

Release Notes 2.2.0

**OMEGA Enterprise Gateway**

**General Remarks**

Omega Enterprise Gateway (OEG) is a replacement software for Omega OPC Server, iCONNECT, iLOG, HTTPGet, iPort, Mail Notifier, Virtual Coordinator, and Omega Dashboard. If you are a current user of any software listed above, we encourage you to install OEG. OEG supports the following Omega products but is not limited to:

1. Controller – Platinum™, iSeries, iTH, CN616
2. Wireless Receivers – ZW-REC, zCDR, UW-REC3, UW-REC1, UW-REC2, wSeries, WW-ED
3. Wireless End Devices - Depended on receiver
4. iServer Series – iBTX, iBTHX-W, iBTX-SD, iTHX-W, iTHX-SD, iTCX, iPTX, iSD-TH, iSD-TC, EIT
5. DAQ Devices – OM-DAQ-USB, OM-DAQXL, DM240
6. Pressure Sensors – PX409-USBH/485, IN-USBH,
7. Meter – DP612, DP606
8. 3rd Party device – As long as the device support Modbus protocol.

The OEG server can be installed on the following OS/Platforms: Windows® 7, 8, and 10, Windows Server 2008, 2012, and 2016. All OS are 64-bit.

The OEG web client is platform-independent.

The minimum hardware requirements for server installation are: Dual core CPU 2.4GHz or higher, Memory 4GB or higher, Hard drive 250GB or higher.

OEG uses MongoDB as an historian database. More information about MongoDB including AGPL licensing can be found at <https://www.mongodb.com/community>. OEG also uses other software components under various commercial-free license terms. For license terms of all other components, please refer to the license statement document.

Please review the Release Notes to learn what is new in each release and important remarks concerning known issues and their workarounds.

For more information about the software or if you require technical support, please refer to the User Manual or contact Omega engineering support at [support@omega.com](mailto:support@omega.com).

**Version 2.2.0.0**

New Features

1. Updated installer to auto remove older installation and support semi-auto software update
2. Allows user to set Y axis value range
3. Sync scale across multiple charts
4. Added alarm delay function
5. Enabled OPC UA write function
6. Supports Layer N gateway
7. Consolidated web and web API port to single port 8080

Bug Fixes

1. Dashboard gauge range does not work properly
2. Dashboard chart time axis shows 00:00
3. Save button on data cleaning page crashes the data tool if no outlier data is selected
4. Data tool manual clean does not accept decimal
5. Historian check box does not work
6. Fixed device register editing bugs

**Version 2.1.0.0**

New Features

1. Data tool to allow database backup, restore, export, and data cleaning
2. Changed map view layout and float device on the map
3. Reinstated Web APIs for device data access
4. Added native smart sensor support
5. Click-to-hide outlier data points in a chart
6. Enabled drag and drop to change device location

Bug Fixes

1. Long service start time when too many devices are connected
2. User added registers can’t be saved and reloaded
3. Device image does not display after upload
4. License lost after update or reinstallation
5. Duplicated OEG ID for cloud connection
6. Value scaling is wrong when the measurement unit is different than the unit of selection
7. ZW-REC end device name contains a space causing OEG to show the end device offline

**Version 2.0.0.0**

New Features

1. New device management interface
2. Dashboard – This feature allows users to create or modify their dashboard
3. Device insights – This feature allows users to view device activities, wireless sensor signal, battery usage etc.
4. User customizable device support – This feature allows users to add new devices to OEG if the device uses Modbus protocol or simple ASCII command
5. Revised the Historian with prediction support
6. Added a Battery Alarm for wireless devices
7. Multi-user access – This feature allows multiple levels of user access control
8. Local user management – User is managed locally
9. Simplified notification
10. Support user-defined value scaling

**Version 1.4.2.0**

Bug Fixes

1. Fixed OM\_DAQXL connectivity issue

**Version 1.4.0.0**

New Features

1. Improved installation process
2. Added CN6xxx controller support, added OM240 support
3. Allow end device name to be used for identification
4. Use human-readable alarm message

**Version 1.2.2.0**

Bug Fixes

1. Fixed OPC UA tag identifier changed after a system reboot or OEG restart
2. Fixed date / time format error in Internet Explorer

**Version 1.2.0.0**

New Features

1. Support Omega Pressure products
2. Support iSeries temperature humidity controller
3. Support OM-DAQXL
4. Support Omega Cloud application (for more information, please contact [sales@omega.com](mailto:sales@omega.com))
5. Allows the user to turn on/off MQTT broker on OEG

Enhancements

1. Reorganized system tab functions
2. Simple device Add functions
3. Allows users to use a device name to find/retrieve historical data
4. Improved data retrieve time
5. UI updates
6. Enabled MQTT message group function to reduce traffic

Removed/Retired Features

1. Moved firmware management to device listener settings

Bug Fixes

1. Fixed inability to read negative measurements on iServer product
2. Fixed OPC device status data’s inability to update bug
3. Fixed unable to view live data for iTCX device
4. Fixed data deletion not working on measurement points
5. Fixed IE 11 compatibility issue
6. Use correct channel/ID for coordinator device and end sensing device

Known Issues

1. OEG requires MongoDB to be installed for historical data. MongoDB has a dependency on VC runtime. On certain machines, the user is required to install VC runtime redistributable in the installation package

**Version 1.0.0.0**

New Features

1. Supports integrated windows authentication. Users are required to have a Windows/domain account to access web functions and data
2. Supports an HTTPS connection to ensure data security and integrity
3. Supports most connected Omega measurement devices, controllers, and DAQ systems (Please refer to general remarks)
4. Contains an embedded OPC UA server to allow OPC UA compliant client application to communicate with Omega devices. Measurements are automatically populated and exposed by the OPC UA server (requires a license)
5. Contains embedded OPC DA server to allow OPC DA compliant client application to communicate with Omega devices
6. Supports local historian/analytics, allows user to save, search, retrieve, filter, visualize, export long term measurement values of interest
7. Allows the user to monitor multiple devices, multiple readings on a single page in real-time
8. Allows the user to easily add, delete, start, and stop one or more devices. Device settings are consistent once the device is added to the system. The device will be automatically added back to the gateway without human intervention
9. Real-time device measurement monitoring via charting. User can set charting window
10. System health status monitoring via a graphical interface or system log file
11. User can set an alarm on measurement values. User can also set alarm notification via email
12. User can set event notification via email
13. User can select a measurement channel to capture data
14. Local alarming function. Required to be run locally
15. Supports IOT and Cloud connectivity via MQTT protocol (requires a license)

Enhancements

N/A

Removed/Retired Features

N/A

Bug Fixes

N/A

Known Issues

N/A