

ICONICS v10.95.3

Resolved Issues – ICONICS Suite

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Platform Services

BACnet

59462 59770	An option was added to BACnet to log a device timestamp of device for ACK alarm instead of server timestamp. This can be set either in the Alarm Cache Settings or in the Device settings.
59597	Previously the EDE generator stopped browsing device when there was some communication error between the server and a BACnet device. A "Continue on Error" option was added. When checked, the execution of the device continues when an error is detected.
59874	When browsing a large BACnet Device configuration, the expansion of the device timed out and never displayed. The loading animation showed for a short while before disappearing. Changing the tree to display objects grouped by types exhibited similar behavior when a large number of a specific type were returned. It was also observed that expanding the Device in the Data Browser caused the browser to hang but this recovered after a couple of minutes. When a smaller device was browsed, the tree rendered fine. This has been resolved.
60319	The Enum for multistate objects in BACnet schedule was updated to be 1-based (first item = 1, second = 2, etc.) and not 0-based (first item = 0, second = 1, etc.).
61414	In previous versions, BACnet communications configured with Change of Value set to Automatic would not send correctly re-subscribe according to the configured period. This issue has been resolved.

Bulk Asset Configurator

58980	Resolved an issue that could occur when running a large import file into the Bulk Asset Configurator resulting in an "Execution Timeout Expired" error message.
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Commanding

58853	The "Write Value" command in AssetWorX had problems with Boolean values. It only allowed the values "TRUE" or "FALSE". The values "1" or "0" were not valid. This has been resolved.
59120 59769	The Select Asset command was not properly obeying the ExecuteCommand property. It would always execute the default command, even if "None" or "Specific" was selected. This has been resolved.

59859	Resolved an issue with the GoToLocation command that could cause it to go to the incorrect location when executed from an asset that used dynamic tags for its location.
60642	The SetTimeRange command was modified with a new action: ShowDialog. This will cause the Set Period dialog to appear.

Communication

59397	Resolved a rare crash of the Classic OPC Point manager involving the conversion of arrays.
60339	Added the following WebSocket endpoints for communication, configurable through the FrameWorX Server Location dialog: • HTTP, plain • HTTP with Integrated Windows Authentication • HTTPS, plain HTTPS with Integrated Windows Authentication

Data Browser

59395	Resolved a rare crash of the data browser (lcoBrowse64.exe).
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Data Explorer

58633	Historical data had incorrect Connection Parameters, showing real-time data. Previously, there wasn't a way to edit these connection parameters. This has been resolved.
59407	Resolved a GraphWorX64 crash that could occur during selection of some items in the Data Explorer when Global Search was enabled.
60833	Resolved a discrepancy between the way assets were displayed in the AnyGlass and WPF versions of Data Explorer.

FrameWorX

53822	Implemented a grace period for redundant clients so that during a failover the client no longer briefly sees keys.
55133	FrameWorX exposed points that allowed the monitoring of the FrameWorX Server that a node was pointing to, but previously there wasn't a way to monitor the state of a redundant pair (defined in Workbench/Platform Services/FrameWorX/FrameWorX Network). This has been implemented.

56768	In Web Services, the OAuth 2.0 form now includes a drop-down to select the desired grant_type to use. Please note that only authorization_code, client_credentials, and password. It is also possible to add extra custom parameters to the authorization request.
58768	Data Triggers now expose a SourceTag property via both AE and DA. When the Data Trigger has occurred, the value for the SourceTag will be the tag that caused the trigger.
59798	Resolved an issue that could prevent a v10.95.x server from resolving @exp64: points from a v10.7x server. The @exp64: points were returning "Bad – InvalidPointName".
59929	Resolved a rare crash of FrameWorX that could occur just after it was started. This crash most often occurred in a redundant setup after an upgrade of the secondary server had occurred.
60010	Resolved an issue that would cause JSON web service results to be improperly parsed as a dataset. Individual elements of the string could be accessed in a GraphWorX64 process point, but not the full dataset, as required by clients such as BridgeWorX64.
60100	For Global Aliases, if the current theme item does not exist (e.g., if a client chose that theme item, then it was deleted on the server side), it will now failback to using the default theme item. (This also applies to Global Colors – the default color theme will be used if the current theme does not exist.)
60113	Added a new checkbox for Web Services called "Use State Parameter" that is checked by default. When it is checked the OAuth 2.0 State parameter is used.
60228	A request was made to assign a default language to a user in the Security configuration, similar to the "Default Asset" property so that, when a user logs in, the application language is automatically set. This also required changes in Security. This has been implemented. LAS context is now synchronized with security context settings.
60296	In previous versions, when a client requested a UA: point, the OPC UA Point Manager subscribed to the Value, DataType, and AccessRights of that point. This could cause problems for some low power devices. Now, by default, the OPC UA Point Manager reads the DataType and AccessRights attributes instead of subscribing. (Reading has lower overhead than subscribing. It still subscribes to Value.) To revert to the old behavior, go into Platform Services Configuration, Point Managers tab, select the OPC UA Point Manager, and set SubscribeToAttributes to true.

60639	Resolved an issue with parameter tags for GridWorX data manipulators and Web Services where the parameter values could be inadvertently shared between clients.
60782	Trigger-related values that used DateTime functions did not evaluate to anything and were blank when the trigger fired. This has been resolved.
60707	Oauth2.0 credentials now capitalize the "B" in the Bearer token.
61104	In version 10.9x the Node field of GraphWorX64 GenEvents generated from a Remote Desktop session contained the node name for both the Remote Desktop client and server. In version 10.95.x it contained only the name of the Remote Desktop server. In 10.95.3 the behavior has been reverted to how it was in v10.9x – both the Remote Desktop client and server names are listed in the Node field.

Installation

60757	The silent install seemed to install the prerequisites without issue, but failed when attempting to install the ICONICS Suite itself. This has been resolved.
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Licensing

59508	Resolved a memory leak in the IcoLicenseService.
60098	The following extensions were exempted from counting licensing points: - FwxAlertWorXService.exe - AlertEmail.exe - AlertPager.exe
60705	Resolved a rare deadlock in FrameWorX that could cause a client to fail to get licensing most of the time. This occurred most often in redundant setups.

Project Reporting

59005	Project Reporting reports are now saved as .xlsx instead of .xls. Workbench can still open legacy .xls files.
60949	Running BACnet project reports for any devices that were statically bound previously returned an "Ok. No data available" message in the report log. Only non-statically bound devices would return proper values. This has been resolved.

Security

58443	A new Runtime Menu command, "Logout" was added.
60532	
59768	There were unreadable entries in IcoSetup64.ini related to MonitorWorX Viewer. This has been resolved.
59926	The Passwords tab of Platform Services Configuration now supports Domain Managed Service Accounts (MSAs).
61000	The audit log feature was not recording any changes to the security configuration. This has been resolved.

SNMP

60626	In the SNMP provider, community settings and SNMP traps have been moved to General Settings instead of SNMP v2.
60795	Certain SNMP devices could not support parallel communication. The device would return "port not available", and SNMP Runtime would not retry. To solve this issue, new MaximumConcurrentReadRequests and MaximumConcurrentWriteRequests settings were added. They can be set on a per-device basis to avoid overwhelming an SNMP device with concurrent requests. To modify these settings, edit the FwxServer.PointManagers.config file as follows: <pre><!--SNMP -- it has to be before the GenClient PM to handle old point name syntax -> <PointManagerConfiguration> <Assembly>IcoSnmpPointManager</Assembly> <ClassName>Ico.Fwx.Server.Snmp.SnmpPointManager</ClassName> <InstalledWith>SNMP</InstalledWith> <Outproc>true</Outproc> <OutprocService>FwxSnmpService</OutprocService> <OutprocMode>OutprocOnly</OutprocMode> <Params> <Param> <!--1 means synchronous processing -> <Name>MaximumConcurrentReadRequests</Name> <Value xsi:type="xsd:int">5</Value></pre>

	<pre> </Param> <Param> <!--1 means synchronous processing --> <Name>MaximumConcurrentWriteRequests</Name> <Value xsi:type="xsd:int">5</Value> </Param> </Params> </PointManagerConfiguration> </pre>
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Unified Data Manager

59393	Resolved a crash of the Unified Data Manager when it was shutting down. The crash only happened with specific configurations.
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Web Services

60205	Parameters have a new Boolean property (Sensitive) that allows the user to configure whether the parameter's value is sensitive or not. When Sensitive is checked, the parameter's value will be obfuscated by password dots and also the edit control will be changed to a password box. The parameter's value will also be encrypted in the database and the parameter will not be browsable or overrideable from the point name.
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Workbench

58851	Resolved a rare crash in Workbench that could occur when a user double-clicked into a Recent Task list to save an exported file.
59141	It is now possible to add new lines to Language Aliasing translations.
59292	Previously, a crash of PowerShell could occur when packing or unpacking a project and specifying a nonexistent path. Now the user receives a warning and the crash does not occur.
59797	Improved the performance of IcoConfigService so it uses less CPU during steady state.
60420	Resolve a crash that could occur upon closing the FrameWorX Server Location dialog while the License Viewer was displayed inside the Workbench.

Workflows

58936	The BridgeWorX64 and Workflow editors now offer two buttons for the Real Time Input activity, one for tags and one for expressions. These launch separate data browsers that are customized for the type of input that is being configured.
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AnalytiX

BI Server

57172	The default name for the "Add Column" step is now "Add Column <Column Name>", where <Column Name> is taken from the provided properties, instead of "Add Column 1".
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BridgeWorX64

57181	In the BI Server, the Rename column was not available in the step list. This has been resolved.
57776	The Dynamic Tag Writer now supports an array of tags of indeterminate size.
57881	CSV and XML writers now support expressions for the File Name. Previously expressions were only supported in the Directory Name.
58005	All tag writer blocks now support output dataset. Columns are: PointName, WriteValue, WriteStatus, WriteTimestamp, HasReadValue, ReadValue, ReadStatus, ReadTimestamp. Optionally, a Filtering expression could be applied, as in other blocks with output. All Writers now support an additional configuration parameter, "Wait after Write", indicating if the block should wait after a write and grab the very next data update from OPC Server as "ReadValue". This Wait is configured in the number of scan periods, from zero up to 3.0 x [scan period]. Blocks will wait for the next data update only if the write was successful with a status of "Good" and the wait period is not zero. For any other write results (i.e. "Good - write skipped"), the writer activity would not wait for next data update and therefore corresponding output row would have False in HasReadValue and null in ReadValue columns.
58314	When using a Data Manipulator block, if the source data had a carriage return/line feed in the text it caused the transaction to fail with the following error: "Method call failed. (Bad - Invalid Point Name)". This is now resolved.
58767	In the BI Server, when creating a data table based on a data flow that references Web Services data, the apply button never became available, meaning the data could not be saved. This has been resolved.
59010	Bulk Data Manipulator Blocks will now post an error to TraceWorX for rows with issues and continue to the next row. The TraceWorX error includes the source row index of the issue. Previously the entire block would fail with no indication of the issue.

59011	Two checkboxes were added to the Bulk Data Manipulator: • "Succeed only if All source rows are processed successfully" – This option determines the "Success" or "Fail" result of the block. If checked, "Success" will only be set if all rows succeed. A single failure will result in "Fail". If not checked, "Success" will always be returned unless "Enable Database Transaction scope" is checked, at which point it will return the success or failure of the single database transaction. • "Enable Database Transaction scope" – This refers to database transactions, not BridgeWorX64 transactions. It is applied only if the data manipulator is local. In this case, the Data Manipulator is executed in-process and BridgeWorX64 wraps all data manipulator command executions in a single database transaction. This means if one or more commands fail then the entire batch is rolled back.
60072	The Data Reader block now allows for data sources that need parameters. If a user browses to a dataset point that has a parameters fragment (such as <@param1=value1, @param2=value2>), the "Input Parameters" grid should now populate with the parameters (@param1 and @param2). This may need to hit the "Refresh" link on the input parameters section.
61178	The deserialization logic of the BI Server was improved so that it checks whether the serialized string is null and not empty before attempting deserialization. Prior to this change, when attempting to load such a model, the following error was thrown: "Error reading JObject from JsonReader. Path "", line 0, position 0."
60208	In Data Set Transform, the Column Browser did not show all columns that were available. Instead it showed the columns that were defined in the output list, which is not correct, as it should use the input list. This has been fixed.
60209	Parameters in bulk data manipulator blocks now use the output fields from the specific data input as their default mapping. Previously, they used constants like an empty string or now().
60214	Added a "Refresh" button to the Dataset Transformer block. This works like the Reset button, except it does not remove existing definitions. "Refresh" only adds new columns without deleting the expressions for existing columns.

Energy AnalytiX

58675	Resolved an issue that would cause Advanced Energy Analysis Chart to display identical values for a set of scaled calculations. This could happen to consumption type calculations if they belonged to the same meter type.
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Facility AnalytiX

51399	In the Facility AnalytiX provider, during file import, the list of parameters is now checked against the "<< >>" fragments of the expression. An error is raised if a parameters mismatch is detected, then the fault entry is rejected. Previous to this improvement, badly formatted imports might have been allowed, but the incorrect parameters did not work correctly. The error now helps users to find the problem quicker.
52009	Added a "Display Deactivate Command" option under the Appearance tab of the Facility AnalytiX Viewer. It is checked by default. When it is unchecked the "Deactivate" button is hidden in runtime.
52650	Added a "Keep Last Comment" option under the Appearance tab of the Facility AnalytiX Viewer. When checked, the last entered comment would be used for future similar actions, and when unchecked the comment is not remembered. Prior to this checkbox the comment was always kept.
54431	Enhanced the TraceWorX messages for Faults. Notably, the Fault and AssetID(s) that cause null data values are now logged to TraceWorX.
54504	Expressions made for a Diagnostic Matrix no longer disappear if the diagnostic Matrix was changed at a node.
59389	In the Facility AnalytiX provider, the Advanced Settings page has been realigned.
60384	Resolved a rare crash (System.NullReferenceException) in the Facility AnalytiX Viewer that could happen when switching screens.

OData Connector

59159	By default, the OData provider read static properties directly from the AssetWorX database on start-up, and then never checked them again. Now, if the static property has database caching enabled (meaning it is read/write), it will be treated the same as a dynamic property, and its value will be refreshed when the next scheduled property refresh occurs.
59226	When writing to multiple different assets via the ODataConnector, the writes occurred one at a time, causing a delay on the writes coming through. This has been resolved - writes are now allowed to execute concurrently.
59560	The OData Connector would fail writes with an HTTP 500 error if the tag reported "Void" as the data type. This most notably happened with AssetWorX properties linked to BACnet tags. This has been resolved.

ReportWorX64 and ReportWorX Express

53625	Added an optional anchor row. This allows for expressions to be added under the anchor row whose range could grow as the data source expanded. The anchor row can be added by right-clicking on the mapping. This feature was available in ReportWorX32.
57520	
57519	ReportWorX64 now allows additional custom columns to be mapped. For these custom columns, users can enter an expression into body row of the custom column, and it will be auto-filled with the rest of the rows. This feature was available in ReportWorX32.
57523	Added a new Report Execution Log Window that shows up after the user clicks Update. Errors or warnings appear in this window, providing more access to this information than previously, when TraceWorX was required to view any errors. This window can be hidden.
59049	Added the "FrameWorX Node" field to the Report Navigator that sets the target server for report data.
60701	Added a Transpose option to the Data Mapping in the Layout Manager. This feature was available in ReportWorX32.

GENESIS64

AlarmWorX64

47007	Resolved an issue that was causing alarms to use properties from the alarm template instead of the information overridden in the individual alarm.
50320	Resolved an issue that would cause any change to the "Area" of an alarm to not be reflected until the alarm server was restarted.
55925	In some instances, the AlarmWorX64 Server DA interface was not updated after a configuration change. This issue has been resolved.
56071	Resolved an issue that could cause the "Latch Unacknowledged" event to not be logged.
58165	Resolved an issue that could cause the AlarmWorX64 Logger to fail to log if the logging tables were created with an earlier version of the logger.
58591	Resolved an issue preventing the editing of Alarm Viewer scrollbar properties on non-English systems.
58914	When enabling the pagination option, the page size text in the footer area was correctly using the background color option, but was ignoring the foreground color option. This has been fixed.
60534	Any Alarm Viewers that contained virtual fields with clickable links ignored the first click after the display went into runtime. This has been fixed. Now, when a user clicks on a cell, the command is executed immediately.

AlarmWorX64 MMX

59504	Added an AlarmWorX64 Multimedia mail agent that supports SSL/TLS security. Note: For security reasons, it is critical that the emailcfg.exe be run under the same user account as the mmxmailnt.exe. Failure to do so will result in a failure to properly read the registry and access the stored password. If a user wishes to disable SSL support, the lcosetup64.ini file can be modified as follows: [AWXMMX32\MMXMail] EnableTLS=0
60889	AlarmWorX64 Multimedia no longer posts connection string information to GenEvent. Previously, the connection string could be posted, which might have included sensitive password information.

AssetWorX

40529	The Silverlight AssetWorX Navigator previously did not obey changes to the foreground color. This has been fixed.	
47627	Added a new "Command Order" property to the AssetWorX Navigator. Double-click on the AssetWorX Navigator to open the pop-up configurator, then look on the General tab under the Navigator section. By default, it is set to alphabetical, but it can be switched to Server Defined to sort commands as defined on server. This sorting applies both to commands in context menu and to direct commands.	
50508	The following built-in properties have been added to assets:	
	Tag Name	Returns
	ac:Asset/Asset/.ChildEquipmentNames	An array of the names of the child assets only
	ac:Asset/Asset/.ChildEquipmentPointNames	An array of the full path of the child assets (e.g. ac:Asset/Asset/ChildAsset/)
	ac:Asset/Asset/.ChildEquipmentCount	The number of child assets
	ac:Asset/Asset/.PropertyNames	An array of the names of the properties only
	ac:Asset/Asset/.PropertyPointNames	An array of the full path of the properties (e.g.ac:Asset/Asset/ChildProperty(param=value))
	ac:Asset/Asset/.PropertyCount	The number of properties

51770	For the Asset Navigator, it is now configurable whether the selected asset storage for a tree view stores the virtual path or the real path. It is set in the Asset Navigator's pop-up configuration dialog under Controls > Selected Asset section > Asset Path Type.
56737	The AssetWorX provider in Workbench now allows the user to add a Dataset source for Create Pen Command. Datasets could be used previously, but Workbench did not allow them to be configured and had to be added manually.
57513	AssetWorX assets can now be linked to a BI model via the external link field.
57546	The Asset Navigator now supports multi-selection. To enable it, double-click on the Asset Navigator, go to the Controls panel, click the down arrow under the Selected Asset section, and check "Multiple Selection."
57826	Added a "Keep empty assets" setting for tree view rules. When this is unchecked, empty assets are hidden (original behavior).
59427	The 1,024 character limit on "Real Time", "History", and "Dataset" point names has been removed.
59431	Added an option to trace writes to AssetWorX points. To enable, switch on the point tracing on the Asset Catalog by editing IcoSetup64.ini and adding these entries: <pre>[ASSETCATALOG\DataPointTraceMonitor] TraceLevel=800 DataPoints=ac:Asset2/Property;ac:Asset3/Property</pre> The DataPoints entry contains a list of points separated by semicolons. The TraceLevel specifies the TraceWorX trace level. After changing these settings the AssetWorX point manager (FwxAssetCatalogService) must be restarted.
59656	Added a Show Display Name to the AssetWorX provider under Other Settings. This toggles the display of equipment classes in the Workbench tree between Name and Display Name.
59666	A default or directly accessible command was not working with a Global Alias in the "Target" field. This has been fixed.
59721	In some instances, the Asset Navigator would not resolve the FileName if it contained a Global Alias. This has been fixed.

60463	Resolved a freeze or crash that could occur when the user tried to initiate a drag-and-drop action with the context menu opened. Drag-and-drop actions are no longer allowed when the context menu is opened.
60666	The "valueof:" keyword now operates more consistently in AssetWorX properties.

ConverterWorX

59143	ConverterWorX now properly converts multiline language alias definitions.
59274	ConverterWorX now includes a "Disable Classic Border" option in the General section. By default, it is unchecked. Checking it will remove classic borders from the converted files.
59879	Clarified the "Host Name" and "SQL Instance Name" fields in ConverterWorX.
59896	Appropriate default values are now supplied for the "Host Name" and "SQL Instance Name" fields in ConverterWorX.

EarthWorX

59931	The version info was not being sent with any GetCapabilities request. This has been resolved. The VERSION=1.3.0 parameter is now added to the GetCapabilities calls to OGC/WMS servers.
60219	Added support for the EPSG:4326 coordinate system.

GraphWorX64

23349	The drop down in the "Find/Replace" dialog will now only show data from the selected object. If no object is selected, it will show all data sources from the whole display. This is consistent with how GraphWorX32 functions.
40110	When adding or editing 2D materials, the explorer did not properly show the resulting annotation or group. Search and replace also could not see anything in the annotation or group for the 2D material until the annotation was shown in the explorer. This has been resolved. The annotations now show the 2D material being edited. As soon as the editing is done, the material will be removed from the annotations.
57414	The green loading bar sometimes stopped appearing for WPF WebHMI pages. This has been resolved.

58572	When adding one single object to a ViewBox, a group is no longer created. The ViewBox now only creates groups if more than one object is selected.
58725	Added sample style configuration in Heatmaps, including shape, size, foreground, background, and border.
58802	Heatmaps can now be OEM'd and can receive the Refresh command.
58836	Resolved an issue that could cause no line to be drawn in a microchart.
58877	Heatmaps now support data sources in distance functions.
58955	The Ctrl-C, Ctrl-X, and Ctrl-V keyboard shortcuts for copy, cut, and paste now work for dynamics on the dynamics tab. Previously it was possible to copy, cut, and paste dynamics, but only through the right-click context menu.
59048	Tooltip duration is now configurable as a display-level setting.
59177	There was a crash when a negative number was entered into Style Border Thickness in a Heatmap. This has been fixed.
59363	WPF-based WebHMI dashboards loaded as XBAPs in Internet Explorer over an internet connection (not using localhost) loaded very slowly. This has been resolved. The performance of the XBAP WebHMI should be closer to GraphWorX64 running locally.
59399	When using templates that have tabs on them, the tabs were duplicated on the screens that used the template. This has been resolved. Reapplying a template across displays no longer copies in an extra tab.
60006	In the web publishing wizard, in certain cases the anonymous login button could become enabled but grayed out (meaning it cannot be disabled), causing the login credentials to also be grayed out. This has been resolved.

61074	If the Viewport height or width was set to automatic, the "center view on selection" button may not function properly. Instead of zooming to the object, everything could disappear. In some instances, GraphWorX64 also crashed. This has been resolved.
60437	Refreshing Internet Explorer with a WPF WebHMI display loaded could cause Internet Explorer to freeze or crash with a System.NullReferenceException. This was most often caused by displays with smart-bound ImageSource properties. This has been resolved.

GridWorX

53055	Resolved an issue that would cause parameter tags or the @@ReturnMessage tag to be shared between clients.
55048	GridWorX Server now includes diagnostic information exposed as tags similar to those implemented in the FrameWorX Server. At the root level, GridWorX Server now exposes two diagnostic points: • @@TotalCacheSize - the current total size of items in the cache • @@TotalCachedItemsCount - the total number of items in the cache Data sources now expose an extra folder along with "Columns" and "Data Items" called "Diagnostics". This new folder contains a few diagnostic points: • @@CachedItemsCount - the number of cached items for the data source. If the data source accepts parameters, parameters do not have to be included (i.e.: db:connection.source.@@CachedItemsCount) • @@CacheSize - the size of all the items stored in the cache for the data source. If the data source accepts parameters, parameters do not have to be included (i.e.: db:connection.source.@@CacheSize) • @@LastCallStatus - the status of the last (or current, if executing) call. Possible values are: Succeeded, Running, Failed, Timed Out. Please note that "Timed Out" is only returned when connecting to SQL Server - a timeout with other connection types will be reported as "Failed". If the data source accepts parameters, parameters do have to be included (i.e.: db:connection.source<@p1=1, @p2=2>.@@LastCallStatus)

	• @@LastCallStatusCode - the status of the last (or current, if executing) call as a numeric code. Values are 0 (Succeeded), 1 (Running), 2 (Failed), 3 (TimedOut). If the data source accepts parameters, parameters do have to be included (i.e.: db:connection.source<@p1=1, @p2=2>.@@LastCallStatusCode) • @@LastError - the last error that occurred during the data source execution - or null if there was no error. PLEASE NOTE that this point is not exposed by default, but needs to be turned on via configuration setting in FwxServer.PointManagers.config. The parameter name is "EnableErrorDetailsDiagnosticPoints" of Boolean type. If the data source accepts parameters, parameters do have to be included (i.e.: db:connection.source<@p1=1, @p2=2>.@@LastError) Cache size points are returned in bytes, however they are only an approximation of the actual memory consumed by the cached items.
58535	Added support to export data from a GridWorX chart to CSV, HTML, TXT, and ExcelML. This is available in the context menu, toolbar, and ribbon.
59150	Resolved an error that could occur when trying to read data from a table that has a time datatype column.
59590	Certain GridWorX configuration databases from v10.7 could not be upgraded, causing the following error: "Cannot insert duplicate key row in object 'dbo.GDX_Connections' with unique index 'Unique Parent.'" This has been resolved.
59818	Resolved an issue that caused column in the GridWorX Viewer to share an index after they had their positions changed.
60309	Data items always returned "Bad - Unexpected Error", even if they return good test results in Workbench. This has been resolved.
60469	Resolved issues that could occur the Grid Viewer was grouped by a column of type "Object". Either the data would disappear or the Grid Viewer would crash.
60478	Columns defined with data types of Currency or Decimal in the GridWorX Server are now defined as more appropriate data types in the GridWorX Viewer. Previously they were defined as type "Object" in the viewer.
60535	Any GridWorX Viewers that contained virtual fields with clickable links ignored the first click after the display went into runtime. This has been fixed. Now, when a user click on a cell, the command is executed immediately.

60571	In v10.93 or earlier, data manipulator parameter tags (like db:Northwind.AddOrder.@p7) provided some default value like zero, an empty string, or 1/1/1900. In v10.95, their default value is null. In v10.95.3, the behavior has been returned back to the way it worked in 10.93.
60820	When using filters based on the value of an OPC tag in the viewer, if a tag changed value from something that should be hidden to something that should be shown, its row would not appear in the viewer. This has been resolved.

ScheduleWorX64

60566	When creating a new schedule for a multistate value object the preselected default value is now 1 instead of 0.
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TrendWorX64

19097	For new TrendWorX64 Viewers, the default for uncertain and bad plot mode under Chart > Pens tab was changed to "Plot" instead of "Leave gap".
22479 54539	Added new chart properties UseDefaultConnectionParameters and DefaultConnectionParameters. These control the connection parameters for tags dragged onto TrendWorX64 Viewer or tags added by Commanding without connection parameters defined. This addresses a need to specify whether AssetWorX tags dragged and dropped into a TrendWorX64 Viewer should be treated as DA or HDA tags.
34705	Enhanced the "Add Operator Comment" window. It now shows both the time that the comment was added and the timestamp of the sample it goes with. It also now includes a "Cancel" button, and is centered to the parent window.
35335	A progress bar was added when loading historical data.
46688	Added a new property, CursorMoveWithMouse, which when enabled, the cursor will follow the mouse without needing to click and drag. This works only when one cursor is visible, and box zoom is disabled.
49990	If a pen was renamed under a plot (by right-clicking on it and selecting rename), the change was not reflected immediately on the form. This has been resolved.
54830	The runtime "Print" option for the TrendWorX64 Viewer now has a new "Landscape" option to print in landscape mode. This setting is persistent during the lifetime of the TrendWorX64 Viewer instance. Additionally, the "Print Command" also supports the new Landscape parameter.

55179	The timestamp is now available in the tooltip cursor for XY Charts.
58346	The arrow keys can now be used to step between samples in Freeze mode. The TrendWorX64 Viewer must have keyboard focus, which can be achieved by clicking in the viewer or using the tab key. This works only when the first cursor is visible and the second cursor is hidden.
58619	Resolved an issue with the "Stack to New Chart" feature in the TrendWorX64 Viewer. Stacked pens would not redraw automatically, but would need to receive a new value or hit the "history refresh rate", or be refreshed (in Freeze Mode).
58747 59902	Resolved an issue that could cause the Data Browser and Print Preview dialogs to appear behind the "Configure your control" dialog or the TrendWorX64 Viewer popup window.
58954	The tag name was previously not visible in the legend for the last pen (when adding pens in runtime). This has been resolved.
60089	When multiple TrendWorX64 Viewers were placed on a GraphWorX64 screen, the amount of time taken to load the display increased substantially. This has been resolved.
60115	An error message saying, "The configuration file specified is not valid... 'Ico.Twx.TwxExportDataSettings'. 'Columns' is null," could appear when the TrendWorX64 Viewer reopened a previously saved .twxx file. This has been resolved.
60147	The TrendWorX64 Viewer did not correctly identify AssetWorX tags added in runtime as historical tags if the AssetWorX tag used a global alias. This has been resolved.
60448	A TrendWorX64 pen using an AssetWorX equipment property as a data source did not inherit the parent time zone. This has been resolved.
60450	The TrendWorX64 Viewer now supports tags "{}" and expressions "x=" in the "TimeZone" field.
60562	The value under the cursor can now be stored into a tag or local variable. See the "Values" tab to configure this.

Hyper Historian

General

59964	Resolved a crash in the HDA process that could occur when a third-party client requests a large amount of data.
60487	The HHSplitter.exe tool was enhanced to remap logged data to a different Hyper Historian tag. A tab-separated text file can be created to designate old and new tag IDs.

Hyper Historian Collector

50578	In the Hyper Historian provider, the Collector Group now shows a validation error if the collection rate is incompatible with the calculation period.
58969	The standalone Hyper Historian Collector installation no longer prompts the user to select an SQL user.

Hyper Historian Logger

58917	Resolved an issue that could cause HHD files to be created every 7 days instead of the configured amount. This issue was most likely to occur in configurations that were upgraded from a previous version.
59391	Hyper Historian now allows users to customize the dataset synchronization period, which was previously hard-coded to 10 minutes. There is now a setting called "DatasetsSyncPeriodInMinutes" which can be set in HHCollectorService.exe.config (for out of process collectors) or HHLoggerService.exe.config (for in process collectors). Note, increasing this value more than necessary may cause Hyper Historian to unnecessarily resynchronize too much data.
60317	Resolved an issue that could cause Hyper Historian to use an excessive amount of memory. The issue could cause multiple exceptions to appear in the traces, including SerializationException and FileNotFoundException.
60611	Resolved an issue that could cause the Hyper Historian to stop collecting data if a Remote Collector had a large buffer file (~100 MB or greater).

Performance Calculations

59729	Resolved an issue that could cause the ConditionLog() function to not work as expected.
59731	Resolved some issues that could cause calculated tags to stop logging after some time.
59736	When running the Calculation Analyzer for a specific time on a Calculated Tag used inside of another Calculated Tag, the Calculation Analyzer would use the current time rather than the specific time for that sub-calculation. This has been resolved.
59864	LoggerVariant was incorrectly compared when used in an external calculation library. This has been resolved.
59719	There was an intermittent crash when analyzing a Hyper Historian Calculation loaded from an external library. This has been resolved.
60013	Added trace messages that could assist in identifying when a collector is causing delays in calculations (such as if the remote collector machine's time is set incorrectly).

IoTWorX

General

58734	A request was made to add support for custom properties to be exposed by the MQTT subscription. This has been implemented. There is also a new support for point BuiltInProperties in the CustomJsonFormat using new keywords and a new "property()" modifier in ModifierPropintManager (FwxServerCore) to access all point properties as data points..
59851 59852 59853	Web Services has been added to the IoTWorX installation, and Web Services configuration is created during IoT provisioning.
59913	Added three settings to the Subscriber connection configuration: Browse timeout, Command timeout, and Enable dynamic publish list.
60192	Resolved an issue that could cause the IoT subscriber to stop working for no apparent reason. The subscriber would fail to connect, and then refuse to connect again until the service was restarted.

MobileHMI

AlarmWorX64

50900	Added support for AlarmWorX64 Charts to the HTML5 AlarmWorX64 Viewer.
57324	Added support for runtime filtering into the HTML5 AlarmWorX64 Viewer.
58893	Added support for blinking to the HTML5 AlarmWorX64 Viewer.
59957	"Out of Service" support added to HTML5 AlarmWorX64 Viewer.
60104	The selected line in the HTML5 AlarmWorX64 Viewer now uses the configured color.
60769	Resolved a rare w3wp.exe crash that could occur when opening an AnyGlass page with an AlarmWorX64 Viewer.
60349	Resolved an issue that would prevent the acknowledge action from properly affecting the look of HTML5 AlarmWorX64 Viewer's alarms. For instance, if active or acknowledged alarms were configured to not blink and be a different color than active or unacknowledged alarms, acknowledging them might make them stop blinking but not change them to the appropriate color.

AppHub

59677	Resolved an issue that could cause the AppHub to not render correctly.
60001	Resolved an error in the AppHub that could cause the background image to not scale properly.
60272	Resolved an error in the AppHub that could cause the background image to render on top of tiles in the layout.
60274	Resolved an issue that could cause the OEM background color to not be rendered correctly in certain browsers.

Asset Navigator

58796	Resolved an issue that would cause the aliases associated with an HTML5 Asset Navigator (like Path and Display Name Storage) to be reset a few seconds after the page was loaded.
58799	Resolved an issue that could cause AssetWorX Navigator property "ExecuteDefaultCommandOnStart" to be ignored when loading the display.

59338	Numerical value fields were not showing decimal places in the MobileHMI HTML5 Data Explorer. This has been resolved.
59339	Selecting an Event Enrollment object from a BACnet device crashed the HTML5 Data Explorer. This has been resolved.
59475	After using a command from an Asset Navigator to load a display containing a ScheduleWorX64 Viewer, no further displays could be loaded. This has been resolved.
59423	When loading/refreshing the Asset Navigator with multiple assets, the Universal Windows Platform (UWP)-based app would crash. This has been resolved.
59998	Resolved an issue that would cause a context menu to appear when executing a Select Asset command for an asset that was not currently visible.
60194	When using Tree Views in Asset Navigator with Global Alias changes, the first item was not in the top of the control if the user had changed the value of the Global Alias. This has been resolved.
60371	When using the search in the Asset Navigator, if the root asset was not selected it would show how many items it found, but the found items would not show up in the list. This has been resolved.
60386	Resolved an issue that would cause assets with many children to not collapse correctly.
60524	The HTML5 Data Explorer control could occasionally not display assets. This has been resolved.

EarthWorX

60522	Tiles disappeared when zooming in MobileHMI HTML5 displays containing EarthWorX Viewers. This has been resolved.
60413	Resolved a leak in the EarthWorX control that could cause displays with an EarthWorX Viewer to never load.

Facility AnalytiX Viewer

54187	Added the Event Bar Chart into the HTML5 Facility AnalytiX Viewer.
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General

35933	Resolved an issue where clients could not connect to servers where the HTTP binding was removed, leaving only HTTPS.
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42536	Added the ability to write to process points that use the "StateField" property.
58231	The application menu button has been resized in the MobileHMI Android app.
58742	The toformatculture expression defaulted to the indeterminate currency symbol when in HTML5, regardless of the system settings. This has been resolved.
59482	Heatmaps in the Universal Windows Platform (UWP) now support surface charts.
60008 60015 60265	Resolved various issues that could cause incorrect information in tooltips.
60543	Resolved an issue that could cause an AnyGlass display to make several attempts to load.

GraphWorX64

37832	A dropdown date/time picker is now available when writing to date/time process points.
44122	Implemented support for drag and drop in AnyGlass displays.
57355	HTML5 Smart Pins now support the NoZoom property.
58058	Resolved issues with the underline text format getting stripped out from .gdfxp files.
59067 60631	Resolved an issue that would prevent the StartCap or StopCap parameters from being properly applied to a pipe control.
59273	Resolved an issue in writing to process points with a classic border.
59480	Resolved an issue that could cause the margins on ViewBox objects to not render correctly. Also resolved an issue that could cause right-aligned labels to not properly render.
57232	Resolved a collisions of properties when Smart Properties shared a name with other GraphWorX64 properties.
59867	Resolved an issue that could cause an AnyGlass application to suddenly go back to the home page. When this occurred, the logs would show a NullReference exception.

59905	AnyGlass displays now obey the default view when they are loaded.
60131	Resolved a "File not found" error message that could occur when using a global alias in the Source property of a GraphWorX64 Viewer, and the alias was resolving as blank.
60236	The context menu can now able to be hidden, based on the "ShowContextMenu" property of the base GraphWorX64 display.
60284	Resolved a memory leak in the AnyGlass server (w3wp.exe).
60294	Resolved an issue with the Display Back and Display Forward buttons executed inside an embedded GraphWorX64 Viewer control.
60526	Resolved an error in the measurement of the scroll panel that could cause the scroll bar to overlap content.
60613	Resolved an issue that would cause the SetView pick action to not work when InitialClick was set to true.
60762	Resolved an issue that would cause parts of Smart Tiles to not render global colors correctly.
60909	The value in a data entry process point is no longer written when the field loses focus. The user has to press Enter or Tab. This is now consistent with WPF GraphWorX64.
60940	Resolved an issue where AnyGlass display could get stuck in a reload loop if the color dynamic had NULL for the start color.
60947	Resolved an issue that would cause HTML5 displays to reload without the global aliases in their URL path.
61034	Added support for extremely large font sizes (e.g. 600 pt.).

GridWorX

39270	Added support for runtime filtering into the HTML5 and Universal Windows Platform GridWorX Viewer.
59942	
54273	HTML5 now supports the "Apply" and "Discard" commands for GridWorX Viewers.
57138	"Label Color" and "Label Formats" in Pie Charts now render more consistently with the WPF GridWorX Viewer.
58910	Resolved issues with conditional formatting for HTML5 GridWorX Viewers.
59033	Resolved a crash that could occur when unloading a display containing a GridWorX Viewer.

KPIWorX

54822	The column and mappings in the widget configure dialog can now be reordered.
57965	Map symbols in KPIWorX charts now support filtration, selection, and link interaction modes.
57967	Added a "Hide filtered out" option in the filter property grid.
57970	Minimum page size of KPIWorX Tables has been changed to 1.
58381	Added high, low, and critical limits to the gauge symbol.
58455	Added scale and precision support to gauges.
58585	The tooltip now shows the names of months, rather than their number, after chart drill down.
58631	Implemented tooltips over column mappings that show the name of the table, column, and used aggregate.
58647	Heatmaps in AnyGlass and KPIWorX now support sample markers.
59317	Resolved an issue that could cause the "Sort By" list to only list the last data series dropped onto a widget.
59795	Resolved an "Object reference not set to an instance of an object" error that could occur when a KPIWorX dashboard was saved with visibility other than "Private" or "Public" (i.e. to a group of users).
59847	KPIWorX labels now support Digit Grouping.
59862	The URL generated by the "Share" action could fail to load in a browser. This has been resolved.
59927	Filtering did not function properly when the selected string contained a backslash. This has been resolved.
60270	Resolved an issue that could cause symbols to appear as if they were still in Configure Mode when the display was in Presentation Mode.

ScheduleWorX64

59233	Added a button to allow the user to change the data type of the entire schedule for HTML5 clients. This functionality was already available in WPF and Silverlight.
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Security

58427	The login dialog's "User Name" and "Password" labels now respect the "Foreground" property in HTML5.
58829	Added the ability to change security password from HTML5.

TrendWorX64

52891	An incorrect connection status of "Not all data is visible, because the buffer is too small" was displayed when Summary View was viewed in TrendWorX64 Viewer in HTML5. This has been resolved.
55949	Resolved a crash in the Universal Windows Platform app that would occur when loading a display with a TrendWorX64 Viewer that had no pens.
58018	The setting of TrendWorX64 cursor visibility was ignored and tooltips were always visible when moving with the cursor. This has been resolved.
59479	TrendWorX64 Viewer did not render in AnyGlass HTML5 when it was sized very small. This has been resolved.
59654	The "Show invalid and disabled pens" option is now properly respected in the HTML5 TrendWorX64 Viewer.
59519	Resolved an issue that would cause the automatic Y-range to use 0-100 on initial load, regardless of the pen values.
59651	Resolved an issue where data could not be exported from pens that used global aliases.
59959	Resolved an issue that could cause the description to fail to appear in the tooltip when the pen used global aliases.
59961	When the Y-axis was clicked on in order to open the "Scales" popup, it would open, but if the configuration of TrendWorX64 was changed by loading a configuration file, the popup would not work. This has been resolved.
60102	Extended Unicode characters would be replaced by "?" when exporting data. This has been resolved.
60578	TrendWorX64 Viewer now keeps its original width, height, and commanding-related properties after loading a .twxxp file.
60635	When changing the font size for the legend of the TrendWorX64 Viewer, the column titles would pick up the new font size, but not the rows themselves. This has been resolved.
60653	A TrendWorX64 Viewer configured to not be visible (unchecked the "eye" icon) would still be visible in AnyGlass. This has been resolved.
60877	Resolved an issue that could cause trends to not populate correctly in HTML5. The data will be loaded, but the pen will not be plotted. This was most often associated with pens generated using global aliases.

60880	Resolved an issue where the X-axis did not update properly when different TrendWorX64 Viewers were using the same axis.
60945	Resolved a crash that could occur when executing the Set Time Range pick action for an HTML5 TrendWorX64 Viewer.

Known Issues

- In ReportWorX Express, if both the body row and the anchor row of a custom column have different formulas, the formula in anchor will be overridden by the formula in the body [61246].
- When using data cached in the Data Flow configuration, users may experience an issue where a new Data Flow using points in a previously configured Data Flow may not contain the most recent values. This does not influence runtime operations and is an issue with the Data Flow preview only. Data can be forced to refresh by closing and reopening workbench [60847]."
- Users who wish to secure their IoTWorX Visualizer should disable "Anonymous Authentication" to the AnyGlass website. To do so, open IIS Manager on the device, browse to the AnyGlass application, double click on "Authentication", and disable "Anonymous Authentication". Subsequent connections to IoTWorX Visualizer will require users to enter valid login credentials [60486].
- Project Reporting is not compatible with SQL 2017 [59051].
- There is a known issue with HTML5 pages running in Internet Explorer where the "now()" & "currentdatetime()" functions will resolve with the server time instead of the client time. This is caused by Internet Explorer's failure to provide the client timestamp. Browsers that support getting the client timestamp will not have this issue. [58218]
- AlarmWorX64 Multimedia phone agent alarm subscription is not supported in this release. If this feature is needed, check with Tech Support or check the Customer Connection portal for a post 10.95 update [56485].
- There is a known issue with the OPC UA Local Discovery Server where its installation could hang and never finish. If this occurs, the user may need to manually kill the related TiWorker process. Usually a second attempt to install this prerequisite proceeds correctly [45584].
- There is a known Workbench issue where the user may not be able to replace a tag when a form is maximized. To work around this, the user can drag and drop the tag, manually enter, or copy and paste it [55389].
- There is a known issue where the symbol library will not function correctly after uninstalling and reinstalling on another drive. The workaround for this issue is to delete all instances of the Gwx.UserSettings.SymbolLibrary.xml" file located within the user's IsolatedStorage folder upon a re-install of GENESIS64/MobileHMI. The

IsolatedStorage folder is located in: C:\Users\<username>\AppData\Local [42271].

- Due to a license performance enhancement, it is advised to restart the license service and FrameWorX services after applying a new license. Alternatively the end user can reboot the PC [39489].
- There is a known issue that may prevent Energy AnalytiX and Facility AnalytiX Viewers from functioning properly in PortalWorX-SP, showing download stuck on 100%.
- In the Energy AnalytiX Viewer, if no data is being shown, the user should make sure to enable the CLRIntegration feature in SQL Server (56446).
- When using the AlarmWorX64 Multimedia phone agent, the user may experience an issue where the call is not made. To resolve this issue, the user may need to delete from MMXCall_In service and change the DCOM settings to run MMXCall_In as interactive user [46086].
- There is a known issue that could prevent SQL from automatically starting, in turn preventing GENESIS64 from starting. A user can launch SQL manually, allowing GENESIS64 to start properly. Alternatively, a user can modify the registry to increase the default time-out value for the service control manager. To increase this value to at least 60 seconds, click Start, click Run, type regedit, and then click OK. Locate and then click the following registry subkey:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control. In the right pane, locate the ServicesPipeTimeout entry. Note, if the ServicesPipeTimeout entry does not exist, the user must create it. To do this, select New on the Edit menu and then click DWORD Value. Type ServicesPipeTimeout, and then press ENTER. Right-click ServicesPipeTimeout, and then click Modify. Click "Decimal", type 60000, and then click OK. This value represents the time in milliseconds before a service times out. Restart the computer [45915].
- There is a known issue that may cause the TrendWorX32 Logger configurator to become unable to connect to the TrendWorX Logger Engine when running GENESIS32 and GENESIS64 together and after uninstalling GENESIS64. A re-registration of the TrendWorX32 Logger will mitigate this issue [46650].
- There is a known issue in the FwxGenClientService when running an AlarmWorX64 Viewer through HTML5 that may cause a memory leak.
- There is a known issue with ReportWorX 365. When running ReportWorX 365, the user will most likely will do this by opening Microsoft Excel and inserting the

ReportWorX 365 App from the Microsoft Store. When subsequently trying to connect to a local Server for data, the connection will likely fail because the ReportWorX 365 App will require an https connection to the local Server, and out-of-the-box, ReportWorX 365 is not setting up https to a local Server. (By default it uses http). In order to setup an https connection to a local server, the following steps can be taken:

- 1) Run the "InstCert" batch file with elevated (Administrator) privileges.
 - a) This batch file can be found in the folder: C:\Program Files\ICONICS\GENESIS64
 - b) It has two options for usage:
 - i) "-I" for install, "-u" for uninstall
 - ii) Port number
 - c) An example would be:
(Win Key -> "cmd" (no quotes) -> right click -> Run as Administrator)
C:\Program Files\ICONICS\GENESIS64\InstCert>ODataCert -i 443
This creates a local trusted SSL certificate and binds it to port 443. The port is configurable and can be set to anything. To uninstall and unbind the certificate the command is:

C:\Program Files\ICONICS\GENESIS64\InstCert>ODataCert -u
- 2) Once the certificate is set up and bound, launch the Platform Services Configuration Utility:
 - a) Under Point Managers -> OData Connector Point Manager, change the endpoint machine name, protocol and port.
 - b) Please note that the certificate is generated with the machine name, so the actual machine name will have to be used (instead of localhost)
- 3) Once the changes are applied, the ICONICS OData Connector Point Manager service needs to be restarted. After that, ReportWorX 365 will be able to retrieve data from the local data sources.



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