



ICONICS V10.91 What's New

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Overview

How to Use This Document

This document is arranged so that users can see newly added features and provide the best examples of what can be tested and used in this release. Each feature includes a brief description, the benefits that the user or developer can expect to receive from the feature and, where applicable, some use cases and examples.

Recommendations

ICONICS suggests that anyone viewing this document should browse the Table of Contents before diving into the text as some features may or may not be applicable to all projects. Once you've found a feature of interest, be sure to read the description and benefits before attempting to use the feature. If there is a feature missing that you were informed by an ICONICS representative would be included in this release, please email us as soon as possible so that we can verify the feature and timing.

Components

Target AnalytiX

Description

Target AnalytiX leverages Hyper Historian’s native Alarm and Drill Down features to monitor operations and performance against a set of predetermined targets.

Benefits

Real-time, as well as historical, alarms can be generated and viewed whenever targets are exceeded. Target AnalytiX also offers drill down feature that can be used to visualize performance from annual to 15-minute level granularity.

Use

This change applies to the use of the Target AnalytiX as well as additional ICONICS components including Hyper Historian, GridWorX, AssetWorX, AlarmWorX64 and GraphWorX64. For more information, see the “TargetAnalytiX.pdf” document included with the product download files.

AlarmWorX64 Server

Improved Error Messaging

Description

Within the AlarmWorX64 Server provider in the Workbench, if you try to import an item with a slash (\) in the name (an illegal character), you would previously receive a brief error message with no additional assistance. In addition, the rest of the items will report as having been successfully imported will not be imported. In V10.91, this has been updated so that when an item cannot be imported because the parent doesn’t exist, you will see a warning icon along with the correct path of the item to be imported and a reason why it cannot be imported.

Benefits

The improved error messaging will be more informative, as well as allow for successful completion of other operations (without rollback).

Use

This change applies to the use of the AlarmWorX64 Server provider within the Workbench.

AnyGlass

iPhone/Android App Security Server Auto-Login

Description

Some customers have requested to allow iPhone and Android apps to automatically log in to ICONICS Security Server on app startup.

Benefits

When users select this option, they can now be logged in for a specific time, regardless if some displays are open. Further, there can be an expiration time for the login made via auto log-out properties in Security settings.

Use

This change applies to the use of iPhone and Android app security/login options via AnyGlass.

AssetWorX

Resizable Expanding Triangles in AssetWorX Navigator

Description

Users have requested the ability to control the size of the expanding triangles in AssetWorX Navigator, both in the Workbench and in the Navigator control. In V10.91, the expanding triangles are now resizable according to font size.

Benefits

On touchscreens, for example, the triangles may have been too small to click on accurately. The V10.91 update alleviates this issue.

Use

This change applies to the use of the AssetWorX Navigator and Workbench.

Bulk Asset Configurator

New Hyper Historian Syntax

Description

V10.9 implemented a new and improved way to natively request Hyper Historian data. The Bulk Asset Configurator no longer needs to use the older OPC UA syntax to perform this task. It can also revert back to OPC UA syntax if the Hyper Historian tag prefix contains \\Configuration (e.g. 'HyperHistorian\\Configuration').

Benefits

Post V10.9, it is recommended to utilize the Hyper Historian syntax whenever possible.

Use

This change applies to the syntax used within the Bulk Asset Configurator.

Energy AnalytiX

Mitsubishi Meter XML File Scaling Support

Description

The XML meter templates now support a scaling option. As such, any meter tag can be scaled (ie multiplied by a user number) based on the XML template. Previous versions used the MultiplierID field of the XML file, which is no longer supported.

Benefits

Scaling can now be configured for any Mitsubishi meter tag.

Use

This change applies to the use of Energy AnalytiX and use of the provider in the Workbench.

Updated Quick Connect Meter Support

Description

The Energy AnalytiX Workbench Desktop provider now supports Quick Connect meter configuration, which enables users to quickly generate CSV import configuration files for ICONICS Modbus OPC Server energy meter devices. In addition, BACnet meter devices are also supported in Quick Connect meter configuration.

Benefits

This update in Quick Connect Meter support allows users to create equipment classes for energy meters with pre-configured aliases to facilitate accelerated energy meter configuration. It allows for simultaneous creation of ICONICS Modbus OPC server CSV configuration files relating to the devices, ports and tags utilized by the energy meters.

Use

This change applies to the use of Energy AnalytiX and use of the provider in the Workbench.

Mitsubishi XML Meter Template Integration

Description

Mitsubishi has provided some new meter templates for integration into ICONICS Workbench-SL.

Benefits

Users can see the new added Mitsubishi meter templates in C:\Program Files\ICONICS\GENESIS64\WorkbenchSL\Meters\Electric\Mitsubishi. Users will be able to import new XML meter templates, browse for their tags and create equipment classes. Equipment (meters) can be created for the new XML meter templates. Modbus CSV files can also be created and exported.

Meter templates are included for Mitsubishi Electric's ME96SSE-MB (For 3P3W-1P3W-1P2W), ME96SSE-MB (For 3P4W), ME96SSH-MB (For 3P3W-1P3W-1P2W), ME96SSH-MB (For 3P4W), ME96SSR-MB (For 3P3W-1P3W-1P2W), and ME96SSR-MB (For 3P4W).

Use

This change applies to the use of Energy AnalytiX and use of the provider in the Workbench.

Facility AnalytiX

Abandoned Incidents Recovery

Description

Many projects prior to V10.91 using FDD had an issue where, if the server is restarted, faults are "regenerated" when they are really just still active from before the reboot. Logic has been added to the startup of the FDD engine to detect these scenarios and "continue" the previous fault activity if it is detected that, after a restart, a fault was already active.

Benefits

This added feature should help prevent the mistaken "regenerated" faults being seen as new faults upon reboot.

Use

The added logic applies to the use of Facility AnalytiX and use of the FDDWorX provider in the Workbench.

Activation and Deactivation Variables

Description

Some users have pointed out that the Activation and Deactivation Variables timestamps seemed inaccurate. The explanation for this has been explained with the use of UTC. An option has been added to show these variables with local timestamps of the client. FDD Server now logs OPC DA snapshots with a “RoundTrip” data format and the FDDWorX Viewer can now translate it to the local timestamp.

Benefits

This addition provides users with the option of viewing the timestamps in local time (with storage in UTC in the database).

Use

This change applies to the use of Facility AnalytiX and use of the FDDWorX provider in the Workbench.

Fault Description in Fault Incident View in General Tab

Description

Some users requested that the Description field that is configured on a fault in the Faults Incident View be shown when the row on the General tab be expanded. The workaround prior to V10.91 was to add it as a related value but it was difficult to read on a grid's single row and cell.

Benefits

This addition allows for easier view of the Description field as it previously could be many lines of info to review.

Use

This change applies to the use of Facility AnalytiX and use of the FDDWorX provider in the Workbench.

Column Number Settings for Freezing in Configuration Mode

Description

Prior to V10.91, when users moved the mouse to the far left of an FDD Viewer on the Fault Incidents View and dragged a bar from the left to the right (past some columns), for all columns to the left, it would freeze them (similar to Excel). Some users requested to have an option to configure the number of columns to freeze within Configuration mode.

Benefits

Such viewers typically have multiple columns and horizontal scrollbars, so being able to set certain columns to “freeze” to a set position (left, right, etc.) provides an easier user experience.

Use

This change applies to the use of Facility AnalytiX and use of the FDDWorX provider in the Workbench.

GraphWorX64

Close Prompt Property on Close Window

Description

Some customers have requested the ability to shut down their displays, as well as have the ability to back out of that choice once selected via a relevant shut down message (e.g. “You are about to close down the system. To reopen, please run the shortcut on the desktop.”). The Close Window pick action now supports the following properties: Confirm, UseCustomConfigurMessage and CustomConfirmMessage.

Benefits

Users are now able to set properties within the Close Window pick action to allow for system shutdown or to reverse that selection in Runtime.

Use

This change applies to the use of the Close Window pick action within GraphWorX64.

High-Speed Symbol Search with Updated Indexing and Content

Description

The new symbol search capability uses a new indexing system, significantly increasing the speed of the symbol search function within the GraphWorX64 Symbol Library. Additionally, graphical symbol search results and the addition of new symbols to the default library all combine for easier Symbol Library navigation.

Benefits

The enhanced symbol search ability significantly decreases the amount of time spent waiting for the library to match symbols to the user-specified search terms. Updated symbol details and metadata improve the searchability of the symbols within the default Symbol Library as well as custom symbols that users import. The default Symbol Library has also been expanded with 1,000 new symbols.

Use

Anytime a GraphWorX64 user utilizes a symbol, they will interface with the Symbol Library improvements. When searching for a symbol, users will notice a drastic decrease in search time. After adding metadata to imported symbols, these search terms will be included in the index each time the new symbols are saved. Hundreds of new symbols are also available within the default library.

A user can quickly find the symbols needed for a particular display by entering search terms into the text box located near the top of the Symbol Library tool. Search terms are associated words and descriptions that help describe the desired symbol, making it easier to find. Search for symbols by name, function, industry, color, and style. Select the search button (magnifying glass), or press the Enter key on the keyboard to search for symbols that are associated with the provided search terms. The symbol library category and search results auto-save whenever a new search operation is initiated.

The associated symbols, along with the total number of symbols found, will then appear in the Symbol Library tool. Symbols from this pane can then be dragged and dropped directly onto the main display for further editing.

The user can edit a symbol's properties directly in the search results to customize a symbol further or to make future searches easier. To do this, either right-click a search result and select "Edit Symbol Properties," or select a search result and press Ctrl+E on the keyboard.

The user can also find symbols that are closely related to a particular search result by opening a search result's symbol library category. To do this, either right-click a search result and select "Open Containing Category," or select a search result and press Ctrl+O on the keyboard.

Data Explorer

Numerical Sorting of FaultActiveTime and FaultDeactiveTime

Description

Prior to V10.91, the sorting of the FaultActiveTime and FaultDeactiveTime fields in the FDDWorX Viewer were sorted in alphanumerical order, which was not the preferred method.

Benefits

The sorting of FaultActiveTime and FaultDeactiveTime has been updated to a numerical format, which has been requested by customers.

Use

This change applies to the use of the Data Explorer utility.

Browsing of XML-DA Server via Favorites

Description

Some customers have requested the restoration of the ability to browse the XML-DA Server in the GraphWorX browser or in multiple other ICONICS applications such as AlarmWorX64 Server and the Data Explorer.

Benefits

This was possible in V10.85 and has been restored in V10.91.

Use

This change applies to the use of the Data Explorer utility, as well as GraphWorX64 and AlarmWorX64 Server.

GridWorX

Multiple Drilldown Variable Support in Charts

Description

Some users have requested the ability to configure multiple drilldown variables within one GridWorX chart.

Benefits

Users can now specify multiple drilldown variables (dependent variables) within the drilldown wizard or within the configuration dialog. All of the drilldown variables must have exactly the same structure (e.g. calendar, asset levels, etc.)

Use

This change applies to the use of drilldown variables in GridWorX.

Condition Support in Charts

Description

Some customers requested a way to apply a condition list to GridWorX bars or lines. In V10.91, users can add a chart, go to the Series tab, go to the Condition subtab and create conditions. The background of the condition will be used as a fill for markers or bars. Back in the Series tab, the condition can be set in the series. In Runtime, the bars/markers will be colored depending on the condition.

Benefits

In Runtime mode, users may require certain bars or marks to contain a different fill depending on the condition.

Use

This change applies to the Grid Control/GridWorX.

Added Insert Command Dialog

Description

In V10.9, the AlarmWorX Viewer contained an Insert Command option. This command editor is now available in GridWorX in V10.91.

Benefits

This update provides the Insert Command within the GridWorX Viewer, with functionality in virtual fields in grids and alarms.

Use

This change applies to the Grid Control/GridWorX Viewer.

Hyper Historian

Support for Events and Conditions

Description

Support for events and conditions has been added to Hyper Historian, including Workbench configuration and support within the Bulk Asset Configurator.

Benefits

Hyper Historian is now able to generate simple events and conditions and expose them through the Real-time and Historical interfaces. For Conditions, event are generated/logged only when the result of the expression is different from the last result and is not nologval(). It also logs every 24 (configurable) so that Hyper Historian can find the value faster. Events are generated/logged on every trigger if the result of the expression is not zero and not nologval().

Use

This change applies to the use of events and conditions within Hyper Historian, its provider in the Workbench and in the Bulk Asset Configurator tool.

No Data Type Import Handling

Description

Prior to V10.91, when importing tags where the Data Types field was left blank, the results would default to INT32 (9). In V10.91, the results default to Native (0) instead.

Benefits

This change helps those users who, during import of new tags, would like to fill in as few values as possible by using Native for all tags. As an example, if you had a floating point number or a strings and did not specify the Data Type, it would import as INT32 and the tag wouldn't log properly, according to expectations. When imported as Native, it would occur as expected.

Use

This change applies to importing within Hyper Historian and its provider in the Workbench.

Enhanced History Reader Support of Multiple Tag/Query Scheduling

Description

Multiple customers requested the ability to read Hyper Historian logged data very quickly and have the data stored in a SQL Server database. Hyper Historian Reader can now provide this capability.

Benefits

With this update, Hyper Historian Reader can become a bridge between a SQL Server database and Hyper Historian data files. Multiple tag querying support and a command line interface are also useful, allowing the import of data of multiple Hyper Historian tags into SQL Server at any time.

Use

This change applies to Hyper Historian and the Hyper Historian Reader tool.

Enhanced History Reader Support of Multiple Tag/Query Scheduling

Description

Multiple customers requested the ability to replay large amounts of data but do not want to experience a performance degradation when using Microsoft SQL Query Engine. Hyper Historian Reader is different in that it utilizes less layers than the SQL Query Engine and takes advantage of the asynchronous method.

Benefits

With this update, Hyper Historian Reader can become a bridge between data output and Hyper Historian data files. Multiple tag querying support and scheduling capabilities are also useful, to allow Hyper Historian to get data during off-hours.

Use

This change applies to Hyper Historian and the Hyper Historian Reader tool.

MobileHMI

KPIWorX

Hide Data Browser Elements

Description

Some users have requested the ability within MobileHMI/KPIWorX to enable the ability to hide either the Tag Browser or Asset Catalog. A configuration section has been added to control the visibility of the data tag browser and asset navigator. New options ShowDataTagBrowser and ShowAssetNavigator have been added.

Benefits

This provides KPIWorX end users with the capability to create more protected dashboards – with the option to prevent casual users from accessing the data browser tab.

Use

This change applies to the use of MobileHMI/KPIWorX.

AppHub

AppHub LogIn Adherence to Security Auto-Logout Timer

Description

Previously, mobile apps would auto-logout after a few minutes even if auto login wasn't configured in Security. Users would need to re-login after locking their phone or reopen the app after a few minutes.

Benefits

Adherence to the Security Auto-Logout Timer prevents unintended logouts and the necessity for repeat log-ins.

Use

This change applies to the use of MobileHMI/AppHub.

Platform Services

Simulation Tags with Nongood Quality

Description

Some customers have requested simulation tags with nongood quality. Such tags can output a specific quality value either all the time or at specific/random times (i.e. good quality for most of the time, but every 30 seconds it could become bad). In addition, sometimes users may wish to generate a specific quality/status code rather than just “bad” or “uncertain”, and in some cases, there may be a need for a variable that will stay bad for a longer period of time or could remain bad.

Benefits

Simulated nongood tags can be useful for testing how the product behaves when receiving bad quality data. Previously, bad quality could be simulated by turning off a service (which may or may not have generated the same results as a live OPC server providing bad quality data), or using a third-party OPC simulator, or via other untested methods.

Use

This change applies to the use of simulated tags provided through FrameWorX Server/Platform Services.

Load Balancing: License Availability Detection in Client-Node Allocation

Description

In a load balanced setup, the node to which the client will be assigned is determined by the load on that client and not by the number of licenses still available on that node. Not all nodes always have the same number of client licenses on them. It was previously possible for a client to be assigned to a node that has no client licenses on it. In V10.91, when a node no longer has any client licenses available, it will no longer be included in the load balancing allocation. Only once a client has disconnected from it can it be included again.

Benefits

Without the updated methodology, some users could end up with clients that cannot connect, even with some licenses available on some of the servers in their load balanced setup. This update prevents this scenario.

Use

This change applies to the use of load balancing provided through FrameWorX Server/Platform Services.

WSDL Security

Description

Newly added security options ensure that Web Services Description Languages (WSDLs) do not provide IP addresses, URLs, server names, etc.; considered valuable information about what methods are exposed by the Web service and how to invoke them.

Benefits

By preventing the unintended disclosure of potentially sensitive infrastructure information, system users can ensure that only the information that is needed for setup and configuration is available.

Use

This change applies to the use of load balancing provided through FrameWorX Server/Platform Services.

ReportWorX 365

Added Parameter Support

Description

Parameter support has been added to ReportWorX 365, similar to the functionality available in ReportWorX Express. This feature allows use of Excel cells as either DateTime or Tag parameters. The link to configure parameters is accessible on the Home page of the app.

Benefits

All input parameters can be configured via Excel. Users can configure parameters using the “Parameter” task pane, without the need to specify the cell ID, and the parameter is created for the currently active cell. Once parameters are configured, they can be used in data source configurations.

Use

This change applies to the use of parameters in ReportWorX 365.

Workbench

Comma Handling in CSV Imports

Description

In previous product versions, within the Workbench, if you tried to import a CSV file with a row that has all commas and no data (which could be created by editing the file in Excel), the import will fail (with one of several error messages). In such instances, the remaining data may be reported as having been imported correctly but, due to the fact that the import is considered a single transaction that can either pass or fail, nothing will have been imported. In V10.91, a control has been added that checks if a row is composed of all commas and skips it during import.

Benefits

Prior to V10.91, customers may accidentally add these lines when editing their export files with Excel. It would not have been visible in Excel but could have been seen within the Notepad.

Use

This change applies to the use of CSV imports within the Workbench.

Row Numbers Added to Import Errors

Description

Row numbers have now been added to import messages, including error-related messages. Prior to V10.91, such messages could be vague regarding specific causes.

Benefits

Row numbers have been added so users can at least see related row numbers, providing an additional ability to troubleshoot a problem during import. This also prevents any confusion during log errors.

Use

This change applies to the use of imports within the Workbench.

Post-Error Import Continuation

Description

A checkbox has been added to the import dialog to continue to import when there are errors. Note that this checkbox is unchecked by default.

Benefits

In versions prior to V10.91, when there is an error during the import process, no items are imported. This scenario is acceptable to some customers but others have requested the ability to proceed with the import process when individual errors are discovered. Some customers may want to allow the items that were successfully imported to be committed to the database.

Use

This change applies to the use of imports within the Workbench.

Project Name Character Check

Description

Some special characters in a project's name might have caused unexpected functionality in other parts of the Workbench. In V10.91, only literals and numbers and underscores (_) are allowed. A check now takes place to identify such special characters and return a tooltip notifying users of invalid characters.

Benefits

This check for, and notification of, any unacceptable characters can help prevent unexpected behavior based on project names within the Workbench.

Use

This change applies to the use of project names in the Workbench.

Cut/Copy/Paste/Multiply in Web Services Configurator

Description

In V10.91, the Web Services configurator in the Workbench now includes Cut, Copy, Paste and Multiply functionality. Folders can now be multiplied (but not copied and pasted as they are in the root node). SOAP Web Services can be copied and pasted in other folder but cannot be multiplied (as there can be only one Web services with the same service name in each folder). SOAP Methods are created automatically and cannot be added or deleted. All REST services, REST methods, and SOAP tags can be copied, pasted and multiplied.

Benefits

The addition of Cut/Copy/Paste/Multiply functionality allows for faster, more useable configuration in the Web Services provider in the Workbench.

Use

This change applies to the use of the Web Services provider in the Workbench.

Workbench-SL Drag-and-Drop Prevention Option

Description

Some customers have requested an option prevent the Drag-and-Drop ability and its related features within Workbench-SL. An option has been added to V10.91 to prevent Drag-and-Drop (located in the Ribbin in Tools/Usability). Users will not be able to drag and drop items when this option is disabled.

Benefits

Without this option, some users could accidentally drag entire buidlings from the AssetWorX provider into another section, for example, and completely break a system.

Use

This change applies to the use of the Drag and Drop function within Workbench-SL.



Founded in 1986, ICONICS is an award-winning independent software developer offering real-time visualization, HMI/SCADA, energy, fault detection, manufacturing intelligence, MES and a suite of analytics solutions for operational excellence. ICONICS solutions are installed in 70% of the Fortune 500 companies around the world, helping customers to be more profitable, agile and efficient, to improve quality and be more sustainable.

ICONICS is leading the way in cloud-based solutions with its HMI/SCADA, analytics, mobile and data historian to help its customers embrace the Internet of Things (IoT). ICONICS products are used in manufacturing, building automation, oil & gas, renewable energy, utilities, water/wastewater, pharmaceuticals, automotive and many other industries. ICONICS' advanced visualization, productivity, and sustainability solutions are built on its flagship products: GENESIS64™ HMI/SCADA, Hyper Historian™ plant historian, AnalytiX® solution suite and MobileHMI™ mobile apps. Delivering information anytime, anywhere, ICONICS' solutions scale from the smallest standalone embedded projects to the largest enterprise applications.

ICONICS promotes an international culture of innovation, creativity and excellence in product design, development, technical support, training, sales and consulting services for end users, systems integrators, OEMs and Channel Partners. ICONICS has over 300,000 applications installed in multiple industries worldwide.

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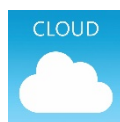
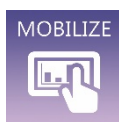
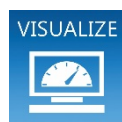
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