the web page, you may be challenged to provide your user ID and password.

Solution By default, the port for WebConfig is 443 (HTTPS) or 80 (HTTP). By default, HTTP is not enabled.

https://machine/webconfd/

When you access the Web Configuration Utility, you'll see something similar to the following:

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Foreseer Remote	Foreseer	No	connected		10 Dev ePDU 2	N/A	None		D_Serial Number	Text	12345		
					10 Dev ePDU 3	N/A	None		Fan Failure	Digital	Normal		
					10 Dev ePDU 4	N/A	None		Fuse Failure	Digital	Normal		
					10 Dev ePDU 5	N/A	None		Input Frequency	Analog	59.997		
				_	5 Dev ePDU 1	N/A	None		Input Voltage	Analog	117.95		
				_	5 Dev ePDU 2	N/A	None		M_Ambient Temp	Analog	88.014		
					5 Dev ePDU 3	N/A	None		Output 1 Off	Digital	Normal		
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				_						Digital			
				_	5 Dev ePDU 5	N/A	None		Output 3 Off	Digital	Normal		
				_	Derived Channels	N/A	None		Output 4 Off	Digital	Normal		
					System Channels	N/A	None		Output 5 Off	Digital	Normal		
					UPS 9130 1	N/A	None		Output Current	Analog	6.5695		
					UPS 9130 2	N/A	None		Output Frequency	Analog	60.000		
					UPS 9130 3	N/A	None		Output Overload	Digital	Normal		
					UPS 9130 4	N/A	None		Output Pct Load	Analog	87.789		
					UPS 9130 5	N/A	None		Output Voltage	Analog	119.90		
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### Language Selection Dropdown

Foreseer has the ability to select from multiple languages if the supporting language packs have been installed.

			⊕en-us▼ 🛈	ផ្ទះ	?
≡ ci	nannel List				Q
State	Name	Туре	Value		
	Active Client Connections	Analog	0		
	Archive Elapsed Time	Analog	24		
	Configuration Backup	Digital	Outdated		
	Database Archiving	Digital	Archiving		
	Database Backup	Digital	OK		
	Database Status	Digital	OK		
	Digital Transition Rate	Analog	0		

To access the available languages on your Foreseer system, click on the down-arrow to display a list of available languages to you.

			⊕en-us▼	$\odot$	ផ្ទះ	?
≡ cr	nannel List		ENGLISH			Q
State	Name	🔺 Туре	ESPAÑOL	alue		
	Active Client Connections	Analog	ESPANOL			
	Archive Elapsed Time	Analog	2	6		
	Configuration Backup	Digital	0	utdated		
	Database Archiving	Digital	A	rchiving		
	Database Backup	Digital	0	К		

Once you select the language of your choice, Foreseer will display all of the interface in that chosen language.

## Alarms

You can access the Alarm Management feature by clicking on the Alarm icon in the main header of WebConfig.

			⊕en-us▼ 🔞	鐐	?
≡ ci	hannel List				Q
State	Name	Туре	Value		
	Active Client Connections	Analog	0		
	Archive Elapsed Time	Analog	24		
	Configuration Backup	Digital	Outdated		
	Database Archiving	Digital	Archiving		
	Database Backup	Digital	OK		
	Database Status	Digital	OK		
	Digital Transition Rate	Analog	0		

The Alarm Management features consist of the following:

- Multiple alarm selection using familiar Ctrl-click and Shift-click selection
- Optionally display Disabled and Enabled objects
- Displays a Device object when the Device is Disabled or Enabled
- When a Device object is displayed, the Device can be Enabled or Armed with one action
- Alarm list can be sorted by clicking any of the header categories in descending or ascending order
- Overall look can be changed using Themes or individual items such as background color
- Alarm Management can be displayed as a separate Window (the default) or a Dialog
- Alarm list data columns can be sorted by simply clicking the data column heading
- Alarm list can be filtered by using the Filter icon from the toolbar.
- Select columns can be shown or hidden using the Show / Hide Columns feature from the toolbar.

The Alarm Management page displays objects that are currently in an alarm state (Critical, Caution and Acknowledged) in a list view style window. The top row of the list is column headers which can be clicked to sort the list by that category. The default sort order is descending (A to Z or 0 to 9). Clicking on the selected column toggles between descending and ascending (Z to A or 9 to 0) sort order. When a new column is selected by clicking on the column header, it always starts with descending sort order.

larm Management									Q 🝸
Server	<ul> <li>Device</li> </ul>	Channel	Priority	Date/Time	Alarm Value	Current Value	Device Type	Location	Alarm Group
Foreseer Remote	UPS 9130 1	M_Ambient Temp	9999	12-04-2019 15:37:46	86.73	86.326	NONE	NONE	NONE
Foreseer Remote	UPS 9130 1	M_Output Current	9999	12-04-2019 15:39:52	11.62	12.874	NONE	NONE	NONE
Template Builder	PowerXpert Meter8000	M_Current Avg Demand	9999	12-04-2019 15:40:06	96.73	96.787	NONE	NONE	NONE
Template Builder	PowerXpert Meter8000	S_Discrete Input 8	9999	12-04-2019 15:40:29	Normal	Normal	NONE	NONE	NONE
Template Builder	PowerXpert Meter8000	M_Crest Factor Phase C	9999	12-04-2019 15:39:47	1.43	1.4482	NONE	NONE	NONE
Template Builder	PowerXpert Meter8000	M_Crest Factor Phase A	9999	12-04-2019 15:39:43	1.39	1.4455	NONE	NONE	NONE

In addition to active alarms, Disabled and Disarmed objects can optionally be included. To include these objects, click the Show menu and select Show Disabled (or Disarmed) to include them in the list. To return to not display them, select Hide Disabled (or Disarmed) from the menu.

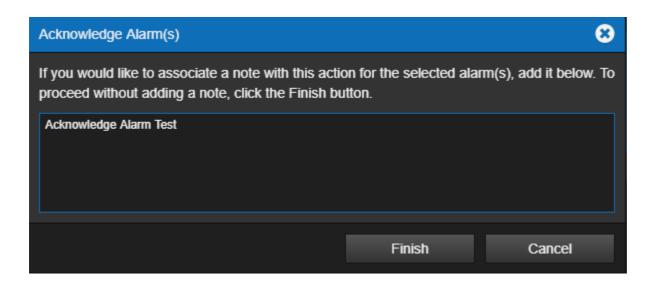
Alarm Actions can be performed on selected objects from the Alarm Actions dialog box. To display the Alarm Details dialog box, select View Details from the Actions menu. A doubleclick will also display the dialog for a single object. With a single object selected, the top part of the dialog has a field for entering a note and the Alarm Actions buttons. The lower part displays details about the selected object.

- Acknowledge acknowledges a Critical or Cautionary alarm.
- Re-Arm returns an acknowledged or disarmed object to the Normal state.
- Ack & Rearm performs an Acknowledge and Rearm in one operation.
- Enable returns a disabled object to the Normal state.
- Open in WebViews navigates you to the WebViews screen containing the alarm.

The Note field allows comments to be included about the Action. When an Action is performed, a Note is always entered into the database. The Note has two parts: the system and user parts. The system part is always entered and includes the object name, the Action name, the user name, the IP address where the action originated, and the time of the Action. The user part of the Note is the comment entered in the Note field. This part of the Note is meant for a brief (256 or less characters) comment about the reason for the Action. When multiple alarms are selected, the comment part is entered for each selected item; the object name in the system part of the Note is the only field that changes. The system part of the Note is always included and may not be modified.

Alarm Details				8			
Acknowledge	Re-Arm	Ack & Rearm	Enable	Open in WebViews			
Channel:		M_Current G	Ground				
Device:		PowerXpert	Meter8000				
Server:		Template Bu	ilder				
Alarm State:		Caution					
First Time:		11/19/19 11:26:41 AM					
First Value:		0.00					
Current Valu	e:	0.0000					
Priority:		9999					
Message:							
Enter Note he	ere						
Notes							

Depending on the state of the object, some Actions may not be valid (e.g. an Acknowledged alarm cannot be Acknowledged). If an invalid Action is attempted, the server will reply with an Object State Conflict response. As the state of an object is dynamic, it's not always apparent if an Action is valid. An object may be acknowledged at the time it is selected, but it is possible that another user at a different workstation has acknowledged the alarm just before you. When multiple objects are selected and an invalid action results, a separate message will be displayed for each object that did not succeed. If this occurs, only the exceptions are displayed; all Actions that succeed do so silently. If in doubt, just review the current Alarm List or run a 1-Day Note Report to verify the Action. When running a Note Report, you may have to wait up to 15 seconds before the Action Note appears as the server buffers notes for efficiency.



#### Reports

Each Web Configuration page has a link to the report generator/manager.

			⊕en-us▼	$\odot$	鐐	?
≡ cr	nannel List					Q
State	Name	Туре	Va	alue		
	Active Client Connections	Analog	0			
	Archive Elapsed Time	Analog	24	4		
	Configuration Backup	Digital	0	utdated		
	Database Archiving	Digital	A	rchiving		
	Database Backup	Digital	0	к		
	Database Status	Digital	0	к		
	Digital Transition Rate	Analog	0			

Operators can generate and review reports about alarms, channels, system configuration, and server up time. Some Web Configuration Reports are available in two formats: standard and tab-delimited data. All reports can be exported as text files to the operator's local computer.

Reports			
Report Type	Available Reports		
Alarm History [1 Day]	10/16/19 11:37:02 [2538 bytes]		
Alarm History [30 Day]			
Alarm History [7 Day]			
Alarm History [Custom]			
Audit History			
Channel Data			
Channel	10/04/19 09:35:23 [322943 bytes]		
Driver Log File	10/04/19 09:34:17 [1244 bytes]		
Interval Data Report	10/04/19 09:38:14 [887 bytes]		
Log File	10/24/19 10:14:09 [4779 bytes]	10/23/19 11:06:42 [4392 bytes]	10/23/19 11:06:42 [4392 bytes]
Notes History [1 Day]	10/04/19 09:38:45 [390 bytes]		
Notes History [30 Day]			
Notes History [7 Day]			
Notes History [Custom]			
Previous Driver Log File			
Previous Log File			
Sequence of Events			
System Configuration	11/06/19 11:13:32 [1982 bytes]	11/06/19 11:10:33 [1939 bytes]	11/06/19 11:07:29 [3853 bytes]
System Up-Down			

To access report in the Web Configuration utility

- 1. Click on the Reports icon in the upper right menu.
- 2. Click one of the report buttons under Report Type.
- 3. When the report is generated, a link appears to the right of the button. Click the link to view the report in a separate browser window.

Foreseer provides the following reports:

- Alarm History (1 Day, 7 Days, or 30 Days) is a series of reports listing all alarms detected over the past day, week, month or specified time period. These three report formats consist of all alarm times, Devices and text recorded within the respective interval. If no alarms were detected during the period, that report will be blank. These are available in tabbed format.
- Alarm History (Custom) has a selection of time intervals and is similar to the other Alarm History reports except that it does not list alarms that are currently active or unacknowledged.
- Audit History (Custom) provides a history of configuration changes to the Foreseer System. This is not available as a tabbed report.
- Channel Data Report (30, 60, or 90 Day) provides minimum, maximum, and average values for each channel from the selected device over the selected time period. The default format is tab-delimited.
- Channel Report provides detailed information about each channel from each device installed in the "local" server. You can select an individual device if you wish. This report is available in tabbed format.
- Driver Log File report provides detailed information on the drivers in use by the Foreseer system.
- Interval Data Report provides raw historical data from Foreseer High Resolution

databases in a standard CSV format for any Analog or Derived Analog channel.

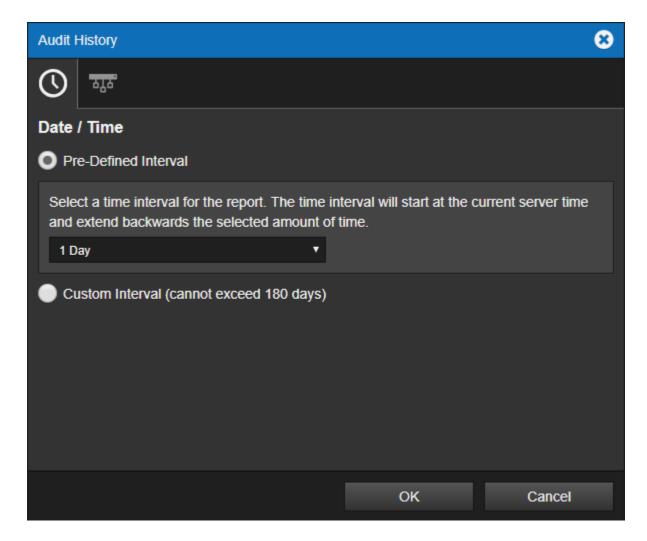
- Log File reports all recorded events since the last Foreseer Server system reset. This report is not available in tabbed format.
- Previous Driver Log File report provides detailed information on the drivers previously in use by the Foreseer system.
- Previous Log File reports all events recorded in the previous Foreseer Server session. This report is not available in tabbed format.
- Notes History (1 Day, 7 Days, 30 Days, or Custom) reports notes logged over the last day, week, month, or specified time period. This report is available in tabbed format.
- Sequence of Events (custom) provides events logged by sequence of events recorders. This report provides a series of high-resolution (in time) events in time stamp order. The standard format is tab-delimited. For information about support for additional recording devices, contact the Power Systems Automation group at Eaton.
- System Configuration lists all configured devices, their operational parameters, and current device driver software version. The standard format is tab-delimited.
- System Up-Down reports each time the Web Server was launched and terminated. The default format is tab-delimited.

#### **Custom Reports**

Foreseer offers the ability to specify the range and content of the Custom Alarm, Audit and Notes History Reports. Audit History reports Server, Device and Channel change information. All three report formats allow you to either set a predefined interval or enter a desired period over which the report is generated. You may also choose to include or exclude certain Devices or Channels. These output selections are presented when the chosen Custom Report is run.

To generate a Foreseer Custom Report:

1. Click the appropriate custom report button in the left pane. The appropriate Custom History dialog box is displayed divided into Date/Time and Advanced tabs. The tab contents, and the steps for specifying their parameters, are virtually identical for all three report formats



- 2. Indicate whether the Report will be for a Predefined Time Interval or over a Selected Time Range by clicking the corresponding button. Choosing the former requires that you select the Predefined Interval from the associated drop list. Using a Selected Time Range requires that you enter a Starting and Ending Date/Time to define the span. Any active alarms are always reported in the Alarm History Report using the Predefined Interval format, which always includes the current Server time as the Ending Time. In either case, the resulting Report Interval is calculated and shown.
- 3. With the reporting period defined, click on the Advanced tab to display those Custom Report parameters.
- 4. By default, all Devices and Channels are included in a Custom History report, although you can limit the data that is reported. Click the Include or the Exclude Device or Channel button, depending on the desired information, and the Select a Device or Channel dialog box is presented.
- 5. Expand the list under the appropriate Server to access its connected Devices and individual channels.
- 6. Highlight the desired Device(s) and/or channel(s) and click OK to add them to the Include or Exclude list. Entries can be made to both lists simultaneously. To remove an entry from either list, simply select it and press the Delete key. Deselect Include System Up/Down Notes in Report if you do not want this information in a Custom Notes History.
- 7. With the desired output criteria specified, click OK to run the Custom History report.
- 8. Click the link for the completed Report to display it.

⊘ All active Foreseer alarms are included in the report regardless of the selected time range.

#### **Custom Search Strings**

The ability to perform specific text searches on Custom History files can be extremely useful in locating archived information about an event or piece of equipment.

To perform a custom search:

- 1. Click on the Include or Exclude String button in the Advanced Custom History dialog box as appropriate and a Custom Search String dialog box is displayed.
- Enter the text string to be included or excluded in the field provided, using wild cards in most instances, and click OK to return to the Advanced Custom History dialog box. The entered string appears in the appropriate list box. You can repeat the procedure to add additional text strings to further refine your search criteria.
- 3. With the desired text string(s) entered, click OK to perform the specified search and a file is created containing the results.
- 4. Select the file from the Reports Available list and click Retrieve.
- 5. Save the file and the search results are displayed.

#### Administration

The administration icon displays the Administration sub-menu. You can enter create backups, set alarm properties as well as manage your database from this menu option. Refer to the <u>Administration Menu</u> for more information.

			⊕en-us▼ 🔞	繱	?
≡ ci	nannel List				Q
State	Name	Туре	Value		
	Active Client Connections	Analog	0		
	Archive Elapsed Time	Analog	24		
	Configuration Backup	Digital	Outdated		
	Database Archiving	Digital	Archiving		
	Database Backup	Digital	OK		
	Database Status	Digital	OK		
	Digital Transition Rate	Analog	0		

### Help

Anytime you need help while using the Web Configuration Utility in Foreseer, you can select the question mark icon from the WebConfig menu.

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≡ ci	hannel List					Q
State	Name	Туре	Valu	ie		
	Active Client Connections	Analog	0			
	Archive Elapsed Time	Analog	24			
	Configuration Backup	Digital	Outd	dated		
	Database Archiving	Digital	Arch	niving		
	Database Backup	Digital	OK			
	Database Status	Digital	OK			
	Digital Transition Rate	Analog	0			

#### Breadcrumbs

Breadcrumbs tell operators where they are in the folder tree. WebViews pages are organized like file folders in your computer file system, which each folder representing a WebViews page. The following shows a simple structure with the "branch" of the "tree" leading from WebViews to a PXM 8000 waveform.

≡ WebViews
<ul> <li>WebViews</li> </ul>
▼ CSA1
C-H Digitrip 1150 PXG Eff32 TCP _671356
Cat GenSet EMCP4-3 Ctlr TCP_670984
E Relay C441 Motor PXG Eff32 TCP_671416
Eaton ATS ATC-900 _661251 NO WIPER
Eaton ATS ATC-900 _661251 WIPER
Eaton Meter PXM2250 TCP_670772
Eaton Meter PXM2270 TCP_670646
Eaton Meter PXM4000 Waveform TCP
Eaton Meter PXM6000 Waveform TCP
<ul> <li>Eaton Meter PXM8000 Waveform TCP</li> </ul>
Waveform
Eaton Meter PXMP 3PH TCP_671192
Eaton Relay EDR-5000 TCP_671037
Eaton Trip MCCB PXR25 TCP_671411

If an operator had navigated to the GENERATOR 1 page, the Breadcrumb would look like this:

WEBVIEWS > CSA1 > EATON METER PXM8000 WAVEFORM TCP > WAVEFORM EATON METER PXM8000 WAVEFORM TCP

In addition to providing a signpost for navigation, breadcrumbs also help operators in navigating through the system. All of the pages listed in the breadcrumb are hyperlinks, so clicking anything between WEBVIEWS and GENERATOR 1 will jump to that page.

# Administration Menu

The Administration menu provides access to all of the common items used to manage your Foreseer servers.

- Configuration Backup
- Scheduled Backup
- Create All .vi Files
- Alarm Notification Properties
- Start Database
- Stop Database
- Check Database
- Fix Database
- Database Consistency Check
- SQL Server Properties
- Scheduled Data Deletion

#### **Configuration Backup**

It is strongly recommended that a backup be performed after initial system configuration as well as before and after any significant modifications to ensure maximum disaster recovery capability. You must end server configuration mode before backing up the server configuration.

Significant changes are signaled via the Major Server Version System Channel.

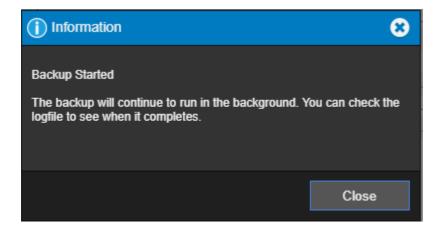
The backup archive (.ARQ) file includes the Foreseer Server configuration only, data files are not backed up in this procedure. Automatic configuration backups can be scheduled through the standalone Foreseer Configuration utility. Backups made through the Web Configuration Utility are automatically assigned a name which is a composite of the name of the server, the date, and the time (in 24-hour format).

To backup a Foreseer Server configuration:

1. Select Configuration Backup from the Configuration Menu.

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State	- Tourio	🔺 Туре	Configuration B Scheduled Bac				
	Active Client Connections	Analog		p			
	Archive Elapsed Time	Analog	Create All .vi Fi	les			
	Configuration Backup	Digital	Alarm Notificati	on Prope	orties		
	Database Archiving	Digital			1100		
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog		e			
	Disk Free Space	Analog	Fix Database				
	Major Server Version	Analog	Database Cons		Check		
	Message Manager Local	Digital	SQL Server Pro	openies			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital		^	_		
	System Warning	Digital	0	к			

2. The utility reports back the name of the backup file in the Message from the web page alert box.



3. As the dialog states, the backup will continue to run in the background. Once the backup completed, you can find the backup file in the \Restore\ directory of the Foreseer installation (typically C:\Eaton Corporation\Foreseer).

#### Scheduled Backup

You can schedule configuration backups automatically at specified intervals. A network drive is the recommended backup destination.

✓ Make certain that the user account used by Foreseer has Full Control permission for all the directories under the Foreseer installation directory. Otherwise, the backup process may fail.

To schedule regular backups:

1. Select Scheduled Backup in the Administration menu

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State	Name	Туре	Configuration B				
	Active Client Connections	Analog	Scheduled Bac	кир			
	Archive Elapsed Time	Analog	Create All .vi Fil	les			
	Configuration Backup	Digital	Alarm Notificati	on Dron	ortion		
	Database Archiving	Digital		UNFIOP	enties		
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Databas	е			
	Disk Free Space	Analog	Fix Database				
	Major Server Version	Analog	Database Cons	-	Check		
	Message Manager Local	Digital	SQL Server Pro	perues			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital		~	_		
	System Warning	Digital	0	к			

2. The Scheduled Backup dialog is displayed.

Scheduled Backup						8		
Schedule a Configuration Backup to automatically start on the selected days at the specified time. The last "Days to Keep" backups will be retained. When the limit is reached, the oldest will be deleted when the next backup starts. The start time cannot be within 30 minutes of midnight. SQL Server backups must be scheduled separately using SQL Server Management Studio. Backup Start Time (24 hour format)								
Hour	3							
Minute:	30							
Backup Days (at least one r Sunday Monday Tuesday Wednesday Thursday Friday Saturday	nust	be s	elect	ed to	enab	le backup)		
Backup Path:								
Days to Keep:	7							
			0			Cancel		

- 3. Specify when the backup is to be performed.
  - 1. The Start Time is based on a 24- hour clock: for example, 5:00 p.m. is entered as "17:00." Note that the backup cannot occur within ten minutes of midnight and that there are restrictions based on the type of backup media. The Start Time plus the duration of the archive cannot extend through midnight if archiving to an external drive and it cannot be within the half hour preceding midnight if archiving to a remote network drive.
- 4. Check the Day(s) of the Week on which the backup is performed. Daily backups are strongly encouraged and recommended.
- 5. Enter or browse to the desired backup path.
- 6. You can adjust the maximum number of backups that are stored in the specified path.
- 7. Click OK to enable the displayed Data Backup settings. Archiving will be performed automatically at the scheduled time on the selected day(s).

### Create All .vi Files

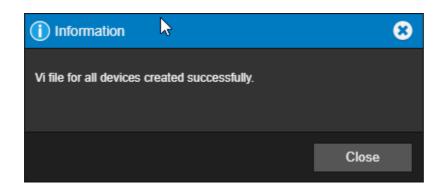
You can initiate the command to create all the .vi files for your configuration.

To Create All .vi files:

1. Select Create All .vi Files in the Administration menu

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State	Name 🔺	Туре	Configuration B Scheduled Bac	-			
	Active Client Connections	Analog					
	Archive Elapsed Time	Analog	Create All .vi Fi	les			
	Configuration Backup	Digital	Alarm Notificati				
	Database Archiving	Digital		onriopo			
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Databas	e			
	Disk Free Space	Analog	Fix Database	:	Sheele		
	Major Server Version	Analog	Database Cons SQL Server Pro				
	Message Manager Local	Digital		pernes			
	Message Manager Remote	Digital	Scheduled Data	a Deletior	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital	· · ·	r.	-		
	System Warning	Digital	0	К			

- 2. All of the defined .vi files in your system will be generated and named with the word Create added in the filename.
- 3. Upon successful completion, you will get the following dialog



### Alarm Notification Properties

Alarm Notification Properties controls the behavior of the Alarm Notification pop-up dialog and audible notification when an alarm occurs during an active user session.

E Channel List State Name Configuration Backup		0
State Name A Type		<u> </u>
Schodulod Packup		
Active Client Connections Analog		
Archive Elapsed Time Analog Create All .vi Files		
Configuration Backup Digital Alarm Notification Proper	rties	
Database Archiving Digital	1005	
Database Backup Digital Start Database		
Database Status Digital Stop Database		
Digital Transition Rate Analog Check Database		
Disk Free Space Analog		
Major Server Version Analog Database Consistency C SQL Server Properties	neck	
Message Manager Local Digital		
Message Manager Remote Digital Scheduled Data Deletion	1	
Minor Server Version Analog Install Language Pack	_	
Server Configuration Mode Digital Update Translations		
System Alarm Digital	_	
System Warning Digital OK		

For the Alarm Notification Popup, you can enable (default setting) or disable the popup from appearing when an alarm occurs. You can also specify suppression time (in seconds) for displaying the popup, as well as specify the maximum alarm priority level that may trigger its appearance. You can enable (default setting) or disable the audible notification from playing when an alarm occurs. Similar to the Alarm Notification Popup, you can specify a Priority Limit, and even toggle whether the audible notification should silence when an active alarm generates back to a normal state.

Alarm Notification Properties					
<ul> <li>Alarm Notification Population</li> </ul>	р				
Priority Limit:	9999				
Suppression Time (sec):	30				
✓ Audible Notifications					
Priority Limit:	9999				
✓ Automatic	ally silence alarm on return to normal				
	OK Cance				

#### **Custom Audible Alarm Notification Sounds**

Audible Alarms, by default, use an alarm.mp3 file that is played when any alarm is generated in Foreseer. You may optionally add your own custom sounds into the system using either .wav or .mp3 sound files loaded into the WWW\Support\Sounds folder. These custom sounds will be used and adopted by all users of the system.

File names assigned to sound files must be in a format that links the file to a specific alarm priority. The file naming format is Alarm\_x.mp3 or Alarm\_x.wav, where x is equal to a Foreseer Alarm Priority number ranging from 1 – 9999.

For example:

- If you want a particular sound to play when an alarm assigned with priority 1 occurs, the name of your file will be *Alarm\_1.mp3* or *Alarm\_1.wav*.
- If you want a particular sound to play when an alarm assigned with priority 2000 occurs, the name of your file will be *Alarm\_2000.mp3* or *Alarm\_2000.wav*.

As you consider the potential to use custom sounds for different alarm priorities, make reasonable decisions on the length and content of files. For example:

- Sound files should be of a finite length and limited to sound effects.
- Bit-encoding should be of fidelity and quality for all users to understand.
- Refrain from using content that may be subject to copyright law.

#### Start Database

⊘ Administrative authorization is required before proceeding with this command.

Starts the Foreseer databases in SQL Server. You must stop the databases prior to running checking or fixing the databases.

			⊕en-us▼	$\odot$		錢	?
$\equiv c$	hannel List						Q
State	Name	Туре	Configuration B	-			
	Active Client Connections	Analog	Scheduled Bac	кир			
	Archive Elapsed Time	Analog	Create All .vi Fil	les			
	Configuration Backup	Digital	Alarm Notificati	on Pron	artiac		
	Database Archiving	Digital		unriope	ciues		
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Databas	е			
	Disk Free Space	Analog	Fix Database		<u>.</u>		
	Major Server Version	Analog	Database Cons		Check		
	Message Manager Local	Digital	SQL Server Pro	perties			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital		~			
	System Warning	Digital	0	к			

#### Stop Database

⊘ Administrative authorization is required before proceeding with this command.

Stops the Foreseer databases in SQL Server. You must stop the databases prior to running checking or fixing the databases.

			⊕en-us▼	Ũ		礅	?
≡ ci	nannel List						Q
State	Name 🔺	Туре	Configuration B Scheduled Bacl	-			
	Active Client Connections	Analog		Nup			
	Archive Elapsed Time	Analog	Create All .vi Fil	es			
	Configuration Backup	Digital	Alarm Notificatio	on Prop	ortios		
	Database Archiving	Digital		on rop	cruco		
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Databas	е			
	Disk Free Space	Analog	Fix Database		0		
	Major Server Version	Analog	Database Cons		Спеск		
	Message Manager Local	Digital	SQL Server Pro	perues			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Language	e Pack			
	Server Configuration Mode	Digital	Update Translat				
	System Alarm	Digital	optate interest			-	
	System Warning	Digital	0	к			

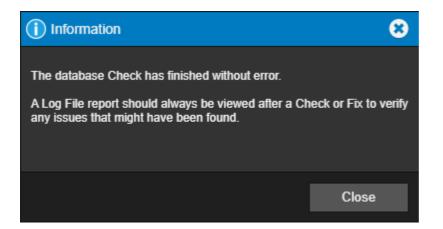
### Check Database

 $\bigcirc$  Administrative authorization is required before proceeding with this command.

Runs a cursory check of the Foreseer databases. This check verifies the schema, checks the channel map against the database, and verifies some of the tables.

			⊕en-us▼	$\odot$		钧	?
≡ ci	hannel List						Q
State	Name	Туре	Configuration B	-			
	Active Client Connections	Analog	Scheduled Back	kup			
	Archive Elapsed Time	Analog	Create All .vi Fil	es			
	Configuration Backup	Digital	Alarm Notificati	on Prop	ortioc		
	Database Archiving	Digital		on rop	citico		
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Databas	е			
	Disk Free Space	Analog	Fix Database		0.		
	Major Server Version	Analog	Database Cons SQL Server Pro		Спеск		
	Message Manager Local	Digital	SQL Server Fro	pernes			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital		_			
	System Warning	Digital	0	К			

Results are written to the log, which you can review by generating a log through Reports.



#### Fix Database

 $\bigcirc$  Administrative authorization is required before proceeding with this command.

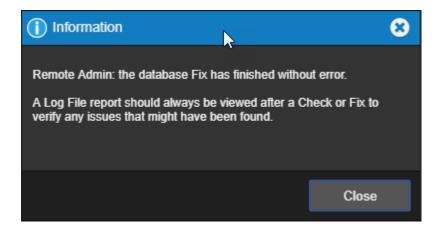
This is a thorough check of the Foreseer databases, including allocation and consistency checks. If problems are found, this function will attempt to fix them.

- 🌐 en-us 🔻 🚫 B කු (?)Q Configuration Backup State Name Туре Scheduled Backup Active Client Connections Analog Archive Elapsed Time Analog Create All .vi Files Configuration Backup Digital Alarm Notification Properties Database Archiving Digital Start Database Database Backup Digital Stop Database Database Status Digital Check Database Digital Transition Rate Analog Fix Database Disk Free Space Analog Database Consistency Check Analog Major Server Version SQL Server Properties Message Manager Local Digital Scheduled Data Deletion Message Manager Remote Digital Analog Minor Server Version Install Language Pack Server Configuration Mode Digital Update Translations System Alarm Digital System Warning ΟK Digital
- 1. Select Fix Database from the Administration Menu

2. This operation may take a long time. DO NOT interrupt it or your database files may be damaged/

EATO	N Foreseer <ul> <li>Enterprise Management</li> </ul>					
≡ Se	rver List			Q		
• F	Fixing the Databases					
	WARNING: This operation may take a long time. DO NOT interrupt it or your database files may be damaged.					
check	ng MR database					
State	Name	*	Туре			
	*7044 Test 1		MoM			

3. Results are written to the log, which you can review by generating a log through Reports.



### Database Consistency Check

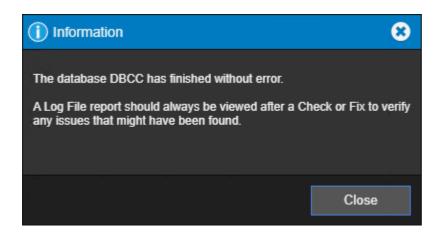
In order to successfully run a Database Consistency Check, the Windows service account or SQL user account used by Foreseer must contain public and db\_backupOperator mapped access to the master database in order for use this command. Consult your Database Administrator for further support. The Database Consistency Check feature is used to perform a low-level check of all active Foreseer historical databases. In prior versions, the Database Consistency Check ran anytime a Fix Database command was executed. Many times, Database Consistency Check was not necessary and could significantly increase the amount of time necessary to run Fix Database.

Beginning with Foreseer v7.3, the Database Consistency Check feature has been split from Fix Database and can be ran separately.

			⊕en-us▼	$\odot$		ŝ	?
	nannel List						Q
State	Name	🔺 Туре	Configuration Backup Scheduled Backup				
	Active Client Connections	Analog					
	Archive Elapsed Time	Analog	Create All .vi Fi	es			
	Configuration Backup	Digital	Alarm Notification Properties				
	Database Archiving	Digital					
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog	Check Database Fix Database				
	Disk Free Space	Analog					
	Major Server Version	Analog	Database Consistency Check				
	Message Manager Local	Digital	SQL Server Properties				
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital			_		
	System Warning	Digital	0	к			

EATO	EATON Foreseer® Enterprise Management						
≡ Se	erver List			Q			
R	Running Database Consistency Check						
WARNING: This operation may take a long time. DO NOT interrupt it or your database files may be damaged.							
running DBCC on MR database							
State	Name	🔺 Туре	Needs Update	Connect State			
	FORESEER	Foresee	r -	-			

When you execute the Database Consistency Check (DBCC) command, the Database Engine creates a database snapshot and brings it to a transactionally consistent state. The DBCC command then runs the checks against this snapshot. After the DBCC command is completed, this snapshot is dropped.



DBCC checks the logical and physical integrity of all the objects in the specified database by performing the following operations:

- Runs DBCC CHECKALLOC on the database.
- Runs DBCC CHECKTABLE on every table and view in the database.
- Runs DBCC CHECKCATALOG on the database.
- Validates the contents of every indexed view in the database.
- Validates link-level consistency between table metadata and file system directories and files when storing VARBINARY (max) data in the file system using FILESTREAM.
- Validates the Service Broker data in the database.
- This means that the DBCC CHECKALLOC, DBCC CHECKTABLE, or DBCC CHECKCATALOG commands do not have to be run separately from DBCC CHECKDB. For more detailed information about the checks that these commands perform, see the descriptions of these commands.

#### SQL Server Properties

✓ The Windows service account of SQL user leveraged by Foreseer must be assigned the following SQL Server roles:

- public
- bulkadmin
- dbcreator

In addition to the above roles, there are times when a Database Consistency Check may need to be executed. In order to run DBCC, the account must also contain the following user mapping to the master db:

- public
- dbbackupoperator

Contact your Database Administrator for assistance with provisioning of these entitlements to the account used by Foreseer.

Use this dialog box to configure access to your instance of SQL Server. Follow the instructions on the dialog box to configure the connection string.

You can choose to use either an account managed by SQL Server or a Windows account. If this isn't a new server installation you'll need to set the account information in the Server Properties dialog box (General tab).

You can also change the location of the Data and Log files.

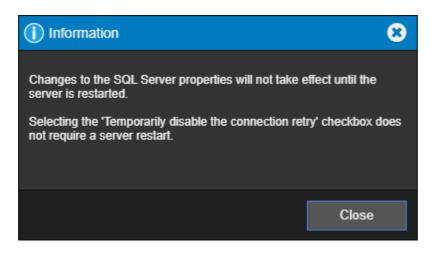
1. Select SQL Server Properties from the Administration Menu

≡ c	hannel List		⊕en-us▼			~~	(?) Q
State	Name Active Client Connections	<ul> <li>Type</li> <li>Analog</li> </ul>	Configuration Backup Scheduled Backup Create All .vi Files Alarm Notification Properties Start Database Stop Database		E	~	
R	Archive Elapsed Time Configuration Backup	Analog Digital					
	Database Archiving	Digital					
н	Database Backup Database Status	Digital Digital					
я	Digital Transition Rate Disk Free Space	Analog Analog	Check Database Fix Database				
	Major Server Version Message Manager Local	Analog Digital	Database Consistency Check SQL Server Properties Scheduled Data Deletion		8		
a	Message Manager Remote	Digital					
н	Minor Server Version Server Configuration Mode	Analog Digital	Install Languag Update Transla				
	System Alarm	Digital		r.	_		
	System Warning	Digital	0	ĸ			

2. The SQL Server Properties dialog will display.

SQL Server Setup			8			
Enter the connection string that identifies the So connection string is: SERVER_NAMEVINSTANC instance on this computer.						
SERVER_NAME can be a Computer Name or an IP Address. If the name identifies the local computer, a dot (period) may be used. INSTANCE_NAME identifies the instance of SQL Server if it was installed as a Named Instance.						
TCP_PORT is optional and identifies a specific Server is behind a firewall at a specific port num		Server. It is typicall	y used if the SQL			
Connection String:						
To use SQL Server Authentication mode, enter Windows Authentication mode, leave these ent		to connect to SQL S	erver. To use			
Login:						
Password:						
Verify:						
All databases use a single Data file in the PRIM the "master" database Data and Log files are. You may select different locations for the physic empty.						
Data File Path:						
Log File Path:						
If a SQL Server connection fails, automatically reconnection.	retry the connection. A retry time	of 0 will disable au	tomatic			
Retry Time (sec):	30					
Temporarily disable the connection retry	(persists as long as checked or t	until the server is re	started).			
		ОК	Cancel			
		UK	Cancer			

After selecting the Ok button, the informational dialog will appear



#### Scheduled Data Deletion

O Administrative authorization is required before proceeding with this command.

Use this dialog to control the scheduling and processing of managing your database files.

The scheduled data deletion function will process the appropriate SQL scripts to either completely remove the appropriate HR databases, MR databases, TR databases, and Async databases, or to just detach the databases but leave the files intact based on user-configured settings.

- Scripts will run on the 1st of January and July after the regular monthly database maintenance has completed and the system is actively archiving in the current month. The database files will be deleted or detached (based on configuration) over the last six months all together so that there is consistency among all the remaining databases.
- If a cycle is skipped due to the server being down, then the scripts will not run for the skipped period. The scripts will run during the next scheduled period.
- Deletions will be for entire databases only and not individual records in any database
- You can schedule deleting Waveform capture files at user-definable intervals.
  - Waveform file deletion will process on the 1st of January and July. Waveform file deletion will run irrespective of whether the database is in archiving state or not.
  - Process will run the necessary scripts to remove the appropriate .WFC files in the <Foreseer>/Captures folder.
  - Waveform deletion applies to both Foreseer Server and Foreseer Outpost
  - The Modified Date of the file will be used to determine if a file is to be deleted or retained.

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State	Name	🔺 Туре	Configuration B Scheduled Bac	-			
	Active Client Connections	Analog					
	Archive Elapsed Time	Analog	Create All .vi Files Alarm Notification Properties				
	Configuration Backup	Digital					
	Database Archiving	Digital					
	Database Backup	Digital					
	Database Status	Digital					
	Digital Transition Rate	Analog	Check Database				
	Disk Free Space	Analog	Fix Database				
	Major Server Version	Analog	Database Consistency Check SQL Server Properties				
	Message Manager Local	Digital					
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital		n.	-	-	
	System Warning	Digital	0	К			

The dialog will only be available to users with the appropriate administrative access in WebConfig. Dialog will include a checkbox for the user to enable/disable the feature. When the feature is disabled, all other user-configurable properties in the dialog will be unavailable for user input and "grayed out". The default setting will be Disabled.

Scheduled Data Deletion Properties					
Scheduled Data Deletion					
Time to retain the data: 10 Years					
Type of data to be removed:	Both	•			
Action to perform on Archived Data:	Delete	•			
	ОК	Cancel			

Time to retain the data:

- A drop-down for selecting the length of time that data is to be retained.
- Selections will be in ½ year increments starting at 1 year and ending at 10 years (1, 1.5, 2, 2.5, 3, 3.5, etc.).
- Default setting will be 10 years.

#### Type of data to be removed:

- A drop-down for selecting what type of data is to be removed.
- Selections will be Archived Data, Waveform Captures, and Both on Foreseer Server and only Waveform Captures on Foreseer Outpost.
  - Default setting will be Both for Foreseer Server and Waveform Captures for Foreseer Outpost.
- On Foreseer Server, if Archived Data or Both is selected, an additional drop-down property will become active to select what action to take on the databases.

#### Action to perform on Archived Data:

- Selections will be Delete and Detach Only
- Default will be Delete.
- This additional property will not be displayed in Foreseer Outpost.

When the necessary scripts have completed, appropriate messages will be entered into the Foreseer Log File to log the status of the data deletion routine. When scripts successfully complete, the message will indicate success of the routine and provide the number of files removed/detached.

If any of the scripts fails to run successfully, a System Warning alarm will be generated and the message in the log file will provide as much detail as possible as to why the routine was unsuccessful (unable to connect to SQL Server, sharing violation on WFC file, etc.). The Waveform Capture scripts will be considered successful if the Captures folder does not exist (no waveform devices are monitored) or no files meet the criteria for deletion.

Separate success/failure messages will be logged for the Database scripts and for the Waveform scripts.

In a Primary/Redundant server architecture, any changes made to the Scheduled Data Deletion configuration in the primary server will update the "Needs Update" column to "Needs Sync". The Scheduled Data Deletion configuration of the secondary server will be synced with that of the Primary server after a Sync operation is performed.

#### Install Language Pack

⊘ Administrative authorization is required before proceeding with this command.

The Install Language Pack functionality allows you to install a new language to the Foreseer system and provide internationalization functionality to the Foreseer web environment.

• By installing the language pack to the Foreseer environment, this will allow the use to switch between multiple languages during run-time, without having to restart the application.

			⊕en-us▼	Ó		<b>t</b> ột	?
≡ c	hannel List						Q
State	Name	🔺 Туре	Configuration B	-			
	Active Client Connections	Analog	Scheduled Back	kup			
	Archive Elapsed Time	Analog	Create All .vi Fil	es			
	Configuration Backup	Digital	Alarm Notificativ	on Prone	ortion		
	Database Archiving	Digital	Alarm Notification Properties				
	Database Backup	Digital	Start Database				
	Database Status	Digital	al Stop Database				
	Digital Transition Rate	Analog					
	Disk Free Space	Analog					
	Major Server Version	Analog	Database Cons		Спеск		
	Message Manager Local	Digital	SQL Server Pro	perties			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Language	e Pack			
	Server Configuration Mode	Digital	Update Translat				
	System Alarm	Digital		^	_		
	System Warning	Digital	OI	к			

### Install Language Pack Process

To install a new language pack into the Foreseer environment:

• Select the Install Language Pack to bring up the Install Language Pack dialog.

Install L	anguage Pack		8					
(L)	0							
Install Language Pack								
Zip F	ile:							
Cert F	ile:							
NOTE: The file being uploaded will entirely replace the existing language Pack. You should not proceed unless you have been instructed to by Technical Support.								
Select Upload to continue or Close to abort.								
		Upload	Close					

• Click the Zip File ellipse to navigate to the location where the Language Pack ZIP file is installed

Install L	anguage Pack		8					
Ŀ	0							
Install Language Pack								
Zip F	ïle:							
Cert F	ile:							
NOTE: The file being uploaded will entirely replace the existing language Pack. You should not proceed unless you have been instructed to by Technical Support.								
Select U	pload to continue or Cl	ose to abort.						
		Upload	Close					

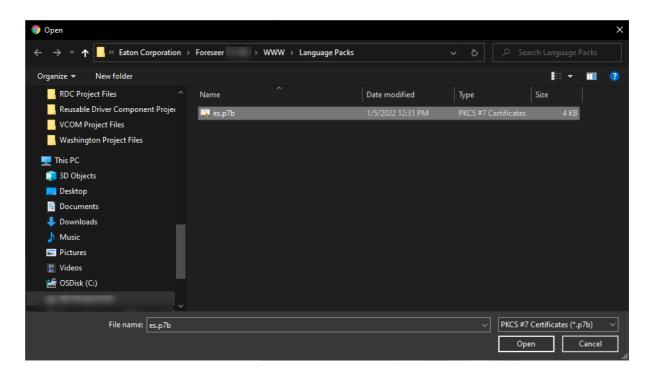
• Select the Language Pack and click Open.

)rganize 🔻 New folder				💷 👻 🔟
Washington Project Files	^ Name ^	Date modified	Туре	Size
💻 This PC	💡 es.zip	1/5/2022 12:31 PM	Compressed (zipp	63 KB
3D Objects				
🧮 Desktop				
🚆 Documents				
🕹 Downloads				
👌 Music				
Pictures				
🚆 Videos				
🚔 OSDisk (C:)				

• Click the ellipse to navigate to the location where the certificate file is located.

Install L	anguage Pack		8					
(L)	8							
Install Language Pack								
Zip F	ile:							
Cert F	ile:							
NOTE: The file being uploaded will entirely replace the existing language Pack. You should not proceed unless you have been instructed to by Technical Support.								
Select Upload to continue or Close to abort.								
		Lipland	Class					
		Upload	Close					

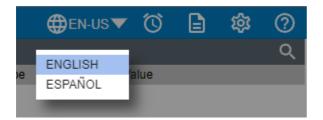
• Select the Language Pack certificate and click Open.



• Click Upload to continue the installation.

Install Lang	uage Pack	, , ,	8				
Install Language Pack							
Zip File:	es.zip						
Cert File:	es.p7b						
language Pac	k. ot proceed unless y	will entirely replace th you have been instruc					
Select Upload to continue or Close to abort.							
		Upload	Close				

• The newly installed language is now available for selection from the menu



• Refresh the application to have the newly installed language ready for use.

### Version Information

To determine the version of Foreseer Language Packs installed on your system, select the Version Information tab.

Install Language Pack		8				
ET ()						
Version Information						
Select Language:	English	▼				
File Name	Version					
Translation	7.5.800.4					
ServerMessages	7.5.800.5					
Login	7.5.800.6					
		Close				
		Ciose				

The version information for the following Language Packs will be displayed.

- Translation
- Server Messages

• Login

# **Update Translations**

⊘ Administrative authorization is required before proceeding with this command.

The Update Translations functionality allows you to perform a number of different operations on the Foreseer Language Pack files in support of the Internationalization of Foreseer. The functions provided are:

- Download Translations
- Upload User Defined Translations
- Restore Translations

These functions are available from the Update Translations menu option.

			⊕en-us▼	$\odot$		र्छ	?
$\equiv c$	hannel List		O			100	Q
State	Name	Туре	Configuration B	-			
	Active Client Connections	Analog	Scheduled Bacl	кир			
	Archive Elapsed Time	Analog	Create All .vi Fil	les			
	Configuration Backup	Digital	Alarm Notificati	on Dron	ortion		
	Database Archiving	Digital	Alarm Notification Properties				
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog					
	Disk Free Space	Analog					
	Major Server Version	Analog	Database Cons		Check		
	Message Manager Local	Digital	SQL Server Pro	perties			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Language	o Pack			
	Server Configuration Mode	Digital	Update Translat				
	System Alarm	Digital	U U	_			
	System Warning	Digital	0	к			

## **Download Translations**

⊘ Administrative authorization is required before proceeding with this command.

To download the Foreseer Translations defined, select Update Translations from the Settings menu.

			⊕en-us▼	$\odot$		钧	Ć
≡ cr	nannel List						C
State	Name	Туре	Configuration B	-			
	Active Client Connections	Analog	Scheduled Bacl	кир			
	Archive Elapsed Time	Analog	Create All .vi Fil	les			
	Configuration Backup	Digital	Alarm Notificati	on Prone	ortios		
	Database Archiving	Digital	Alarm Notification Properties				
	Database Backup	Digital	Start Database				
	Database Status	Digital	Stop Database				
	Digital Transition Rate	Analog					
	Disk Free Space	Analog					
	Major Server Version	Analog	Database Cons		Check		
	Message Manager Local	Digital	SQL Server Pro	perties			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Language	e Pack			
	Server Configuration Mode	Digital	Update Translat				
	System Alarm	Digital	0	<b>N</b>		-	
	System Warning	Digital	0	к			

✓ The file which is downloaded will contain the first column as a key, along with the translations of all of the supported languages currently installed in the application. It will also contain the server objects like device and channel names.

From the Download Translations tab, click on Download.

Update	Translati	ons		8
<b>±</b>	ł	0		
Downlo	ad Tran	slations		
NOTE: T	he file whic	ch is downloa	ided will contain firs	t column as a key
and alon	g with trans	slations of all		es in the application.
	he file will		pports English (US) nns like ['key','en-US	
			Download	Cancel

The translation text file will be downloaded to your computer which will provide the user the ability to change any of the text / translations for the devices / channels defined within their Foreseer environment. This file will be in the format:

Key|English text|Translation text

### Upload User Defined Translations

⊘ Administrative authorization is required before proceeding with this command.

Now that the translation text file has been modified to meet the Foreseer customer's needs, Foreseer provides a mechanism to allow these user-defined modifications to be upload into the system available for use by the application.

To upload the User Defined Foreseer Translations:

1. Select Update Translations from the Settings menu.

			⊕en-us▼	$\odot$		鍃	?
$\equiv c$	hannel List					100	0
State	Name	Туре	Configuration B				
	Active Client Connections	Analog	Scheduled Bac	кир			
	Archive Elapsed Time	Analog	Create All .vi Fi	les			
	Configuration Backup	Digital	Alarm Notificati	on Prop	ortioc		
	Database Archiving	Digital	Alarm Notification Properties				
	Database Backup	Digital	Start Database				
	Database Status	Digital	g Check Database Fix Database				
	Digital Transition Rate	Analog					
	Disk Free Space	Analog					
	Major Server Version	Analog	Database Cons SQL Server Pro		Спеск		
	Message Manager Local	Digital		pernes			
	Message Manager Remote	Digital	Scheduled Data	a Deletio	n		
	Minor Server Version	Analog	Install Languag	e Pack			
	Server Configuration Mode	Digital	Update Transla				
	System Alarm	Digital	0	N			
	System Warning	Digital	0	к			

⊘ The upload file should contain columns in the following format. For example, if Spanish were installed in the Foreseer environment:

Key|English text|Translation text

2. From the Upload User Defined Translations tab, click on the ellipse to locate the file.

Update Translations		8					
± 🕞 🖸							
Upload User Defined Tran	Islations						
File name::							
[Key English text Spanish text]	Depending on the column headers of the uploaded file, respective						
CAUTION: The file being uploaded will entirely replace the existing 'User Defined' translation file. You should not proceed unless you have been instructed to by Technical Support. Select OK to continue or Cancel to abort.							
	Upload	Cancel					

3. Select the filename to be uploaded into the Foreseer environment and click Open

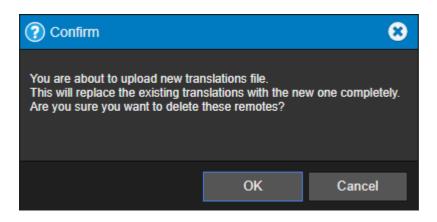
Open					×
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\rightarrow$ This PC	> Desktop		ڻ ~		
Organize 🔻 New folder					• ?
📌 Quick access	^	Name	Date modified	Туре	Size
➡ Desktop ➡ Downloads ➡ Documents ➡ Pictures	* * *	Doc Temp Eaton Utilities Remote.txt UserDefined_1-6-2022_12-2-9.txt	12/15/2021 9:42 AM 4/5/2021 7:21 AM 1/4/2022 2:40 PM 1/6/2022 12:03 PM	File folder File folder Text Document Text Document	1 КВ 66 КВ
Foreseer Foreseer FRS Language Packs					
lesson - Eaton estimation estimat		<			>
File name:	UserDefine	d_1-6-2022_12-2-9.txt		Text Document (*.txt) Open	Cancel

4. Click on Upload to continue.

() The file being uploaded will entirely replace the existing User-Defined translation file. You should not proceed unless you have been instructed to by Technical Support.

Update Translations		8
0 +		
Upload User Defined Tran	slations	
File name:: UserDefined_1-6	-2022_12-2-9.txt	
NOTE: The upload file should co [Key English text Spanish text] Depending on the column heade translation file will be updated.		-
CAUTION: The file being upload 'User Defined' translation file. You should not proceed unless y Technical Support. Select OK to continue or Cancel	ou have been instru	-
	Upload	Cancel

5. Click on OK button to confirm the replacement of the Use Defined translations.



## **Restore Translations**

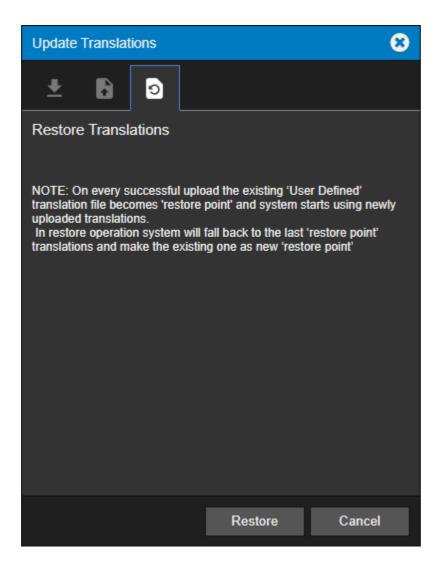
⊘ Administrative authorization is required before proceeding with this command.

In the event that the User-Defined translations need to be restored, Foreseer provides a mechanism to restore your User Defined Translations based on the last restore point.

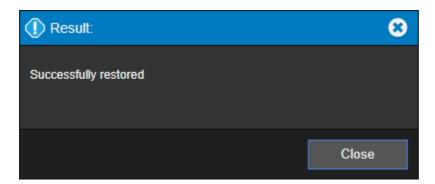
On every successful upload, the existing User Defined translation file will become the restore point at which the system will then start using the newly uploaded translations. In a restore operation, the system will fall back to this restore point.

To Restore your User Defined translation file back to the restore point:

1. Click on the Restore button on the Restore Translations dialog.



2. Click on the Close button on the Successfully Restored Confirmation dialog.



# Local Server List Menu

The Server List menu provides access to all of the functionality that will be required to manage your Foreseer servers.

- Start Server Configuration
- End Server Configuration
- Start New Log File

- Install Devices from List
- Update Devices from List
- User Defined Fields
- Add Remote
- Copy for WebViews
- Restart WebViews
- Restart Server
- Restart Windows
- Add Note
- Get Log File
- Upload Files
- Open Older Log File
- Open Saved Wiretap
- Properties

# Start Server Configuration

Certain configuration functions are only available when in Server Configuration mode; however, configuring backups is only available when not in Server Configuration mode. Functions that are only available in Server Configuration mode are:

- Install Devices from List
- User Defined Fields
- Add Remote
- Unload Driver
- Load Driver
- Delete Device
- Rename Device
- Add User Defined Channel

O Administrative Authorization is required in initiating Server Configuration mode.

To start Server Configuration mode:

1. Select Start Server Config Mode from the Server List menu

EA	TON Foreseer® Enterprise	e Managemen				
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S	A	Туре	Needs Update	Connect State
	End Server Config Mode	Alt+Shift+E		MoM	-	-
E	Start New Log File			Foreseer	No	connected
	Install Devices From List					
	Update Devices From List					
	User Defined Fields					
	Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				

2. A successful start of the Server Configuration Mode will be indicated by the orange Config Mode status bar in the Server List panel

EATO	N Foreseer® Enterprise Manageme	nt		
≡ Se	erver List			Q
		Config Mode		
State	Name	🔺 Туре	Needs Update	Connect State
	*Foreseer	MoM	-	-
	Foreseer Remote	Foreseer	No	connected

# End Server Configuration

⊘ Administrative Authorization is required in initiating Server Configuration mode.

To End Server Configuration mode:

1. Select End Server Config Mode from the Server List menu

Server List					
Start Server Config Mode	Alt+Shift+S	Config Mod			
End Server Config Mode	Alt+Shift+E	*	Туре	Needs Update	Connect St
Start New Log File			MoM	-	-
Install Devices From List			Foreseer	No	connected
Update Devices From List User Defined Fields					
Add Remote					
Add Remote					
Copy for WebViews	Ctrl+C				
Restart WebViews					
Restart Server					
Restart Windows					
Add Note					
Get Log File	Alt+Shift+L				
Upload Files					
Open Older Log File					
Open Saved WireTap					
Properties	Alt+Enter				

## Start New Log File

This command stops writing the server admin log data to the existing log file and starts a new log file that is automatically assigned a name which is a composite of the name of the prefix Log, the date, and the time (in 24-hour format). The file extension of log files is .txt. Log files reside in the

```
<Install Drive>:\Eaton Corporation\Foreseer\LogFiles
```

folder.

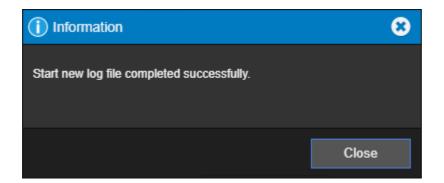
⊘ The current LogFile.txt is located in the <Install Drive>:\Eaton Corporation\Foreseer\ directory and not in the LogFiles directory.

To start the new log file process:

1. Select Start New Log File from the Server List Menu

EA	TON Foreseer® Enterprise	e Managemen	nt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
C	End Server Config Mode	Alt+Shift+E		MoM	-	-
C	Start New Log File			Foreseer	No	connected
	Install Devices From List Update Devices From List User Defined Fields Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				

2. Upon completion, you will get the following success dialog



# Install Devices From List

() Before adding devices in any manner it is highly recommended to take a configuration backup (ARQ) so you can return to a previous point if issues are encountered.

As an alternative to loading a single device via the wizard, you can load a set of devices by predefining these in a comma-separated values (CSV) file. This "device list" file has the following format:

*device\_name, device\_type, device\_location, alarm\_group\_name, vi\_file\_name,IP\_address,port\_number,driver\_specific\_info* 

#### Where:

*device\_name* is the name that will be used in Foreseer for the device.

*device\_type* – a string defining the device type. You can use a pre-determine device type supported by Foreseer, or use your own custom device type string.

*device\_location* – a string defining the location of the device.

*alarm\_group\_name* - a string defining a logical alarm grouping name.

*vi\_file\_name* is the filename of the driver file for that device. This file is stored in the install\_path/Foreseer/vi folder. Note that some driver file names may have a single comma. Foreseer will handle this correctly.

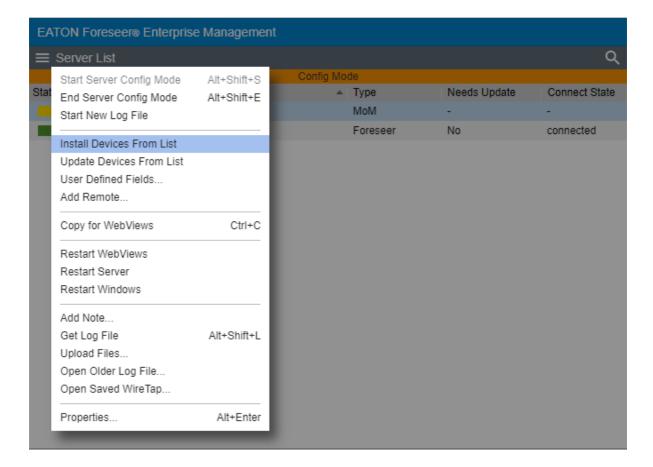
*IP\_address* is the IP address for that device. Set this to none for the Nothing driver.

*port\_number* is the port portion of the device address. Leave this field blank for the Nothing driver. You may also leave this field blank to use the default port for that specific device protocol, or enter a valid port number.

*driver\_specific\_info* is either the device ID (for Modbus) or the read community string for SNMP. Set this to none for the Nothing driver.

To add a device from list server:

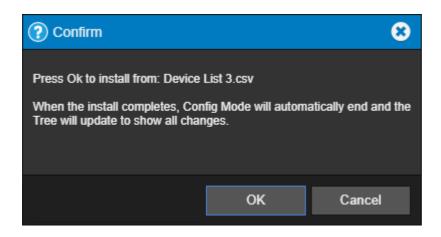
1. Select Install Device From List in the Server List menu.



2. Select Install Device From List in the Server List menu.

Open csv File from VI Fo	olde	r	8
Device List 1.csv			
Device List 2.csv			
Device List 3.csv			
Device List 4.csv			
File Name:	De	vice List 3.csv	
		Open	Cancel

3. Click OK to confirm your selection.



Drivers known at this time that can be installed using the Install from List feature include:

- 6-Modbus3
- 6-SNMPManger3
- 6-PowerXpertMeter
- 6-CyberScience CyTime SER
- 6-SquareD\_PM800
- 6-PowerXpertMeter2200

O This feature is limited to only 15 devices at a time.

Servers that have remotes or redundant servers already added to the ARQ must follow 15 device chunks and use separate files to allow the database to update gracefully.

This is by design.

#### Examples:

Modbus device installs:

PX Meter 1, Meter, PA-Pittsburgh, PQ Alarms, 7-PowerXpert Meter 4000 TCP.vi, 10.22.50.30, 502, 1 PX Meter 2, Meter, PA-Pittsburgh, PQ Alarms, 7-PowerXpert Meter 150 TCP.vi, 10.22.50.50, 951, 1

SNMP device installs:

PW 5125 1, UPS, PA-Pittsburgh, UPS Alarms, 7-Powerware UPS 5125 SNMP.vi, 10.22.50.32, 161, public PW 5125 2, UPS, PA-Pittsburgh, UPS Alarms, 7-Powerware UPS 9395 SNMP.vi, 10.22.50.75, , public

Nothing device installs:

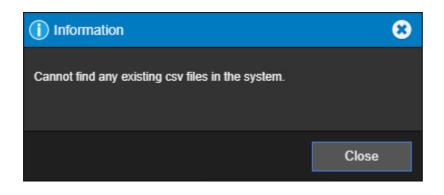
Nothing 1, None, PA-Pittsburgh, Custom Alarms, 7-Nothing.vi, none

You can load the .csv file into Foreseer through any of the following methods:

- The Foreseer Web Configuration Utility
- The Upload Files feature of Web Configuration.
  - These files should be uploaded to the Server/Vi location.
- The Foreseer Server.
  - To load a device list file through the Foreseer Server:
    - In the Configuration menu, click Start Server Configuration.
    - In the Configuration menu, click Install Devices from List.
    - In the Select CSV File dialog box, browse to the CSV file.
    - Click Open.
    - End Server Configuration

The file will be processed and validated. If no errors are found, the devices will be added

to the Foreseer system configuration. Should errors be detected in the device list file, refer to the error dialog boxes and the log report.



After adding all of the devices to your Foreseer Server, you should run a System Configuration Report. You should maintain an inventory of all the components in your system in a manner in which you uniquely identify each component. The System Configuration Report provides information about devices including IP address and Ports.

# Update Devices From List

() Before updating devices in any manner, especially in bulk fashion, it is highly recommended to take a configuration backup (ARQ) so you can return to a previous point if issues are encountered.

Update Devices from List provides a method to update existing Foreseer devices already installed. Specifically, this feature allows you easily populate the Device Location, Device Type, and Alarm Group Name properties of a device without needing to touch each individually through WebConfig.

After updating existing devices from list, be sure to perform a Fix Database command to commit any changes.

The Update Devices from List feature requires the use of a CSV formatted file. The Update List file has the following format:

deviceName, deviceType, deviceLocation, alarmGroupName

-where-

**deviceName** – the case sensitive name of the existing device in the Foreseer server configuration

deviceType – a string defining the device type. You can use a pre-determine device type supported by Foreseer, or use your own custom device type string.
deviceLocation – a string defining the location of the device.
alarmGroupName -a string defining a logical alarm grouping name.

The Device Type, Device Location, and Alarm Group Name fields can be blank for situations where only one of the fields needs to be updated. The Device Name is always required in order for the Update process to find the existing device to update.

Any CSV file that you wish to use with the Update Devices from List feature must be copied to the VI directory of your Foreseer installation.

Modern cybersecurity standards prohibit .csv files from being uploaded to web servers like Foreseer using the Upload File feature. Therefore, you must make the appropriate provisions to manually copy this file into the VI directory via Windows File Explorer.

To update devices from a list, perform the following steps:

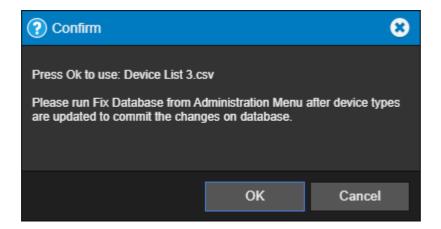
1. Select Update Device From List in the Server List menu.

EA	TON Foreseer® Enterprise	Managemen				
≡	Server List					Q
	Start Server Config Mode	Alt+Shift+S	Config Mo			
Stat	End Server Config Mode	Alt+Shift+E	-	Туре	Needs Update	Connect State
	Start New Log File			MoM	-	-
	Install Devices From List			Foreseer	No	connected
	Update Devices From List					
	User Defined Fields					
	Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				
	_	_				

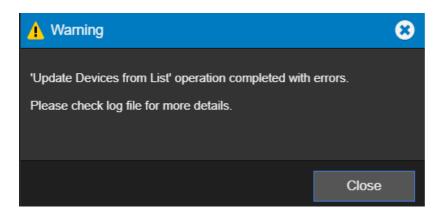
2. Select the appropriate CSV file from the list provided.

Select csv file to update	devi	ces	8
Device List 1.csv			
Device List 2.csv			
Device List 3.csv			
Device List 4.csv			
File Name:	Dev	vice List 3.csv	
		<b>^</b>	01
		Open	Cancel

3. Click OK to confirm your selection.



If the Update from List feature experiences any issues with processing your CSV file, you may receive a message indicating as such. You can run a Log Report to troubleshoot any potential issues that may have been encountered.



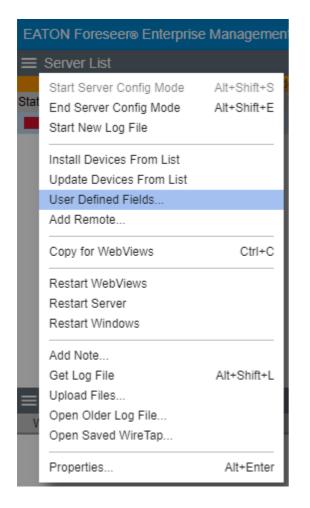
Remember to perform a Fix Database operation in order to commit these changes into your SQL Server database.

# **User Defined Fields**

User Defined Fields provides users with the ability to add custom text-based properties to devices and channels within a configured system. This feature, accessible from the Server List menu during <u>Config Mode</u>, allows a system administrator to define up to 20 custom properties for devices and channels globally in a configured system, as well as five additional custom alarm bands. Custom property definition can be achieved directly within WebConfig using a simplistic field editor.

For situations where custom properties for channels need defined in bulk fashion, the configuration dialog provides a CSV upload feature. This allows you to update the custom properties of channels in bulk fashion.

To access User Defined Fields configuration, start Server Configuration Mode and select the User Defined Fields option from the list of available menu options. You can follow the instructions below on updating User Defined Fields. Once complete, be sure to perform an End Server Configuration Mode. You can then make changes to any fields within the system.



The first tab of the User Defined Fields configuration dialog is used to create custom device properties. A maximum of 20 custom properties can be added to devices globally. Using the dialog, simply enter your desired text descriptions for each property.

User	Defined Fields
	म्सः 🖡 🕞
Devio	ce User Defined Field Names
1.	Serial #
2.	Asset #
3.	Vendor Tel #
4.	Enter User Defined Field Name
5.	Enter User Defined Field Name
6.	Enter User Defined Field Name
7.	Enter User Defined Field Name
8.	Enter User Defined Field Name
9.	Enter User Defined Field Name
10.	Enter User Defined Field Name
11.	Enter User Defined Field Name
	OK Cancel

Accessing a device's properties will allow these fields to become available on the custom properties tab. Device custom property field values are limited to 255 characters.

Device Properties		8
\$ ☆ ☆ ≔	]	
User Defined Fields		
1. Serial #	12345	
2. Asset #	OU812	
3. Vendor Tel #	1-555-555-5555	
11.		
12.		
13.		
14.		
	ОК	Cancel

The second tab of the User Defined Fields configuration dialog is used to create custom channel properties. A maximum of 20 custom properties can be added to channels globally. Using the dialog, simply enter your desired text descriptions for each property.

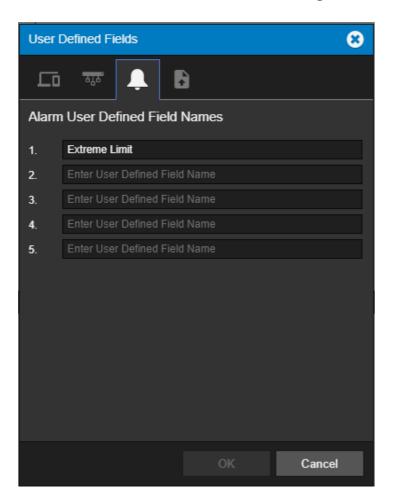
User I	Defined Fields
Lo	- <del>1</del> 55
Chan	nel User Defined Field Names
1.	Note 1
2.	Note 2
3.	Note 3
4.	Note 4
5.	Note 5
6.	Note 6
7.	Note 7
8.	Note 8
9.	Enter User Defined Field Name
10.	Enter User Defined Field Name
11.	Enter User Defined Field Name
	OK Cancel

Accessing a channel's properties will allow these fields to become available on the custom properties tab. Channel custom property field values are limited to 255 characters.

Channel Properties		8
🌣 🌲 🛠	·= .	
User Defined Fields		
1. Note 1	EVH	
2. Note 2	AVH	
3. Note 3	MS	
4. Note 4	DLR	
5. Note 5	MA	
6. Note 6	SH	
7. Note 7	GC	
8. Note 8	WVH	
9.		
40		
	OK Cance	: <b> </b>

The third tab provides you with the ability to define custom alarm properties. You can define up to five (5) custom alarm properties, where analog channels have four groups of five, and digital and date channels can contain one group of five properties. Text channels

cannot alarm and, therefore, cannot be assigned custom alarm properties.



When you access a channel's properties, the last tab will provide you with the ability to adjust these alarm bands.

Channel Properties		8					
✿ ♣ ☆	:= <b>3</b> .						
Hi Critical Alarm User Defined Fields							
1. Extreme Limit	500.0						
Lo Critical Alarm User Defi	fined Fields						
1. Extreme Limit	-50						
		U					
	OK Cancel						

The fourth tab provides you with the ability to upload a configured CSV file to set custom properties for Channels. Press the Browse (...) button to navigate your file system and locate the CSV file you wish to upload.

User Defin	ed Fields		8			
	₩ <b>₽</b> .	3				
Upload User Defined Field Values						
File name:	UDF_Values.csv					
		ОК	Cancel			

The format of the CSV file is as follows:

#### Device, Channel, UDF1, UDF2, UDF3

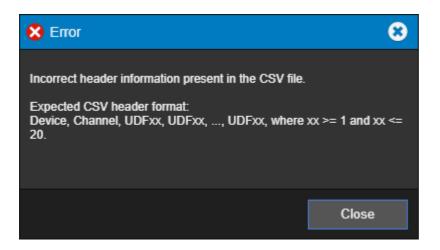
```
Device1, Channelx, CustomValue1, CustomValue2, CustomValue3
```

The first line of the CSV file defines the appropriate headers. The header will always include a position for the Device Name and Channel Name. In the example above, our system has three user defined property fields. Therefore, additional columns are added based on the numerical order of our custom properties. The number of UDF# fields in your header will dependent on how many custom properties you wish to initialize.

Subsequent lines will define the name of the Foreseer device, it's channel, and the values you wish to initialize the custom properties to. An example of how the format is applied using a CSV/spreadsheet editor is shown below.

	A	В	С	D	E	F	G
1	Device	Channel	UDF1	UDF2	UDF3		
2	IQ 260 1	D_kVAh Phase A	HOLLAND-598745	OATES-22	719-266-2	837	
3	IQ 260 2	D_kVAh Phase A	HOLLAND-598745	OATES-22	719-266-2	837	

In the event that your CSV file contains incorrect data, you may receive a message indicating the type of error encountered with your CSV file. You can also reference the Foreseer Log Report for additional help.



If you would like to define and set user defined fields that include custom alarm properties, you can add additional field parameters to the CSV header. The format of the CSV file would be as follows:

Device, Channel, UDF1, UDF2, UDF3, HCR1, HCA1, LCR1, LCA1 Device1, Channelx, CustomValue1, CustomValue2, CustomValue3, 12, 13, 14, 15

Note that when you are constructing a CSV file:

1. Analog channels may contain up to four groups of five header (e.g. HCR1...up to HCR5, HCA1...up to HCA5, LCR1...up to LCR5, and LCA1...up to LCA5) for each alarm band.

2. Digital and Date channels will support only one header (e.g. HCR1...up to HCR5).

### User Defined Fields - Updating Values using CSV

The Upload User Defined Values feature is not limited to initially defining values. You can update device properties, as well as channel properties within the same file. In order to do so, there are few considerations that must be taken into account when doing so.

1. If you wish to update device values, then leave the Channel Column value blank provided that values to be updated are listed in the subsequent column.

2. Keeping any field value blank in the CSV file will retain the old value for that particular device or channel.

3. If you want to discard any field value for a device or channel, specify the corresponding value as "DelUDF" (case-insensitive) in the CSV file.

### User Defined Fields - Database Storage and Updates

All User Defined Fields and their respective values are stored into Foreseer's XRef database. The XRef database contains two database tables that retains and persists this information. They include the following:

- dbo.UDFName contains all User Defined Field Name definitions as configured from the User Defined Fields dialog.
- dbo.UDFValue contains all User Defined Field property settings for channels within the Foreseer server configuration.

User Defined Field data from a Stand-Alone or MoM will be written to the database anytime a change in name or value in the device or channel occurs. For data from a remote server, data will be written to the database upon exiting server configuration or performing a database fix.

You can update user defined values for a device or channel from a remote using channel properties in the same manner as if they were local devices and channels.

### User Defined Fields - Primary/Redundant Architectures

In situations where a Primary/Redundant server architecture is utilized, a change to any device or channel property will result in the Redundant server being marked as "Needs Sync" when viewing servers in WebConfig. Property values between the Primary and Redundant servers will be synchronized after a <u>Synchronize Redundant</u> operation has been performed.

### User Defined Fields - Property Values and Report Inclusion

User Defined Field data can be retrieved and viewed with select standard reports built into Foreseer when they are generated in CSV format. The following reports include User Defined Field data:

- System Configuration Report
- Channel Report when check boxes for Include Alarm Details, Include Alarm Limits, and Include Alarm Messages are selected.
- Custom Alarm Report when the Include User Defined Fields check box is selected.

# Add Remote

A local Foreseer Server can serve as host to a remote Foreseer Server (or an Outpost), expanding and enhancing system monitoring capabilities. Remote servers offer a unique advantage of distributing the acquisition of data. A remote server using Outpost includes data buffering capabilities that prevent against the potential loss of high and medium resolution historic data. A remote server using Outpost will buffer up to 72-hours of historic data. In the event of a loss in communications exceeding more than 30 seconds, the local server will automatically back-fill gaps in historic data with buffered data collected by Outpost.

When you add a remote, the Remote Server appears on the Tree View as another computer and Minor Server Version configuration elements such as Channel Properties can be modified locally. A password provision adds another layer of security by restricting access to the Remote Server to authorized personnel.

⊘ Administrative Authorization is required before proceeding with this command.

Server Config mode must be active to run this command. Activate Config mode by right-clicking server and selecting Start Server Config Mode. The \*\*\*\* CONFIG MODE \*\*\*\* message should be displayed above the tree.

✓ The local Foreseer Server and Remote Server must be at the same software revision in order to fully communicate and exchange data.

If you upgraded your local Foreseer server from a prior software revision, ensure that your Remote Server has been updated before adding.

To add a remote server:

1. Select Add Remote in the Server List menu.

EA	TON Foreseer® Enterprise	e Managemen				
≡	Server List					Q
	Start Server Config Mode	Alt+Shift+S	Config Mo	de		
Stat	End Server Config Mode	Alt+Shift+E	-	Туре	Needs Update	Connect State
	Start New Log File			MoM	-	-
	Install Devices From List			Foreseer	No	connected
	Update Devices From List					
	User Defined Fields					
	Add Remote					
	Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				

2. Identify the remote server by entering its Name and Remote Address; requiring Connection Password security is optional. If a password is specified for remote server access, the password must be entered a second time in the Verify Password field. If no password is specified, it defaults to "special".

Add New Remote	8				
Name:	Foreseer Remote				
Remote Address:	10.130.151.100				
Updates (sec):	2				
Connection Password:					
Verify Password:					
<ul> <li>Connect to this remote</li> <li>Synchronize Remote's</li> <li>This remote is a Redun</li> <li>This Remote sends way</li> <li>NOTE: When install complete</li> </ul>	clock on connect dant Server veform files	d.			
	ОК	Cancel			

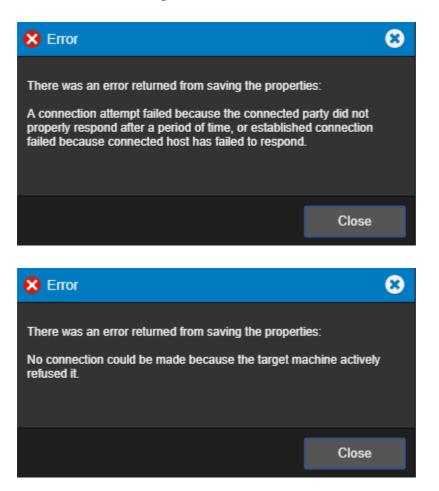
- 3. Either accept the 2 second default for Updates (sec) or enter a new setting.
- 4. Specify whether to automatically Connect to this Remote Server at startup and to synchronize the Remotes clock on connect. You can also specify whether or not this server is redundant and if it sends waveform data.
- 5. Click OK and the Server attempts connection with the Remote Server. Once successful, the following message will appear.

(i) Information	8
Remote added, if Connect At Startup is set, the serv connected after Config Mode is ended.	ver will be
	Close

6. Once connection is established, the new Remote Server appears in the Tree View hierarchy.

A Backups folder is created containing sub-folders for each Remote Server that is added to the system. If a Remote Server configuration changes, as indicated by the Major Server Version System Channel, the Local Server will request a configuration backup. The resulting archive file is uploaded to the respective Remotes sub-folder to ensure that a current backup is available.

#### Possible error messages include:



If you encounter any errors, please correct the problem identified and retry the command.

### **Buffered Data Retrieval**

Remote servers (such as Foreseer Outpost) added to a MoM are automatically enrolled into Foreseer's Buffered Data Retrieval capabilities. Buffered Data Retrieval operations occur in situations where Foreseer may lose connectivity with the Remote for more than 30 seconds, potentially causing a loss of collected historical data.

Upon the device returning to a normal connected status, Foreseer will attempt to back fill gaps in high resolution and medium resolution historic trend data using data buffered by the Remote. A maximum of 72-hours of back fill data is supported by a Remote using Outpost.

No additional setup or configuration is necessary to enable this feature aside from ensuring that the remote is successfully added.

#### Buffered Data Retrieval Operations and Troubleshooting

Buffered Data is continually collected by a Remote server. Periodically, clean-up activities will be carried out automatically to preserve storage space and performance. If a Remote

server is removed or deleted from a MoM, clean-up activities will cease.

It is vital and important to ensure that timezone configurations between a Remote Server and MoM be in parity to ensure data is back filled properly. A different in time zones will disqualify back filling of buffered data. Time should also be synchronized as well to avoid incorrect data being back filled or nullified.

All device-based trend/historic data requested by Foreseer is stored into a new table in the *XRef* database named **dbo.BackfillData**. The table contains all sample data requested that will be processed into Foreseer's high and medium resolution databases.

In situations where an SQL transaction fails to insert a record into high resolution or medium resolution tables, a table in the *XRef* database named *dbo.BackfillErrorLog* will contain error messages indicating why a failure may have occurred. This table will be automatically cleaned each time a new High Resolution database is created (typically at the beginning of a new month). Clean-up scripts will periodically check the database for data older than 90 days. If found, the older data will be deleted.

# Copy for WebViews

This function copies the target and all child devices and their channels to the target folder in the WebViews tree. The server itself is given a subfolder under the target WebViews folder, and each device is given a sub folder of its own under the server folder.

Server List					
Start Server Config Mode	Alt+Shift+S	Config Mo	de		
End Server Config Mode	Alt+Shift+E	-	Туре	Needs Update	Connect St
Start New Log File			MoM	-	-
			Foreseer	No	connected
Install Devices From List					
Update Devices From List					
User Defined Fields					
Add Remote					
Copy for WebViews	Ctrl+C				
Restart WebViews					
Restart Server					
Restart Windows					
Add Note					
Get Log File	Alt+Shift+L				
Upload Files					
Open Older Log File					
Open Saved WireTap					
Properties	Alt+Enter				

≡ Se	rver List	Q	≡ WebViews	۹
State	Name	<ul> <li>Туре</li> </ul>	▼ WebViews	
	*7044 Test 1	MoM	Power Xpert 2270	
			▼ Power Xpert 2280	
			Waveform	
			The Power Xpert 4000	
			▼ Auxiliary	
			> > 7044 Test 1	
			In-Outputs	
			Waveform	

In the example shown above, "WebViews Copy", the Local server is copied and then pasted into the Power Expert 4000 folder under WebViews. Note that the folder structure mimics the device structure under the server. Instead of copying the entire server, you can also copy individual devices and their channels to a location in the WebViews tree.

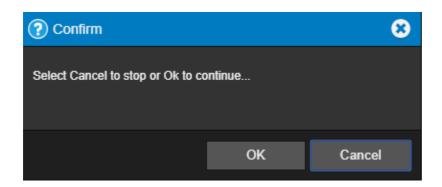
### **Restart WebViews**

The Restart WebViews function restarts the Foreseer WebViews instance (both http and https connections will be reset). Select OK to continue this request.

1. Select Restart WebViews from the Server List menu.

EA	EATON Foreseer® Enterprise Management						
≡	Server List					Q	
	Start Server Config Mode	Alt+Shift+S	Config Mo	de			
Stat		Alt+Shift+E	-	Туре	Needs Update	Connect State	
	Start New Log File			MoM	-	-	
				Foreseer	No	connected	
	Install Devices From List						
	Update Devices From List						
	User Defined Fields						
	Add Remote						
	Copy for WebViews	Ctrl+C					
	Restart WebViews						
	Restart Server						
	Restart Windows						
	Add Note						
	Get Log File	Alt+Shift+L					
	Upload Files						
	Open Older Log File						
	Open Saved WireTap						
	Properties	Alt+Enter					

2. Select OK to continue or Cancel to stop



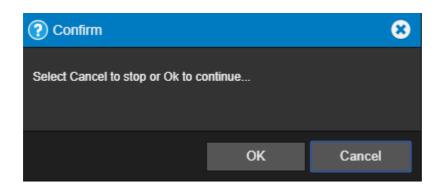
# **Restart Server**

The Restart Server function restarts the Foreseer server. This is identical to exiting and restarting the Foreseer server from its standalone interface. Select OK to continue this request.

1. Select Restart Server from the Server List menu.

EA	TON Foreseer® Enterprise	e Managemen	t					
≡	Server List					Q		
	Start Server Config Mode	Alt+Shift+S	Config Mode					
Stat	End Server Config Mode	Alt+Shift+E	-	Туре	Needs Update	Connect State		
	Start New Log File			MoM	-	-		
	Install Devices From List			Foreseer	No	connected		
	Install Devices From List							
	Update Devices From List User Defined Fields							
	Add Remote							
	Aud Relifice							
	Copy for WebViews	Ctrl+C						
	Restart WebViews							
	Restart Server							
	Restart Windows							
	Add Note							
	Get Log File	Alt+Shift+L						
	Upload Files							
	Open Older Log File							
	Open Saved WireTap							
	Properties	Alt+Enter						

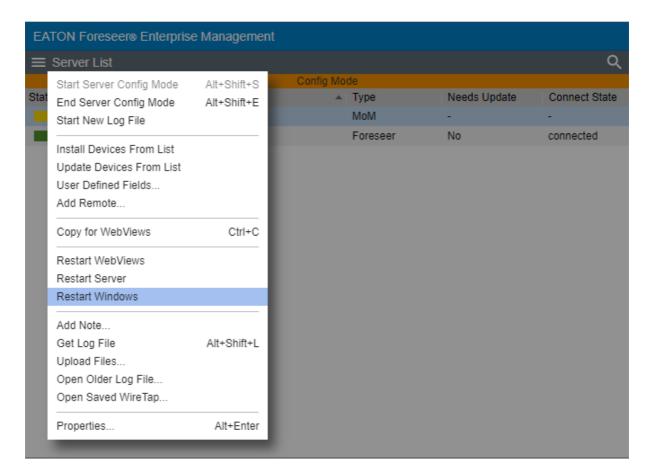
2. Select OK to continue or Cancel to stop



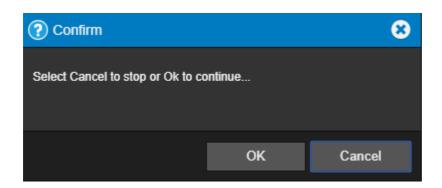
# **Restart Windows**

The Restart Windows function restarts the server computer itself, which may have ramifications beyond just restarting the Foreseer server. Do not issue this command unless you've taken into account other software that may be running on the server. Select OK to continue this request.

1. Select Restart Server from the Server List menu.



2. Select OK to continue or Cancel to stop



# Add Note

You can use the Add Notes feature to record any supplemental information relevant to a particular event when it occurs. The notes are logged into the Server's database and can be reviewed by authorized Foreseer clients or retrieved in Foreseer Reports. An unlimited number of real-time notes may be entered, but they are limited to 255 characters each. A typical use for Foreseer notes is to add information during the course of Acknowledging and/or Rearming alarms.

To create a note:

1. Select Add Note from the Server List menu

Server List					(
		Confin Ma	da		
Start Server Config Mode	Alt+Shift+S	Config Mo		Neede Lindete	Connect Stat
End Server Config Mode	Alt+Shift+E	<b>^</b>	Туре	Needs Update	Connect Stat
Start New Log File			MoM	•	-
Install Devices From List			Foreseer	No	connected
Update Devices From List					
User Defined Fields					
Add Remote					
Copy for WebViews	Ctrl+C				
Restart WebViews					
Restart Server					
Restart Windows					
Add Note					
Get Log File	Alt+Shift+L				
Upload Files					
Open Older Log File					
Open Saved WireTap					
Properties	Alt+Enter				

2. In the note editor dialog box, type a note (not exceeding 255 characters).

8
]

- 3. Select OK to continue.
- 4. The database note can now be reported on in the Notes History Report.

Notes History 1 Day_1 (1).txt - Notepad	-	×
File Edit Format View Help		
Demo Notes History Report Report Interval: 1 day From 12/12/19 12:10:06 To 12/13/19 12:09:53 This is a note for the remote database. 12/13/19 09:23:18 System Up 12/13/19 09:22:28 System Down		^
<		> ~
	Ln 8, Col 59	- .1

# Get Log File

Get Log File will obtain the current Log File Report from the server.

EA	TON Foreseer® Enterprise	Managemen							
≡	Server List					Q			
	Start Server Config Mode	Alt+Shift+S	Config Mode						
Stat		Alt+Shift+E		Туре	Needs Update	Connect State			
	Start New Log File			MoM	-	-			
E				Foreseer	No	connected			
	Install Devices From List								
	Update Devices From List								
	User Defined Fields								
	Add Remote								
	Copy for WebViews	Ctrl+C							
	Restart WebViews								
	Restart Server								
	Restart Windows								
	Add Note				1				
	Get Log File	Alt+Shift+L							
	Upload Files								
	Open Older Log File								
	Open Saved WireTap								
	Properties	Alt+Enter							

# Upload Files

The Upload Files function provides a general-purpose file upload utility, useful for adding graphics, drivers, and other files to the server from a remote location. You can select up to five files to upload simultaneously, as well as selecting the target folder on the server. Target folder selections are limited to those within the Foreseer installation tree to which one would legitimately have a reason to upload files. Using this feature, you can upload common files used by Foreseer including .VI driver files, and .ARQ backups for restoration purposes.

1. Select Upload Files from the Server List menu.

EA	EATON Foreseere Enterprise Management						
≡	Server List					Q	
	Start Server Config Mode	Alt+Shift+S	Config Mo	de			
Stat	End Server Config Mode	Alt+Shift+E		Туре	Needs Update	Connect State	
	Start New Log File			MoM	-	-	
				Foreseer	No	connected	
	Install Devices From List Update Devices From List						
	User Defined Fields						
	Add Remote						
	Copy for WebViews	Ctrl+C					
	Restart WebViews						
	Restart Server						
	Restart Windows						
	Add Note						
	Get Log File	Alt+Shift+L					
	Upload Files						
	Open Older Log File						
	Open Saved WireTap						
	Properties	Alt+Enter					

2. Select the destination for the files and use the browse button to choose the files to upload

Upload F	iles		8
Select the the files to		e files and use the brow	se button to choose
Upload De	stination:	Static Images	•
File 1: File 2: File 3: File 4: File 5:	map-global-dari	k.png	•••
Upload Sta	itus:		
		Upload	Cancel

#### 3. Click Upload to continue

Upload Files		8
Select the destination for the the files to upload.	e files and use the brow	vse button to choose
Upload Destination:		
File 1:map-global-darFile 2:File 3:File 4:File 5:	k.png	
Upload Status: File 1OK		
	Exit	Cancel

4. Click Exit when complete

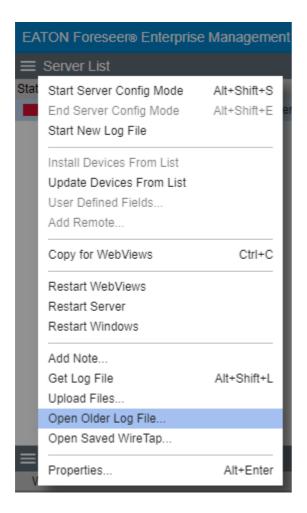
Upload destinations include:

- Update Server
- Update Vi
- Server/Vi
- WWW/Support
- Static Images
- Anime Images

# Open Older Log File

This command opens the available log data reside in the <Install Drive>:\Eaton Corporation\Foreseer\LogFiles folder.

1. Select Upload Files from the Server List menu



2. Select the file you are interested in viewing

Open an Older Log File		8
Log Aug15 112936.txt		<b>^</b>
Log Aug14 143302.txt		
Log Aug14 110625.txt		
Log Aug14 110044.txt		
Log Aug14 104706.txt		
Log Aug13 103305.txt		
Log Aug08 182214.txt		
Log Aug08 172618.txt		
Log Jul31 153732.txt		
Log Jul30 084559.txt		
Log Jul30 062535.txt		
Log Jui27 124429.txt		
Log Jui27 122208.txt		
Log Jui27 121254.txt		
Log Jui26 083241.txt		
Log Jui25 103322.txt		
Log Jui23 083050.txt		
Log Jul18 141521.txt		
Log Jul16 130133.txt		
Log Jul16 115232.txt		
Log Jul11 153224.txt		
Log Jul10 092245.txt		<b>•</b>
File Name:	.og Aug14 110625.txt	
	Open	Cancel

3. View the report you selected.

🗋 Eaton Foreseer logfil	e - Log Aug14 110625.txt - Google Chrome —	×
	//localhost/React/download.py?file=Log%20Aug14%20110625.txt&type=logfile	
	Log File Report	- 1
	Report Time 08/14/18 10:47:06	- 1
08/14/18 10:47:06:	Initializing Eaton Foreseer, Version: 7.0.54.0	- 1
08/14/18 10:47:06:	Working directory: C:\Forese@r\Branches\Foreseer 7R\BUILD\x64\Release\	
	Running as an application	
08/14/18 10:47:06:	ServiceThreadProc thread started with thread id: 0xdc8	
08/14/18 10:47:07:	Initializing Network Interfaces	
08/14/18 10:47:07:	Initializing FileSystem Objects	
08/14/18 10:47:07:	Establishing Server State	
08/14/18 10:47:07:	checking the Config Restore folders	
	creating server stores.	
	processing existing server document.	
	Opening Server Document	
	Reading Server Document: Version 0x070024	
08/14/18 10:47:07:		
	Checking Account Impersonation	
	Not using impersonation	
	Server Archive thread started with thread id: 0xca8	
	The last database session was ended without error.	
08/14/18 10:47:07:	0	
	Initializing Server Objects	
08/14/18 10:47:07:	Eaton Foreseer is licensed for 25088 channels.	

# Open Saved Wiretap

This command opens the available wiretap files that reside in the <Install Drive>:\Eaton Corporation\Foreseer\WireTaps folder.

1. Select Upload Files from the Server List menu

EA	TON Foreseer® Enterprise	e Managemen	ıt			
≡	Server List					Q
	Start Server Config Mode	Alt+Shift+S	Config Mo	de		
Stat	End Server Config Mode	Alt+Shift+E	<b>^</b>	Туре	Needs Update	Connect State
	Start New Log File			MoM		-
				Foreseer	No	connected
	Install Devices From List					
	Update Devices From List					
	User Defined Fields					
	Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				

2. Select the file you are interested in viewing

Open a Saved WireTap		8
Open a Saved WireTap Test Wiretap 2.txt Test Wiretap.txt		
File Name:	Test Wiretap 2.txt	
	Open	Cancel
	Open	Guncer

3. View the wiretap you selected.

```
🗋 Eaton Foreseer wiretap - Test Wiretap 2.txt - Google Chrome
                                                                                                \times
                    //localhost/React/download.py?file=Test%20Wiretap%202.txt&type=wiretap
                                                                                                          .....
WireTap Started
WireTap File Created: 11/25/18 16:42:35
Device Name:
                      IQ 250 1 (Unit: 1)
Communications Settings: 127.0.0.1 Port: 8001
Configuration: 7-C-H Meter IQ 250 TCP.vi, Version: r.1.1
DLL Path: C:\Foreseer\Branches\Foreseer 70\BU
DLL Path:
                                C:\Foreseer\Branches\Foreseer 7R\BUILD\x64\Release\vi\7-Modbus3.dll
DLL Version:
                      7.1.37.12, Common Version:7.1.0
XMIT 12 bytes (16:42:35, 125 ms since last message)
      \81\AE\00\00\00\06\01\03\03\E7\00\36 [.....6]
RECV 9 bytes (16:42:35, 0 ms since last message)
     \81\AE\00\00\6F\01\03\6C [....o..1]
RECV 108 bytes (16:42:35, 0 ms since last message)
      \43\8A\8F\87\43\8A\5B\37\43\8A\39\27\43\F0\AD\12\43\F1\2D\F0\43\F1\2D\33\42 [C...C.
[7C.9'C...C.-.C.-3B]
      \BB\52\74\42\BB\3F\3C\42\BB\5D\0B\47\8A\87\3E\47\01\36\14\47\97\A6\66\3F\61 [.RtB.?
<B.].G..>G.6.G..f?a]
      \87\CF\42\70\98\D2\43\8C\6D\B8\46\B8\F4\13\46\B9\44\FA\46\B8\2C\EE\46\2C\99
[...Bp...C.m.F....F.D.F.,..F,.]
      \5F\46\2C\04\A0\46\2B\D4\23\46\CA\D0\B4\46\CA\BC\90\46\CA\69\EA\3F\62\AB\5C
[_F,..F+.#F...F...F.i.?b.\]
      \3F\6D\31\89\3F\54\40\71 [?m1.?T@q]
XMIT 12 bytes (16:42:35, 62 ms since last message)
```

# Properties

The properties dialog box provides a way to change the logging level as well as another way to start a new log file. It also reports on the server name and startup delay value.

1. Select Properties from the Server List menu

EA	TON Foreseer® Enterprise	e Managemen	nt			
≡	Server List					Q
	Start Server Config Mode	Alt+Shift+S	Config Mo	de		
Stat	End Server Config Mode	Alt+Shift+E		Туре	Needs Update	Connect State
	Start New Log File			MoM	-	-
				Foreseer	No	connected
	Install Devices From List					
	Update Devices From List					
	User Defined Fields					
	Add Remote					
	Copy for WebViews	Ctrl+C				
	Restart WebViews					
	Restart Server					
	Restart Windows					
	Add Note					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Open Older Log File					
	Open Saved WireTap					
	Properties	Alt+Enter				
	_					

- 2. The Main Server Properties dialog allows you to change the Startup Delay as well as change the Log Level.
  - o 1 is errors only
  - o 3 is normal
  - o 4 10 is verbose

Main Server Properties		8
Name: Startup Delay (sec): Log Level: Start a new Log File	Foreseer 이 3	
	ОК	Cancel

# Remote Server List Menu

The Remote Server List menu provides access to all of the functionality that will be required to manage your Remote / Redundant Foreseer servers.

- Connect Remote
- Disconnect Remote
- Delete Remote
- Copy for WebViews
- Restart Remote App
- Restart Remote OS
- Add Note
- Get Updates
- Get Log File
- Upload Files
- Download Backup
- Synchronize Redundant
- Properties

### **Connect Remote**

The Connect Remote function connects the Remote Foreseer server to the local server. To connect the remote server:

1. Select Connect Remote from the Server List menu.

EA	TON Foreseer® Enterprise	e Managemer	nt			
≡	Server List					Q
Stat	Start Server Config Mode End Server Config Mode	Alt+Shift+S Alt+Shift+E		Type MoM	Needs Update	Connect State
	Connect Remote			Foreseer	No	disconnected
ľ	Disconnect Remote Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App Restart Remote OS					
	Add Note Get Updates Get Log File	Alt+Shift+L				
	Upload Files Download Backup	AIL+SIIIIL+L				
	Synchronize Redundant					
	Properties	Alt+Enter				
	_	_				

2. The remote server will now be connected to the local server

# **Disconnect Remote**

The Disconnect Remote function disconnects the Remote Foreseer server from the local server.

To disconnect the remote server:

1. Select Disconnect Remote from the Server List menu.

EA	TON Foreseer® Enterprise	e Managemer	nt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote		_	Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				
		-				

2. The remote server will now be disconnected from the local server

# Delete Remote

The Delete Remote function deletes the Remote Foreseer server from the local server. To delete the remote server:

1. Select Disconnect Remote from the Server List menu.

EA	TON Foreseer® Enterprise	e Managemer	nt			
=	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S	A	Туре	Needs Update	Connect State
E	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
I	Synchronize Redundant					
	Properties	Alt+Enter				
	_					

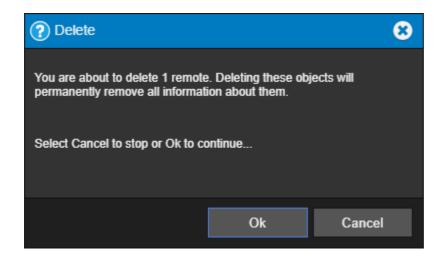
2. Select the local server and Start Server Config Mode

Server List				
Start Server Config Mode	Alt+Shift+S	🔺 Туре	Needs Update	Connect St
End Server Config Mode	Alt+Shift+E	MoM	-	-
Connect Remote		Foreseer	No	disconnect
Disconnect Remote	_			
Delete Remote				
Copy for WebViews	Ctrl+C			
Restart Remote App				
Restart Remote OS				
Add Note				
Get Updates				
Get Log File	Alt+Shift+L			
Upload Files				
Download Backup				
Synchronize Redundant				
Properties	Alt+Enter			

3. Highlight the Remote Server and Delete Remote from the Remote Server List Menu

Server List					
Start Server Config Mode	Alt+Shift+S	Config M			
End Server Config Mode	Alt+Shift+E	4	Туре	Needs Update	Connect S
			MoM	-	-
Connect Remote			Foreseer	No	disconneo
Disconnect Remote					
Delete Remote					
Copy for WebViews	Ctrl+C				
Restart Remote App					
Restart Remote OS					
Add Note					
Get Updates					
Get Log File	Alt+Shift+L				
Upload Files					
Download Backup					
Synchronize Redundant					
Properties	Alt+Enter				

4. A confirmation dialog will appear. Click OK to continue.



# Copy for WebViews

This function copies the target and all child devices and their channels to the target folder in the WebViews tree. The server itself is given a subfolder under the target WebViews folder, and each device is given a sub folder of its own under the server folder.

≡ Se	rver List	۹	≣ WebViews Q
State	Name	▲ Type	▼ WebViews
	*7044 Test 1	MoM	Power Xpert 2270
			▼ Power Xpert 2280
			Waveform
			T Power Xpert 4000
			▼ Auxiliary
			→ ▶ 7044 Test 1
			In-Outputs
			Waveform

In the example shown above, "WebViews Copy", the Local server is copied and then pasted into the Power Expert 4000 folder under WebViews. Note that the folder structure mimics the device structure under the server. Instead of copying the entire server, you can also copy individual devices and their channels to a location in the WebViews tree.

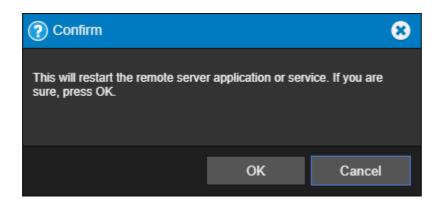
# Restart Remote App

The Restart Remote App function restarts the Foreseer application instance (both http and https connections will be reset).

1. Select Restart Remote App from the Remote Server List menu.

EA	TON Foreseer® Enterpris	e Managemer	nt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				

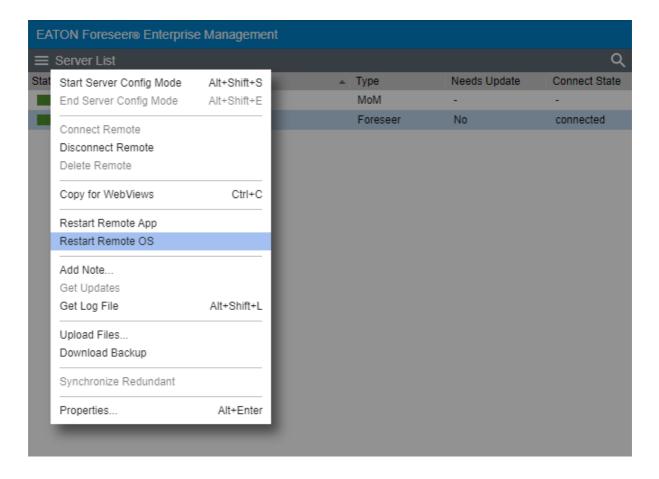
2. Select OK to continue this request.



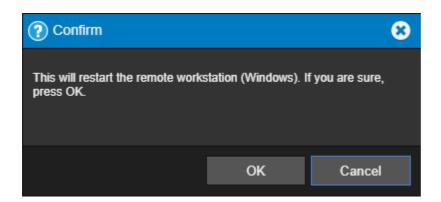
### **Restart Remote OS**

The Restart Remote OS function restarts the remote server instance (Windows).

1. Select Restart WebViews from the Server List menu.



2. Select OK to continue this request.



# Add Note

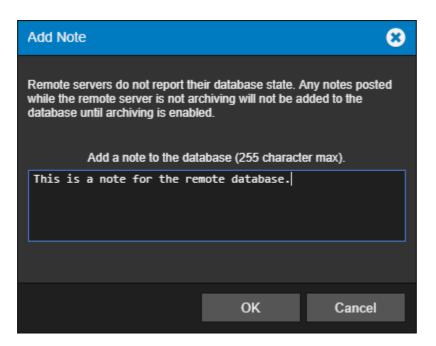
You can use the Add Notes feature to record any supplemental information relevant to a particular event when it occurs. The notes are logged into the Server's database and can be reviewed by authorized Foreseer clients or retrieved in Foreseer Reports. An unlimited number of real-time notes may be entered, but they are limited to 255 characters each. A typical use for Foreseer notes is to add information during the course of Acknowledging and/or Rearming alarms.

To create a note:

1. Select Add Note from the Server List menu

EA	TON Foreseer® Enterprise	e Managemer	nt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
E	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				
		_				

2. In the note editor dialog box, type a note (not exceeding 255 characters).



- 3. Select OK to continue.
- 4. The database note can now be reported on in the Notes History Report

📔 C:	\Users\e	e046810	00\Desktop\0.t	t - Notepad++					-	- 🗆	×	<
File B	Edit S	earch	View Encod	ing Language	Settings	Tools	Macro	Run	Plugins	Window	?	х
🕞 占		è 🔒	To 🖨 🖌	<b>b b</b>   2 c	2 8 4	a   👒	ج   🖪		Ξ⊋ ¶	JE 🥃 📡	<u>}</u>	>>
😑 0.txt	t 🖂											
1												
2					De	emo						
3				Not	tes Hist	tory R	leport					
4				Repo	ort Inte	erval:	1 day					
5				From	n 11/25/	/18 14	:25:53					
6				То	11/26/	/18 14	:25:53					
7												
8	11/2	26/18	14:25:36	This is a	note fo	or the	e remote	e da	tabase			
9	11/2	26/18	13:28:16	System Up								
10	11/2	26/18	13:28:05	System Dov	m							
length :	: 359 li	rln:1	Col:1 Sel:	010		Wind	ows (CR Lf	F)	UTF-8		INS	

## Get Updates

The Get Updates function is used to obtain any configuration changes that may have been applied to a remote server (such as Outpost). Changes that may need to be obtained using the Get Updates function include routine items such as adding or deleting devices, channels, or other elements on a remote. ✓ The local Foreseer Server and Remote Server must be at the same software revision in order to fully communicate and exchange data.

If you upgraded your local Foreseer server from a prior software revision, ensure that your Remote Server has been updated before adding.

1. Start Server Config Mode Server List menu.

EA	TON Foreseer® Enterpris	e Managemer	nt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				
	_					

- 2. Highlight the remote that needs updates.
- 3. Select Get Update from the Server List menu.

EATON Foresee	re Enterprise Ma	anagement				
$\equiv$ Server List						Q
Connect Rem	ote	C	onfig Mode			
Stat Disconnect R	emote		▲ Type	pe	Needs Update	Connect State
Delete Remot	e		Mo	oM	-	-
Copy for Web	Views Ctrl+C		Fo	preseer	Yes	connected
Restart Remo	te App					
Restart Remo	te OS					
Add Note						
Get Updates						
Get Log File						
Upload Files						
Download Ba	ckup					
Synchronize F	Redundant					
Properties	Alt+Enter					
_						

4. The systems will update and notify the user that is now waiting for Server Config Mode to end.

EATON Foreseer® Enterprise Management							
≡ se	$\equiv$ Server List Q						
		Config Mode					
State	Name	🔺 Туре	Needs Update	Connect State			
	*7044 Test 1	MoM	-	-			
	Remote - 7044 Test 1	Foreseer	No	wait config end			

5. End Server Config mode and the system will be updated.

# Get Log File

The Get Log File retrieves the log file from the remote Foreseer server.

1. Select Get Log File from the Server List menu.

EA	TON Foreseer® Enterprise	Managemer	nt			
=	Server List					Q
Stat	Start Server Config Mode End Server Config Mode	Alt+Shift+S Alt+Shift+E		Type MoM	Needs Update	Connect State
Ì	Connect Remote Disconnect Remote Delete Remote			Foreseer	No	connected
	Copy for WebViews	Ctrl+C				
	Restart Remote App Restart Remote OS					
	Add Note Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				

2. The most recent log file will be displayed. (Make sure that pop-ups are not blocked in the browser.)

) Eaton Foreseer logfi	le - Foreseer Remote Log Dec01 142822.txt - Google Chrome —	×
Not secure   Io	calhost/React/download.py?file=Foreseer%20Remote%20Log%20Dec01%20142822.txt&type=logfile	
	Log File Report	
	Report Time 12/01/20 15:32:24	
2/01/20 15:32:24	: Initializing Eaton Foreseer, Version: 7.3.292.0	
	: Working directory: C:\Users\Administrator\Desktop\Release\	
	: Running as an application	
	: The UseRemoteInterface.yes file is present. Remote Interface (Outpost and MoMs) will be enabled.	
	: ServiceThreadProc thread started with thread id: 0x194	
2/01/20 15:32:24	: Initializing Network Interfaces	
2/01/20 15:32:24	: Initializing FileSystem Objects	
2/01/20 15:32:24	: Establishing Server State	
2/01/20 15:32:24	: checking the Config Restore folders	
2/01/20 15:32:24	: Creating server stores.	
2/01/20 15:32:24	: processing existing server document.	
2/01/20 15:32:24	: Opening Server Document	
2/01/20 15:32:24	: Reading Server Document: Version 0x073228	
2/01/20 15:32:24	: Server Name: Local	
2/01/20 15:32:24	: Checking Account Impersonation	
	: Not using impersonation	
	: Server Archive thread started with thread id: 0x2a6c	
2/01/20 15:32:24	: The last database session was ended without error.	
2/01/20 15:32:24		
2/01/20 15:32:24	: Initializing Server Objects	

## **Upload Files**

The Upload Files function provides a general-purpose file upload utility, useful for adding graphics, drivers, and other files to the server from a remote location. You can select up to five files to upload simultaneously, as well as selecting the target folder on the server. Target folder selections are limited to those within the Foreseer installation tree to which one would legitimately have a reason to upload files.

1. Select Upload Files from the Remote Server List menu.

EA	TON Foreseer® Enterprise	Managemen	ıt			
≡	Server List					Q
Stat	Start Server Config Mode	Alt+Shift+S		Туре	Needs Update	Connect State
L	End Server Config Mode	Alt+Shift+E		MoM	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Delete Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File	Alt+Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				
	_					

2. Enter the administrative password for the remote machine. Select the destination for the files and use the browse button to choose the files to upload

Upload F	iles		8				
Enter admi	Enter administrative password for the remote.						
Password:							
	Select the destination for the files and use the browse button to choose the files to upload.						
Upload De	stination:	Update Vi	▼				
File 1: File 2:	7-C-H Meter IQ	250 TCP.vi					
File 3:							
File 4:							
File 5:							
Upload Sta	tus:						
		Upload	Cancel				

3. Click Upload to continue

Upload destinations include:

- Update Server
- Update Vi
- WWW/Support
- Config Restore

## **Download Backup**

✓ Make certain that the user account used by Foreseer has Full Control permission for all of the directories under the Foreseer installation directory. Otherwise, the backup process may fail.

It is strongly recommended that a backup be performed after initial system configuration as well as before and after any significant modifications to ensure maximum disaster recovery capability. You must end server configuration mode before backing up the server configuration. Significant changes are signaled via the Major Server Version System Channel.

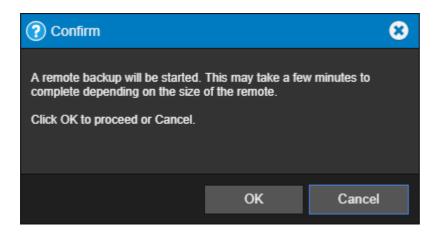
The backup archive (.ARQ) file includes the Foreseer Server configuration only, data files are not backed up in this procedure. Automatic configuration backups can be scheduled through the standalone Foreseer Configuration utility. Backups made through the Web Configuration Utility are automatically assigned a name which is a composite of the name of the server, the date, and the time (in 24-hour format).

To backup a Remote Foreseer Server configuration:

1. Select Download Backup from the Remote Server List Menu.

Server List				
Start Server Config Mode	Alt+Shift+S	Туре	Needs Update	Connect S
End Server Config Mode	Alt+Shift+E	MoM	-	-
Connect Remote		Foreseer	No	connected
Disconnect Remote				
Delete Remote				
Copy for WebViews	Ctrl+C			
Restart Remote App				
Restart Remote OS				
Add Note				
Get Updates				
Get Log File	Alt+Shift+L			
Upload Files				
Download Backup				
Synchronize Redundant				
Properties	Alt+Enter			

2. The following information dialog will appear. Click **OK** to continue.



3. Another informational dialog will appear telling the user of the location of the remote backup. Click **Close** to continue

(i) Information	8
7	
Remote Backup started to folder: C:\Foreseer\Branc 7R\BUILD\x64\Release\Remote Backups	hes\Foreseer
The backup will continue to run in the background. Y logfile to see when it completes.	'ou can check the
	Close

# Synchronize Redundant

The Synchronize Redundant function synchronizes the Foreseer secondary redundant with the Foreseer primary server.

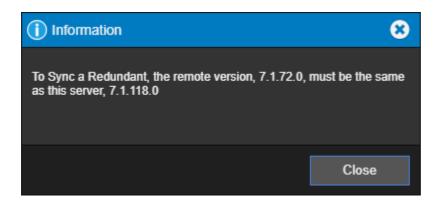
- 1. Highlight the redundant server that needs synchronizing.
- 2. Select Synchronize Redundant from the Server List menu.

EA	EATON Foreseere Enterprise Management					
≡	Server List					Q
Stat	Connect Remote		A	Туре	Needs Update	Connect State
	Disconnect Remote			Primary	-	-
	Delete Remote			Foreseer	Needs Sync	connected
	Copy for WebViews	Ctrl+C		Foreseer	Yes	connecting
	Restart Remote App					
	Restart Remote OS					
	Add Note					
	Get Updates					
	Get Log File					
	Upload Files					
	Download Backup					
	Synchronize Redund	ant				
	Properties	Alt+Enter				

3. A confirmation dialog describing the synchronization steps. Click OK to continue.

Confirm		8
This will synchronize a Seconda Redundant server you are now of Server Config Mode, create a co backup to the Secondary Redund received, the Secondary Redund sync. The sync operation can take a w complete in the background. You When the sync has finished, the Properties for this server will cha	connected to. The sy infiguration backup dant. After the back dant will be restarted thile to finish (up to state a can follow the state Needs Update field	ystem will enter and upload that up has been d to complete the 5-10 min) and will us in the LogFile. in the Server
	ОК	Cancel

4. If the two environments are not an appropriate version, an information dialog will be displayed telling you about this discrepancy. The appropriate action will need to be taken to correct this issue.



# Properties

The properties dialog box provides a way to change the logging level as well as another way to start a new log file. It also reports on the server name and startup delay value.

1. Select Properties from the Remote Server List menu

EA	TON Foreseer® Enterpris	se Managen	ment	 		
≡	Server List					Q
Stat	Start Server Config Mode	Shift+S	Config	e Type	Needs Update	Connect State
Jai	End Server Config Mode	Shift+E		МоМ	-	-
	Connect Remote			Foreseer	No	connected
	Disconnect Remote					
	Copy for WebViews	Ctrl+C				
	Restart Remote App Restart Remote OS					
	Add Note Get Updates					
	Get Log File	Shift+L				
	Upload Files					
	Download Backup					
	Synchronize Redundant					
	Properties	Alt+Enter				

2. The Remote Server Properties dialog displays the remote connection properties

Remote Server Properties			
Name:	Foreseer Remote		
Remote Address:	10.130.151.100:2100		
Updates (sec):	2		
Connection Password:			
Verify Password:			
✓ Connect to this remote	at startup		
Synchronize Remote's	clock on connect		
This remote is a Redur	idant Server		
This Remote sends waveform files			
	OK Cance		

# Device List Menu

The Device List menu provides access to all of the functionality that will be required to manage your Foreseer devices.

- Enable
- Disable
- Disarm
- Re-Arm
- Add User-Defined Channel
- Delete
- Rename
- Copy for WebViews
- Copy Channel Properties
- Paste Channel Properties
- Create .vi File
- Load Driver
- Unload Driver
- Properties

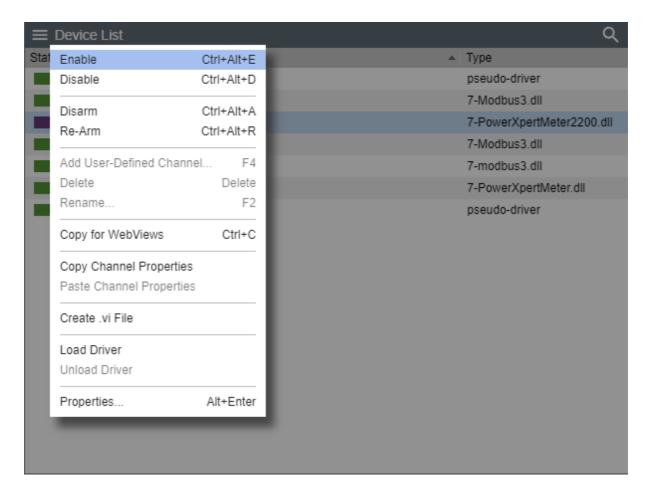
## Enable

The enable function resumes all data archiving to the Foreseer Server for the selected Device.

#### ⊘ Administrative Authorization is required before proceeding with this command.

#### To Enable a device:

1. Select Enable from the Device List menu



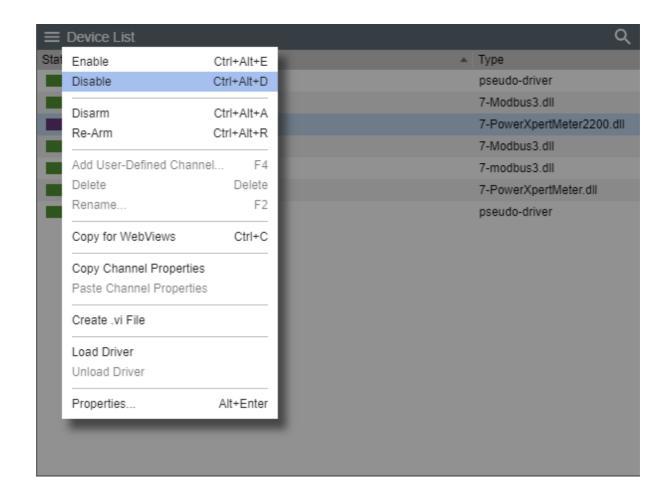
#### Disable

The Disable function suspends all data archiving to the Foreseer Server for the selected Device. Disabling is useful when making repairs to avoid archiving inappropriate readings and is necessary in order to <u>Delete</u> or <u>Rename</u> the Device or <u>Unload or Load a driver</u>.

O Administrative Authorization is required before proceeding with this command.

To Disable a device:

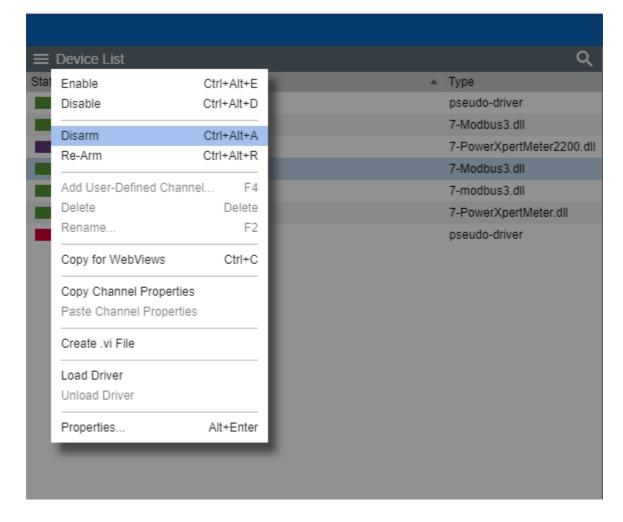
1. Select Disable from the Device List menu



## Disarm

The Disarm command stops testing the device channels' current values against the specified alarm limits for each channel, preventing alarms from being issued. To Disarm a device:

1. Select Disarm from the Device List menu



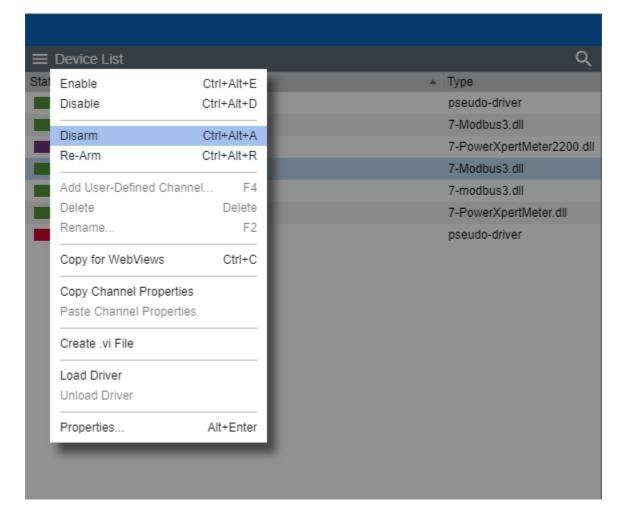
2. The device being disarmed will turn to light-blue

≡ De	evice List	Q
State	Name 🔺	Туре
	Derived Channels	pseudo-driver
	Eaton PXM 2270 Meter 1	7-Modbus3.dll
	Eaton PXM 2280 1	7-PowerXpertMeter2200.dll
	IQ 250 1	7-Modbus3.dll
	Mits 9900 Aegis 1	7-modbus3.dll
	PowerXpert Meter1	7-PowerXpertMeter.dll
	System Channels	pseudo-driver

## Re-Arm

The Rearm command resumes testing channel values against alarm limits. To Re-Arm a device:

1. Select Re-Arm from the Device List menu



2. The device being disarmed will turn back to active if it connected and healthy.

≡ De	evice List	Q
State	Name 🔺	Туре
	Derived Channels	pseudo-driver
	Eaton PXM 2270 Meter 1	7-Modbus3.dll
	Eaton PXM 2280 1	7-PowerXpertMeter2200.dll
	IQ 250 1	7-Modbus3.dll
	Mits 9900 Aegis 1	7-modbus3.dll
	PowerXpert Meter1	7-PowerXpertMeter.dll
	System Channels	pseudo-driver

## Add User-Defined Channel

The Add User-Defined Channel command creates a new Derived Channel. Derived channels are inputs in addition to the default channels installed with the Device. They may be used to compare the reported value of one channel to another to reflect an analog value, such as the difference between an input and an output voltage, or indicate a digital state like the opening of a security door. These should be created or modified only under the direction of Eaton Customer Support.

⊘ Administrative Authorization is required before proceeding with this command.

To Add a User Defined Channel:

- 1. Start Server Configuration Mode
- 2. If you are adding derived channels to a physical device, select the device you want to add the user defined channel to from the Device List panel. If you are not adding user defined channels to a physical device, skip to step 4.

$\equiv De$	evice List		Q
State	Name	*	Туре
	Derived Channels		pseudo-driver
	Eaton PXM 2270 Meter 1		7-Modbus3.dll
	Eaton PXM 2280 1		7-PowerXpertMeter2200.dll
	PowerXpert Meter1		7-PowerXpertMeter.dll
	System Channels		pseudo-driver

#### 3. Select Disable from the Device List Menu

Enable	Ctrl+Alt+E	▲ Туре
Disable	Ctrl+Alt+D	pseudo-driver
Disarm	Ctrl+Alt+A	7-Modbus3.dll
Re-Arm	Ctrl+Alt+R	7-PowerXpertMeter2200.c
	ourrain	7-PowerXpertMeter.dll
Add User-Defined Ch	annel F4	pseudo-driver
Delete	Delete	
Rename	F2	
Copy for WebViews	Ctrl+C	
Copy Channel Proper	rties	
Paste Channel Prope	rties	
Create .vi File		
Load Driver		
Unload Driver		
Properties	Alt+Enter	

4. Select Add User-Defined Channel

≡	Device List				Q
Stat	Enable	Ctrl+Alt+E	•	Туре	
	Disable	Ctrl+Alt+D		pseudo-driver	
	Disarm	Ctrl+Alt+A		7-Modbus3.dll	
	Re-Arm	Ctrl+Alt+R		7-PowerXpertMeter2200.d	
				7-PowerXpertMeter.dll	
	Add User-Defined Cha	nnel F4		pseudo-driver	
	Delete	Delete			
	Rename	F2			
	Copy for WebViews	Ctrl+C			
	Copy Channel Properti	es			
	Paste Channel Propert	ies			
	Create .vi File				
	Load Driver				
	Unload Driver				
	Properties	Alt+Enter			

- 5. From there you will be able to add the User-Defined Channel from one of 4 options to choose from:
  - o Derived Analog
  - o Derived Digital
  - o Text
  - o Date/Time

Add User-Defined Chan	nel	8			
Enter the name for the new user-defined channel and select the channel type below. All other channel properties cannot be added/modified until Server Config Mode has ended for the session. NOTE: The channel name must be unique within the device it is being created for and must be 39 characters or less. Do not use any characters other than alphanumeric, dash, or underscrore.					
Channel Name:	Test Analog				
Channel Type:	Derived Analog	▼			
	ОК	Cancel			

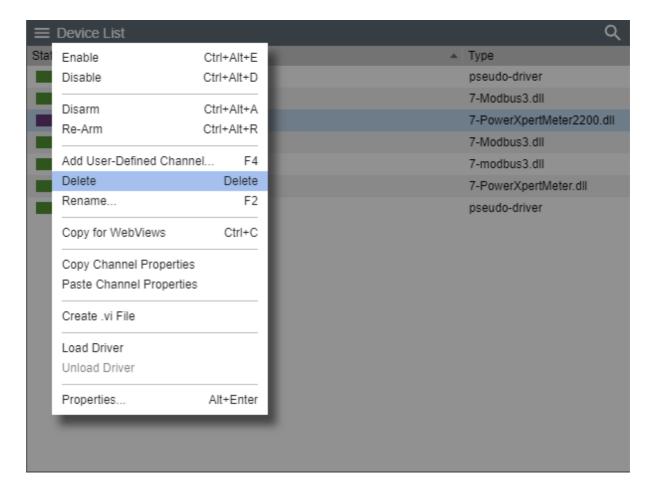
## Delete

The Delete command permanently deletes the selected Device from the configuration. Once removed, its archived information is no longer available. Deleting a Device should be done with discretion as removing it can have an adverse effect on Foreseer WebViews.

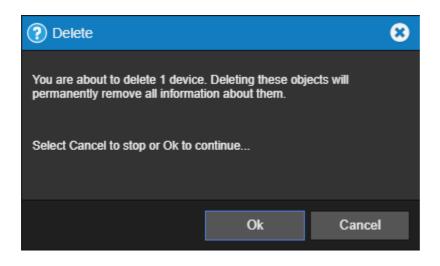
⊘ Administrative Authorization is required before proceeding with this command.

#### To Delete a device:

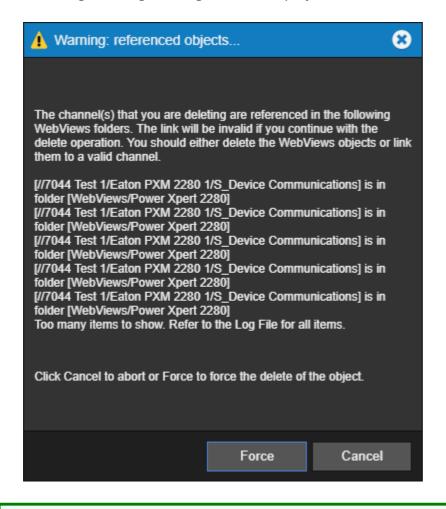
1. Select Delete a device from the Device List menu.



2. Confirm that you want to delete the selected device



3. If the selected device or it's channels are connected to any WebViews folders, the following warning message will be displayed:



✓ If you are deleting multiple devices, the Warning: referenced objects dialog may only reference a single device in situations where one device may be referenced by multiple WebViews. If you are not comfortable with forcing this change, cancel and delete one device at a time.

#### 4. Select Force to continue

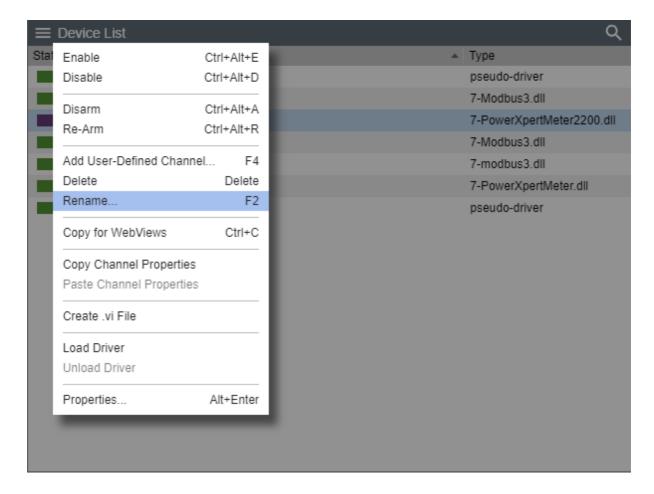
#### Rename

The Rename command renames the selected Device. Renaming a Device should be done with discretion as changing a name can have an adverse effect on Foreseer WebViews.

⊘ Administrative Authorization is required before proceeding with this command.

To Rename a device:

- 1. Start Server Configuration Mode
- 2. Select Rename from the Device List menu



3. Enter the new name of the device

Rename Device	>	8
To rename a device, enter t the server it is being renam length. Do not use any char underscore in the name.	ed in and must be 24 cł	haracters or less in
New Name:	Eaton PXM 2280 2	
	ОК	Cancel

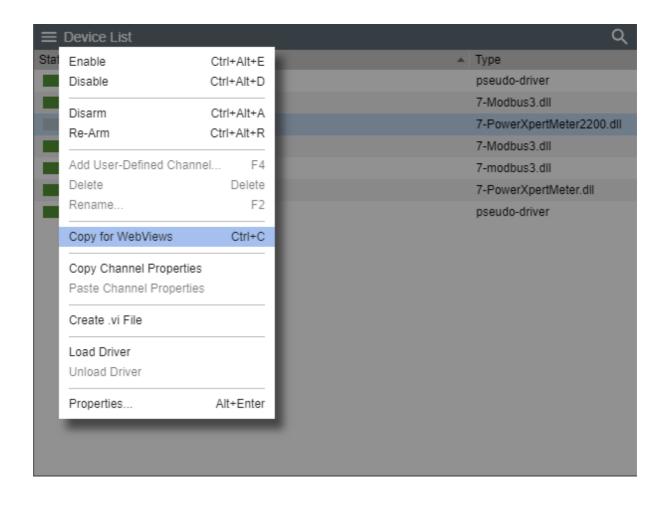
4. Select OK to accept the new name

## Copy for WebViews

The Copy for WebViews command copies the selected devices to the target folder in the WebViews tree.

To make a Copy for WebViews:

1. Select Copy for WebViews from the Device List menu

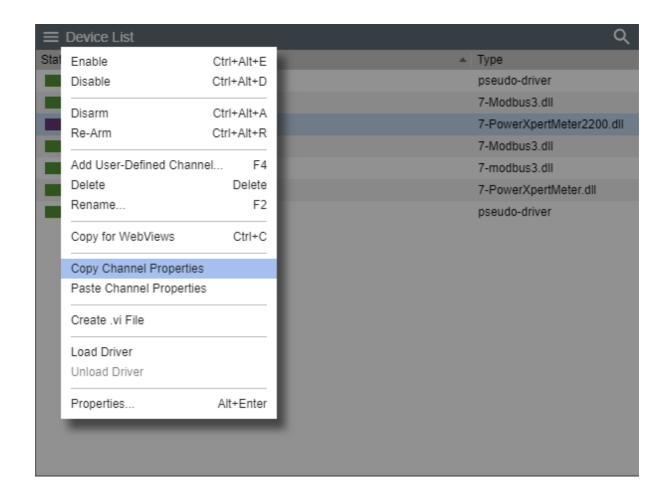


## **Copy Channel Properties**

The Copy Channel Properties command copies all of the currently selected devices channel properties to the Windows clipboard, allowing its settings to be pasted directly into another channel as its operational parameters. This command is useful when applied to an entire device (rather than individual channels) for quickly setting up multiple devices that contain similar channels. In either case, the device being copied must be of the exact same type as the one the Properties are being pasted into.

To Copy Channel Properties:

1. Select Copy Channel Properties from the Device List menu

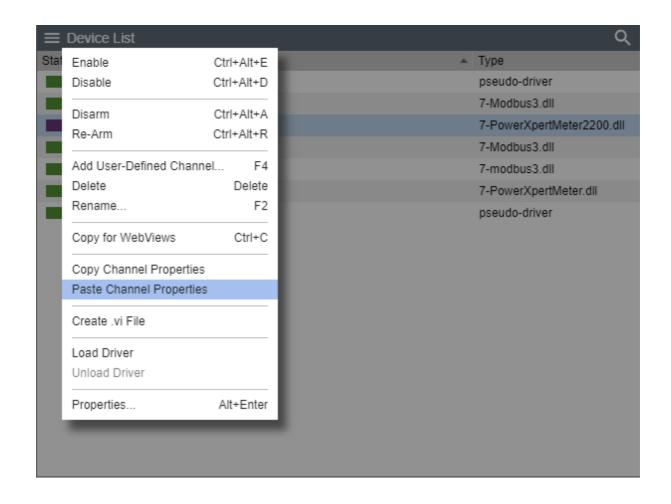


## **Paste Channel Properties**

The Paste Channel Properties command pastes the previously copied properties into the currently selected device as its operational parameters. It also is useful when duplicating numerous channel settings on multiple devices. In either case, the device being pasted into must be of the exact same type as the one from which the properties are being copied. These settings then can be individually modified as necessary. If copying from a device, only those channels with the same name will have their properties pasted.

To Paste Channel Properties:

1. Select Paste Channel Properties from the Device List menu

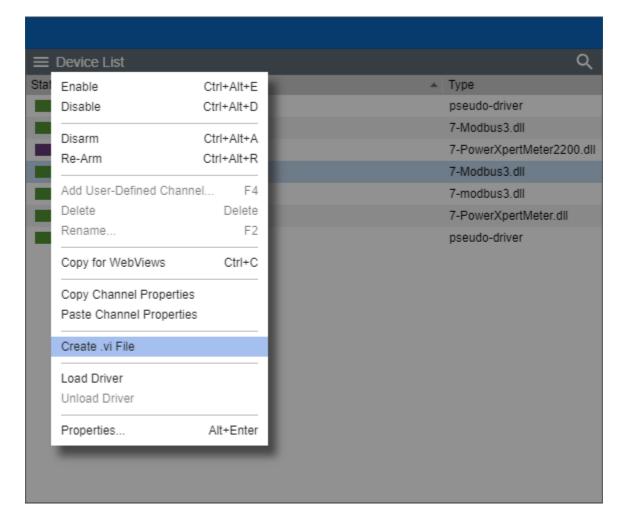


## Create .vi File

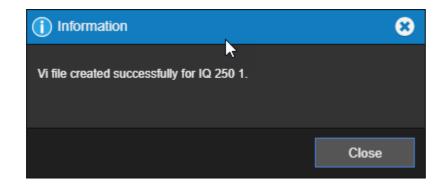
The Create .vi File command generates .VI (Device Driver) templates for all Devices on the selected Server. These device templates can then be used to define other similar Devices.

To Create .vi File:

1. Select Create .vi File from the Device List menu



2. A vi file will be created to the selected device



## Load Driver

The Load Driver command are used strictly by driver developers. You can load the appropriate Device driver from the \Program Files (x86)\Eaton Corporation\Foreseer\Update VI folder.

⊘ This command should only be performed at the direction of Eaton technical support.

⊘ Administrative Authorization is required before proceeding with this command.

To load a driver:

- 1. Start Server Configuration Mode
- 2. Select Load Driver from the Device List menu

Enable       Ctrl+Alt+E       Type         Disable       Ctrl+Alt+D       pseu         Disarm       Ctrl+Alt+A       7-Mo         Disarm       Ctrl+Alt+R       7-Po         Add User-Defined Channel       F4       7-Mo         Delete       Delete       7-Po         Rename       F2       7-Po		
Disable Ctrl+Alt+D pseud Disarm Ctrl+Alt+A Re-Arm Ctrl+Alt+R Add User-Defined Channel F4 Delete Delete 7-Pow Rename F2 Copy for WebViews Ctrl+C Copy Channel Properties Paste Channel Properties Paste Channel Properties Create .vi File Load Driver	■ Device List	
Disarm       Ctrl+Alt+A         Re-Arm       Ctrl+Alt+R         Add User-Defined Channel       F4         Delete       Delete         Rename       F2         Copy for WebViews       Ctrl+C         Copy Channel Properties         Paste Channel Properties         Create .vi File         Load Driver	Stal Enable	Ctrl+Alt+E
Disarm Ctrl+Alt+A Re-Arm Ctrl+Alt+R Add User-Defined Channel F4 Delete Delete Rename F2 Copy for WebViews Ctrl+C Copy Channel Properties Paste Channel Properties Create .vi File Load Driver Unload Driver	Disable	Ctrl+Alt+D
Re-Arm       Ctrl+Alt+R       7-Pow         Add User-Defined Channel       F4       7-mod         Delete       Delete       7-Pow         Rename       F2       pseud         Copy for WebViews       Ctrl+C       Octrl+C         Copy Channel Properties       Paste Channel Properties       Create .vi File         Load Driver       Unload Driver       Delete	Disarm	
Add User-Defined Channel       F4       7-Mod         Delete       Delete       7-Pow         Rename       F2       pseud         Copy for WebViews       Ctrl+C       Copy Channel Properties         Paste Channel Properties       Create .vi File       Ecoad Driver         Unload Driver		
Delete     Delete     7-Pow       Rename     F2     pseud       Copy for WebViews     Ctrl+C       Copy Channel Properties       Paste Channel Properties       Create .vi File       Load Driver		OULLAR
Rename     F2     pseud       Copy for WebViews     Ctrl+C       Copy Channel Properties       Paste Channel Properties       Create .vi File       Load Driver	Add User-Defined Cha	nnel F4
Copy for WebViews Ctrl+C Copy Channel Properties Paste Channel Properties Create .vi File Load Driver Unload Driver	Delete	Delete
Copy Channel Properties Paste Channel Properties Create .vi File Load Driver Unload Driver	Rename	F2
Paste Channel Properties Create .vi File Load Driver Unload Driver	Copy for WebViews	Ctrl+C
Create .vi File Load Driver Unload Driver	Copy Channel Properti	es
Load Driver Unload Driver	Paste Channel Propert	ies
Unload Driver	Create .vi File	
	Load Driver	
Properties Alt+Enter	Unload Driver	
	Properties	Alt+Enter

3. The Foreseer system will begin loading the selected driver

EATO	EATON Foreseer® Enterprise Management						
$\equiv$ se	erver List				Q		
		Config Mo	de				
	oading Device Drivers						
Loadi	ng driver (0 of 1): Eaton PXM 2270 Meter 1						
State	Name		Туре	Needs Update	Connect State		
	*7044 Test 1		Primary		-		
	Remote - 7044 Test 1		Foreseer	No	connected		

4. End Server Config mode

## **Unload Driver**

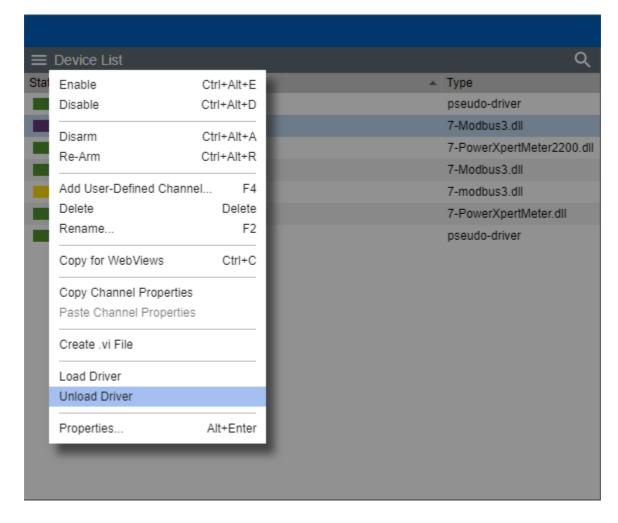
The Unload Driver commands are used strictly by driver developers. Unload clears the driver file for the selected Device. Multiple Devices of the same Type may be selected for unloading without shutting the system down.

⊘ This command should only be performed at the direction of Eaton technical support.

⊘ Administrative Authorization is required before proceeding with this command.

To Unload a driver:

- 1. Start Server Configuration Mode
- 2. Select Unload Driver from the Device List menu



3. The Foreseer system will begin unloading the selected driver

EATO	N Foreseer® Enterprise Management			
≡ Se	erver List			Q
		fig Mode		
• U	Inloading Device Drivers			
Unloa	ding driver (0 of 1): Eaton PXM 2270 Meter 1			
State	Name	🔺 Туре	Needs Update	Connect State
	*7044 Test 1	Primary	-	-
	Remote - 7044 Test 1	Foresee	r No	connected

4. End Server Config mode

## Properties

The Properties command furnishes operational information on the Device.

With the exception of Device Location, Device Type, and Alarm Group Name, you cannot change many of these setting without first Disabling the device.

**Device Properties - General** 

- Device Name reflects the name of the installed device.
- Device Status reflects whether the device is online or offline
- Driver Name reflects the name of the communication driver DLL used by Foreseer to "talk" to the device.
- Device Location reflects a user string that defines the location of the device. A device location can be up to 255 characters in length and use all special characters except a comma.
- Device Type reflects a classification category for the type or device. Assigning a device type is useful in situations where you may need to filter or sort alarms. You can select from any of the pre-canned selections or create your own custom device type designation.
- Driver Version reflects the file version number of the communication driver DLL.
- Library Version reflects the library version associated with the communication driver

DLL.

- Last Scan Time reflects the last successful date/time that all channels were scanned.
- Alarm Group Name reflects a user string that defines membership of a logically assigned group. Alarm Group Names can be up to 255 characters in length and use all special characters except a comma.
- Device Channel Counts Reflects the count of each fundamental channel type contained within the device.

Device Properties	8	
* * •	≔	
Device Name:	IQ 260 1	
Device Status:	Online	
Driver Name:	7-Modbus3.dll	
Device Location:	US-PA-PITTSBURGH	
Device Type:	Meter 🔻	
Driver Version:	7.3.41.0	
Library Version:	7.3.0	
Last Scan Time:	13:45:26 12/04/20	
Alarm Group Name:	Power Meters	
Device Channel Counts:		
Analog:	r 115	
Digital:	t 5	
Date:	<sup>ر</sup> 1	
Text:	± 3	
Total:	<sup>t</sup> 124	
	OK Cancel	

**Device Properties** 

- Data Pipe Properties
- Device Identification
- Communications
- Watchdog Processing

Device Properties				8
🌣 🛠 💷		J	=	
Data Pipe Properties				
IP Address:	10.	130.1	51.100	
TCP Port:	502			
Device Identification				
Device ID:				
Communications				
Communication Retries:				
Scan Interval (msec):	10	)0		
First-B Timeout (msec):	250	)0		
Inter-B Timeout (msec):	500			
Watchdog Processing				
Time (min):	5			
			ОК	Cancel

Device Properties - Wiretap

To initiate a wiretap, click the "Start" button. To stop the wiretap communication, click the "Stop" button. To see more of the display, click the arrow in the upper right corner to expand the display.

Device Prop	perties			8
<b>\$</b> 5	( D		=	
Wiretap - Disp	olay Device Co	mmunication	I	
Start	Stop	Save	Clear	₽
\00\( XMIT 12 by: \01\) RECV 9 byt( \01\) RECV 12 by: \00\( XMIT 12 by: \01\) RECV 9 byt( \01\) RECV 4 byt( \01\) RECV 9 byt( \01\) RECV 9 byt( \01\) RECV 9 byt( \01\)	CL3 (13:40:1 00\00\00\00\ tes (13:46:1 78\00\00\00\ es (13:46:19 78\00\00\00\00\ tes (13:46:1 00\00\00\00\ tes (13:46:2 79\00\00\00\00\ es (13:46:20 00\00\00\00\ es (13:46:20 7A\00\00\00\00\ es (13:46:20 7A\00\00\00\00\ es (13:46:20 7A\00\00\00\00\ es (13:46:20 00 []	00\00\00 9, 63 ms s 06\01\03\1 , 31 ms si 0F\01\03\0 9, 0 ms si 00\00\00\0 9, 63 ms s 06\01\03\2 , 31 ms si 07\01\03\0 , 0 ms sin ] 0, 62 ms si 06\01\03\7 , 32 ms si	0\00\00\00 ince last 7\6F\00\00 nce last C [.x nce last 0\00\00\00 ince last 7\57\00\02 nce last 4 [.y ce last ince last 5\35\00\01 nce last 2 [.z	<pre>     [ message)     [.xo. message)     [] message)     [w. message)     [.yw. message)     [.yw. message)     [.ssage)     [.zu5. message)     [.zu5. message)</pre>
		(	ОК	Cancel

Device Properties - Wiretap (Expanded display)

Device Properties	8
✿ ☆ 🚇 📼 ≔	
Wiretap - Display Device Communication	
Start Stop Save Clear	•
<pre>\\00\00\00\00\00\00\00\00\00\00\00\00\0</pre>	
OK Canc	el

**Device Properties - Driver Properties** 

Certain Foreseer communication drivers may include configurable driver properties that control characteristics in communications with field-bus devices. If supported, this tab may be visible. It's contents will vary depending on the type of device driver. Consult device driver documentation for additional information.

Device Properties		8
🌣 🛠 🐏		
Driver Properties		
Max Registers:	125	
<ul> <li>Bridge Register Gaps</li> <li>Reverse Word Order</li> <li>Reverse Float Order</li> <li>Reverse Double Order</li> <li>Reverse Double Order</li> <li>Log Digital Transition</li> <li>Mask Call Block Erro</li> <li>Report NaNs as Zero</li> <li>Inter-Scan Timeout:</li> <li>Scan Performance:</li> </ul>	er s rs O	
Max Scan Failures:	0.562 3	
Ametek UTC Offset:	0	
Write Point Data		
Write Type:	Never Write	<b>–</b>
Write Period (s):	10	
Analog Precision:		
	ОК	Cancel

Device Properties - Custom Properties

The Custom Properties tab will display any custom channel properties that may have been defined or created in the system configuration.

Device Properties		8
🗘 🋠 🚇		
User Defined Fields		
1. Serial #	HOLLAND-598745	
2. Asset #	OAT35	
3. Vendor Tel #	719-266-2837	
5.		
10.		
11.		
12.		
13.		
14.		
	OK Cancel	

## **Text Control Points**

Text Control Points allows a driver-defined Text channel (installed with a .vi file) to be used as a Text Control Point. A Text Control Point works similar to a regular Control Point. The main difference between regular and Text Control Points is that regular Control Points are user-defined Analog or user-defined Digital channels, using one of the Control Point equations, while Text Control Points are Text channels that are installed with a .vi file for the Modbus3 driver.

To create a Text Control Point after the channel has been installed with an appropriate .vi file, add the Text channel to a WebViews page and add a checkbox to the channel and save the page. To write a new Text value to a Text Control Point, select the checkbox for the channel on a WebViews page, and then from the Objects menu (at the top of the page), select Control. This will display a modal dialog with an edit control that shows the current channel value. To write a new value, edit the text in the edit control and select OK. All printable ASCII characters are allowed, but be careful to understand how the text values will be used to select which special characters you enter. For example, while quotes (double and single) are allowed, some applications may have issues with them. Be sure you understand how the channel values will be used.

If multiple Control Points are selected, you can use the "Prev" and "Next" buttons to move between the selected Control Points. The full channel name is always shown at the top of the modal dialog, so you can tell which channel you are changing if you have multiple Control Points selected.

Control Points		8
Prev	1 of 1	Next 🕨
\\F72237-1\String Te	est2\Write Reg 1	
	en first displayed, sho he value. The max len	
register 1		
	ок	Cancel

When the server receives the request to write a new value, it will log a message to the server log (LogFile.txt) and write an Audit Log record showing the old value and the new value. The new value will be written to the selected channel, and verified by the driver after the write. To verify that the new value was written correctly, the driver will read the value of the register(s) that were written and verify that the value read matches the value written. If the value read does not match the value written, the driver will log an error message to the driver log (DriverLogFile.txt).

For a Text channel to be a valid Text Control Point, it must be a driver defined Text channel (not a user-defined channel). It must have a Read/Write status of eReadWriteAssign, and it must be using the 7-Modbus3.dll with version 7.5.0.2 or newer. If all of the requirements are not met, the following dialog will appear when the channel is selected as a Text Control Point:

Control Points		8
Prev	1 of 1	Next 🕨
\\F72237-1\Derived	Channels\tx1	
The selected obj	ect is not a valid Cont	rol Point.
	01/	Canaal
	ОК	Cancel

Text Control Points must be installed with a .vi file. You cannot add the channel after the device is installed using "Add Channel". To add a writeable Text channel to a .vi file, the device must support writable Text channels, and meet the following requirements:

- Must use a supported Modbus3 driver (Version 7.5.0.2 or newer).
- Must be driver defined Text points: Type=TEXT with POINT=x (where x is not -1).
- Must be write on assignment: RW=READWRITEASSIGN
- Must be a Holding Register: RegType="H" with character DataType="C"
- The max string length supported is from NumRegs="xx" where there are 2 characters per register, so NumRegs="20" would be 40 characters.

The following is an example of the syntax for a writable Text channel in a .vi file:

```
POINT=2
Name="Write Reg 2" Type=TEXT
Desc="For Text Control Points"
RW=READWRITEASSIGN
Register="21"
RegType="H"
DataType="C"
Bit="0"
NumReg="20"
ENDPOINT
```

The Point number and Register number (2 and 21 in the above example) will be specific to the device you are installing (as well as the NumRegs value). The RW value must be READWRITEASSIGN, and the RegType must be H (Holding Register), and the DataType must be C (Character Data). The channel type must also be TEXT (Type=TEXT). The NumReg value will specify the maximum string length for the channel. There are 2 characters per register, so for the example above, the value 20 would be a maximum string length of 40. Please note that only specific Modbus devices will support writable Text channels.

When Channel Properties are displayed for writable Text channels, the Value field will not be present. The Value field is used to assign a user-defined Text channel a new value. The only way to assign a new value to a writable Modbus Text channel is to use the Text Control Point feature in a WebViews page. Remote Text channels from Outpost or Foreseer can be valid Text Control Points and be written the same way as local Text channels. All of the same rules apply for remote channels, they must be driver-defined Text channels installed on the remote with a .vi file. Just add them to a WebViews page the same way you would add a local channel.

If the device with a writable Text channel is offline when a new value is written from a Text Control Point, the value will not be written until the device comes online. If the server is restarted before the device comes online, the new value will not be written and would have to be written again. Although writing to a device that is offline is allowed, best practices would be to only write to devices that are online. Also, be aware that it may take a few seconds before the new channel value is shown after you write it. They amount of time will depend on the scan time of the driver and how many Modbus channels are in the device. Remote channels may take a few seconds longer for the new value to appear.

There is one known issue that when channel properties are displayed in WebViews/WebConfig for a remote Text Control Point channel, the Channel Value field will be displayed. Changing the value from this field will be ignored. Local Text Control Points will not show the Channel Value field in the properties.

# Channel List Menu

The Channel List menu provides access to all of the functionality that will be required to manage your Foreseer channels.

- Enable
- Disable
- Disarm
- Re-Arm
- Delete
- Rename
- Copy for WebViews
- Copy Channel Properties
- Paste Channel Properties
- Properties

# Enable

The enable command resumes data archiving for the selected Channel.

To Enable a channel:

1. Select the channel you would like enabled:

		Ö		<b>1</b>	?
hannel List					Q
Name	🔺 Туре	Value			
D_Current Avg	Derived Analog	92.213			-
D_Energy Divisor Decimal-Calc	Derived Analog	1.0000			
D_Energy Divisor Units-Calc	Derived Analog	1000.00			
D_kVAh Phase A	Derived Analog	694447.9			
D_kVAh Phase B	Derived Analog	694446.9			
D_kVAh Phase C	Derived Analog	694445.9			
D_kVAh Total	Derived Analog	No Value			
D_kVARh Negative	Derived Analog	513.70			
D_kVARh Net	Derived Analog	792855.9			
D_kVARh Phase A Negative	Derived Analog	171.23			
D_kVARh Phase A Net	Derived Analog	264285.7			
D_kVARh Phase A Positive	Derived Analog	264525.7			
D_kVARh Phase A Total	Derived Analog	264761.9			
D_kVARh Phase B Negative	Derived Analog	171.23			
D_kVARh Phase B Net	Derived Analog	264285.3			
D_kVARh Phase B Positive	Derived Analog	264525.3			
D_kVARh Phase B Total	Derived Analog	264761.4			
D_kVARh Phase C Negative	Derived Analog	171.23			
	NameD_Current AvgD_Energy Divisor Decimal-CalcD_Energy Divisor Units-CalcD_KVAh Phase AD_kVAh Phase BD_kVAh Phase CD_kVAh Phase CD_kVAh NetD_kVARh NegativeD_kVARh Phase A NegativeD_kVARh Phase A NetD_kVARh Phase B NegativeD_kVARh Phase B Negative	NameTypeD_Current AvgDerived AnalogD_Energy Divisor Decimal-CalcDerived AnalogD_Energy Divisor Units-CalcDerived AnalogD_kVAh Phase ADerived AnalogD_kVAh Phase BDerived AnalogD_kVAh Phase CDerived AnalogD_kVAh Phase CDerived AnalogD_kVAh NegativeDerived AnalogD_kVARh NegativeDerived AnalogD_kVARh NetDerived AnalogD_kVARh Phase A NegativeDerived AnalogD_kVARh Phase A NetDerived AnalogD_kVARh Phase A NetDerived AnalogD_kVARh Phase A NetDerived AnalogD_kVARh Phase B NegativeDerived AnalogD_kVARh Phase B NetDerived AnalogD_kVARh Phase B NetDerived AnalogD_kVARh Phase B NetDerived AnalogD_kVARh Phase B TotalDerived AnalogD_kVARh Phase B TotalDerived AnalogD_kVARh Phase B TotalDerived Analog	NameTypeValueD_Current AvgDerived Analog92.213D_Energy Divisor Decimal-CalcDerived Analog1.0000D_Energy Divisor Units-CalcDerived Analog1000.00D_kVAh Phase ADerived Analog694447.9D_kVAh Phase BDerived Analog694446.9D_kVAh Phase CDerived Analog694445.9D_kVAh TotalDerived Analog694445.9D_kVAh NegativeDerived Analog792855.9D_kVARh NegativeDerived Analog792855.9D_kVARh Phase A NegativeDerived Analog264285.7D_kVARh Phase A NetDerived Analog264285.7D_kVARh Phase A TotalDerived Analog264761.9D_kVARh Phase B NegativeDerived Analog171.23D_kVARh Phase B NegativeDerived Analog264761.9D_kVARh Phase B NetDerived Analog264285.3D_kVARh Phase B NetDerived Analog264285.3D_kVARh Phase B TotalDerived Analog264255.3D_kVARh Phase B TotalDerived Analog264761.4	NameTypeValueD_Current AvgDerived Analog92.213D_Energy Divisor Decimal-CalcDerived Analog1.0000D_Energy Divisor Units-CalcDerived Analog1000.00D_kVAh Phase ADerived Analog694447.9D_kVAh Phase BDerived Analog694446.9D_kVAh Phase CDerived Analog694445.9D_kVAh Phase CDerived Analog694445.9D_kVAh NetDerived Analog792855.9D_kVARh NegativeDerived Analog792855.9D_kVARh Phase A NetDerived Analog71.23D_kVARh Phase A NetDerived Analog264285.7D_kVARh Phase A TotalDerived Analog264525.7D_kVARh Phase B NetDerived Analog264525.7D_kVARh Phase B NetDerived Analog171.23D_kVARh Phase B NetDerived Analog264285.3D_kVARh Phase B NetDerived Analog264285.3D_kVARh Phase B NetDerived Analog264285.3D_kVARh Phase B TotalDerived Analog264525.3D_kVARh Phase B TotalDerived Analog264761.4	NameTypeValueD_Current AvgDerived Analog92.213D_Energy Divisor Decimal-CalcDerived Analog1.0000D_Energy Divisor Units-CalcDerived Analog1000.00D_kVAh Phase ADerived Analog694447.9D_kVAh Phase BDerived Analog694445.9D_kVAh Phase CDerived Analog694445.9D_kVAh NegativeDerived Analog792855.9D_kVARh NegativeDerived Analog792855.9D_kVARh Phase A NegativeDerived Analog792855.9D_kVARh Phase A NegativeDerived Analog264285.7D_kVARh Phase A NegativeDerived Analog264285.7D_kVARh Phase A NetDerived Analog264285.7D_kVARh Phase A TotalDerived Analog264761.9D_kVARh Phase B NegativeDerived Analog264285.7D_kVARh Phase B NegativeDerived Analog264285.7D_kVARh Phase B NegativeDerived Analog264761.9D_kVARh Phase B NegativeDerived Analog264285.3D_kVARh Phase B NegativeDerived Analog264285.3D_kVARh Phase B PositiveDerived Analog264285.3D_kVARh Phase B TotalDerived Analog264525.3D_kVARh Phase B TotalDerived Analog264525.3D_kVARh Phase B TotalDerived Analog264525.3D_kVARh Phase B TotalDerived Analog264761.4

2. Select Enable from the Channel List Menu

				Ũ		<u>تې</u>	?
Channel List							Q
Enable	Ctrl+Alt+E	A	Туре	Value			
Disable	Ctrl+Alt+D		Derived Analog	92.122			-
Disarm	Ctrl+Alt+A		Derived Analog	1.0000			
			Derived Analog	1000.00			
			Derived Analog	694632.9			
Delete	Delete		Derived Analog	694631.9			
Rename	F2		Derived Analog	694631.0			
Copy for WebViews	Ctrl+C		Derived Analog	No Value			
			Derived Analog	513.85			
			Derived Analog	793067.0			
Paste Channel Prope	erties		Derived Analog	171.28			
Properties	Alt+Enter		Derived Analog	264356.1			
D_kVARh Phase	A Positive		Derived Analog	264596.2			
D_kVARh Phase	A Total		Derived Analog	264832.4			
D_kVARh Phase	B Negative		Derived Analog	171.28			
D_kVARh Phase	B Net		Derived Analog	264355.7			
D_kVARh Phase	B Positive		Derived Analog	264595.7			
D_kVARh Phase	B Total		Derived Analog	264832.0			
D_kVARh Phase	C Negative		Derived Analog	171.28			-
	Enable Disable Disarm Re-Arm Delete Rename Copy for WebViews Copy Channel Prope Paste Channel Prope Properties D_kVARh Phase D_kVARh Phase D_kVARh Phase D_kVARh Phase D_kVARh Phase	Enable       Ctrl+Alt+E         Disable       Ctrl+Alt+D         Disarm       Ctrl+Alt+A         Re-Arm       Ctrl+Alt+R         Delete       Delete         Rename       F2         Copy for WebViews       Ctrl+C         Copy Channel Properties         Paste Channel Properties	Enable Ctrl+Alt+E Disable Ctrl+Alt+D Disarm Ctrl+Alt+A Re-Arm Ctrl+Alt+R Delete Delete Rename F2 Copy for WebViews Ctrl+C Copy Channel Properties Paste Channel Properties Paste Channel Properties Properties Alt+Enter D_kVARh Phase A Positive D_kVARh Phase B Negative D_kVARh Phase B Negative D_kVARh Phase B Net D_kVARh Phase B Positive D_kVARh Phase B Positive D_kVARh Phase B Total	EnableCtrl+Alt+ETypeDisableCtrl+Alt+DDerived AnalogDisarmCtrl+Alt+ADerived AnalogDisarmCtrl+Alt+RDerived AnalogRe-ArmCtrl+Alt+RDerived AnalogDeleteDeleteDerived AnalogRenameF2Derived AnalogCopy for WebViewsCtrl+CDerived AnalogCopy Channel PropertiesDerived AnalogPaste Channel PropertiesDerived AnalogPropertiesAlt+EnterD_kVARh Phase A PositiveDerived AnalogD_kVARh Phase B NegativeDerived AnalogD_kVARh Phase B NegativeDerived AnalogD_kVARh Phase B NetDerived AnalogD_kVARh Phase B TotalDerived AnalogD_kVARh Phase B TotalDerived Analog	EnableCtrl+Alt+ETypeValueDisableCtrl+Alt+DDerived Analog92.122DisarmCtrl+Alt+ADerived Analog1.0000DisarmCtrl+Alt+ADerived Analog1000.00DeleteDeleteDerived Analog694632.9DeleteDeleteDerived Analog694631.9RenameF2Derived Analog694631.0Copy for WebViewsCtrl+CDerived Analog694631.0Copy Channel PropertiesDerived Analog513.85PropertiesAlt+EnterDerived Analog171.28D_kVARh Phase A PositiveDerived Analog264356.1D_kVARh Phase B NetDerived Analog171.28D_kVARh Phase B NetDerived Analog264355.7D_kVARh Phase B NetDerived Analog264355.7D_kVARh Phase B TotalDerived Analog264355.7D_kVARh Phase B TotalDerived Analog26432.0	EnableCtrl+Alt+ETypeValueDisableCtrl+Alt+DDerived Analog92.122DisarmCtrl+Alt+ADerived Analog1.0000DisarmCtrl+Alt+ADerived Analog1000.00Re-ArmCtrl+Alt+RDerived Analog694632.9DeleteDeleteDerived Analog694631.9RenameF2Derived Analog694631.0Copy for WebViewsCtrl+CDerived Analog694631.0Copy Channel PropertiesDerived Analog513.85Paste Channel PropertiesDerived Analog793067.0Paste Channel PropertiesDerived Analog171.28PropertiesAlt+EnterDerived Analog264356.1D_kVARh Phase A TotalDerived Analog264596.2D_kVARh Phase B NetDerived Analog171.28D_kVARh Phase B NetDerived Analog171.28D_kVARh Phase B NetDerived Analog264355.7D_kVARh Phase B TotalDerived Analog264595.7D_kVARh Phase B TotalDerived Analog264832.0	EnableCtrl+Alt+ETypeValueDisableCtrl+Alt+DDerived Analog92.122DisarmCtrl+Alt+ADerived Analog1.0000DisarmCtrl+Alt+RDerived Analog1000.00Derived Analog694632.9Derived Analog694631.9DeleteDeleteDerived Analog694631.9RenameF2Derived Analog694631.0Copy for WebViewsCtrl+CDerived Analog694631.0Copy Channel PropertiesDerived Analog513.85PropertiesAlt+EnterDerived Analog793067.0Paste Channel PropertiesDerived Analog171.28PropertiesAlt+EnterDerived Analog264356.1D_kVARh Phase A PositiveDerived Analog264356.2D_kVARh Phase B NetDerived Analog171.28D_kVARh Phase B NetDerived Analog264355.7D_kVARh Phase B PositiveDerived Analog264355.7D_kVARh Phase B TotalDerived Analog26432.0

#### 3. The channel will now be in a disabled state

				Ő	鐐	?
≡ c	hannel List					Q
State	Name	*	Туре	Value		
	D_Current Avg		Derived Analog	92.383		-
	D_Energy Divisor Decimal-Calc		Derived Analog	1.0000		
	D_Energy Divisor Units-Calc		Derived Analog	1000.00		
	D_kVAh Phase A		Derived Analog	693498.6		
	D_kVAh Phase B		Derived Analog	693497.6		
	D_kVAh Phase C		Derived Analog	693496.6		
	D_kVAh Total		Derived Analog	No Value		
	D_kVARh Negative		Derived Analog	512.96		
	D_kVARh Net		Derived Analog	791771.9		
	D_kVARh Phase A Negative		Derived Analog	170.99		
	D_kVARh Phase A Net		Derived Analog	263924.4		
	D_kVARh Phase A Positive		Derived Analog	264164.1		
	D_kVARh Phase A Total		Derived Analog	264399.9		
	D_kVARh Phase B Negative		Derived Analog	170.99		
	D_kVARh Phase B Net		Derived Analog	263924.0		
	D_kVARh Phase B Positive		Derived Analog	264163.7		
	D_kVARh Phase B Total		Derived Analog	264399.5		
	D_kVARh Phase C Negative		Derived Analog	170.99		-

# Disable

The disable command suspends all data archiving to the Foreseer Server for the selected Channel.

To Disable a channel:

1. Select the channel you would like disabled:

				Ŭ	ផ្ទះ	?
≡ c	hannel List					Q
State	Name	*	Туре	Value		
	D_Current Avg		Derived Analog	92.705		
	D_Energy Divisor Decimal-Calc		Derived Analog	1.0000		
	D_Energy Divisor Units-Calc		Derived Analog	1000.00		
	D_kVAh Phase A		Derived Analog	692054.2		
	D_kVAh Phase B		Derived Analog	692053.3		
	D_kVAh Phase C		Derived Analog	692052.3		
	D_kVAh Total		Derived Analog	2076159.8		
	D_kVARh Negative		Derived Analog	511.84		
	D_kVARh Net		Derived Analog	790122.9		
	D_kVARh Phase A Negative		Derived Analog	170.61		
	D_kVARh Phase A Net		Derived Analog	263374.7		
	D_kVARh Phase A Positive		Derived Analog	263613.9		
	D_kVARh Phase A Total		Derived Analog	263849.3		
	D_kVARh Phase B Negative		Derived Analog	170.61		
	D_kVARh Phase B Net		Derived Analog	263374.3		
	D_kVARh Phase B Positive		Derived Analog	263613.5		
	D_kVARh Phase B Total		Derived Analog	263848.8		
	D_kVARh Phase C Negative		Derived Analog	170.61		

2. Select Disable from the Channel List Menu

					Ũ	ង្វែ	?
≡	Channel List						Q
Stat	Enable	Ctrl+Alt+E	4	Туре	Value		
	Disable	Ctrl+Alt+D		Derived Analog	92.491		
	Disarm	Ctrl+Alt+A	c	Derived Analog	1.0000		
	Re-Arm	Ctrl+Alt+R		Derived Analog	1000.00		
	NeAm	OULTAILT		Derived Analog	692988.6		
	Delete	Delete		Derived Analog	692987.6		
	Rename	F2		Derived Analog	692986.6		
	Copy for WebViews	Ctrl+C		Derived Analog	2078962.9		
				Derived Analog	512.57		
	Copy Channel Prope			Derived Analog	791189.7		
	Paste Channel Prop	erties		Derived Analog	170.86		
	Properties	Alt+Enter		Derived Analog	263730.3		
	D_kVARh Phase	A Positive		Derived Analog	263969.8		
	D_kVARh Phase	A Total		Derived Analog	264205.5		
	D_kVARh Phase	B Negative		Derived Analog	170.86		
	D_kVARh Phase	B Net		Derived Analog	263729.9		
	D_kVARh Phase	B Positive		Derived Analog	263969.4		
	D_kVARh Phase	B Total		Derived Analog	264205.1		
	D_kVARh Phase	C Negative		Derived Analog	170.86		-

3. The channel will now be in a disabled state

			1	$\bigcirc$	鐐	?
$\equiv c$	hannel List					Q
State	Name	Туре	Value			
	D_Current Avg	Derived Analog	92.38	3		-
	D_Energy Divisor Decimal-Calc	Derived Analog	1.000	0		
	D_Energy Divisor Units-Calc	Derived Analog	1000.	00		
	D_kVAh Phase A	Derived Analog	69349	98.6		
	D_kVAh Phase B	Derived Analog	69349	97.6		
	D_kVAh Phase C	Derived Analog	69349	96.6		
	D_kVAh Total	Derived Analog	No Va	alue		
	D_kVARh Negative	Derived Analog	512.9	6		
	D_kVARh Net	Derived Analog	79177	71.9		
	D_kVARh Phase A Negative	Derived Analog	170.9	9		
	D_kVARh Phase A Net	Derived Analog	26392	24.4		
	D_kVARh Phase A Positive	Derived Analog	26416	64.1		
	D_kVARh Phase A Total	Derived Analog	26439	99.9		
	D_kVARh Phase B Negative	Derived Analog	170.9	9		
	D_kVARh Phase B Net	Derived Analog	26392	24.0		
	D_kVARh Phase B Positive	Derived Analog	26416	63.7		
	D_kVARh Phase B Total	Derived Analog	26439	99.5		
	D_kVARh Phase C Negative	Derived Analog	170.9	9		*

## Disarm

The Disarm command stops testing the channel's current value against the specified alarm limits, preventing an alarm from being issued.

To Disarm a channel:

1. Select the channel you would like disarmed:

				Ő	鐐	?
$\equiv c$	hannel List					Q
State	Name	*	Туре	Value		
	D_Current Avg		Derived Analog	92.705		
	D_Energy Divisor Decimal-Calc		Derived Analog	1.0000		
	D_Energy Divisor Units-Calc		Derived Analog	1000.00		
	D_kVAh Phase A		Derived Analog	692054.2		
	D_kVAh Phase B		Derived Analog	692053.3		
	D_kVAh Phase C		Derived Analog	692052.3		
	D_kVAh Total		Derived Analog	2076159.8		
	D_kVARh Negative		Derived Analog	511.84		
	D_kVARh Net		Derived Analog	790122.9		
	D_kVARh Phase A Negative		Derived Analog	170.61		
	D_kVARh Phase A Net		Derived Analog	263374.7		
	D_kVARh Phase A Positive		Derived Analog	263613.9		
	D_kVARh Phase A Total		Derived Analog	263849.3		
	D_kVARh Phase B Negative		Derived Analog	170.61		
	D_kVARh Phase B Net		Derived Analog	263374.3		
	D_kVARh Phase B Positive		Derived Analog	263613.5		
	D_kVARh Phase B Total		Derived Analog	263848.8		
	D_kVARh Phase C Negative		Derived Analog	170.61		

2. Select Disarm from the Channel List Menu

						Ć	鐐	?
≡	Channel List							Q
Stat	Enable	Ctrl+Alt+E		🔺 Туре		Value		
	Disable	Ctrl+Alt+D		Derived A	nalog	91.073		-
	Disarm	Ctrl+Alt+A	2	Derived A	nalog	1.0000		
	Re-Arm	Ctrl+Alt+R		Derived A	nalog	1000.00		
	Ne-Aim	OULTAILT		Derived A	nalog	699089.2		
	Delete	Delete		Derived A	nalog	699088.2		
	Rename	F2		Derived A	nalog	699087.3		
	Copy for WebViews	Ctrl+C		Derived A	nalog	2097264.8		
				Derived A	nalog	517.31		
	Copy Channel Prope			Derived A	nalog	798154.8		
	Paste Channel Properties			Derived A	nalog	172.44		
	Properties	Alt+Enter		Derived A	nalog	266052.0		
	D_kVARh Phase	A Positive		Derived A	nalog	266293.6		
	D_kVARh Phase	A Total		Derived A	nalog	266531.4		
	D_kVARh Phase		Derived A	nalog	172.44			
	D_kVARh Phase	B Net		Derived A	nalog	266051.6		
	D_kVARh Phase	B Positive		Derived A	nalog	266293.2		
	D_kVARh Phase	B Total		Derived A	nalog	266530.9		
	D_kVARh Phase	C Negative		Derived A	nalog	172.44		-

#### 3. The channel will now be in a disarmed state

			Ö		鐐	?
≡ c	hannel List					Q
State	Name	🔺 Туре	Value			
	D_Current Avg	Derived	Analog 91.003			
	D_Energy Divisor Decimal-Calc	Derived	Analog 1.0000			
	D_Energy Divisor Units-Calc	Derived	Analog 1000.00			
	D_kVAh Phase A	Derived	Analog 699421.2			
	D_kVAh Phase B	Derived	Analog 699420.2			
	D_kVAh Phase C	Derived	Analog 699419.2			
	D_kVAh Total	Derived	Analog 2098260.5	i		
	D_kVARh Negative	Derived	Analog 517.57			
	D_kVARh Net	Derived	Analog 798533.9			
	D_kVARh Phase A Negative	Derived	Analog 172.52			
	D_kVARh Phase A Net	Derived	Analog 266178.3			
	D_kVARh Phase A Positive	Derived	Analog 266420.1			
	D_kVARh Phase A Total	Derived	Analog 266657.9			
	D_kVARh Phase B Negative	Derived	Analog 172.52			
	D_kVARh Phase B Net	Derived	Analog 266178.0			
	D_kVARh Phase B Positive	Derived	Analog 266419.7			
	D_kVARh Phase B Total	Derived	Analog 266657.5			
	D_kVARh Phase C Negative	Derived	Analog 172.52			,

#### Re-Arm

The Re-Arm command resumes testing the value against alarm limits.

To Re-Arm a channel:

1. Select the channel you would like Re-Armed:

			Ő	ផ្ទះ	?
≣ Cl	hannel List				Q
State	Name	🔺 Туре	Value		
	D_Current Avg	Derived Analog	91.003		
	D_Energy Divisor Decimal-Calc	Derived Analog	1.0000		
	D_Energy Divisor Units-Calc	Derived Analog	1000.00		
	D_kVAh Phase A	Derived Analog	699421.2		
	D_kVAh Phase B	Derived Analog	699420.2		
	D_kVAh Phase C	Derived Analog	699419.2		
	D_kVAh Total	Derived Analog	2098260.5		
	D_kVARh Negative	Derived Analog	517.57		
	D_kVARh Net	Derived Analog	798533.9		
	D_kVARh Phase A Negative	Derived Analog	172.52		
	D_kVARh Phase A Net	Derived Analog	266178.3		
	D_kVARh Phase A Positive	Derived Analog	266420.1		
	D_kVARh Phase A Total	Derived Analog	266657.9		
	D_kVARh Phase B Negative	Derived Analog	172.52		
	D_kVARh Phase B Net	Derived Analog	266178.0		
	D_kVARh Phase B Positive	Derived Analog	266419.7		
	D_kVARh Phase B Total	Derived Analog	266657.5		
	D_kVARh Phase C Negative	Derived Analog	172.52		

2. Select Re-Arm from the Channel List Menu

				Ć	鐐	?
■ Channel List						Q
at Enable	Ctrl+Alt+E	-	Туре	Value		
Disable	Ctrl+Alt+D		Derived Analog	90.656		
Disarm	Ctrl+Alt+A		Derived Analog	1.0000		
Re-Arm	Ctrl+Alt+R		Derived Analog	1000.00		
	Our-Aut-In		Derived Analog	700887.5		
Delete	Delete		Derived Analog	700886.4		
Rename	F2		Derived Analog	700885.5		
Copy for WebViews	Ctrl+C		Derived Analog	2102659.5		
			Derived Analog	518.71		
Copy Channel Prop			Derived Analog	800207.9		
Paste Channel Prop	erties		Derived Analog	172.90		
Properties	Alt+Enter		Derived Analog	266736.4		
D_kVARh Phase	A Positive		Derived Analog	266978.6		
D_kVARh Phase	A Total		Derived Analog	267217.0		
D_kVARh Phase	B Negative		Derived Analog	172.90		
D_kVARh Phase	B Net		Derived Analog	266736.0		
D_kVARh Phase	B Positive		Derived Analog	266978.2		
D_kVARh Phase	B Total		Derived Analog	267216.5		
D_kVARh Phase	C Negative		Derived Analog	172.90		-

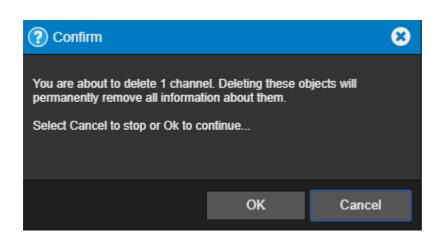
#### 3. The channel will now be in a Re-Armed state

					$\bigcirc$	ផ្ទះ	?
≡ c	hannel List						Q
State	Name	🔺 Typ	oe -	Value			
	D_Current Avg	De	rived Analog	92.70	5		-
	D_Energy Divisor Decimal-Calc	De	rived Analog	1.000	0		
	D_Energy Divisor Units-Calc	De	rived Analog	1000.	00		
	D_kVAh Phase A	De	rived Analog	69205	54.2		
	D_kVAh Phase B	De	rived Analog	69205	53.3		
	D_kVAh Phase C	De	rived Analog	69205	52.3		
	D_kVAh Total	De	rived Analog	20761	159.8		
	D_kVARh Negative	De	rived Analog	511.8	4		
	D_kVARh Net	De	rived Analog	79012	22.9		
	D_kVARh Phase A Negative	De	rived Analog	170.6	1		
	D_kVARh Phase A Net	De	rived Analog	26337	74.7		
	D_kVARh Phase A Positive	De	rived Analog	26361	13.9		
	D_kVARh Phase A Total	De	rived Analog	26384	19.3		
	D_kVARh Phase B Negative	De	rived Analog	170.6	1		
	D_kVARh Phase B Net	De	rived Analog	26337	74.3		
	D_kVARh Phase B Positive	De	rived Analog	26361	13.5		
	D_kVARh Phase B Total	De	rived Analog	26384	48.8		
	D_kVARh Phase C Negative	De	rived Analog	170.6	1		

#### Delete

The Delete command permanently deletes the selected Channel from the configuration. Once removed, its archived information is no longer available.

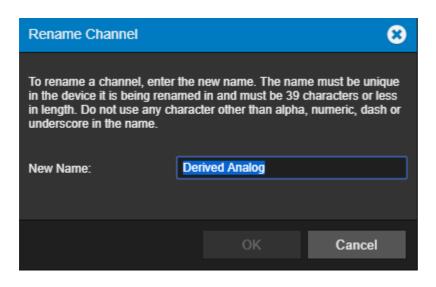
Or Deleting a Channel should be done with discretion as removing it can have an adverse effect on Foreseer WebViews.



#### Rename

The Rename command renames the selected Channel.

Renaming a Channel should be done with discretion as changing a name can have an adverse effect on Foreseer WebViews.



# Copy for WebViews

The Copy for WebViews command copies the selected channels to the target folder in the WebViews tree.

					$\odot$		ផ្ទះ	?
=	Channel List							Q
Stat	Enable	Ctrl+Alt+E		Туре	Value			
	Disable	Ctrl+Alt+D		Text	Select To E	Enter Te	×t	<b>A</b>
	Disarm	Ctrl+Alt+A		Text	Select To E	Enter Te	×t	
	Re-Arm	Ctrl+Alt+R		Text	Select To E	Enter SN	1	
				Time	11/13/19 1	5:17:00		-
	Delete	Delete		Text	Multiple Ca	auses		
	Rename	F2		Text	A-B-C			
	Copy for Web	Views Ctrl+C		Text	Power Fac	tor Lago	(+)	
				Text	Quadrant 4	4		
	Copy Channel			Text	0			
	Paste Channe	I Properties		Text	3 Phase 4	Wire (Y	3CT)	
	Properties	Alt+Enter		Analog	42.000			
	M_Crest Fa	actor Phase A		Analog	1.4157			
	M_Crest Fa	actor Phase B		Analog	1.4263			
	M_Crest Fa	actor Phase C		Analog	1.4188			
	M_Crest Fa	actor System Ma	х	Analog	1.4040			
	M_Current	Avg		Analog	89.640			
	M_Current	Avg Demand		Analog	89.660			
	M_Current	Ground		Analog	0.0000			
	M_Current	Neutral		Analog	268.96			
	M_Current	Neutral EHD		Analog	0.0000			
	M_Current	Neutral IHD		Analog	0.0000			
	M_Current	Neutral OHD		Analog	0.0000			-

# **Copy Channel Properties**

The Copy Channel Properties command copies all of the currently selected devices channel Properties to the Windows clipboard, allowing its settings to be pasted directly into another channel as its operational parameters.

					ت		緻	?
					G		~~~	
_	Channel List							Q
Stat	Enable	Ctrl+Alt+E		▲ Туре	Value			
	Disable	Ctrl+Alt+D		Text	Select To B			- Î
	Disarm	Ctrl+Alt+A		Text	Select To E			
	Re-Arm	Ctrl+Alt+R		Text	Select To B	Enter SN	1	
				Time	11/13/19 1	5:17:00		
	Delete	Delete		Text	Multiple Ca	auses		
	Rename	F2		Text	A-B-C			
	Copy for Web	Views Ctrl+C		Text	Power Fac	ctor Lago	(+)	
	0 01 1			Text	Quadrant	4		
	Copy Channel			Text	0			
	Paste Channe	el Properties		Text	3 Phase 4	Wire (Y	3CT)	
	Properties	Alt+Enter		Analog	42.000			
	M_Crest Fa	actor Phase A		Analog	1.4120			
	M_Crest Fa	actor Phase B		Analog	1.3966			
	M_Crest Fa	actor Phase C		Analog	1.4002			
	M_Crest Fa	actor System Ma	x	Analog	1.4349			
	M_Current	Avg		Analog	89.717			
	M_Current	Avg Demand		Analog	89.738			
	M_Current	Ground		Analog	0.0000			
	M_Current	Neutral		Analog	269.26			
	M_Current	Neutral EHD		Analog	0.0000			
	M_Current	Neutral IHD		Analog	0.0000			
	M_Current	Neutral OHD		Analog	0.0000			-

✓ The channel being copied must be of the exact same type as the one the Properties are being pasted into.

# Paste Channel Properties

The Paste Channel Properties command pastes the previously copied properties into the currently selected channel as its operational parameters. It also is useful when duplicating numerous channel settings on multiple devices. In either case, the channel or device being pasted into must be of the exact same type as the one from which the properties are being copied. These settings then can be individually modified as necessary. If copying from a device (rather than a single channel), only those channels with the same name will have their properties pasted.

					~		<i></i>	
					Ū	E	<b>1</b> 03	?
≡	Channel List							Q
Stat	Enable	Ctrl+Alt+E		Туре	Value			
	Disable	Ctrl+Alt+D		Text	Select To B	Enter Te	d	<b>A</b>
	Disarm	Ctrl+Alt+A		Text	Select To B	Enter Te	d	
	Re-Arm	Ctrl+Alt+R		Text	Select To B	Enter SN	1	
E				Time	11/13/19 1	5:17:00		
	Delete	Delete		Text	Multiple Ca	auses		
E	Rename	F2		Text	A-B-C			
E	Copy for WebViews Ctrl+C		Text	Power Fac	ctor Lagg	ling(+)		
E				Text	Quadrant	4		
	Copy Channel			Text	0			
	Paste Channel	Properties		Text	3 Phase 4	Wire (Y	3CT)	
	Properties	Alt+Enter		Analog	42.000			
	M_Crest Fa	ctor Phase A		Analog	1.4261			
	M_Crest Fa	ctor Phase B		Analog	1.4049			
	M_Crest Fa	ctor Phase C		Analog	1.4357			
	M_Crest Fa	ctor System Ma	x	Analog	1.4214			
	M_Current	Avg		Analog	90.902			
	M_Current	Avg Demand		Analog	90.906			
	M_Current	Ground		Analog	0.0000			
	M_Current	Neutral		Analog	272.75			
	M_Current	Neutral EHD		Analog	0.0000			
	M_Current	Neutral IHD		Analog	0.0000			
	M_Current	Neutral OHD		Analog	0.0000			Ŧ

#### Properties

⊘ Consult with Eaton Field Engineering or Technical Support personnel before changing any channel behavior.

The Properties command furnishes operational information on the Channel. The General tab allows a channel to be Disabled or Enabled as well as providing selections that control how its data is archived on the Server.

■ Channel L	ist		
Stat Enable	Ctrl+Alt+E	🔺 Туре	Value
Disable	Ctrl+Alt+D	Analog	0.0000
Disarm	Ctrl+Alt+A	Analog	10.000
Re-Arm	Ctrl+Alt+R	Digital	Outdat
	ourrain	Digital	Archivi
Delete	Delete	Digital	ОК
Rename	F2	Digital	ОК
Copy for W	ebViews Ctrl+C	Analog	0.0000
		Analog	12619.
	nel Properties	Analog	2.0000
Paste Char	nnel Properties	Digital	Not Co
Properties.	Alt+Enter	e Digital	Not Co
Minor S	erver Version	Analog	3.0000
-		D: 11	

The General tab configures general information regarding the channel itself, including description, units of measure, and archive configuration.

Channel Properties		8
* *	$f_{(x)} :\equiv$	
Name:	D_HVAC Enthalpy	
Current State:	Normal	
Current Value:	2.3000	
Description:	Average Enthalpy of HVAC Zone 101.	
Units:		
Archive:	Average	▼
	OK Cancel	

The Alarms tab provides the ability to adjust channel alarm characteristics, including alarm bands, messages, priority, and integration to global alarm limits.

Channel Properties		8
🌣 🐥 🛠 .	f(x) :≡	
Hi Critical Alarm		
Lo Critical Alarm		
Hi Caution Alarm		
Lo Caution Alarm		
Alarm Priority: 9	999	
Enable Global Alarm Limit	ts	
Channel:		
	ок	Cancel

The User-Defined Equation tab provides a viewer and editor for derived equations such as calculation, transfer logic, and other custom logic used by the system.

Channel Properties	8
$(\mathbf{x})$	
Enter Equation:	₽
rand(10,100)	
Insert Channel/Device Test Equation Result: 60.72	
Insert Function: Choose a Function	•
OK Cance	

The Custom Fields tab provides a viewer and editor for any custom properties defined globally across the system configuration.

Channel Properties		8						
🌣 🌲 🛠	f(x)							
User Defined Fields								
1. Note 1	HVAC Unit 101							
2. Note 2	Wire Point 227							
3. Note 3								
4. Note 4								
5. Note 5								
6. Note 6								
7. Note 7								
8. Note 8								
	OK Cance	el de la companya de						

# WebViews Menu

The WebViews List menu provides access to all of the functionality that will be required to manage your Foreseer WebViews files.

- New Folder
- Delete
- Cut
- Copy
- Paste
- Rename
- Create Single Page / Create Pages for Tree
- Create Page From Template / Create Tree from Templates
- Create Single Template / Create Templates for Tree
- Create Files for Page
- Create Files for Tree
- Properties

## New Folder

The New Folder command creates a new folder as a child of the currently selected folder.

The corresponding WebViews page is also created.

≡	WebViews		
• 1	New Folder	Alt+Ctrl+N	
	2.1.1.		
	Delete	Delete	
	Cut	Ctrl+X	
	Сору	Ctrl+C	
	Paste	Ctrl+V	
	Rename	F2	
	Graata Single Dage		
	Create Single Page		
	Create Pages For Tree		
	Create Page From Template	Alt+Shift+P	
	Create Tree From Templates		
	Create Single Template	Alt+Shift+T	
	Create Templates For Tree	Alt+Ctrl+T	
	Check Files For Page		
	Check Files For Tree		5
	Branatias	Alt. Enter	
	Properties	Alt+Enter	
	▶ PW UPS 9395 ISBM UPS-EPM	I-UPM PXGX	
	PWRware PDU PXS Wye PXG		70281
	Delevis Ester Delevio 440 TOD	074070	

#### New Folder

A folder name must be 40 characters or less. It cannot contain any special characters other than dash, underscore, and space. By default, the name used for breadcrumbs, is the folder name. The breadcrumbs text must follow the same length and characters restriction as the folder name. If custom breadcrumb names are used, the setting "BreadcrumbsFromServer" in user\_style\_ie must be enabled.

NOTE: If you rename an existing folder, you will need to update all folders and URLs that reference the old folder name to the new folder name.

New Folder	
New Folder	
ОК	Cancel
	New Folder

#### Delete

The Delete command deletes the currently selected folder and WebViews page.

8

≡w	ebViews		
▼ \ N	lew Folder	Alt+Ctrl+N	
	elete	Delete	
_			
	ut	Ctrl+X	
	ору	Ctrl+C	
P	aste	Ctrl+V	
R	ename	F2	
	anata Qianta Dana		
	reate Single Page		
C	reate Pages For Tree		
C	reate Page From Template	Alt+Shift+P	
	reate Tree From Templates		
C	reate Single Template	Alt+Shift+T	
C	reate Templates For Tree	Alt+Ctrl+T	
	haak Eilan Ear Paga		
	heck Files For Page		
C	heck Files For Tree		15
P	roperties	Alt+Enter	
		UDU DVOV	
	PW UPS 9395 ISBM UPS-EPM		
•	PWRware PDU PXS Wye PXG	K1000 TCP_67	70281

Confirm		8		
Deleting a WebViews folder will o pages under it. Any folder that re edited.		-		
Select Cancel to stop or Ok to continue				
	ОК	Cancel		

O Deleting a WebViews folder will delete all folders, images, and web pages under it. Any folder that references this folder will need to be edited.

## Cut

The Cut command cuts the currently selected folder (and WebViews page) so that it can be pasted to another location in the tree. There's no visual indication that the folder has been cut; however, following a Paste operation its location in the tree will change.

≡	WebViews		
•	New Folder	Alt+Ctrl+N	
1	Delete	Delete	
	Cut	Ctrl+X	
	Сору	Ctrl+C	
	Paste	Ctrl+V	
	Rename	F2	
	Create Single Page		
	Create Pages For Tree		
	Create Page From Template	Alt+Shift+P	
	Create Tree From Templates	Alt+Ctrl+P	
	Create Single Template	Alt+Shift+T	
	Create Templates For Tree		
		741 041 1	
	Check Files For Page		
	Check Files For Tree		5
	Properties	Alt+Enter	
_			
	PW UPS 9395 ISBM UPS-EPM		
	PWRware PDU PXS Wye PXG)	(1000 TCP_67	70281

# Сору

The Copy command copies the current folder and pastes the copy as a child of the selected folder.

New Folder	Alt+Ctrl+N	
Delete	Delete	
Cut	Ctrl+X	
Сору	Ctrl+C	
Paste	Ctrl+V	
Rename	F2	
Create Single Page		
Create Pages For Tree		
Create Page From Template	Alt+Shift+P	
Create Tree From Templates	Alt+Ctrl+P	
Create Single Template	Alt+Shift+T	
Create Templates For Tree	AIL+CIII+I	
Check Files For Page		
Check Files For Tree		5
Properties	Alt+Enter	
Properties	AILTENIE	
PW UPS 9395 ISBM UPS-EPM		
PWRware PDU PXS Wye PXG	X1000 TCP_67	70281

## Paste

The paste command pastes the result of a Cut, Copy, or Copy Link operation as the child of the selected folder.

≡	WebViews		
•	New Folder	Alt+Ctrl+N	
	<b>D</b> _1_1_	D. J. J.	
	Delete	Delete	
	Cut	Ctrl+X	
	Сору	Ctrl+C	
	Paste	Ctrl+V	
	Rename	F2	
	Questa Qianta Dana		
	Create Single Page		
	Create Pages For Tree		
	Create Page From Template	Alt+Shift+P	
	Create Tree From Templates		
	Create Single Template	Alt+Shift+T	
	Create Templates For Tree	Alt+Ctrl+T	
	Ohania Film Fan Bann		
	Check Files For Page		
	Check Files For Tree		5
	Properties	Alt+Enter	
	PW UPS 9395 ISBM UPS-EPM		
	PWRware PDU PXS Wye PXG	X1000 TCP_67	70281

#### Rename

The Rename command renames the selected folder. If you are renaming a link, the target folder will be renamed as well. A folder name must be 40 characters or less. It cannot contain any special characters other than dash, underscore, and space. By default, the name used for breadcrumbs, is the folder name. The breadcrumbs text must follow the same length and characters restriction as the folder name. If custom breadcrumb names are used, the setting "BreadcrumbsFromServer" in user\_style\_ie must be enabled.

If you rename an existing folder, you will need to update all folders and URLs that reference the old folder name to the new folder name.

≡ WebViews		
New Folder	Alt+Ctrl+N	
Delete	Delete	
Cut	Ctrl+X	
Сору	Ctrl+C	
Paste	Ctrl+V	
Rename	F2	
Create Single Page		
Create Pages For Tree		
Create Page From Template	Alt+Shift+P	
Create Tree From Templates		
Create Single Template		
Create Templates For Tree	Alt+Ctrl+T	
Check Files For Page		
Check Files For Tree		5
Properties	Alt+Enter	
PW UPS 9395 ISBM UPS-EPM		
PWRware PDU PXS Wye PXG	X1000 TCP_67	70281

Rename Folder		8			
A folder name must be 40 characters or less. It cannot contain any special characters other than dash, underscore, and space. By default, the name used for breadcrumbs, is the folder name. The breadcrumbs text must follow the same length and characters restriction as the folder name. If custom breadcrumb names are used, the setting "BreadcrumbsFromServer" in user_style_ie must be enabled. NOTE: If you rename an existing folder, you will need to update all folders and URLs that reference the old folder name to the new folder name.					
Folder Name:	Rename Folder Test				
Breadcrumbs:	Rename Folder Test				
	ОК	Cancel			

# Create Single Page / Create Pages for Tree

The Create Single Page / Create Pages for Tree command recreates the WebViews page files for the selected folder in the tree. Two files, index.htm and layout.xml, are created when a WebViews Folder is created (they reside in the <Install Drive>:\Eaton

Corporation\Foreseer\WWW\WebViews folder on the server machine in a tree that mimics the structure of the WebViews tree. Should you corrupt either of these files in the course of editing (especially by editing the files directly), you can delete them and use this command to regenerate new files based on the system defaults.

≡ WebViews	
New Folder	Alt+Ctrl+N
	Dalata
Delete	Delete
Cut	Ctrl+X
Сору	Ctrl+C
Paste	Ctrl+V
Rename	F2
Create Single Page	
Create Pages For Tree	
Create Page From Template	Alt+Shift+P
Create Tree From Templates	Alt+Ctrl+P
Create Single Template	Alt+Shift+T
Create Templates For Tree	
Check Files For Page	
Check Files For Tree	
Properties	Alt+Enter
▶ PW UPS 9395 ISBM UPS-EPM	I-UPM PXGX
PWRware PDU PXS Wye PXG	X1000 TCP 67
Datas Estas Datas Otto TOD	

() Result	8
'Create a Single Page' operation on 'New Template f	Folder' completed.
	Close

The Create Pages for Tree command will recreate pages as needed for the selected folder and its children. New pages will be recreated only if either of the files for that folder are missing.

≡ WebViews	
New Folder	Alt+Ctrl+N
Delete	Delete
Cut	Ctrl+X
Сору	CtrI+C
Paste	Ctrl+V
Rename	F2
Create Single Page	
Create Pages For Tree	
Create Page From Template	Alt+Shift+P
Create Tree From Templates	
Create Single Template	Alt+Shift+T
Create Templates For Tree	
Check Files For Page	
Check Files For Tree	
Properties	Alt+Enter
▶ PW UPS 9395 ISBM UPS-EPI	M-UPM PXGX
PWRware PDU PXS Wye PXC	GX1000 TCP_67

Result	8
'Create Pages For Tree' operation on 'New Template completed.	e Folder'
	Close

# Create Page From Template / Create Tree from Templates

The Create Page From Template / Create Tree from Templates command creates a WebViews page or a section of the WebViews tree from the specified Template file. The page(s) can include specified Devices and their Channels.

To create a WebViews page or tree section from a template file:

1. Highlight the location for the page in the WebViews panel and select Create Page from Template.

■ WebViews		
New Folder	Alt+Ctrl+N	
Delete	Delete	
Cut	Ctrl+X	
Сору	Ctrl+C	
Paste	Ctrl+V	
Rename	F2	
Create Single Page		
Create Pages For Tree		
Create Page From Template	Alt+Shift+P	
Create Tree From Templates	Alt+Ctrl+P	
Create Single Template	Alt+Shift+T	
Create Templates For Tree		
Check Files For Page		
Check Files For Tree		5
Properties	Alt+Enter	
▶ PW UPS 9395 ISBM UPS-EPM	N-UPM PXGX	
PWRware PDU PXS Wye PXG	X1000 TCP_67	70281

2. Select the .tpf template file to use. Template files for the currently selected folder in the templates tree are displayed. You can navigate through the tree to select files in other locations in the tree.

Create Single Page from a 1	remplate	8			
<ul> <li>Web Templates</li> <li>EATON METER PXM2</li> <li>EATON METER PXM2</li> <li>EATON METER PXM2</li> <li>WAVEFORM</li> <li>Eaton Meter PXM2</li> </ul>	2290 TCP 2290 Waveform.t	·			
EATON METER PXM4 SYSTEM CHANNELS		гокм тер			
Select the template file to use for creating the page for the selected WebViews node. When creating a single page, folders contained in the template file for the page, will have new WebViews folders created from them, but will not have a Web page or file system folder created. Only the single Web page is created.					
Selected Template:					
Web Templates/EATON METER PXM2290 TCP/Eaton Meter PXM2290 Waveform.tpf					
	Select	Cancel			

- 3. Click Select.
- 4. Select Use the same objects that are in the template to link to these objects automatically (if they are still available on the server). Selecting this option prepopulates the Device to Use field in the next dialog box. If you wish to select another device at that point, you still can even if this option is selected.

Create Single Page from a Te	emplate	8			
Web Templates/EATON METER PXM2290 TCP/Eaton Meter PXM2290 Waveform.tpf is the template that will be used to create the new page from. If pages are being created for the tree instead of a single page, Web Templates/EATON METER PXM2290 TCP/ will be used as the start of the templates tree.					
When a page is created from the template, the objects that are linked in the template need to be linked to objects that are in this server. If the template was created on this server and you want to use the same linked objects, check the following box and if all linked objects are still available, the new page will be linked to them.					
If you are not an expert or you are not being assisted by an expert, do not proceed. Once the Create From Template process has begun, there is no way to stop the process without leaving the tree in an undefined state. If this occurs, you will need to manually delete the affected tree pages and run Create From Template again, or restore the server from a backup where the tree was intact.					
If you are unsure what you are doing, hit Cancel now. DO NOT continue.					
✓ Use the same objects that are in the template					
	ОК	Cancel			

5. In this step, you must select the device in the template and match that to an existing device in the server. The Device to Use field shows the currently selected device. You can select the server in the left pane and any device on the right pane. If you do not select a device identical to what was in the template, objects in the WebViews page will not have matching Channels and must be manually relinked.

on the page.	device from the right panel. If a device in the te	mplate doesn <sup>1</sup> t have a match, it's controls will be unlinked		
Device in Template	Device to Use	Local Devices		
Foreseer/PXM4000_7	*Foreseer/CM4000_11	*Foreseer/PXM4000_14		
Foreseer/PXM4000_6	*Foreseer/CM4000_14			
Foreseer/PXM4000_8	*Foreseer/PXM4000_18	*Foreseer/PXM4000_16		
		*Foreseer/PXM4000_17		
		*Foreseer/PXM4000_18		
		*Foreseer/PXM4000_19 *Foreseer/PXM4000_2 *Foreseer/PXM4000_20		
		*Foreseer/PXM4000_21		
		*Foreseer/PXM4000 22		
		*Foreseer/PXM4000_23		

- 6. When you've selected a device, click Create.
- 7. The page is created and the WebViews folder should now show the set of channels from the selected device.

#### Create Single Template / Create Templates for Tree

If you're using Create Single Template, the resulting template file is based on the selected WebViews page. This file will can then be used to create a copy of this WebViews page at different locations in the tree. If you're using Create Templates for Tree, the resulting template file can be used to create a copy of the selected WebViews page and all of its children. You can use this function to rapidly recreate repeating tree structures throughout the WebViews tree. For both functions, you can specify the device to use when specifying attached channels.

To create a template file:

1. Highlight the location for the page in the WebViews panel and select Create Single Template.

Vew Folder	Alt+Ctrl+N
Delete	Delete
Cut	Ctrl+X
Сору	Ctrl+C
Paste	Ctrl+V
Rename	F2
Create Single Rage	
Create Single Page	
Create Pages For Tree	
Create Page From Template	Alt+Shift+P
Create Tree From Templates	Alt+Ctrl+P
Create Single Template	Alt+Shift+T
Create Templates For Tree	Alt+Ctrl+T
Check Files For Page	
Check Files For Tree	
Properties	Alt+Enter
▶ PW UPS 9395 ISBM UPS-EF	M-UPM PXGX
PWRware PDU PXS Wye PX	GX1000 TCP 67
Datas Estas Datas 0.440 TO	

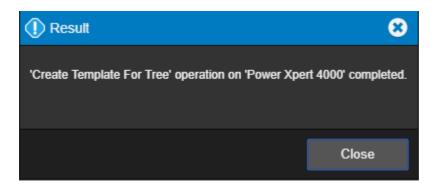
2. If you are using the Create Templates for Tree function, all of the child folders will also be included in the template file.

≡ ۱	WebViews	
• \	New Folder	Alt+Ctrl+N
-	Delete	Delete
	Cut	Ctrl+X
	Сору	Ctrl+C
	Paste	Ctrl+V
	Rename	F2
	Create Single Page	
	Create Pages For Tree	
	Create Page From Template	Alt+Shift+P
	Create Tree From Templates	
	Create Single Template	Alt+Chift+T
	Create Templates For Tree	Alt+Ctrl+T
	Create relipiates For free	AILTOUTT
	Check Files For Page	
	Check Files For Tree	
	Properties	Alt+Enter
	PW UPS 9395 ISBM UPS-EPM	
	PWRware PDU PXS Wye PXG	

3. Select the .tpf template file to use. Template files for the currently selected folder in the templates tree are displayed. You can navigate through the tree to select files in other locations in the tree.

Create Templates for the Tre	e	8		
<ul> <li>Web Templates</li> <li>EATON METER PXM2</li> <li>EATON METER PXM2</li> <li>EATON METER PXM4</li> <li>AUXILIARY</li> <li>AUXILIARY</li> <li>IN-OUTPUTS</li> <li>WAVEFORM</li> <li>PowerXpert Meter</li> </ul>	290 TCP 000-8000 WAVE	FORM TCP		
Select the destination folder and file name to save the template to. The template for the selected node of the WebViews tree will be saved in the folder as filename.tpf and filename.xml files. Templates for all sub - folders of the node will be created in file system folders using the name of the WebViews folder for both folder and template file names.				
Selected Directory:		New Folder		
Web Templates/EATON METER PXM4000-8000 WAVEFORM TCP/default/				
File Name: Crea	ate Template for th	e Tree		
	Select	Cancel		

4. Click Select.



# Check Files for Page

⊘ This command is for specialized applications, and should only be used at the direction of Eaton technical support.

≡	WebViews		
•	New Folder	Alt+Ctrl+N	
	Delete	Delete	
	Cut	Ctrl+X	
	Сору	Ctrl+C	
	Paste	Ctrl+V	
	Rename	F2	
	Oresta Oizala Dava		
	Create Single Page		
	Create Pages For Tree		
	Create Page From Template	Alt+Shift+P	
	Create Tree From Templates	Alt+Ctrl+P	
	Create Single Template	Alt+Shift+T	
_			
	Create Templates For Tree	Alt+Ctrl+I	
	Check Files For Page		
	Check Files For Tree		5
	Proportion	Alt+Enter	
	Properties	Ait+Enter	
	PW UPS 9395 ISBM UPS-EPM	-UPM PXGX	
	PWRware PDU PXS Wye PXG.	X1000 TCP_67	70281

# Check Files for Tree

⊘ This command is for specialized applications, and should only be used at the direction of Eaton technical support.

≡	WebViews		
•	New Folder	Alt+CtrI+N	
_	Delete	Delete	
	Cut	Ctrl+X	
	Сору	Ctrl+C	
	Paste	Ctrl+V	
	Rename	F2	
	Oresta Single Rese		
	Create Single Page		
	Create Pages For Tree		
	Create Page From Template	Alt+Shift+P	
	Create Tree From Templates	Alt+Ctrl+P	
	-		
	Create Single Template	Alt+Shift+T	
_	Create Templates For Tree	Alt+Ctrl+T	
	Chaels Files For Bage		
	Check Files For Page		
	Check Files For Tree		15
	Properties	Alt+Enter	
_			
	PW UPS 9395 ISBM UPS-EPM		
	PWRware PDU PXS Wye PXG	X1000 TCP_67	02

#### Properties

The properties command furnishes general information on the WebView folder page.

	8
Power Xpert 2270	
Blank Meter Template	
	Close

# WebViews Channel List Menu

The WebViews Channel List menu provides access to all of the functionality that will be required to manage your Foreseer WebViews Channels.

- Delete
- Copy for WebViews

## Delete

Deleting a WebView channel means that any reference to the channel in the folder will be mis-linked until the referencing object is deleted or linked to a valid channel.

≡	WebViews Channel L	ist			Q
Sen	Delete	Delete	Device	Channel	
Terr	O a mu fan Wah Vinun	044.0	Eaton C441	D_Location	-
Terr	Copy for WebViews	Ctrl+C	Eaton C441	D_Model	
Tem	plate Builder		Eaton C441	D_Serial Number	
Tem	plate Builder		Eaton C441	D_Trip Reason	
Tem	plate Builder		Eaton C441	D_Trip Status	
Tem	plate Builder		Eaton C441	M_Current Avg	
Tem	plate Builder		Eaton C441	M_Current Phase A	
Tem	plate Builder		Eaton C441	M_Current Phase B	
Tem	plate Builder		Eaton C441	M_Current Phase C	
Tem	plate Builder		Eaton C441	M_Current Unbalance	
Tem	plate Builder		Eaton C441	M_Frequency	
Tem	plate Builder		Eaton C441	M_Ground Fault Current	
Tem	plate Builder		Eaton C441	M_kW Total	
Tem	plate Builder		Eaton C441	M_Load Fault Time To Restart	-

#### ? Confirm

Deleting WebView channels means that any reference to the channel in the folder will be mis-linked until the referencing object is deleted or linked to a valid channel.

Select Cancel to stop or Ok to continue...

## Copy for WebViews

The Copy for WebViews command copies the selected channels to the target folder in the WebViews tree.

ω

				Q
Sen Delete	Delete	Device	Channel	•
Ten Open for WahViews	01-1-0	Eaton C441	D_Location	-
Tem Copy for WebViews	Ctrl+C	Eaton C441	D_Model	
Template Builder		Eaton C441	D_Serial Number	
Template Builder		Eaton C441	D_Trip Reason	
Template Builder		Eaton C441	D_Trip Status	_
Template Builder		Eaton C441	M_Current Avg	
Template Builder		Eaton C441	M_Current Phase A	
Template Builder		Eaton C441	M_Current Phase B	
Template Builder		Eaton C441	M_Current Phase C	
Template Builder		Eaton C441	M_Current Unbalance	
Template Builder		Eaton C441	M_Frequency	
Template Builder		Eaton C441	M_Ground Fault Current	
Template Builder		Eaton C441	M_kW Total	
Template Builder		Eaton C441	M_Load Fault Time To Restart	-

# Copyright

#### Foreseer Web Configuration Guide - 7.5.800

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