

ICONICS v10.95.5

Resolved Issues – ICONICS Suite

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AnalytiX

AnalytiX-BI

61536	JSON parsing step would sometimes duplicates rows. This has been resolved.
65186	When new Quality AnalytiX Histogram step is created (Data Sources > AnalytiX > Quality AnalytiX > Quality Histogram or Quality Chart), it wouldn't detect SPC Hyper Historian tag correctly. This has been resolved but note that for Quality Chart you must browse for the "Average" item under the SPC tag, whereas for Quality Histogram you need the "Statistics" item. Also note that the correct configuration of the SPC tag is necessary to be able to retrieve data from the dataflow.
67113	Configuring a dataflow with certain series of steps could create an incorrect serialized version which persists in the configuration database, preventing Workbench from loading the dataflow again. This has been resolved.
67120	Aggregates were not properly computed (returning incorrect results) when running with no GROUP BY and the column has NULL values. This has been resolved.
67128	Resolved an issue causing incorrect results from a query that requested an aggregate and a WHERE on the same column, when the column was coming from a view.
67461	Queries might fail if joining tables and views and attempting to use expressions with variable references to both the table and the view. This has been resolved.
67462	Added a new ISNULL function, which is defined as follows: ISNULL(column name, default value) [AS alias] The function evaluates for all the rows in the column and the result is the column value, if the value is not NULL, otherwise the specified default value. The default value cannot be an expression and must be either a Boolean literal, a string literal or a number. The ISNULL function has the following limitations: 1. Can only be used in the SELECT list 2. Cannot be used inside an aggregate function (i.e.: SUM(ISNULL(col, default)) is not supported) As a workaround for the previous limitations, a view can be created to apply the ISNULL function and then a query (or other view) can apply the aggregate. For example:

	view SELECT ISNULL(col, 0) AS mycol query SELECT SUM(view.mycol) AS sum
67466	Column names can now start with a number.
67469	Using count() in a BI query did not return 0 if the resultset was empty (such as when the WHERE clause causes the query to return no results). This has been resolved.
67665	Subscribing to a single column dataset process point can now return the entire column as an array. Example single-column dataset points: bi:Models:Northwind.Categories.CategoryID bi:Models:Northwind(SELECT Categories.CategoryID) bi:Models:Northwind(SELECT Categories.CategoryID, Categories.CategoryName)[1] bi:Models:Northwind(SELECT Categories.CategoryID, Categories.CategoryName)[CategoryName] For backwards compatibility, this functionality is disabled by default. To enable it, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "BiPointManager". In the <Params> section under it, add these lines: <pre><Param> <Name>EnableArraySubscription</Name> <Value xsi:type="xsd:boolean">true</Value> </Param></pre> Once the config file has been edited, this value can be changed by modifying the EnableArraySubscription parameter under Platform Services Configuration -> Point Managers tab -> BI Server Point Manager. This functionality has also been added for the GridWorX and Web Services point managers. Refer to IDs 67663 and 67664.
67961	Dataflow parameters can now be used in Add Column and Transform Column steps.

67975	The GridWorX Point Builder data flow step was not properly passing parameters through from previous steps to subsequent steps. This could make it appear that parameters in the subsequent steps were not working.
68112	Resolved some issues with DateTime columns when used as primary keys. These issues happened most often and when the data had more than 16384 rows, or data was merged into the table at a later time. The issues would most often result in erroneous query results.
68238	If a BI table is configured with its primary key column(s) being selected after a dimension column, refresh triggers with a type of "merge" will fail.
68404	Occasionally the DA Reader and Historical Reader steps in a dataflow could return values of a different type than what was reported from the schema. This could lead to a "Specified Cast is not valid" error while loading data into the BI table. This has been resolved.

BridgeWorX64 & Workflows

65582	Previous update packs could erase custom transactions by overwriting the ActivityDefinition.xml file. Update Pack 5 does not replace this file, preserving custom transactions.
65902	When using SQL Server security for the custom logging database, the login would always fail. The password was encrypted when stored but not decrypted before it was used. This has been resolved.
67065	If you set up a parameter on a transaction template to be of type Boolean, when you passed the value to the transaction as part of the Execute command such as: <code>bwx:MyTransaction/@@Execute<@Param=1></code> The parameter value would show as null when used in an activity. This has been resolved.
67115	The CSV Import block now works properly when the CSV file is using the semicolon as the column separator.
67135	Resolved an issue that would cause BridgeWorX64 or Workflow tags like @@LastExecuted and @@LastExecutionInterval to show different values if they were polled at different scan rates.
67176	Added new JSON reader block.
67229	For blocks that had a data schema in the output, when adding columns into the data schema the new columns could appear in such a way that they were not immediately visible in the grid, and scrolling did not reveal them. This has been resolved.

67325	When configuring a file transfer block with a source of "FTP Server", the "Source Files" property did not appear. Without having the Source Files configured, the FTP transfer would fail with an exception of, "The path is not of a legal form." This has been resolved - the Source Files property now appears when the source is "FTP Server".
67338	The Override Gas option on the Transaction Execution tab would not actually override the aliases used in the transaction. This has been resolved.
67339 67340	The Historical Input and Historical Alarms Input blocks now allow dynamic start and end times.
67343	With a multi-column local variable, writing to a nonexistent column would incorrectly write the value to one of the existing columns. Now, BridgeWorX64 correctly reports a "column not found" error and does not do the write.
67545 67548	Transaction blocks can now accept timeouts of up to 864000000 milliseconds (10 days). The previous limit was 100 seconds.
67626 67183	Added these expression functions for use in Workflows and BridgeWorX64 transactions: • getoutputrow (string activityName, int rowIndex) - Return an array containing scalar values from all columns of specified row. • findoutputrow (string activityName, string rowFilter) - Return an array containing scalar values from all columns of the first row that matches a filtering condition (the syntax of rowFilter should be the same as that of ADO.NET DataTable view rows filtering). • findoutputrowindex (string activityName, string rowFilter) - Return an integer index of the first row that matches a filtering condition or (-1) if no matching rows found.

Energy AnalytiX

67077	If a rate model was switched from static to dynamic (such as a GridWorX tag), the rate model value may not be logged correctly. This has been resolved.
67127	Resolved an issue with the Advanced Analysis chart in the Energy AnalytiX Viewer that could cause it to fail to display data. The chart would display a message about no data. Existing and re-entering runtime or refreshing the data repeatedly could sometimes cause it to show data. This issue may have also been seen in the GridWorX Viewer when displaying data coming from the Energy AnalytiX server.

Facility AnalytiX & FDDWorX

65307	When a fault occurred, if the fault cost value expression failed to resolve, an exception error message would be logged as if it were the resulting value. This has been updated to log an empty string instead. Logging an empty string in this fashion prevents issues if you are consuming the results in another application that expects a certain data type, such as float. The exception information of the failed expression can still be found in TraceWorX.
67341	Resolved an issue that would cause the FDD Viewer to not display faults on equipment coming from an external link within a distributed AssetWorX architecture.

ReportWorX64 & ReportWorX Express

67496	Datetime parameters could sometimes be resolved improperly when dealing with daylight savings changes. This issue has been fixed.
67500	Resolved an issue with manual parameters whose default value was a tag. This problem could cause reports to fail to generate from Workbench or not be visible when browsing using the Report Manager.
67503	If parameters were used in more than 100 cells on a sheet, only the parameters in the first 100 cells would resolve. This issue has been fixed.
67578	The ReportWorX Viewer control can now be a target of the Refresh command.
68026	ReportWorX now allows a wider variety of aggregates, such as EndBound.

Data Connectivity

BACnet

60511 68370	Enhanced the error message that appears when Workbench cannot save BDT table records because the BACnet point manager is not running.
67039	The BACnet EDE Generator utility now has an "Unselect All" button.
67137	Resolved a rare issue that could case BACnet runtime to not receive any BACnet alarms.
67245 67326 67497	Added support for architectures where there are more networks behind a router, where a BACnet device is also a router one or more one networks. To support this, a new "Router Static Binding" option was added to the device. For BACnet devices that are routers to one or more one networks, check this option, then fill in the "Router to Networks" field with the network ID(s) behind the device (comma-separated if more than one), and fill "First Router MAC (hex)" with the MAC address of the first router that would be encountered when communicating with devices on the specified network(s).
67498	BACnet devices with a system status of "Operational_Read_Only" are now displayed as online in Workbench. Previously, only "Operational" devices showed as online, and "Operational_Read_Only" devices showed as offline. These "Operational_Read_Only" devices could always be successfully discovered, even before this update.
67505	Resolved an issue that could cause the BACnet Runtime to use an incorrect Device ID, different than the one configured in the database for that device. This issue would only happen on some restarts of BACnet Runtime, and only when there was configured a BACnet port.
67513	When the automatic service type was used and there was an issue with COV subscribe, BACnet Runtime didn't properly fallback to read property multiple or read property services. This meant no data could be read for those points. This has been resolved.

GridWorX

Server

67059	Resolved an issue in the GridWorX server that could cause it to stop returning values. This would occur when a large dataset was being queried for some time (long enough to fill the cache), and a query that should return zero rows was executed against that large dataset. The problem would affect all of GridWorX, not just the large dataset that triggered the issue.
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67464	Users can now alter the scheduler granularity of the GridWorX point manager. Speeding up this value can result in faster responses from GridWorX at the cost of higher CPU usage. To change this value, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "GdxPointManager". In the <Params> section under it, add these lines: <pre><Param> <Name>SchedulerGranularityMsec</Name> <Value xsi:type="xsd:int">1000</Value> </Param></pre> Set the value as desired. The default is 1000 ms. Note that setting this parameter to very small values (100 ms or less) might cause high CPU and performance issues in GridWorX. Once the config file has been edited, this value can be changed by modifying the SchedulerGranularityMsec parameter under Platform Services Configuration -> Point Managers tab -> GridWorX Point Manager.
67661	Added the ability to disable the auto-refresh of GridWorX Viewers after writing to the @@Refresh tag for a data source. Disabling this functionality returns the @@Refresh tag to the way it behaved prior to version 10.95, where users will have to manually refresh the viewer to see updates after writing to the @@Refresh tag. To disable the viewer's auto-refresh, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "GdxPointManager". In the <Params> section under it, add these lines: <pre><Param> <Name>DisableGridClientRefreshSignaling</Name> <Value xsi:type="xsd:boolean">true</Value> </Param></pre> Once the config file has been edited, this value can be changed by modifying the DisableGridClientRefreshSignaling parameter under Platform Services Configuration -> Point Managers tab -> GridWorX Point Manager.
67663	Subscribing to a single column dataset process point (for example: db:Northwind.Categories[CategoryID]) can now return the entire column as an array.

	For backwards compatibility, this functionality is disabled by default. To enable it, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "GdxPointManager". In the <Params> section under it, add these lines: <pre><Param> <Name>EnableArraySubscription</Name> <Value xsi:type="xsd:boolean">true</Value> </Param></pre> Once the config file has been edited, this value can be changed by modifying the EnableArraySubscription parameter under Platform Services Configuration -> Point Managers tab -> GridWorX Point Manager. This functionality has also been added for the Web Services and BI Server point managers. Refer to IDs 67664 and 67665.
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Viewer

66890	Resolved a timing issue that could result in all items in the context menu of the AlarmWorX64 or GridWorX Viewer showing as disabled (grayed out). This could happen at any time, but most often happened if there were many viewers with many grids on the display. It also happened more often with WPF WebHMI displays running in Internet Explorer but could also happen in full GraphWorX64. HTML5 displays were not affected.
67117	Resolved an issue with ExcelML export when the system was set to non-US culture settings. ExcelML expected invariant culture, but the export was using local culture settings, which could cause Excel to treat numbers as strings if they had a comma as the decimal separator. GridWorX Viewer now exports invariant culture, as expected by Excel. Note that Excel will convert the invariant culture to local culture, so resulting files are still shown in local culture, as the user would expect.
67328	Exporting a dataset with only a single column gave a "Dataset does not support System.Nullable<>" error. This has been resolved.
67509	When changing the data source of a series in a GridWorX Viewer to a source that had different columns, the data layer was not updated correctly. This could cause odd issues, including a crash (ArgumentOutOfRangeException) when clicking on commanding URLs built with dynamic data from the data source. This issue has been resolved.
67539	Fill color for GridWorX markers and bar charts can now be updated in runtime via scripting.

67543	When using the new SelectEntireRow and SelectionCommandColumnKey options to execute a command on a row selection, the command would be executed twice per click. This has been resolved.
67574	Filters applied from the dropdown box on a header now properly apply to the data when it is exported.
67625	Data export now respects language and culture settings for dates. Previously it always exported using US date/time format.
67649	Virtual fields were being exported with blank values. This has been resolved.
68164	Resolved an issue with the color theme, where the corner square between the horizontal and vertical scroll bars was not accepting the theme color.
68249	Resolved a memory leak in the AlarmWorX64, GridWorX, and TrendWorX64 Viewers that could occur when launching a popup that contained a hidden one of these controls, then closing the popup without ever revealing the control.

Workbench Provider

67054	Resolved an issue in the Hyper Historian provider of Workbench that could prevent saving an aggregated tag with a custom sampling rate. The user could enter the appropriate settings, but they were not saved to the database and would disappear after hitting "Apply".
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Modbus Point Manager

67134	Writing a 1 or True a tag configured as "Use single coil write" now sends a value of 0xFF00, per Modbus specifications. Previously a value of 0x00FF was incorrectly sent, and some devices would refuse the write, causing a "failed to write" error.
67601	Modbus Unit IDs can now be specified with any number from 0-255.

OPC UA

67175	Classic OPC DA updates with a quality of "Bad - Last Known Value" previously would be converted to OPC UA updates of "Bad", and the value would be discarded. Now they are converted to "BadUncertain" and include the value.
67345	By default, for secure OPC UA connections, FrameWorX verifies that the domain name provided in a certificate matches the OPC UA endpoint. There is now an option to disable this certificate domain checking in case of situations where the certificate cannot be re-generated, or for some reason the OPC UA server is generating an incorrect domain name.

	Users are encouraged to disable this check as a last resort, as this makes the connection less secure. Also be advised that disabling this check disables it for all secure OPC UA connections configured on this FrameWorX server. (Note that in version 10.96 this will be configurable for specific OPC UA servers.) Domain checking can be disabled by editing \GENESIS64\Components\FwxServer.PointManagers.config. Search for "FwxServerOuterUa". In the <Params> section under it, add these lines: <pre><Param> <Name>DisableDomainCheck</Name> <Value xsi:type="xsd:Boolean">true</Value> </Param></pre> Once the config file has been edited, this value can be changed by modifying the DisableDomainCheck parameter under Platform Services Configuration -> Point Managers tab -> OPC UA.
67347	Resolved a rare crash that could occur when an OPC UA Server or custom point manager was sending an improper type for either AccessLevel or UserAccessLevel attribute. The client application was where the crash would occur (most often GraphWorX64).
67381	Resolved an issue that could prevent some language aliasing custom unit conversions to stop working. The value would appear as "Bad" with details of "Data Error: Bad".
67859	Added an advanced debugging feature to the FrameWorX Server module in TraceWorX known as "Focused Point". Focused Point allows you to specify a point (or part of a point name) and a trace level. TraceWorX will then record at the specified trace level every request, response, or update from point that contain that string. This feature may cause excessive logging, possibly slowing down FrameWorX on a system, and should only be used sparingly. Users are highly encouraged to remove the Focused Points and disable TraceWorX for FrameWorX Server as soon as they are done troubleshooting. To configure this feature, edit FwxAsyncServer.config.xml in Program Files\ICONICS\GENESIS64\Components. Look for these lines: <pre><!-- Debugging --> <FocusedPoint> </FocusedPoint> <FocusedPointTraceLevel>900</FocusedPointTraceLevel></pre>

	Add the name (or part of the name) of the tag you would like to trace in FocusedPoint. Save the file, restart FrameWorX, then enable TraceWorX for the FrameWorX Server module to the specified trace level. Note that any tag containing this string will be traced, so to avoid over-tracing users are encouraged to use as specific of a string as possible. Remember to disable TraceWorX by setting the trace level to "none" when you are finished troubleshooting.
68565	The FrameWorX OPC UA username and password fields were not respected by the FrameWorX OPC UA Client for connecting to secure OPC UA servers. This would result in an error such as, "ServiceResultException : Endpoint does not supported the user identity type provided." This has been resolved.

SNMP

67014	Improved the loading speed of the data browser when enumerating OPC Classic or OPC UA servers under Data Connectivity > OPC Data Access, Data Connectivity > OPC UA, Alarms and Notifications, and Historical Data.
67512 67544	The SNMP point manager now allows multiple SNMP devices with the same IP address but different ports. Previously the IP address had to be unique.

Web Services

67273	Resolved an unhandled exception or crash that could occur when creating a new REST service and typing into the URL field of the Proxy Server section.
67321	Certain web services could not be configured in the Web Services point manager because the schema would not load. This happened with services that were sending a Byte Order Mark (BOM) in their response. This has been resolved.
67463	The Rate Limiter for REST Web Services did not truly limit the call rate. This has been resolved.
67465	Web Service points requested with a nonexistent path returned an empty variant with good quality. Now they return BadUnexpectedError.
67467	Web Services can now parse XML responses. Supported content types are application/xml, application/rss+xml, application/atom+xml, application/soap+xml, text/xml.
67468	When translating XML to JSON, Web Services will now interpret elements having the nil attribute set to true as NULL values. Previously the xsi:nil element was simply added as a column with a value of true.

67664	Subscribing to a single column dataset process point (for example: ws:Sample Web Services.National Weather Service.Current Conditions<@stationid=KBOS>.cloudLayers) can now return the entire column as an array. For backwards compatibility, this functionality is disabled by default. To enable it, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "FwxWebServicesPointManager". In the <Params> section under it, add these lines: <pre><Param> <Name>EnableArraySubscription</Name> <Value xsi:type="xsd:boolean">true</Value> </Param></pre> Once the config file has been edited, this value can be changed by modifying the EnableArraySubscription parameter under Platform Services Configuration -> Point Managers tab -> Web Services Point Manager. This functionality has also been added for the GridWorX and BI Server point managers. Refer to IDs 67663 and 67665.
67898	On SOAP web methods, for xs:choice parameters that are represented as type "object" it is now possible to pass the desired data type in the JSON representing the object. The data type is specified via the special property <code>__type</code> (note, there are two underscores), for example: <pre>{ "__type": "TypeOne", "ItemOne": "X", "DateTwo": "2019-03-18" }</pre>

GENESIS64

AlarmWorX64

Logger

65418	Resolved an issue that could cause the AlarmWorX64 Logger to fail to archive if the archive tables were created with an earlier version of the logger.
67026	Resolved an issue that could generate incorrect Rate of Change alarms when dynamically changing the Enabled property of an alarm tag.
67090	Improved the speed of retrieving historical alarm data when requested by a client.
67111	Resolved factors causing slow alarm history replay from a pair of redundant SQL Server logging databases when one of the databases was offline.
67597	When using a dual-database redundancy scenario, the secondary database will now be properly archived. Previously, the secondary database would only be archived when the secondary logger was active.
67696	Resolved an issue that could cause the secondary alarm logger to fail to log alarms when it was active.
67997	Occasionally when failing over, logged data would be lost. This happened when store and forward files already existed before the failover. This has been resolved.

Logger Workbench Provider

67095	Resolved some scaling issues with the AlarmWorX64 Logger's logging database selection dialog that would occur when the operating system display scaling was set to something more than 100% (common with 4k monitors).
67502	Resolved an issue with the AlarmWorX64 Logger export/import, where exporting any level that contained an alarm subscription with attached attributes would re-arrange them and insert null values at random places when they were imported.

Server

67984	Alarms with a configured delay could not be acknowledged while the delay was running. This has been resolved.
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Server Workbench Provider

67025	Sometimes when importing alarms that used templates and then attempting to make changes to those alarms, the user could not click on "Apply". Fields that should've been supplied by the template were being incorrectly detected as overridden, yet with no value. Workbench flagged these as required inputs and would not enable the Apply button. This has been resolved.
67495	Resolved an issue that could occur when importing certain valid import files into a brand new AlarmWorX64 Server database, causing no items to be imported (they would show as "failed" or "ignored").

Viewer

66890	Resolved a timing issue that could result in all items in the context menu of the AlarmWorX64 or GridWorX Viewer showing as disabled (grayed out). This could happen at any time, but most often happened if there were many viewers with many grids on the display. It also happened more often with WPF WebHMI displays running in Internet Explorer but could also happen in full GraphWorX64. HTML5 displays were not affected.
67081	Resolved an issue that would sometimes cause alarms to not be sorted properly. This happened most often when there were many alarms generated at once and refreshing the display would usually make them sort properly.
67538	Resolved a memory leak in the AlarmWorX64 Viewer that could occur with a very large number of alarm changes per second (around 4000).
68249	Resolved a memory leak in the AlarmWorX64, GridWorX, and TrendWorX64 Viewers that could occur when launching a popup that contained a hidden one of these controls, then closing the popup without ever revealing the control.

AlarmWorX64 Multimedia

67028	If more than one alarm was sent to the pager agent at one time, only two of those alarms were able to be acknowledged via response pages. This has been resolved.
67056	Only alarms coming from a local subscription could be acknowledged via the pager agent. This has been resolved.
67060	Resolved a documented known issue in 10.95 Update 4 where the AlarmWorX64 Multimedia's Unicode pager no longer worked. Pages would receive this error: "Error: 36114 Error while waiting for the prompt to send SMS data." The regular Non-Unicode pager (which is registered by default) was not affected. (This was documented with reference number 64556 in 10.95 Update 4's release documentation.)

Workbench Provider

65959	The Unicode pager test button would return a "License code is invalid" error. This has been resolved.
67342	Changes to an AlarmWorX64 MMX configuration are now recorded in the audit log and GenEvent.

AlertWorX

66798	Enhanced AlertWorX email address validation so it accepts top level domains
66799	(such as .com and .edu) that are longer than four characters.

AssetWorX

66993	Resolved an issue where disabled equipment would incorrectly still count towards .ChildEquipmentCount of the parent.
67064	When instantiating equipment from an equipment class, occasionally the equipment properties would end up under the wrong equipment. This has been resolved.
67277	Resolved an issue that could cause the value of a cached equipment property to be periodically cleared after clicking the "Clear cached value" button, even though the button was only pressed one time.
67337	Resolved a rare issue when using datasets in AssetWorX. When the issue occurred, the AssetWorX service would suddenly begin using a lot of CPU and memory and would stop being able to return data for points that were not already subscribed before the issue occurred. Restarting the service would return AssetWorX to a functional state.
67532	Importing an equipment class that was in a folder that did not previously exist would create the folder with illegal bracket characters in the name (such as "[Folder]"). This has been resolved.

Asset Navigator

66997	In version 10.90, if you use the Select Asset command on the same asset twice, the default command on the asset would also fire twice. In version 10.95, the behavior changed such that the default command would only be fired if the asset was not already selected (i.e. only when the asset went from deselected to selected). In Update 5, this has been changed to be more consistent with 10.90 behavior. The Select Asset command will trigger the default command on the asset, even if the asset was already selected.
67131	Resolved an issue with the Select Asset command when ExecuteCommands was set to Specific and the target Asset Navigator had Multiselect enabled. The specific command would not be executed. This was fixed for both the desktop (WPF) and HTML5 versions of the Asset Navigator.

67354	Resolved various issues with interacting with the Asset Navigator on touch screens.
68268	Added a new "Read Default Command" property in the Controls > Selected Asset section of the AssetWorX Navigator configuration. Setting this property to false will prevent default commands from being executed when the selected asset changes due to the tag specified in Selected Asset > Data Source.

Workbench Provider

67057	Improved the speed of import, especially for the AssetWorX provider.
67393	In the AssetWorX provider, expressions could not be used in the OpenURL command because they were incorrectly detected as invalid URLs. This has been resolved - expressions can now be added as URLs in the OpenURL command.

Data Explorer

67323	When the Data Explorer was embedded in a GraphWorX64 display, negative values could not be shown or written for Low and High limit properties on BACnet objects. This has been resolved. The issue only appeared when the displays were viewed in desktop mode (the GraphWorX64 desktop application or viewed in WPF WebHMI). HTML5 displays worked fine.
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GraphWorX64

66794	Hidden group containing paths or polygons could not be successfully copied from one display to another. Point coordinates for the polygons or paths would be lost, causing the group to not display, even when set to be visible. Opening the display in HTML5 would result in a "Display parsing error." This has been resolved. Copying new hidden groups will not cause new issues, however any groups that were already copied before this fix will remain broken. Please delete and re-copy or recreate these groups.
67063	Resolved an issue that could cause the parent GraphWorX64 window to lose focus when a popup window was closed. This only occurred when running a WPF display in Internet Explorer. HTML5 displays were not affected.
67092	Resolved an issue that could cause certain AutoCAD drawings to get this error message on import: "Specified cast is not valid." This issue only occurred with 10.95 Update 4, not 10.95 Update 3 or earlier.
67123	When an object with a shared keyword is within a viewbox, updating the shared keyword will throw this error when trying to update said item: "This object can only contain one child. Consider grouping multiple objects first and then inserting the single group into this object." This has been resolved.

67317	Duplicating or copying a smart symbol that used global colors for default values would cause the duplicate to lose its link to the color after the GraphWorX64 display was closed and reopened. This has been resolved.
67327	Resolved a rare crash in Statefield dynamic that could occur when loading a display.
67430	GraphWorX64 window sizes now respect the scaling factor of set in the operating system. (Example: Opening a popup with the width set to 600 pixels while the scaling factor is set to 200% will actually create a popup that is 1200 pixels wide.)
67460	If an embedded window loaded a new display that had RuntimeWindowProperties > OverridePreviousDisplay set to true and local or global aliases in RuntimeWindowProperties > Text, the aliases would not be properly resolved. This has been fixed.
67576	A referenced image with no source that has been rotated may have had problems with its positioning. This could result in the object not being drawn exactly where desired, especially when duplicating the object or using the "update shared" feature. This issue has been solved.
68214	The ZoomToObject option of the Set View pick action would not zoom to the configured object under certain conditions. This has been resolved.
68372	An issue occurred when display caching was enabled and the user reloaded the same display that was already loaded (such as when loading the same display with different aliases). The display would be reloaded from disk, rather than reusing the cached copy of the display (which resulted in noticeably slower loading). This issue also produced a memory leak. These issues have been resolved.

3D Viewport

67029	When the ReleaseOutOfViewData property is set on the Canvas object, if the user zoomed into an object in a 3D Viewer far enough that the object fell out of view, their data source would be released correctly, but would not be re-subscribed when the view zoomed out again to bring the object back into view. This has been resolved.
67162	When an object in the 3D space has a dynamic, the dynamic did not resolve in runtime if there was a layer on the display that had Visible set to false. The 3D viewer did not have to be on this layer for the issue to occur. This has been fixed.

67471	Added the ability to change the FollowedObject and LookAtObject properties of a 3D viewer in runtime. To change these properties, write to these tags (change "View1" with the name of your 3D viewer object): localsim:property:view1.LookAtObject or localsim:property:view1.FollowedObject.
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Camera Control

68168	When the Camera Control was showing a JPG stream, the image would appear to be delayed by the refresh time (JpegSourceRefreshDelay, set in IcoStreamingService.exe.config). This included the first image – the control would remain black until after the configured refresh. This is especially problematic for very long JpegSourceRefreshDelays. For example, if the JpegSourceRefreshDelay was set to 60 seconds, for the first 60 seconds the control would display black, then a 60-second old image would be displayed, and 60 seconds later another 60-second old image would be displayed, etc. This issue has been resolved, but in order to solve it the JPG stream bandwidth had to be doubled. We are planning a more efficient solution for future versions.
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Heatmap

67075	Added a new weighted average aggregate (WAVg).
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Web Publishing Wizard

67581	Resolved a crash in the Web Publishing Wizard that could occur when publishing a display with a Web Browser control to HTML5 or Silverlight formats.
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ScheduleWorX64

Schedule Control

67458	Added a new property "ExcludeFwxServerQuotes" for BACnet Schedule Views and BACnet Calendar Views in the Schedule Control. This property can be found on the Advanced tab, in the BACnet View section. Set it to True if you are using a global alias value that resolves to a tag name in the FrameWorX Server Location node field.
67540	Added a new property "ExcludePathQuotes" for ScheduleWorX64 Views in the Schedule Control. This property can be found on the Advanced tab, in the Schedule Viewer Control section. Set it to True if you are using a global alias value that resolves to a tag name in the Source > Data Source field.

Workbench Provider

67459	Resolved a crash that could occur when clicking on the "Jump to ValueSet" button from a schedule. The crash occurred if the value set could not be found (such as if it had been deleted).
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TrendWorX64

Viewer

67235	Improved the load time of the TrendWorX64 Viewer.
67395	Resolved an issue where zooming would not work consistently when using a TrendWorX64 Viewers with multiple tabs.
67536	Resolved a crash (InvalidOperationException) that could occur when navigating in summary view while the TrendWorX64 Viewer was in freeze mode.
67569	Resolved an issue where the Title, as specified in the default pen axis style, was never visible.
68249	Resolved a memory leak in the AlarmWorX64, GridWorX, and TrendWorX64 Viewers that could occur when launching a popup that contained a hidden one of these controls, then closing the popup without ever revealing the control.

Hyper Historian

Logger

67035	Resolved a very rare NullReferenceException that could cause the Hyper Historian to stop logging.
67052	TraceWorX messages generated when a calculation delay is detected now identify the specific collector causing the delay.
67209	Resolved an issue with SPC distribution rules that could cause them to fail to report any sub-rule violations under certain circumstances. Note that this update will not automatically resolve errors in preexisting calculated data – recalculation will be necessary.
67324	Resolved a rare issue with aggregate recalculations that could cause extremely large HHD files, high CPU usage, and logging to stop.
67329	Resolved an issue where logging could fall behind or stop when Hyper Historian was logging tags of type char or char[].
67383	Resolved an issue that could cause Hyper Historian Express systems with the Hyper Historian Express Logger Option (which allows more than 5000 logging tags) to only log 5000 tags after a system reboot.
67451	Resolved an issue that could cause the Hyper Historian Logger service to become completely unresponsive. This could occur if Hyper Historian attempted to open a file that was already opened by another process, for example, if Hyper Historian tried to open an HHD file that was currently being scanned by antivirus software. Now, Hyper Historian will wait for a timeout period before logging a message to TraceWorX and/or GenEvent to report that the file is inaccessible. Once the file becomes available, Hyper Historian will connect to it and resume reading/writing as necessary. The new timeout durations can be customized by editing HHLoggerService.exe.config, then uncommenting and modifying these values in the <appSettings> section: <pre><!-- Logger's file transaction timeout in milliseconds, when 0 then timeout is disabled <add key="FileLogger_FileTransactionTimeoutInMS" value="120000"/> --> <!-- Logger's open/create file timeout in milliseconds, when 0 then timeout is disabled <add key="FileLogger_CreateFileTransactionTimeoutInMS" value="5000"/> --></pre>

67452	Resolved issues with Hyper Historian when HDD files had become significantly large. There would be high CPU and memory usage, data logging could fail, causing either gaps in the data or no data logged at all.
67453 67454	Resolved a rare issue that could cause performance calculations to stop processing. While Hyper Historian was in this state, recalculations would not be executed, either.
67455	Added support for tracing datasets using extended point tracing. (See knowledgebase article KB-3225 about how to enable extended point tracing.)
67603	In Workbench under Configure Application(s) Settings, the Hyper Historian provider was incorrectly allowing the user to enable the local database cache. This configuration is no longer allowed. Hyper Historian did not actually listen to this setting. The correct way to configure its configuration cache was (and still is) under Historical Data > Hyper Historian > Node Setup and Redundancy > Local Logging Server or a collector > Use Advanced Configuration Cache.
67905	Resolved a rare crash of the Hyper Historian logger service that could occur when a null data value was received by a trigger (such as when a data trigger's input tag had a null value).
68054	Resolved a rare issue that could cause MergeWorX to stop processing files after some time, or only process one file out of a batch. When this issue occurred, TraceWorX would log errors such as, "InvalidOperationException : Collection was modified; enumeration operation may not execute."
68120	The deadband did not work consistently for points with a data type of Native. This has been resolved.

Performance Calculations

67136	Resolved an issue causing array-based performance calculations to return NaN when the array contained a NaN value. Now NaN array values are correctly ignored.
67382	Arrays are now allowed as parameters to C# custom functions.

Installation

64940	User updates of the following files will be preserved on the application of Update 5, so that users securing their systems by following security-related whitepapers will not have to redo these steps: • IcoFwxServer.exe.config • Client.deploy.xml • Client.local.xml • FWXASyncClient.Server.config.xml • HHCollectorService.exe.config • HHLoggerService.exe.config In addition, certificates are no longer regenerated in update packs, as of Update 5.
67023	Resolved an installation issue when choosing a Domain Managed Service Account during the install. The account would not be properly used for the IcoApps app pool in Internet Information Services (IIS). Note that you must run Configure System after installing Update 5 to apply the Domain Managed Service Account to the app pool, if it was not already manually corrected.
67570	For 10.95 Update 4, some databases did not automatically upgrade when that option was checked. This has been resolved in Update 5. All databases should now upgrade automatically, when that option is chosen.
67573	Resolved an issue that could prevent the upgrade of databases when using a unified database.
67758	For certain installation types, such as the AssetWorX installation or the Suite Installation with only "Platform Services" checked, the ICONICS .NET Licensing > MonitorWorX Viewer shortcut in the start menu did not function. This has been resolved.
68138	Re-running Configure System after the installation would throw errors if the Windows username contained spaces. This has been resolved.

IoTWorkX

67089	Improved the speed of the Generate Devices Configuration action in the Internet of Things provider.
67142	Resolved an extremely rare crash in the IoT Publisher.
67571	Saving a publish list with a very large number of items could cause Workbench to hang and then throw this error: "Error: [System.InvalidOperationException] No transaction scope was created. Call BeginTranscationAysnc before calling this method." This has been resolved, and the speed of saving a publish list has been improved.
67572	When tracing at DEBUG_VERBOSE, the IoT Point Manager now logs the first 1024 characters of received messages. Previously, only the first 100 characters of the message could be logged in TraceWorX.

KPIWorX

67030	Resolved an issue when populating a data table that could cause "Dataset request timed out (> 10000ms)" errors.
67296	The table control in KPIWorX could not display the data when the number of rows returned exceeded the page size. This has been resolved.
67297	If a filter was applied that contained null values in the column, an error would occur when trying to save the dashboard. The error message was, "There was an error generating the XML document." This has been resolved.
67621	When multiple widgets were configured with selection filters for the same set of data, selecting items from each widget would create multiple filters on the same data, causing inconsistent results based on the order of the selection. Now selecting an item that is already being filtered by another widget will alter the existing filter, rather than adding a new one, causing the behavior to be consistent no matter which widget was selected first.
67879	Added a new "Current Day" preset to the calendar widget.
67953	Stacked series would always plot from the bottom of the Y axis rather than at zero when the Y axis included negative numbers. This has been resolved - stacked series now properly start at the zero mark.
68079	When the Ico.AnyGlass.KPIWorX.config file was modified to start in presentation mode and to have a dashboard with split layout type set as the default, the splitter bars would be visible when KPIWorX was launched. This has been resolved.
68102	Resolved an issue loading saved dashboards containing the map widget. Not all properties would be loaded. This was especially problematic with the "Use Https" property, which could cause dashboards with a map widget to show a "Connection is not secure" error if it was not loaded.
68287	Added new properties for controlling the min and max auto-scale margin. The default is 0% for min and 10% for max. These can be found under the vertical axes configuration.

MobileHMI & HTML5 WebHMI

HTML5, iOS, Android

67073 67078	Resolved an issue in the HTML5 implementation of the timesincelastchange() function. It now returns the same values as the desktop (WPF) implementation.
67093	NULL values would return an error of "Unsupported Conversion (string->double)" when used in an expression on an HTML5 display. This has been resolved.
67097	The license bits of an HTML5 client would not be released if the client shut down unexpectedly (such as if the device lost power or Wi-Fi signal). This has been resolved.
67302	Resolved a server deadlock that could cause all HTML5 displays from the same server to show "Display parsing timeout" after the system had been running for several hours.
67304	Resolved an issue in grid-based viewers (GridWorX, AlarmWorX64, Recipe Grid, and ReportWorX64) where changes in the header text size didn't cause the header to resize the same way as in the desktop (WPF) version.
67371	Session tracking cookies are now regenerated after a user logs out and back in.
67372 67376 67378	Added two new options in the ico.anyGlass.clientCommunicationLayer.config file (located by default in Program Files\GENESIS64\WebSites\AnyGlass\Bin) to increase the security of cookies: <ForceHttpsCookie enabled="false" /> <CookieLifetime value="5000000" /> The ForceHttpsCookie option, when set to true, will set the Secure flag for cookies that ICONICS HTML5 pages use. This ensures that cookies will only be transmitted across encrypted connections (HTTPS). Note that when this setting is true your HTML5 pages will no longer function over HTTP. CookieLifetime is the time in minutes that the cookies will exist. Set a value of -1 to indicate that cookies will expire when the session ends. The default values for these settings are consistent with the behavior in previous versions. In addition, the HttpOnly flag has been enabled for the ICONICS HTML5 cookies.

67373	Resolved a very rare synchronization issue that could cause a server-side crash and the apparent random reload of client displays.
67450	Expressions in HTML5 displays that included a bad quality data source would always return bad quality, even if the expression was explicitly checking the quality (such as using the quality() function). This has been resolved.
67484	Resolved a rare crash of the HTML5 engine related to the GridWorX chart on a client. The chart was generating a NullReferenceException.
67730	Resolved an issue with unnecessary reconnection attempts that could occur on certain iOS devices, causing the FrameWorX and w3wp processes on the server to take more CPU than necessary.
67796	In HTML5 displays, the Call Method command with a String parameter would not work. This has been resolved.
67923	Resolved several issues with NULL values in HTML5 expressions, where they were returning results inconsistent with the desktop (WPF) version of the expression engine.
68289	Resolved an issue with the HTML5 viewbox where clicks to controls and objects inside the viewbox would be registered in the wrong location. This could make it seem like links or buttons inside a viewbox were not clickable.

AlarmWorX64 Viewer

67062	HTML5 AlarmWorX64 and GridWorX Viewers now obey the Row Height property.
67211	Clickable links now work in the HTML5 and Universal Windows Platform (UWP) AlarmWorX64 List View.
67230	Added support for dynamic row tooltips in the HTML5 AlarmWorX64 and GridWorX Viewers.
67310	Resolved an issue with the AlarmWorX64 and GridWorX Viewers that could cause the filter popup to show the wrong filter options.
67369	The HTML5 AlarmWorX64 Viewer now respects the VerticalScrollbarVisibility property.
67370	Resolved an issue with the AlarmWorX64 Viewer that could cause a memory leak in the w3wp.exe process on the server.
68228	The default value for the acknowledge dialog is now "Selected Items" instead of "All Items". This was changed to help prevent the accidental acknowledgment of more alarms than intended.

Asset Navigator

66505	The HTML5 Asset Navigator can now accept global colors for the selection foreground, background, and border colors.
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67352	Resolved an issue with the HTML5 Asset Navigator that could cause the direct command icon size to be inconsistent.
67353	Resolved an issue that could cause the Select Asset command to fail to execute if it was triggered too soon after the display was loaded.

Data Diagram

67140	Resolved an issue in the Data Diagram where if the first column wasn't visible and grouping was enabled, the group header label was not visible.
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EarthWorX

66881	Resolved an issue with positioning objects in the HTML5 EarthWorX Viewer. This would most often happen with symbols that can have parts hidden in runtime.
67164	HTML5 used a different zoom level than desktop (WPF) displays when using the Go To Location command with an EarthWorX control. This has been resolved.
68043	Pushpins and primitives (like rectangles or ellipses) would not be drawn at the correct location when they had dynamic latitude or longitude. Groups worked fine. This has been resolved.

FDDWorX Viewer

67082	The HTML5 FDD Viewer now supports clickable links consistent with the desktop (WPF) version.
67091	Resolved a very rare crash in the HTML5 engine linked to controls with a grid, such as the FDD Viewer or GridWorX Viewer. The w3wp.exe process on the server did not always restart, but the displays would reload.
67116	Under certain circumstances, using the FDD Viewer to add a comment for a fault could cause the display to reload (System.NullReferenceException crash). In these cases, the comment was correctly added, despite the reload. This has been resolved.
67368	Active faults reported a default deactivation time of 1/1/0001. Active faults now properly show a blank deactivation time.
67374	Client-side filtering is now supported in the HTML5 FDD Viewer.

GraphWorX64

64612	Resolved an issue with the scroll panel where the scroll bar could obstruct content when it appeared.
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65883	HTML5 location dynamics with nothing in the Duration field would use a very long value for the duration of the animation, causing the object to move very slowly towards its desired location. This now works consistently with the desktop version of GraphWorX64, where a blank Duration means instantaneously.
66871	Resolved an issue with string conversion of dynamic data sources. This could cause dynamics (such as location or color dynamics) to not act appropriately, as they were interpreting the data source as a string instead of a number.
67040	Optimized display loading code relating to local aliases, global color palettes, and hidden objects. This can lead to a significant (twice or more) improvement in the loading of displays.
67067	Resolved an issue in the resolution order of data sources that could cause the PressedWhen data source to resolve and execute before the data sources for the command parameters were resolved, leading to unexpected results in the pick action. The pick action now waits until its command parameters are resolved before executing due to the PressedWhen trigger.
67068 67299	Resolved an issue that could cause the SetValue() function to write more often than desired, causing unpredictable behavior.
67079	When loading an embedded display, the initial global aliases were unintentionally set twice. This could cause unpredictable behavior, including but not limited to the "Select Asset" command executing the wrong command on the selected asset. This has been resolved.
67083	If a display contained a layer with a hide dynamic, it could cause strange issues, including a server-side crash that would cause the display to continually reload. This behavior was new with 10.95 Update 4. It is now resolved.
67084	Resolved an issue with the combination of executeOnDown and executeOnUp properties of a Write Value pick action that could cause the "on up" part to be ignored if the button was held down too long (around 2 seconds or more).
67085	Resubscribing of a statefield due to local or global alias changes did not work correctly, leading to points that showed as bad quality after an alias change. This has been resolved.
67096	ImageBrushes are now supported in HTML5 primitives, like paths or polygons.
67112	Resolved an issue applying color from a color dynamic to a gradient stop.
67126	When opening a display, it could take several seconds for objects to be properly colored based on their PointFillColor and DisabledFillColor settings. This has been resolved.
67139	The position of a location dynamic would not change if the LowLimit and HighLimit values on the location dynamic changed in runtime. This has been resolved.

67168	When a load display command was configured to set local or global aliases and that command was triggered using drag and drop, the aliases would not be set. This has been resolved.
67172	Local Aliases would never be resolved when dragging and dropping a data source, regardless of the ResolveAliasesInDragDropDataSources property. This has been resolved - the ResolveAliasesInDragDropDataSources property is now respected.
67289	Resolved a "Data Null" error in tooltips that could occur with post-Update 4 patches.
67292	Certain post-Update 4 patches would cause polygons with size dynamics to not appear. This has been resolved.
67294	GraphWorX64 files using an image brush couldn't be loaded in an embedded viewer. This has been resolved.
67295	Resolved an issue with the discrete animator dynamic that could cause it to show all images, as opposed to just one set. It now works consistently with the desktop version of GraphWorX64.
67300	When the ReleaseDataWhenHidden Property is set to False on a layer, all dynamics within that layer fail to animate and the tooltips shows bad quality data. This has been resolved.
67301	Improved the speed of the clone dynamic. It should now behave much closer in speed to the desktop (WPF) version.
67303	Resolved an issue that could cause the size dynamic to not function. This most often happened with objects inside of a group when the group had been resized, or when an object had been rotated or flipped.
67305	Resolved an issue that could cause the data entry area for a process point to appear in the wrong position.
67306	Resolved an issue with popup menu widths not being properly sized.
67307	Resolved a rare issue involving rectangle borders that could cause the rectangle to expand outside its bounds and cover the entire display.
67308	The DateTime Picker dynamic would not work in HTML5 if there was any text in the LowLimit or HighLimit fields. This has been resolved.
67309	Resolved an issue causing tooltips to not be shown unless the pick action had a datasource trigger.
67682	Resolved an issue where the Set View command didn't work if the view name was driven by a dynamic value (such as a global alias, data tag or expression).
67686	The initial date of a DateTime Picker dynamic was always 1-1-0001, regardless of the configured InitialValue. This has been resolved.
67709	The clone dynamic would not clone when it was used on a popup menu item that included local aliases (other than the local aliases used by the clone dynamic functionality). This has been resolved.

67912	Resolved an issue with the grid layouts and panels that could occur when an object spanned through multiple columns or rows, and one or more of them was auto sized.
67913	Resolved an issue causing HTML5 displays to sometimes process animation dynamics in an incorrect order.
68081	HTML5 displays can now access the SelectedIndex property of pivot controls in runtime. (Point name of localsim:property:<pivot>.SelectedIndex, where <pivot> is the name of the pivot control.)
68083	Hide dynamics now obey the HideDynamicActiveWhenPointFailure display property in HTML5 displays.
68100	Writing a value with a specific priority (such as: 1!7) to a Boolean BACnet tag would fail. This has been resolved.
68246	The ZoomToObject option of the Set View pick action wasn't zooming to the correct location in HTML5 GraphWorX64. This has been resolved.
68342	An HTML5 pick action configured with the Write Value command combined and InitialClick behaved inconsistently to desktop (WPF) displays. This has been resolved - the HTML5 displays now behave the same as desktop (WPF) displays with respect to these pick actions.
68344	Features that required specific timing, such as animations and the auto-uncheck duration, could sometimes process faster than configured, causing inconsistent or unexpected behavior. This has been resolved.
68391	Clicking and holding the left/right or up/down arrows on a scrollbar will now continue scrolling after a small delay. Previously it would only scroll one time, regardless of how long the button was held down.
68470	Resolved an issue with the HideDynamicActiveWhenPointFailure property that could cause it to have trouble resolving certain expressions.
68472	Resolved an issue with smart tiles that had dynamics attached that could cause them to not animate properly.
68509	Previously, when process points were disabled (such as via security) the user could select them and write a value. The value would then be discarded. Now the user is not allowed to bring up the data entry at all. This avoids confusion and is consistent with the behavior of the desktop (WPF) version.
68510	Image textures with transparency are now supported in HTML5.
68634	Resolved an issue with arcs that could cause completely closed arcs to disappear, rather than be drawn as circles or ovals. This has been resolved.
68648	Resolved issues preventing the proper functionality of the new @@self, @@parent, and @@ancestor[n] keywords for localsim:property tags with primitives such as polygons, polylines, and paths. This feature was first introduced for HTML5 in 10.95.1 (reference ID 51888), and for desktop (WPF) in 10.95 (reference ID 51525).

GridWorX Viewer

67053	The HTML5 GridWorX Viewer now supports the ability to execute a command when clicking on a chart series. This was implemented in the desktop (WPF) version of the GridWorX chart in Update 4 - now it can be used in HTML5 displays as well. See the "What's new in 10.95.4" document for instructions on how to configure this feature.
67062	HTML5 AlarmWorX64 and GridWorX Viewers now obey the Row Height property.
67087	Resolved a licensing issue where HTML5 clients using a GridWorX Viewer would not release their Write Clients after the session has ended.
67110	Resolved an issue introduced in Update 4 which prevented users from updating values in GridWorX Viewers.
67160	When there were many slices in a pie chart in GridWorX Viewer, not all labels were visible. This has been resolved.
67166	If a GridWorX Viewer contained columns with clickable links and the user added grouping, the clickable link column was not being properly redrawn and not properly registering clicks to the correct row. This has been resolved.
67219	HTML5 GridWorX charts now interpret an empty min or max value in the Y axis as auto-scale. This is consistent with desktop (WPF) behavior.
67230	Added support for dynamic row tooltips in the HTML5 AlarmWorX64 and GridWorX Viewers.
67266	Changed HTML5 GridWorX chart cursor behavior to be consistent with the desktop (WPF) version. Previously they were always visible in HTML5 charts. Now, cursors are now disabled by default. They can be enabled in the configuration, or via the runtime context menu, as in the desktop version.
67298	When loading an HTML5 GridWorX Viewer which shows status indicators, the indicators may have been drawn outside the boundaries of the row. This has been resolved.
67311	Resolved an issue where HTML5 GridWorX Viewers did not obey the configured condition styling.
67436	Resolved an issue in detecting the position of clicks in the GridWorX Viewers that had their size changed in runtime.
67486	HTML5 GridWorX Viewers now support dynamic values (such as global aliases or OPC tags) in vertical axis ranges (min and max).
67493	Resolved an issue causing the x axis to not be visible in GridWorX charts.
67623	HTML5 GridWorX now supports a combination of fixed and auto-scaled range to make it more consistent with the desktop (WPF) implementation.
67680	HTML5 GridWorX Viewer now supports the DefaultHeaderFilterOperator advanced property.

ReportWorX64 Viewer

67272	Resolved an issue where the loading spinner for the ReportWorX64 Viewer was animating even when the viewer was hidden. This was causing unnecessary CPU usage.
67579	The ReportWorX64 Viewer in Executor view mode did not use the configured foreground color. This has been resolved.

Schedule Control

67072	The HTML5 version of the BACnet Schedule Viewer wasn't obeying the FrameWorX Server Location value on the Source tab. This has been resolved.
67114	HTML5 Schedule Viewers can now load a configuration from a file.
67456	The HTML5 Schedule Viewer now accepts the Load Schedule Control Configuration command.

Security

67118	Resolved an issue that could allow users to access cached displays even if they were denied those displays via security.
67169	Resolved an issue with security where users were not pushed to the "log in" screen when they log out of security. This issue only occurred when post-Update 4 patches were applied.
67921	The change password dialog wouldn't appear if the user was required to change password upon first logon. An error message would appear informing the user that they must change their password, but the user had no way of changing the password. This has been resolved.

TrendWorX64 Viewer

63634	Resolved an issue causing data exported from the HTML5 TrendWorX64 Viewer to always be exported using US datetime formatting, regardless of the system settings.
67066	Resolved an issue causing the X-axis grid lines to ignore the configured color and always show as white.
67119	When the Last Value column was visible no value would be displayed in that column for Boolean tags. This has been resolved.
67138	Resolved an issue introduced in 10.95 Update 4 where the TrendWorX64 Viewer would stop plotting new samples after the period was changed to a longer period in runtime.
67159	When there were too many pens on the display, the cursor summary view tooltip would have some of the information cut off and would contain a scroll bar. This has been resolved - now all information should be visible in the cursor summary view without needing to scroll.

67231	Resolved an issue in positioning the cursors in TrendWorX64 Viewers that had their size changed in runtime.
67483	When using a data source and the Read Range option on the Range tab of the chart, the TrendWorX64 Viewer would incorrectly scroll left or right when in freeze mode. This has been resolved.
67485	The Create Pen command would always add pens as Interpolative, even if another aggregate or "raw" was specified. This has been resolved.
67487	In the desktop (WPF) version of the TrendWorX64 Viewer, the Trend Period Toolbar buttons followed the font size specified by selecting a tab, going to the Appearance tab, and changing the Size property in the Title section. The HTML5 TrendWorX64 Viewer's Trend Period Toolbar buttons did not respect this size. This has been resolved.
67488	Pens that were initially hidden and then revealed in runtime would not respect the configured Z-order and would always appear behind existing pens. This has been resolved - pens now obey the Z-order even if they start out hidden.
67489	The HTML5 TrendWorX64 Viewer did not respect the "Use mouse click or tap to move cursors" property of the chart (on the Cursors tab). This has been resolved.
67490	Resolved an issue where the HTML5 TrendWorX64 Viewer did not move the cursor to the correct location when using the "Use mouse click or tap to move cursors" property of the chart (on the Cursors tab).
67491	Resolved parsing issues with the period in the Set Time Range command and the shared time range data source that could cause undesired behavior, included unexpected movement along the X-axis.
67492	Resolved an issue with the TrendWorX64 Viewer that could cause it to fail to plot data past an unexpected value such as null.
67656	Passing invalid StartTime or EndTime properties of the Set Time Range command could cause HTML5 displays to crash. It should no longer crash, but the X axis may still show maximum datetimes (year of 9999). TraceWorX messages have been added to help identify that there are invalid StartTime or EndTime properties.

Windows 10 App (UWP)

AlarmWorX64 Viewer

67211	Clickable links now work in the HTML5 and Universal Windows Platform (UWP) AlarmWorX64 List View.
67537	Grouping was not working in the UWP (Universal Windows Platform) version of the AlarmWorX64 Viewer when there was a very large number of active alarms (~10,000). This has been resolved.

Platform Services

Expressions

67037	Timer-based expression functions (trueforduration, timesincelastchange, currentdatetime, and currentdatetimeutc) that were given time durations greater than 24.86 days might not have returned correct results. Due to the way these timer-based expressions were evaluated, this issue may have also affected expressions other than the one where the large duration was specified. In 10.95, this has been resolved by throwing an appropriate error message when durations greater than 24.86 days are specified, and other expressions are no longer affected. It is not possible in 10.95 to use these timer-based expression functions with durations greater than 24.86 days. In 10.96, durations greater than this should be supported.
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FrameWorX

63910	Resolved a rare situation that could cause FrameWorX to hang or freeze in a redundant scenario. When it was in this unresponsive state, the redundancy point manager might return incorrect values, MonitorWorX would show "Retrieving license information...", and GraphWorX64 or Workbench would hang.
64590	Resolved a very rare FrameWorX hang related to checking whether TraceWorX files exist.
67051	Resolved a license-related issue that could cause the alarm server to fail to raise or clear alarms after a failover.
67330	Optimized FrameWorX to reduce CPU usage on large systems.
67346	Resolved an issue that could cause the FrameWorX Server to occasionally use a self-signed certificate on startup instead the proper one configured in FwxServer.OpcUa.config. This caused communication errors when using secured OPC UA communication.
67351	Resolved an issue with reading Classic HDA data from a third party OPC HDA server when there were three backslashes in the name. Previously, the points would return "Bad - Invalid Point Name".
67652	Under certain circumstances, writing to an OPC UA server and losing network connectivity at the same time could cause FrameWorX to lose the ability to write even after the network connectivity was restored. The TraceWorX file will be full of messages saying, "UaClientSession.OnWrite(): Too many concurrent writes pending (1; max allowed 1)". This issue has been resolved.

67691	Resolved an issue where clients could perform a write before the subscription to an OPC UA server was successfully created, causing all writes from that point on to fail. This was only observed in the Unified Data Manager's registers but could possibly have occurred in other ICONICS clients of OPC UA servers.
68317	Resolved a rare FrameWorX crash related to the OPC UA stack.
68794	Resolved an issue where FrameWorX would briefly enter an unresponsive state that would ultimately cause clients to have to recreate their sessions, resulting in a brief period of disconnection (clients such as GraphWorX64 would see asterisks while reconnecting). This was more likely to happen the higher the load that FrameWorX was processing.

Licensing

67511 68389	When checking the node name of a machine against the reserved license nodes, only the "raw" node name will be used. Previously, the entire node name was used, which was a combination of the machine name, session ID, and username, such as, "MachineA:0:UserX". Now, only "MachineA" will be checked.
68062	More than 255 Hyper Historian remote collectors can now be added to the same license server.

OData Connector

67038	Resolved a rare deadlock that could cause the ODataConnector to stop updating.
67449	Resolved an issue that could cause SPC capability ratios (:=Cp tag) to return NaN when constant values were used as the specification limits.
68145	Added a new OData point manager parameter RealTimeWaitOnBadQualityDelaySecs. This parameter is designed to make the OData point manager wait the configured period of time after receiving a bad quality sample for a good quality sample before sending that sample to the client. This was implemented because some data sources may return a bad quality sample as their first update, followed soon after by a good quality sample. Without this parameter set, the OData parameter will process the bad quality sample and never return the good quality sample. To set this parameter, edit \GENESIS64\Components\FwxServer.PointManagers.config. Search for "ODataPointManager". In the <Params> section under it, add these lines:

	<pre><Param> <Name>RealTimeWaitOnBadQualityDelaySecs</Name> <Value xsi:type="xsd:int">0</Value> </Param></pre> Set the value as desired. A value of 0 means the OData connector will behave as before (no waiting). A value of greater than 0 will make the OData connector to wait the specified number of seconds for a good quality sample after receiving a bad quality sample. If a good quality update is received within this wait time it will be sent to the client immediately, otherwise if the wait expires the last (bad) sample received will be sent. Once the config file has been edited, this value can be changed by modifying the SchedulerGranularityMsec parameter under Platform Services Configuration -> Point Managers tab -> OData Point Manager.
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Project Reporting

67501	Resolved an issue that could cause Project Reporting to hang during tag validation.
67575	Slowed down the automatic refresh of Project Reporting reports when the "Automatically refresh the log" box was checked. Previously the log would refresh fast enough that it was not actually possible to view the log between refreshes.

Security

67482	When synchronizing the ICONICS security configuration with Active Directory, if the Active Directory user has "User must change password on next logon" checked then ICONICS security will now prompt the user to change their password. Previously, attempting to log into ICONICS security with such a user would give an "incorrect login" message.
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Triggers

	The trigger point manager can now support changing the active database without restarting the point manager.
67061	This will resolve some errors with IoT triggers. Previously, after deploying a trigger configuration to the IoT gateway, TraceWorX would log an error when the trigger should've fired: "Error: Sending invalid trigger notification: True, False".

Unified Data Manager

65559	When a parameter field is left blank in the ClassInstantiation or ClassInstantiationRowBased sheets, the Bulk Asset Configurator now instantiates those assets using the default value for those parameters, as defined in the equipment class.
67542	The maximum scan rate for Unified Data Manager registers is no longer limited.

Tools

Bulk Asset Configurator

67361	Resolved a crash in the Bulk Asset Configurator that could occur if an alarm was manually created in an area that should be created by the Bulk Asset Configurator.
67937	Bulk Asset Configurator now ignores case for file extensions. Previously it would refuse to open files with extensions in all capitals (such as .XLSX), but when they were renamed to lower case (such as .xlsx) they would open.

ConverterWorX

63856	The GENESIS32 Language Configurator would allow multiple folders to have the same name in the same path. When a configuration containing two duplicate folders like this was converted with ConverterWorX, it would throw a "violation of unique key constraint" error when finding the second of the two folders and would stop converting any further items in the language configuration. ConverterWorX has been improved to better deal with this situation. Now, ConverterWorX properly displays a notification that the duplicate item cannot be inserted (and its children item are not inserted, either), but the conversion continues with the rest of the folders.
67129 67534	Added new options to the ConverterWorX Importer under GraphWorX64 Translation - General. These options are designed to be used for rare edge cases. • Change String format representation - Check this box if your GraphWorX32 displays have process points containing decimal numbers with a Client Display Type of String. Checking this box will convert String process points to type "Native" in GraphWorX64 using the number of decimal places below. • Change String decimal places - Specifies the number of decimal places to use for strings converted to numbers using the "Change String format representation" option.
67130	Added new option to the ConverterWorX Importer under GraphWorX64 Translation - General: "Config mode rotations disabled for (None, Rectangles or All)"

	In GraphWorX32, the user could set the Angle property of an object to rotate it. If the object also had a rotation dynamic, the Angle property was ignored in runtime, though the object would still appear rotated in configure mode. In GraphWorX64, the Angle property would be added to whatever rotation was specified by the rotation dynamic. So, in the rare event that a display used both the Angle property and a rotation dynamic, the runtime behavior was not consistent between GraphWorX32 and GraphWorX64. The objects would be rotated to different angles. Use this ConverterWorX option if you have objects with both an Angle property and a rotation dynamic. The Angle property will be discarded in the converted GraphWorX64 display, making the runtime behavior consistent between GraphWorX32 and GraphWorX64 for these objects. Select the type of objects (only rectangles, or all objects) where you would like to discard the Angle property.
67567	By default, the Workbench Point Manager periodically polls the TraceWorX settings. This was needed mainly for the IoT Gateway, where the traces can be visualized on the Local Provisioning screen. However, periodically checking the traces can be CPU-intensive, so an option was added to disable this feature. Users who are experiencing high CPU usage from Workbench Point Manager and who not using the IoT Gateway (or who are, but do not need the trace level to be updated on the Local Provisioning screen) can edit IcoCustomSetup.ini and add or modify this entry to disable this periodic check: [Sql] EnableTracePolling=0

Workbench

67057	Improved the speed of import, especially for the AssetWorX provider.
67499 67504 67132	Resolved several issues with file import when the import needed to create a parent item that did not exist in either the file being imported or the database. Previously, the parent would not be created, and this sort of error would be reported: "Cannot import item (\). Error: Cannot insert duplicate key row ", or "An item with the same key has already been added."
67699	Resolved an issue where configurations stored in SQL Azure Database couldn't be upgraded or created via Workbench.
67957 67958	There was an issue with the Pack and Go find/replace feature for certain properties including but not limited to the AlarmWorX64 Logger subscription data source and many GenBroker properties. Parameters in these locations were not properly replaced on unpack. This has been resolved.
68205	Resolved an issue causing Pack and Go to not expand the asset structure when using the "Explore Package" or "Unpack Package" functions.

Known Issues

60847	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.
64696	In ReportWorX Express, if both the body row and the anchor row of a custom column have different formulas, the formula in the anchor will be overridden by the formula in the body.
67050	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.
52673	The AlarmWorX64 MMX configuration is not supported in a Unified Configuration Database. The AlarmWorX64 MMX configuration database must be in a separate database.
46650	There is a known issue that may cause the TrendWorX32 Logger configurator to become unable to connect to the TrendWorX32 Logger Engine when running GENESIS32 and GENESIS64 together and after uninstalling GENESIS64. A reregistration of the TrendWorX32 Logger will mitigate this issue.
68302	Loading a KPIWorX dashboard with the new "Current Day" preset selected in the Calendar widget will display as a custom range instead of the preset. The range will still be the correct day, however. This should be addressed in 10.96.
39489	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.
56446	There is a known issue that may prevent the FDDWorX Viewer from functioning properly in PortalWorX-SP. It will get stuck on the download step at 100%.
60486	Users who wish to secure their IoTWorX Visualizer should disable "Anonymous Authentication" to the ICONICS HTML5 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.
64629	PowerShell caches commands, so users who had used ICONICS PowerShell modules before applying this update will not immediately have access to any new or updated PowerShell commands. This can be solved by running this command:

	Get-Module -ListAvailable -Refresh
	The command only needs to be executed once after the update is installed.
55389	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 it, or copy and paste it.



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

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