

Foreseer Release Notes



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Operating Requirements

Hardware Requirements

To run Foreseer, you'll need a server class machine with

- A minimum of two quad-core processors
- 16 GB of RAM
- 100 GB of free drive space



If you plan to use Foreseer and Foreseer Cloud Agent on the same machine, we recommend at least 32 GB of RAM.

Supported Operating Systems

Windows Desktop Operating Systems	Message Manager	Outpost	Cloud Agent
Windows 10 Professional, x64	X	X	X
Windows 10 Enterprise, x64	X	X	X

Windows Operating Systems	Server / Message Manager	Cloud Agent
Windows Server 2012 R2 Std	X	
Windows Server 2012 R2 Datacenter	X	
Windows Server 2016	X	
Windows Server 2019	X	X

Supported Database Platforms

- SQL Server 2012 Express w/ Advanced Services, Standard, Enterprise, Enterprise Core, SP2
- SQL Server 2014 Express w/ Advanced Services, Standard, Enterprise
- SQL Server 2016 Express w/ Advanced Services, Standard, Enterprise
- SQL Server 2017 Express w/ Advanced Services, Standard, Enterprise
- SQL Server 2019 Express w/ Advanced Services, Standard, Enterprise

Supported Browsers

Applications	Edge	Chrome	Safari	iPad
WebConfig	91.0.864.37	90.0.4430.212	14.0 (15610.1.28.1.9)	Not Supported
WebAdmin	91.0.864.37	90.0.4430.212	14.0 (15610.1.28.1.9)	Not Supported
WebViews	91.0.864.37	90.0.4430.212	14.0 (15610.1.28.1.9)	V12.3.1



Internet Explorer is no longer supported with this release of Foreseer.

Features

The features include with this release of Foreseer are:

Cloud Agent

The Foreseer Cloud Agent is a next-generation software add-on that allows device, channel, and alarm data to be exposed or published to compatible cloud-based software infrastructures. As part of the initial introduction, the Foreseer Cloud Agent supports connectivity to Eaton's Brightlayer hosted solution.

The Foreseer Cloud Agent leverages industry leading technology by employing Docker and RedisDB to deploy and publish time value pair information that can be easily processed by a wide arrange of cloud-based technology providers.

The Foreseer Cloud Agent is an optionally licensed feature, enabled through the use of a new CloudAgent.bin license file and provides the expiration date of this functionality. Foreseer will provide a warning at 30 days, a warning at 14 days, a warning at 7 days, and once a day till that the CloudAgent.bin file is about to expire. Once this file expires, Foreseer will change this to a system error. Foreseer will not shut the Cloud Agent functionality down until the next restart. Any restart with an expired CloudAgent.bin file will shut down this feature.

In addition, the ChannelCap.bin license files are now available in 5,000 channel increments. Please contact your Eaton Sales Representative for additional information.

Installation and deployment details can be found by referencing the Foreseer Cloud Agent Guide for Eaton Brightlayer (MN152117EN).

Enhance User-Defined Fields

Foreseer now provides expanded support for additional User Defined Fields, specifically, for Alarm and Events. Each alarm event type (critical and cautionary) may contain up to five user defined property fields for customizing alarm and events from Foreseer. Similar to Device and Channel User Defined Fields, Alarm User Defined Fields can be created from WebConfig, as well as a defined through the use of an uploaded CSV file.

For more information on this new feature, please refer to the Foreseer Web Configuration Guide (MN152109EN).

Expanded COMTRADE Power Quality Data Support

Foreseer now allows users to download retained COMTRADE files generated in response to a power quality event. The WebViews Waveform Viewer has been updated to permit users to download, when available, the COMTRADE header (.HDR) and configuration (CFG) files for an actively displayed waveform event. This is helpful for scenarios where an offline power quality study must be performed using offline COMTRADE data.

In addition to downloading COMTRADE files for a singular waveform, the WebViews Waveform Widget now includes a new Download All button. When selected, all COMTRADE files known to Foreseer will be downloaded in a compressed .zip archive. This provides a one-stop method to obtaining a complete history of all retained COMTRADE files for a linked device.

For more information on this feature, please refer to the Foreseer WebViews Guide (MN152111EN).

Issues Resolved

Defect	Description
FOR-898	An issue where a device UID does not update when editing a WebView folder link is resolved.
FOR-4883	An issue where a menu separator before the Scheduled Data Deletion option in WebConfig is resolved.
FOR-4916	An issue of cosmetic nature relative to dialog messages generated by the Channel Picker in WebViews/WebAdmin is resolved.
FOR-4919	An issue of cosmetic nature in the WebViews/WebAdmin IFrame component's tooltip for Properties is resolved.
FOR-4942	An issue where "undefined" is displayed for blank labels on the Angular Gauge component in WebViews/WebAdmin is resolved.
FOR-4975	An issue where nuisance traffic between client and server on WebConfig when Config Mode changes are made repetitively is resolved.
FOR-4976	An issue where there Rename dialog in WebConfig remains active after OK

Defect	Description
	is clicked on larger systems is resolved.
FOR-5014	An issue where saving channel properties on disabled digital channels may set the alarm state inadvertently is resolved.
FOR-5030	An issue of cosmetic nature relative to grammar of several log output messages is resolved.
FOR-5286	An issue where WebViews / WebConfig authentication could fail due to orphaned group SIDs in Windows domains is resolved.
FOR-5313	An issue where all channels and devices are not displayed when selecting the server node in the Channel Picker window is resolved.
FOR-5549	An issue where the Wiretap Tab in WebConfig disappears when one or more channels are disabled is resolved.
FOR-5622	An issue of cosmetic nature in documentation where User Group Privilege headers were cut off is resolved.
FOR-5623	An issue where Foreseer may take excessive time to delete devices on systems with significant numbers of user derived equations is resolved.
FOR-5991	An issue with bit string variables passed from Foreseer to the ModbusGateway driver is resolved.
FOR-6339	An issue of cosmetic nature relative to grammar on the Angular Gauge component properties in WebViews/WebAdmin is resolved.
FOR-6379	An issue where the "Needs Update" column of a server in WebConfig displays Yes even after getting updated successfully is resolved.

Known Issues

Defect	Description
FOR-5013	When generating a Custom Notes History report, System Up/Down messages may not be included even though the option for their inclusion is checked.
FOR-5078	In situations where excessive alarms exist, the Alarm Management window may respond poorly. It is recommended that customers properly manage the number of active alarms in their system.
FOR-5087	Alarm queuing on excessive quantities of alarms may take longer than expected time frames.
FOR-5089	The first of pre-canned or pre-installed animated images may be missing the 0 and the N element.
FOR-5121	Certain values from Buffered Data Retrieval services from PowerXpertGateway hardware based devices do not have channel scaling applied by default.
FOR-6025	In WebAdmin, selecting the X-Axis resize icon may inadvertently result in an X-Y resize action.
FOR-6167	In MoM/Remote server applications, the 'Needs Update' field may not necessarily reflect the correct status of tracked updates. In situations where UDF changes happen at a remote, the remote needs to be

Defect	Description
	disconnected and re-connected in WebConfig.
FOR-6242	When performing excessive device and channel delete operations, waiting for database operations to not complete could result database errors.
FOR-6316	Legacy WebViews and their layout.xml files may not correctly update into modern revisions of Foreseer.
FOR-6417	A Primary server may not reflect a 'Needs Sync' status status when a User Defined Value field is entered on a secondary
FOR-6422	In situations where UTF-8 encoded characters are entered, User Defined Field values may become reset unexpectedly.
FOR-6423	When entering or copying/pasting data to Foreseer, UTF-8 characters are not a recognized set.
FOR-6431	When a UDF configuration issue occurs that is warning-based, an error message may display instead.
FOR-6451	On larger systems exceeding 300,000 channels, the Channel Picker's Filter option may experience a delay in click responses when selecting the main server node.
FOR-6512	If an error occurs upon device log-in for Buffered Data Retrieval, the explicit name of the offending device may not be inserted into the Log Report.
FOR-6522	When using the Foreseer Cloud Agent's Brightlayer Connection setup page, the connection status may not update until the Save and Connect button has been clicked.

Third Party License

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This product includes software developed by the Apache for use in the Apache HTTP Server.

(https://httpd.apache.org/ABOUT_APACHE.html)

Boost

This product includes software developed by the Boost project.

(<https://www.boost.org/users/license.html>)

(https://www.boost.org/LICENSE_1_0.txt)

Bzip2

This product includes software developed by the bzip2 project.

(<http://sourceware.org/bzip2/>)

LZMA

This product includes software developed by the 7-Zip project.

(<https://www.7-zip.org/sdk.html>)

OpenSSL

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit.

(<https://www.openssl.org/>)

Python

This product includes software developed by the Python Software Foundation.

(<https://www.python.org/about/>)

RapidJSON

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Zlib

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