

ICONICS 10.96

Resolved Issues | **ICONICS Suite™**
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Introduction to Condensed Resolved Issues

This edition of the "Resolved Issues" describes a set of issues resolved in version 10.96.

This is not intended to be an exhaustive list of all resolved issues in 10.96. When available, a complete list of all fixes can be found on our website.

For information on new features and enhancements added in version 10.96, see the appropriate "What's New" document.

The most up to date "What's New" and "Resolved Issues" documents can be found in our online documentation here:

[Release Notes for 10.96](#)

"First Available In" Column

Some of the resolved issues in this document were first resolved in an update pack for version 10.95. When this is the case, the 10.95 update pack version is listed in the "First Available In" column. Items listed as "New for 10.96" indicate issues that were first resolved in 10.96 and are not currently available in a 10.95 update pack.

Users of any 10.95 update pack version can consult this column to tell which resolutions are new for their version and which they already have.

AnalytiX

AnalytiX-BI

Ref ID	Description	First Available In
56890	Resolved an issue causing the BI server to incorrectly import only the last 200,000 rows of a data source into a data table.	New for 10.96
69007	Resolved an issue that could cause corruption in data tables that contained more than one million rows.	New for 10.96
69112	Resolved an issue that prevented asset dimension dataflows from being loaded into a data table. This issue only occurred in version 10.95 Update 5.	New for 10.96
70496	Resolved an issue that caused queries to return incorrect results. This issue would happen if the query was executed before the data table had finished loading. Once this situation had occurred, further queries would keep returning the incorrect results, even once the table had loaded, because the query results were cached.	New for 10.96
70654	Resolved an issue with the BI Server where certain invalid WHERE clauses would cause an exception during startup, resulting in the BI Server configuration not loading. These clauses are still not valid, but they will not prevent the BI Server configuration from loading.	New for 10.96
70750	Using the ORDER BY clause with a datetime column in a view would result in an error retrieving headers. This has been resolved.	New for 10.96
70752	When attempting to GROUP BY a datetime column in a view, it would return incorrect values. This has been resolved.	New for 10.96
71362	The Asset Property Value step in a data flow could no longer pass its results as a parameter to the next step. Attempting to do so resulted in an "Object reference not set to an instance of an object" error. This has been resolved.	New for 10.96
71667	Resolved an issue that could occasionally cause queries with multiple logical predicates on different columns to fail.	New for 10.96
72017	Resolved an issue preventing comparisons to a NULL value in the WHERE clause. (Example: SELECT Orders.* WHERE Orders.ShipRegion <> NULL)	New for 10.96
72601	Certain clients including BridgeWorX64, ReportWorX64, and BI Server could not detect column headers for Web Services data sources that returned a dataset. This has been resolved.	New for 10.96
64972	Aggregates were not properly computed (returning incorrect results) when running with no GROUP BY and the column has NULL values. This has been resolved.	10.95.5
65050	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.	10.95.5
65664	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.	10.95.5
65751	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.	10.95.5
66918	Column names can now start with a number.	10.95.5
67268	When a 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 have to 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.	10.95.5
67470	Using count() in a BI query did not return 0 if the result set was empty (such as when the WHERE clause causes the query to return no results). This has been resolved.	10.95.5
67591	JSON parsing step would sometimes duplicates rows. This has been resolved.	10.95.5
68111	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.	10.95.5
68403	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.	10.95.5
61608	Resolved an issue that would cause views to fail to execute if the view had inline expressions that reference column(s) from another view.	10.95.4

Ref ID	Description	First Available In
61770	When using a block with a "DataValue" as an output schema (i.e. Data Reader and Historical Reader steps), this error could occur: "Unable to cast object of type '<type>' to type 'System.String'". This issue has been resolved by the addition of a dropdown to allow the user to pick a data type for the Value column. If the chosen datatype cannot be cast, rather than throwing an error the value will be bad quality in the output dataset. (See enhancement 69141.)	10.95.4
62340	Added a timeout for loading tasks to avoid issues where the BI server can get stuck and stop loading or refreshing data. The default timeout for loading tasks is 60 seconds. It can be changed by modifying the DataLoadTimeoutSec parameter under Platform Services Configuration -> Point Managers tab -> BI Server Point Manager.	10.95.4
63368	BI Server queries failed to execute when selecting from a view and using a WHERE clause that is not specified in the select list. This has been resolved.	10.95.4
62887	Configuring a view with multiple unnamed columns in the BI Server could result in a crash with the following error message: "An item with the same key has already been added." This has been resolved.	10.95.2
62888	Resolved an issue where an explicit expression column in a WHERE or ORDER BY clause would cause the query to return no data. These columns worked fine in the SELECT statement.	10.95.2
57320	BI data in KPIWorX would not properly respect ISO dates and formatting. This issue has been resolved.	10.95.1

Workbench Provider

Ref ID	Description	First Available In
60847	Previous versions documented a known issue where a new Data Flow using points in a previously configured Data Flow may not contain the most recent values. This issue has been resolved by the reimplementation of caching for the data flow preview. See the new "preview caching" feature with reference ID 62367 for more details.	New for 10.96
67703	The relationship editor has been enhanced to prevent users from creating invalid relationships, such as relationships with no columns selected.	New for 10.96
68001	Certain column names containing periods caused issues with the dataflow preview. The user would receive an error message box saying, "Object null or not set to a reference of an object". This has been resolved.	New for 10.96
70482	Resolved an issue causing dataflows to lose their data type mappings after opening and re-saving. This was not visible in Workbench but could cause issues when using the dataflow in runtime. Unfortunately, dataflows that were affected by this issue need to be recreated from scratch, but this issue should not affect any newly created dataflows.	New for 10.96
65041	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.	10.95.5
67987	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.	10.95.5
61463	The BI Server Data Flow GridWorX Point Builder now maintains configured parameters after closing and reopening the Data Model tab.	10.95.4
62208	Resolved an "Asset path is invalid" error when attempting to add a Dimensions -> Asset step to a data flow using a point name that contained a server prefix (such as "\\ServerName\ac:...").	10.95.4
62271	In previous releases, clicking the "Refresh Schema" button for a Data Table would remove any expression columns. This issue has been resolved.	10.95.4
64557	Resolved a crash (System.NullReferenceException) in the BI Server Workbench provider. This crash would most often occur when editing a Data Flow.	10.95.4
57154	Parameters are no longer mandatory in the GridWorX Point Builder data flow step.	10.95.1

BridgeWorX64 & Workflow

Ref ID	Description	First Available In
67747 67750	Previously, trace messages at level 700 (Warning) or 800 (Error) were generated in the point manager and scheduler services when a trigger fired that was linked to a disabled transaction. These messages are no longer generated for disabled transactions.	New for 10.96

Ref ID	Description	First Available In
69473	Files uploaded to FTP via a File Transfer block would have extra null/blank data added onto the end. This has been resolved.	New for 10.96
71227	Resolved an issue preventing FTP servers from being used as a destination of the file transfer block.	New for 10.96
72601	Certain clients including BridgeWorX64, ReportWorX64, and BI Server could not detect column headers for Web Services data sources that returned a dataset. This has been resolved.	New for 10.96
72603	Resolved an issue preventing users from updating local variables in Workbench. The variable would appear to update but refreshing the page would restore the original value.	New for 10.96
64686	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: bwx:MyTransaction/@@Execute<@Param=1>	10.95.5
65042	The parameter value would show as null when used in an activity. This has been resolved. The CSV Import block now works properly when the CSV file is using the semicolon as the column separator.	10.95.5
65205	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.	10.95.5
65280	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".	10.95.5
65567	The Override Gas option on the Transaction Execution tab would not actually override the aliases used in the transaction. This has been resolved.	10.95.5
67344	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.	10.95.5
67566	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.	10.95.5
62030 62212	Several changes were made to reduce the chances that a transaction thread could hang indefinitely. Activity traces for transactions are now stored in memory instead of SQL Server until they are written out to a file. In order to avoid infinitely looping transactions from consuming all of the memory of a system, a limit to the activities kept in trace was added. This limit defaults to 500 per transaction instance and can be modified per transaction with the new "Maximum activities logged" setting. In addition, configurable activity timeouts were added for DA Reader, DA Bulk Reader, Data Set Reader, DA Writer, DA Bulk Writer, Data Manipulator, Bulk Data Manipulator, and Data Set Transform blocks. A timeout value of zero means no timeout. If an activity runs longer than its configured timeout, it will fail with the error of "Timeout." (Note that if the overall transaction timeout has been exceeded, an individual activity may wind up being timed out before its individual timeout timer has expired.)	10.95.4
63758	Data Manipulator blocks could throw an "Object reference not set to an instance of an object" error when executing a data manipulator configured with a customer query with no parameters. Data manipulators for stored procedures worked fine, even without parameters. This has been resolved.	10.95.4
60249	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.	10.95.3
62653	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.	10.95.3
62671	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.	10.95.3
62855	BridgeWorX64 condition blocks now treat 1 or 0 as valid true or false Boolean results.	10.95.2

Ref ID	Description	First Available In
63103	Added a new BridgeWorX64 block, "Data Manipulator Executor". The Data Manipulator Executor is designed to pass database parameters and return output parameters, if any, in a thread-safe way. Users should use this block to avoid database concurrency issues when multiple copies of a transaction may run at one time.	10.95.1
63108	BridgeWorX64 tracing now provides greater granularity for debugging failed tag write operations.	10.95.1

Workbench Provider

Ref ID	Description	First Available In
57730	When multiple blocks were selected, modifying fields in the property grid would only change one of the selected blocks. Now changes properly apply to all selected blocks.	New for 10.96
63777	Removed the "Activity Result" or "{Result}" item from the expression editor. Activities result in datasets, not single results, so this item was not useful and attempting to use it would cause an AggregateException error to appear in the TraceWorX log.	New for 10.96
67102	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.	10.95.5
61703	New BridgeWorX64 configurations created with 10.95 Update 4 or later allow having Global Variable and Local Variable folders with the same name. Configurations created prior to 10.95 Update 4 still have this limitation.	10.95.4
62516	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.	10.95.4
63671	When configuring multiple projects on one machine, the GenBroker properties weren't saved to the project and were instead shared across the whole machine. This has been resolved. GenBroker properties are now saved uniquely for each project. Note that only the active project will update the GenBroker configuration file.	10.95.4
60183	Bezier lines can no longer be set as the default line type for links between activities. This resolved a crash in Workbench that would occur when creating a new link between activities while Bezier line was set as the default. New links are straight lines, and Bezier lines cannot be straight lines by definition, which caused the crash.	10.95.3
58048 58049	Resolved multiple issues preventing dragging tags from the data browser onto properties of activities in template diagram properties.	10.95.2
58333	Resolved a crash that could occur when editing a workflow activity. This crash only occurred in 10.95 Update 1.	10.95.2
57685	Enlarged the dialog for selecting the data type of BridgeWorX64 global variables so it is now easier to use in Internet Explorer.	10.95.1
57770 57773	It is no longer possible to delete or copy the start block.	10.95.1
57775	Activity blocks can now be resized to certain preset sizes. The size is set using the Width and Height properties, each choosing between small, medium, and large.	10.95.1

Facility AnalytiX & FDDWorX

Ref ID	Description	First Available In
63948	<p>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.</p> <p>This was resolved in 10.95 Update 5, but only for durations smaller than 24.86 days. Version 10.96 allows durations greater than 24.86 days.</p>	New for 10.96

Ref ID	Description	First Available In
67622	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.	10.95.5
61757	The Fault.SourceActiveTime variable was returning local time but marked it as UTC time. This has been resolved.	10.95.4
63178	Fault expressions that contained a parameter as part of a tag name, such as {{ac:Test/test/< <PathPlaceholderValue>>}} were not parsed properly. This has been resolved.	10.95.4
57110	Resolved a rare "NullReferenceException" crash in the FDDWorX Service.	10.95.1
63071	Resolved a crash in specific rare circumstances related to FDDWorX.	10.95.1

Fault Viewer

Ref ID	Description	First Available In
66278	The legacy FDD Viewer had an issue that would cause it to not display faults on equipment coming from an external link within a distributed AssetWorX architecture. The new FDD Viewer does not have this issue.	New for 10.96

Legacy FDDWorX Viewer

Ref ID	Description	First Available In
60385	Resolved a rare crash (System.NullReferenceException) in the legacy FDDWorX Viewer that could happen when switching screens.	10.95.3
57084	Resolved an issue causing the legacy FDDWorX Viewer to fail to show older comments when using grouping. The comments would show up when "More - multiple incidents having" was selected at the root level, but when selecting that menu under the "Older Incidents" tab, those same comments would not load.	10.95.1
63073	Resolved a crash in the legacy FDDWorX Viewer that could occur when acknowledging faults with security enabled.	10.95.1

Quality AnalytiX

Ref ID	Description	First Available In
66751	Resolved an issue that could cause SPC capability ratios (:=Cp tag) to return NaN when constant values were used as the specification limits.	10.95.5

ReportWorX64 & ReportWorX64 Express

Ref ID	Description	First Available In
69810	When generating a report, ReportWorX64 would generate four temporary files, but only delete two of them when finished. This could eventually cause reports to stop functioning when all possible random names for these temp files had been used. This has been resolved - all temporary files are now properly deleted.	New for 10.96
71307	In rare circumstances, adding a Hyper Historian tag to a template and running the report could make unintended changes to the formatting. This problem does not happen with the new redesigned ReportWorX64 Excel Add-In for version 10.96.	New for 10.96
72601	Certain clients including BridgeWorX64, ReportWorX64, and BI Server could not detect column headers for Web Services data sources that returned a dataset. This has been resolved.	New for 10.96
65539	Datetime parameters could sometimes be resolved improperly when dealing with daylight savings changes. This issue has been fixed.	10.95.5
65711	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.	10.95.5
61511	Fixed an issue in ReportWorX64 where reports may not properly download on remote clients.	10.95.4
62548	Resolved an issue with parameters whose value contained the '=' character. Previously, the value after the equal sign would be truncated.	10.95.4
62549	ReportWorX64 now respects the "tt" portion of the "d/M/yyyy hh:mm tt" date/time formatting.	10.95.4

AnalytiX - ReportWorX64 & ReportWorX64 Express

Ref ID	Description	First Available In
63341	The ReportWorX64 server would hang when a trigger would execute a report with a title that contained an expression. This issue has been resolved.	10.95.4
62845 60333	In previous versions, if a user generated a report including a data source that returned no rows, the report would fail to generate with a "Cannot generate the report" status. Now the report is correctly generated with no records.	10.95.2
57094	Added a new fill type to ReportWorX64 data sources, "Auto with expand". The "Auto with expand" fill type will insert rows, pushing down content or data sources below it, rather than writing over it.	10.95.1
57097	Resolved an issue that could cause ReportWorX64 to fail to execute reports when the operating system language was set to something other than English.	10.95.1
57150	Enhanced ReportWorX64 to reduce the time necessary to report on batches of OPC tags.	10.95.1
63084	When using a fixed list parameter as a part of an OPC tag, ReportWorX64 would always use the default value even if the user selected a different value. This issue has been resolved.	10.95.1

Navigator

Ref ID	Description	First Available In
62388	The ReportWorX64 Navigator now obeys the IsTabStop property.	New for 10.96

ReportWorX64 Express & Excel Add-In

Ref ID	Description	First Available In
60444	Previously, deleting a column in Excel could cause the mapped cells to become out of sync with the mapped data source. Now, deleting a column that overlaps with a mapped data source will pop up a warning message. If the user accepts the message, the mapped cells in the deleted column are correctly removed from the mapping.	New for 10.96
64696	In the ReportWorX64 Excel Add-In, if both the body row and the anchor row of a custom column had different formulas, the formula in the anchor would be overridden by the formula in the body. This has been resolved. (This was documented as a known issue in previous releases.)	New for 10.96
68192	It is no longer possible to select a datatype other than DateTime when the Parameter Type is set to "Automatically evaluate a date and time." This prevents issues that can occur if the datatype is set to something else, such as String.	New for 10.96
70749	Resolved an issue that could cause some populated cells to have a leading space. This leading space could cause formatting issues in those cells.	New for 10.96
70812	After setting the print area using the Page Layout tab of Excel, mapping a cell would cause the name of the sheet to have "!Print" appended to it. This has been resolved.	New for 10.96
66727	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.	10.95.5
61394	Resolved an issue that could cause less than the entire set of DA points to update for large sets of points (~150).	10.95.4
62141	Fixed an issue in ReportWorX Express where update queries could run excessively slow and the results could appear in incorrect cells.	10.95.4
62545	Resolved an issue in the Excel add-in where mapping parameters with "View Header" unchecked would still leave a blank row where the header would have been. This prevented users from creating a table of parameters with a single header row.	10.95.4
63722	Resolved an issue that could occur when a template sheet name is changed more than once. Previously, this would put the sheet into a bad state that could manifest later. For example, attempting to edit the parameters of a sheet in this state could cause a new sheet to appear and the changes to not take effect.	10.95.4
62739	Deleting a column in the Layout and Parameter Configurator wouldn't remove columns in the data mapping. Version 10.96 no longer has a Layout and Parameter Configurator and deleting columns in Excel works as expected (mapped cells in those columns are removed).	10.95.3
62816	Resolved an issue that would cause the Data Source Configurator to fail to open the second time it was launched in an Excel session. (Note, the "Data Source Configurator" button is now called "Configure Data Sources".)	10.95.2

Viewer

Ref ID	Description	First Available In
59221	Resolved an issue that would cause the ReportWorX64 Viewer to fail to show any reports when an advanced filter was applied. This issue would only happen in the desktop (WPF) platform.	10.95.2

Workbench Provider

Ref ID	Description	First Available In
69929	The "Include Sheets" field on the Report Settings tab of a report was not correctly validating its input. Invalid entries were not being flagged as errors. This has been resolved.	New for 10.96

Data Connectivity

BACnet

Ref ID	Description	First Available In
60303	The PresentValue of LAV objects was returning blank or null, even when it had a good value. This has been resolved.	New for 10.96
68617	If BACnet Runtime starts while the license is in a "demo expired" state, it does not properly communicate with any BACnet devices. It did not recover from this state until it was manually restarted, even if a proper license was reinstated. This has been resolved - BACnet Runtime can now properly recover on its own from the "demo expired" state if the license gets reinstated.	New for 10.96
69132	Event notifications were wrongly processed by all trend log objects linked with the notification class. This issue has been resolved. Now, event notifications are properly processed only by the specific trend log object.	New for 10.96
70317	Resolved an issue that could cause a BACnet device with an ID of 0 to appear in the device list. This would occur when using an adapter with an IP address whose last two digits were 0.0.	New for 10.96
70321	The BACnet EDE Generator no longer stops when it finds an invalid line in a CSV file. It will now continue to process past invalid lines.	New for 10.96
70640	The BACnet EDE Generator now encloses the description field in quotation marks if the description includes a comma. This prevents the comma from being incorrectly interpreted as a delimiter. Also, carriage returns and line feeds are now removed from text fields.	New for 10.96
70746	Resolved an issue causing online changes for device-specific settings in BACnet Runtime to not work. BACnet Runtime would not actually rediscover the device with the new settings - the old settings would still be in use.	New for 10.96
71211	Resolved a typo in the property name of MinPresValue (had an extra "s": "MinPressValue"). The tag browser now presents the corrected spelling of the property name. Existing systems referring to the old property name with the typo should continue to work, but when possible, users should begin using the new spelling.	New for 10.96
71852	When subscribing simultaneously to multiple BACnet properties from the same device, only the first point will be populated with a value. This has been resolved.	New for 10.96
65165	Resolved a rare issue that could case BACnet runtime to not receive any BACnet alarms.	10.95.5
65311 65313 65540	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).	10.95.5
65397	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.	10.95.5
65734	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.	10.95.5
61557	Resolved an issue where writes could take longer to process when offline devices were present in the cache. Writes no longer are blocked by the processing of offline devices.	10.95.4
61694	Made improvements to the alarm functionality of BACnet Runtime. In addition to general stability, this should address a rare issue where BACnet alarms were not properly propagating through AssetWorX after restarting the machine (bacnet: alarm subscriptions would work, but ac: subscriptions would not).	10.95.4
61931	Added a setting to allow parallel ReadProperty requests to the same device. This setting is only recommended when using devices that do not support COV, only polling. Note that setting this value too high can overload a device and cause issues. It is highly recommended to leave it at the default of 1, when possible. The setting is located in the IcoSetup64.ini file:	10.95.4

Ref ID	Description	First Available In
	[BACNET\Runtime] MaxParallelRequestQuantity=1	
62028	Resolved an issue with BACnet's performance counters that could prevent users from subscribing to these counters with Windows Performance Monitor and could also cause performance issues with BACnet in general.	10.95.4
62344	Resolved an issue in BACnet that could cause tags using COV to stop receiving updates. The tags would remain good quality but would become stale.	10.95.4
62581	Certain errors would not stop the EDE Generator when "Continue on Error" was unchecked. This has been resolved.	10.95.4
63180 63492	Resolved an issue that could cause BACnet tags to periodically become stale (i.e. not receive any updates but remain at the last value with good quality) or show as bad quality (such as "Bad - Waiting for initial data" or "Bad - Communication Error").	10.95.4
63410	Resolved an issue that could cause COV failures after restarting BACnet Runtime, due to the maximum number of COV subscriptions for the device being reached. This would happen even though the configured number of subscriptions was less than the maximum for the device.	10.95.4
63566	Remote BACnet tags read through FrameWorX communication (with a tag path like: \\Server\bacnet...) could get stuck with a status of "Bad - Invalid Argument" when the remote BACnet server is restarted. Tags would remain in this state even after the server came back online, even though, when viewed from the local machine (without the "\\Server\" prefix), the tags worked fine. Restarting FrameWorX on the BACnet server machine would restore the tags. This has been resolved.	10.95.4
63567	Resolved an issue that could cause BACnet to fail to reconnect to a device that has been offline for a long period of time (days). The device would still show as offline in BACnet Runtime, even though it was responding fine.	10.95.4
63809	Resolved a rare issue that could cause existing clients to fail to get updates for BACnet Runtime points after a restart or crash of BACnet Runtime. When this situation occurred, new clients would get updates just fine.	10.95.4
64607	BACnet alarms configured as "Binary Value" or "Change of Life Safety" would not fill in the New State Value attribute. This has been resolved.	10.95.4
64710	The processing of online versus offline devices has been improved. Previously, on systems with a lot of offline devices in the cache, re-scanning of devices in Workbench would usually fail. It may still take some time to re-scan devices when a lot are offline, but now they will be scanned.	10.95.4
57007	In previous versions, offline AWS devices may persist in the BACnet cache when changing the default ID and could not be removed by the "delete device from cache" option. This issue has been resolved.	10.95.1

Workbench Provider

Ref ID	Description	First Available In
64572	When discovering a device and adding it to the database, the entire BACnet tree would refresh. This refresh was unintended and is resolved.	New for 10.96
72464	Resolved a crash (System.NullReferenceException) that could occur in Workbench when adding an item to the list view in a new BACnet calendar object.	New for 10.96
62042	Resolved a rare issue that could cause certain BACnet configurations to be missing devices after being upgraded.	10.95.4
57086	Previously users could get a "Cannot Complete Request. Cannot locate resource" error when attempting to expand a device with certain uncommon object types. This has been resolved.	10.95.1

GridWorX

Server

Ref ID	Description	First Available In
69266	When EnableRefreshOnApply was set to false, the grid viewer would still refresh after making a change and hitting "apply". This has been resolved. This issue only occurred with 10.95 Update 5.	New for 10.96

Ref ID	Description	First Available In
64533	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.	10.95.5
61634	Update 3 for 10.95 introduced an issue that prevented GridWorX Manipulator inline parameters from working (the tag would return "Bad Unexpected Error"). This update has resolved that issue.	10.95.4
61636	An issue was introduced in Update 3 for 10.95 where underscores in parameters in Data Source tags needed to be enclosed in quotes. Previous to Update 3, the underscore character did not cause the parameter to require quotes. This has been resolved. Quotes are no longer required.	10.95.4
61638	Update 3 for 10.95 changed the way backslashes were treated in parameter values in Data Source tags. After applying Update 3, backslashes became escape characters, meaning any existing tags that had backslashes in their parameters needed to be modified to escape the backslashes by adding a second backslash. This update reverts back to the behavior prior to Update 3. Backslashes are no longer escape characters. Note, in order to use a single- or double-quotation mark inside a parameter value, you must enclose the parameter in the opposite type of quotes. For example: db:Connection.Source<@p='my"value'> db:Connection.Source<@p="my'value">	10.95.4
61685	When accessing web service indexes of web services arrays, only the first index would return data. This has been resolved.	10.95.4
62381	Resolved a crash of the GridWorX Server that could occur when requesting Access OLEDB data.	10.95.4
63350	When using a stored procedure as a Data Source and adding a Data Item that used the return value parameter, the Data Item either returned incorrect data or no data. This has been resolved.	10.95.4
63755	GridWorX Server no longer sends unnecessary data change notifications. Previously, it could send updates to clients even though its value had not changed.	10.95.4
62736	Specifying parameter values without a parameter name (such as db:Northwind.OrdersByCustomerID<ALFKI>[OrderID][0]) did not work. Points returned "Bad - Unexpected Error". The equivalent tag with the parameter name explicitly listed (such as db:Northwind.OrdersByCustomerID<@CustomerID=ALFKI>[OrderID][0]) worked fine. Data items configured with parameters would also return "Bad - Unexpected Error", even if they return good test results in Workbench. Both issues have been resolved.	10.95.3
62744	For some versions of 10.95, data manipulator parameter tags (like db:Northwind.AddOrder.@p7) stopped providing some default value like zero, an empty string, or 1/1/1900, depending on the data type. This has been resolved - the parameter tags provide a default value again.	10.95.3
58665	Resolved an issue where GridWorX tags, such as db:MyDatabase.Table_1[ColumnName][0], were not writable.	10.95.2

Viewer

Ref ID	Description	First Available In
60557	When loading a previously saved configuration into a GridWorX Viewer it appeared to use American regional settings for the date/time format, even if the system settings were configured for another language. This has been resolved.	New for 10.96
62490	The columns on the Condition tab of a grid object can now be resized.	New for 10.96
62491	On systems using display scaling (usually with a 4K monitor), the OK and Cancel buttons would not be visible in the Visual Styles Management dialog. This has been resolved.	New for 10.96
65792	Data labels on the chart would sometimes get cut off on the edge of the control. Now, data labels are more smartly positioned. If necessary, data labels will be positioned slightly to the side of the sample but will be connected to it by a small line for clarity.	New for 10.96

Ref ID	Description	First Available In
68430	Attempting to configure multiple commands in a single column of a GridWorX64 Viewer would cause the viewer to crash when that link was clicked. Simply adding two command strings together created an invalid command, and is not supported, but it should not have crashed. The crash has been resolved, but multiple commands combined in this way will not be executed. Users should use the Batch command to execute more than one command from a single click.	New for 10.96
69054	Resolved a crash in the GridWorX SPC chart that would occur when the datasource contained global aliases.	New for 10.96
69443	Resolved an issue causing the GridWorX Viewer to load with the correct number of rows, but all blank cells. This would occur if the GridWorX point manager was started after the GridWorX Viewer entered runtime.	New for 10.96
69888	Touch events were not properly changing the selected row. Most notably, this caused commands using the SelectEntireRow and SelectionCommandColumnKey features to not fire. This has been resolved. (Note, mouse events were never an issue, only touchscreens were affected.)	New for 10.96
70857	In the GridWorX Viewer, when multiple series with the same data source were refreshed on the server, the chart would be updated before all series had the refreshed data available. This could cause some of the series to fail to display. This has been resolved.	New for 10.96
71197	Resolved a crash (System.OverflowException) in the GridWorX Viewer that could occur when attempting to load extremely small or extremely large values in a chart. The solution involved special handling of values or ranges outside of this range: $\pm 1.0 \times 10^{-28}$ to $\pm 1.0 \times 10^{28}$. If the min or max of an axis is outside of this range, the range will be set to "Auto". If a chart value is outside the range a null value will be returned and a warning will be recorded in the TraceWorX log.	New for 10.96
72040	The Print global command would not execute with a GridWorX Viewer as its target. This has been resolved.	New for 10.96
64953	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.	10.95.5
65304	Exporting a dataset with only a single column gave a "Dataset does not support System.Nullable<>" error. This has been resolved.	10.95.5
65399	Data export in the desktop (WPF) GridWorX Viewer now respects language and culture settings for dates. Previously it always exported using US date/time format.	10.95.5
65478	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.	10.95.5
65758	Fill color for GridWorX markers and bar charts can now be updated in runtime via scripting.	10.95.5
66524	Filters applied from the dropdown box on a header now properly apply to the data when it is exported.	10.95.5
67658	Virtual fields were being exported with blank values. This has been resolved.	10.95.5
68167	Resolved an issue with the color theme, where the corner square between the horizontal and vertical scroll bars was not accepting the theme color.	10.95.5
68250 68251	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.	10.95.5
62130	The AlarmWorX64 and GridWorX Viewers now obey the IsTabStop property.	10.95.4
59822	Resolved an issue that caused columns in the GridWorX Viewer to share an index after they had their positions changed.	10.95.3
60480	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.	10.95.3
60482	When grouping by a column of type "Object" the grid viewer would either crash or the data would disappear. This has been resolved.	10.95.3

Ref ID	Description	First Available In
60551	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 clicks on a cell, the command is executed immediately.	10.95.3
60938	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.	10.95.3
56503	Fixed an error in GridWorX where large GridWorX tables in runtime would occasionally hang during the initial load.	10.95.1
56747	Fixed a GridWorX Viewer crash which would occur when a resolved language alias or tag would return a "NULL" value.	10.95.1
58605	Writing datetime values into a GridWorX Viewer cell could result in the wrong datetime being entered into the database. This was due to an incorrect time zone conversion issue and has now been resolved.	10.95.1

Workbench Provider

Ref ID	Description	First Available In
	Resolved an issue with the CSV export where SQL commands were not being exported correctly. An ID was being exported instead of a name (such as "/Northwind/Employees/DbCommand:1" instead of "/Northwind/Employees/Select"). The resulting files could not be imported. This has been resolved, but any files affected by this issue must be re-exported.	
68810	Also, in the past, users did not have a way to export a database connection and all of its children. Right-clicking on a database connection and selecting "Export Sub Tree" only exports the children. It does not include the database connection itself. The resulting file could be imported, but the database connection object it created did not have the proper connection string, which caused problems for the imported children. Now, users can select "Export Selected" from the context menu of a database connection to export it and its children together.	New for 10.96
61632	Importing a GridWorX configuration no longer duplicates existing data sources. Previously, if you imported a configuration that contained a preexisting data source, the data source would be duplicated, which caused errors in runtime.	10.95.4
61796	Resolved a "Cannot retrieve the schema from the query" error that could occur when configuring a data source with a stored procedure that expected a variable-length string parameter (such as "varchar(10)").	10.95.4

Modbus Point Manager

Ref ID	Description	First Available In
70161	The "Swap bytes inside words" feature was not working correctly for String data types. Its behavior should now be consistent with the standalone Modbus OPC server.	New for 10.96
65167	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.	10.95.5
63754	Resolved an issue with the "Manual" setting on data items, where it could not accept arrays (such as "[1;2;3]") when the data item was set to be a vector.	10.95.4

Workbench Provider

Ref ID	Description	First Available In
63229	Resolved a "Cannot insert the value NULL..." error that could occur when importing Excel or CSV files into the Modbus Workbench provider.	10.95.4

SNMP

Ref ID	Description	First Available In
71097	When more than one client was subscribed to the same ":Heartbeat_default" tag and any one client unsubscribed from the point, the SNMP point manager would unsubscribe from the SNMP point, causing all remaining clients to stop getting updates for that tag. This has been resolved.	New for 10.96
65788 65878	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.	10.95.5

Web Services

Ref ID	Description	First Available In
72601	Certain clients including BridgeWorX64, ReportWorX64, and BI Server could not detect column headers for Web Services data sources that returned a dataset. This has been resolved.	New for 10.96
66161	The Rate Limiter for REST Web Services did not truly limit the call rate. This has been resolved.	10.95.5
66179	Web Service points requested with a nonexistent path returned an empty variant with good quality. Now they return BadUnexpectedError.	10.95.5
61470	Improved the handling of OAuth 2.0 refresh tokens in Web Services. Previous to this fix, they could sometimes fail to update correctly.	10.95.4
62935	Web Services points would return BadInvalidPointName when certain characters are present in the service name, method name, or return value. These characters included parentheses and dashes.	10.95.2

Workbench Provider

Ref ID	Description	First Available In
67278	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.	10.95.5
67320	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.	10.95.5

GENESIS64

Ref ID	Description	First Available In
68838	Attempting to load a new display before an ICONICS control (such as AlarmWorX64 Viewer, GridWorX Viewer, or TrendWorX64 Viewer) has finished initializing would cause global aliases to stop resolving. This has been resolved.	New for 10.96

AlarmWorX64

Logger

Ref ID	Description	First Available In
56463	Resolved a race condition on startup that could cause some alarms to fail to be logged to the secondary database after the loggers were started.	New for 10.96
72319	Resolved an issue in archiving that could occur after upgrading an AlarmWorX64 Logger configuration. The first time the archive was processed the archive tables would be created, but the original records would not be removed from the active table. Subsequent archiving attempts would fail with a "Cannot insert duplicate key row..." error.	New for 10.96
65518	Resolved factors causing slow alarm history replay from a pair of redundant SQL Server logging databases when one of the databases was offline.	10.95.5
67697	Resolved an issue that could cause the secondary alarm logger to fail to log alarms when it was active.	10.95.5
67763	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.	10.95.5
68011	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.	10.95.5
61759	Resolved an issue that could cause the attributes subscribed by the AlarmWorX64 Logger to change when moving the logger configuration to another system.	10.95.4
62579	Resolved an issue where the incorrect list of attributes was presented in the AlarmWorX64 Logger when subscribing to an alarm server via the FrameWorX network. Attempting to use these incorrect attributes would result in only the standard columns being logged.	10.95.4
63794	Resolved issues with expression filters when they were applied to historical alarms. In both cases, the same expression filter for live alarms would work fine. The "tostring()" expression was being incorrectly evaluated, and wildcards (such as "**") were not being properly processed in the like() function if the argument containing the wildcard was a result of another function.	10.95.4
62647	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.	10.95.3
56981	If the AlarmWorX64 Logger receives an alarm or event update with a NULL timestamp it will substitute its own server time for the timestamp. Previously, such alarm or event updates would not be logged.	10.95.1
	Resolved an issue that could cause the alarm logger to fail to process store and forward files while it was in the standby state, even with the following INI entries configured.	
57071	[AWX\AWXLog] InsertRetries=1 AllowStandbyStoreFwd=1 RedundantLoggingToUniqueTables=1	10.95.1
57680	Enabling security and later disabling it could prevent the AlarmWorX64 Logger's historical alarms from being viewed. This has been resolved.	10.95.1
	In a redundant scenario with "Enable Secondary Datasource" and "Store and Forward" enabled, the secondary alarm server would not create any alarm logging tables. This has been resolved. The resolution requires these lcoSetup64.ini entries to be present on both systems:	
63027	[AWX\AWXLog] AllowStandbyStoreFwd=1 RedundantLoggingToUniqueTables=1	10.95.1

Logger Workbench Provider

Ref ID	Description	First Available In
64912	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).	10.95.5
66687	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.	10.95.5

Server

Ref ID	Description	First Available In
68887	Resolved a very rare crash in the alarm server.	New for 10.96
65622	Resolved an issue that could generate incorrect Rate of Change alarms when dynamically changing the Enabled property of an alarm tag.	10.95.5
67767	Alarms with a configured delay could not be acknowledged while the delay was running. This has been resolved.	10.95.5
61180	Using alarm DA tags such as "DIG_LIMIT" to change the alarm limits during runtime could cause the alarm to re-trigger with a new timestamp after the database scan period. This has been resolved.	10.95.4
62257	Resolved an issue that would cause the Recursive_Area_Shelve_Count DA point to incorrectly increase by two every time an alarm is shelved.	10.95.4
63221	Resolved an issue that could cause online configuration changes (such as deleting alarms) to prevent the alarm server DA values from updating. This would only occur when the configuration contained alarm tag names with periods in them.	10.95.4
62619 48041	Resolved an issue that could cause AlarmWorX64 Server DA tags to not update properly after the configuration database was updated.	10.95.3
62620	For alarms with "Latch on Unacknowledge" set, Latch UnAck commands were not properly being sent from the AlarmWorX64 Server. This could cause Latch UnAck comments and the Latch UnAck event itself to be lost from alarm log records. This issue has been resolved.	10.95.3
62796	Previously, AlarmWorX64 Server DA tags for XX_Alarm_State (like LIM_Alarm_State) could incorrectly show a very small floating-point value such as 1.48e-323 instead of 0. This has been resolved.	10.95.2
57111	Resolved an issue that could cause redundant alarm loggers with "Enable Secondary Datasource" enabled to not have identical logging databases after a failover.	10.95.1

Server Workbench Provider

Ref ID	Description	First Available In
65403	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").	10.95.5
66053	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.	10.95.5

Viewer

Ref ID	Description	First Available In
57266	Resolved a System.NullReferenceException crash in the alarm viewer. This crash would occur in viewers that used global aliases. Updating those global aliases could result in this crash. The crash could happen in any format of the alarm viewer but would occur most often in HTML5 clients (where it manifested as a crash of w3wp.exe).	New for 10.96
60556	When you load a previously saved configuration into an AlarmWorX64 Viewer it appears to use American regional settings for the date/time format, even if the system settings are configured for another language. This has been resolved.	New for 10.96

Ref ID	Description	First Available In
62490	The columns on the Condition tab of a grid object can now be resized. Note that the default list of conditions is read-only and cannot be resized, but a newly created conditions set can be resized.	New for 10.96
62491	On systems using display scaling (usually with a 4K monitor), the OK and Cancel buttons would not be visible in the Visual Styles Management dialog. This has been resolved.	New for 10.96
65703	Resolved a crash that could happen when another column was added to an existing multi-column sort.	New for 10.96
66629	When an AlarmWorX64 Viewer List was set to Compact Mode, it would incorrectly allow the expansion of alarms. Alarm expansion should be disabled in compact list view. This has been resolved.	New for 10.96
66705	Performing a drill-down action on an alarm viewer that was already filtered could incorrectly show alarms that did not match the filter. This has been resolved.	New for 10.96
66850	When using AlarmWorX64 Viewer's list view, selecting some alarms, and bringing up the acknowledge dialog, "all" would be the default. This has been resolved - now "selected items" is the default for the acknowledge dialog if some alarms are selected.	New for 10.96
67869	In list mode, alarms with long descriptions could overlap the priority number in the bottom right. This has been resolved. The priority is now always visible. If the description is too long, a tooltip is available with the full text.	New for 10.96
68991	When in list view mode, the AlarmWorX64 Viewer would crash when the user attempted to acknowledge an alarm. This has been resolved.	New for 10.96
72178	Under rare circumstances, when the AlarmWorX64 Viewer's CanContentScroll option was disabled, it could cause its container (usually GraphWorX64) to stop responding and use up all of the system's CPU. This has been resolved.	New for 10.96
64822	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.	10.95.5
65682	Resolved a memory leak in the AlarmWorX64 Viewer that could occur with a very large number of alarm changes per second (around 4000).	10.95.5
66891	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.	10.95.5
68250 68251	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.	10.95.5
61687	Fixed a "NullReferenceException: Object reference not set to an instance of an object" crash in AlarmWorX64 that could occur when grouping based off of current values.	10.95.4
62130	The AlarmWorX64 and GridWorX Viewers now obey the IsTabStop property.	10.95.4
63302	Improved the performance of the AlarmWorX64 Viewer when the currently logged-in ICONICS security user was changed. Previously, the performance was such that the localsim::currentUser would take noticeably longer to update when there was an AlarmWorX64 Viewer present on the screen. Now, the localsim::currentUser should have no noticeable delay when there is an AlarmWorX64 Viewer present.	10.95.4
63561	The HTML5 AlarmWorX64 Viewer now allows multiple alarms to be selected at once for acknowledgement purposes.	10.95.4
64542	Resolved an issue preventing filters from applying to live alarm charts.	10.95.4
64566	The AlarmWorX64 Viewer can now use the ShowDialog setting when it receives a Set Time Range command.	10.95.4
60552	AlarmWorX64 Viewers that contained virtual fields with clickable links ignored the first click after the display went into runtime. This has been fixed.	10.95.3
61872	The AlarmWorX64 Viewer's export CSV option now exports in UNICODE.	10.95.3
58915	When enabling the pagination option, the page size text in the footer area was correctly using the configured background color but was ignoring the foreground color. This has been fixed - the page size text now uses the configured foreground color as well.	10.95.2
58931	Resolved an issue preventing the editing of AlarmWorX64 Viewer scrollbar properties on systems where the Windows language settings were configured to be something other than English (US).	10.95.2
56951	Fixed an issue in the AlarmWorX64 Viewer where clickable link text would not resolve.	10.95.1

Ref ID	Description	First Available In
57209	A language aliasing resolution error would cause blank lines to appear when showing historical alarms in the AlarmWorX64 Viewer. This issue has been resolved.	10.95.1
63076	Resolved an issue in the historical alarm access that could cause it to return less than the available number of records. This only happened for very large numbers of alarm records (~1000).	10.95.1

AlarmWorX64 Multimedia

Ref ID	Description	First Available In
46077	Triggering the sound multimedia agent on a system with no sound card caused MMXSound.exe to crash. This has been resolved.	New for 10.96
67050	The phone agent can subscribe to alarms again, meaning the call-in agent can list active alarms. This functionality was missing in 10.95, and it has now been restored. (This issue was previously documented as a known issue with reference IDs 56485 and 67050.)	New for 10.96
69107	When triggering multiple actions in an action set and the triggering alarm returned to normal or was acknowledged too quickly, not all messages would be sent. All messages are now sent immediately. Note that the stop condition must be disabled for this solution to function.	New for 10.96
72492	Resolved an issue causing AlarmWorX64 MMX to send malformed SMTP messages. Most SMTP servers were able to deal with these malformed messages without an issue, but some detected it as spam-like behavior and blocked them. The underlying cause of the malformed message involved a problem retrieving the message ID. This was resolved. In addition, a fallback method was added to allow the user to directly specify the message ID in case it could not be retrieved programmatically. To specify the message ID, edit IcoSetup64.ini and add this entry, replacing "MessageID" with the message ID. [AWXMMX32\MMXMail] Default IMFIP=MessageID	New for 10.96
64691	Only alarms coming from a local subscription could be acknowledged via the pager agent. This has been resolved.	10.95.5
64795	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.	10.95.5
65118	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.)	10.95.5
62555	Resolved an issue that could prevent agents on remote nodes from being triggered by AlarmWorX64 Multimedia.	10.95.4

Workbench Provider

Ref ID	Description	First Available In
68181	The Unicode pager test button would return a "License code is invalid" error. This has been resolved.	10.95.5

AlertWorX

Ref ID	Description	First Available In
67654 67655	Enhanced AlertWorX email address validation so it accepts top level domains (such as .com and .edu) that are longer than four characters.	10.95.5
63309 62044	Resolved a timing issue that could sometimes cause AlertWorX alerts to not trigger after a ReportWorX64 report was generated.	10.95.4
63983	Added retry support to the Send Email redirector command to better handle brief communication failures, such as small network outages.	10.95.4
64523	The AlertWorX pager agent would show this TraceWorX error in startup: "Failed to use alarm loaded configuration." This has been resolved.	10.95.4

Ref ID	Description	First Available In
57673	Resolved an issue that would prevent AlertWorX from sending SMS messages to more than one recipient.	10.95.1

AssetWorX

Ref ID	Description	First Available In
61935	Resolved an error that could occur when renaming properties in an equipment class and updating the instances of that class. The error would occur if the user renamed an existing property then added a new property with the old name of the existing property (such as changing "PropertyA" to "PropertyB", then adding a new "PropertyA"). The exact error message would look something like this: "Repository Exception. Violation of UNIQUE KEY constraint 'IX_ASC_EquipmentProperties_Guid'. Cannot insert duplicate key in object 'dbo.ASC_EquipmentProperties'."	New for 10.96
65144	Using an empty set of curly brackets in an expression in an AssetWorX property would result in a "Bad - Configuration Error" result and a TraceWorX error message of "Point '<point name>' read expression: error parsing expression '<expression>' - Variable name can't be an empty string at Ln <x>, Col <y>". This would occur even if the empty curly brackets would never be reached, such as in this expression: x=IF 1 > 5 THEN {} ELSE 10 The same expression would resolve in GraphWorX64. This has been resolved - the expression in AssetWorX no longer gives a parsing error, however you will still get "Bad - Invalid Point Name" if the empty variable is returned.	New for 10.96
65386	Resolved an issue with the ASC_GetEquipmentFullPath stored procedure that would cause the procedure to hang and never return a value if it was passed an invalid AssetID.	New for 10.96
64732	When instantiating equipment from an equipment class, occasionally the equipment properties would end up under the wrong equipment. This has been resolved.	10.95.5
65361	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.	10.95.5
67171	Resolved an issue where disabled equipment would incorrectly still count towards .ChildEquipmentCount of the parent.	10.95.5
67479	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.	10.95.5
67533	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.	10.95.5
61901	Improved the GenerateAlarm and GenerateHistory fields to allow parameters.	10.95.4
62090	On a FIPS-enabled machine, AssetWorX clients would see a blank tree, possibly with this message: "The current selection does not provide any data. Select a different item to visualize data." The AssetWorX Point Manager would trace this exception: "InvalidOperationException : This implementation is not part of the Windows Platform FIPS validated cryptographic algorithms." This issue has been resolved. AssetWorX now functions properly in a FIPS-enabled system.	10.95.4
63213	Resolved an issue with the "qarray" function in AssetWorX. An aggregate of a qarray (such as "sum(qarray())") would incorrectly return bad quality if any of the constituent elements were bad quality.	10.95.4
59679	A default or directly accessible command was not working with a Global Alias in the "Target" field. This has been fixed.	10.95.3
57008	AssetWorX event fields no longer contain dots as separators. Now the underscore is used as a separator. This change allows AssetWorX event fields to be used in filters in clients such as the alarm viewer.	10.95.1

Ref ID	Description	First Available In
57283	In previous versions, equipment properties with values that were defaulted to empty or blank would return a "Bad - Configuration Error". This issue has been resolved.	10.95.1
63051	Resolved a crash in the AssetWorX Point Manager when configuring an asset with an external link to point to the local AssetWorX Server. This configuration of having an external link to a local point is still not supported, but it no longer crashes.	10.95.1

Asset Navigator

Ref ID	Description	First Available In
62389	The Asset Navigator now obeys the IsTabStop property.	New for 10.96
68273	If multiple Select Asset commands were executed in quick succession for the same Asset Navigator, the navigator could break, showing the wrong parts of the tree. This has been resolved.	New for 10.96
70361	Resolved a memory leak that could occur on displays containing an Asset Navigator, Heatmap, Data Diagram, or Smart Tile with a microchart. This included the Health Monitoring pages.	New for 10.96
70945	The Asset Navigator would not return any search results if an equipment exists that contains an invalid external link (such as to a server that does not exist or is offline). This has been resolved.	New for 10.96
65097	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.	10.95.5
67004	Resolved various issues with interacting with the Asset Navigator on touch screens.	10.95.5
67251	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 10.96, 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.	10.95.5
61673	Fixed an issue where styling rules persisted in the Asset Navigator even after being deleted.	10.95.4
61697	Resolved an issue where language aliases would not be resolved when they were used in the root alias of the Asset Navigator.	10.95.4
61985	A certain combination of actions/commands executed in quick succession could cause the Asset Navigator to draw the asset tree twice, resulting in the appearance of duplicate assets. This issue has been resolved.	10.95.4
62100	Resolved an issue that would prevent the default asset's default command from executing when the navigator loaded if a user's default and root assets were configured to be the same.	10.95.4
63873	Resolved an issue that would cause the Select Asset command to appear to not unselect any previous assets when the multiselect option was enabled in the Asset Navigator.	10.95.4
62741	Attempting to drag-and-drop an asset while the context menu was open could cause a freeze or crash. Drag-and-drop is no longer allowed when the context menu is open.	10.95.3
58979	Resolved a rare crash (unhandled InvalidOperationException) in the Asset Navigator.	10.95.2
59266 59860 62681	In previous versions, when using the "Select Asset" command in the Asset Navigator, the default command for that asset would always be executed, even if "None" or "Specific" is selected for the ExecuteCommand property of "Select Asset". This issue has been resolved.	10.95.2
63038	Resolved an issue where command icons for assets could get stuck outside the bounds of the control.	10.95.1

Workbench Provider

Ref ID	Description	First Available In
61613	Exporting a folder under Equipment Classes and then importing it (especially into a new project or database) could cause "Cannot find a parent item" and "Cannot find a referenced entity" errors, and only the first item in the folder would be imported. This has been resolved.	New for 10.96
63781	Under Alarms & Events Settings > General Settings and Subscriptions, changing a value in the Alarm Type column and clicking outside the column would not enable the Apply button. This has been resolved.	New for 10.96
64594	Resolved an issue that would prevent the user from dragging a tag from the data browser into an equipment property field, such as the Real time data tag field for dynamic tags.	New for 10.96

Ref ID	Description	First Available In
65126	When creating an expression on an asset property, going to Variables, then the @@ tab, choosing a property would result in the property's display name being selected instead of its actual name (such as @@self/DisplayName instead of @@self/RealName). This resulted in an invalid tag name. This has been resolved - the tag is now correctly built using the real property name.	New for 10.96
65905	Exporting an AssetWorX equipment nested class or expanding Workbench to a nested class that had itself listed as the referenced class (Instance Details tab) would cause the Workbench Point Manager to crash. The crash has been resolved; however, this is an invalid configuration, and may not behave as expected. Users who find themselves in this situation should either remove the link to the referenced class or delete the nested class and recreate it.	New for 10.96
68375	In Workbench, under Assets > Product Configuration > Other Settings the Connection String field in the Cache Data Store section now masks passwords.	New for 10.96
67397	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.	10.95.5

Controls

Ref ID	Description	First Available In
62386	The Data Explorer control now obeys the IsTabStop property.	New for 10.96
62387	The Security Login control now obeys the IsTabStop property.	New for 10.96
62390	The Data Diagram now obeys the IsTabStop property.	New for 10.96
70361	Resolved a memory leak that could occur on displays containing an Asset Navigator, Heatmap, Data Diagram, or Smart Tile with a microchart. This included the Health Monitoring pages.	New for 10.96
63471	Heatmap control data sources can now be find using the Find & Replace feature of GraphWorX64.	10.95.4

Camera Control

Ref ID	Description	First Available In
65966	Resolved a crash (System.NullReferenceException) of IcoStreamingService.exe that would occur after applying certain Microsoft updates.	New for 10.96
68169	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.	10.95.5

Data Explorer

Ref ID	Description	First Available In
65312	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.	10.95.5
63474	Resolved a problem with the Data Explorer that could cause it to stop displaying trend data after switching between multiple trends.	10.95.4
58115	Historical data in AssetWorX tags was being displayed as real-time data. This has been resolved.	10.95.1

EarthWorX

Ref ID	Description	First Available In
63801	Added the ability to connect to ArcGIS servers. Previously, only connections to standard ArcGIS portals were allowed.	New for 10.96

Ref ID	Description	First Available In
68964	Resolved an EarthWorX crash ("ArgumentException : Width and Height must be non-negative.") when setting the default starting region for a display whose height was set to less than 512 pixels.	New for 10.96
71474	Resolved an "Object reference not set to an instance of an object" error when entering an OGC/WMS v1.3.0 URL in the connection setup.	New for 10.96
61875	Resolved an issue that could cause a hidden EarthWorX layer to not load properly when it was changed to be visible.	10.95.4
62273	Resolved a rare issue that could cause the EarthWorX map to occasionally fail to load. This most often happened to maps inside multiple levels of GraphWorX64 viewers.	10.95.4
62539	Fixed an issue where EarthWorX Smart Pins may disappear after loading a display.	10.95.4
62546	Resolved an issue that could cause pins to incorrectly move when zooming. This was resolved for both the WPF and Silverlight EarthWorX Viewers.	10.95.4
63193	Resolved an issue with the computation of map boundaries for the default region of custom Esri maps.	10.95.4
63227	Resolved an XAML parse error (RuntimeCoreNet.GeneratedWrapper.CoreWrapperBase) when opening a previously saved display containing an Esri map.	10.95.4
60406	Resolved a rare crash (NullReferenceException) in the EarthWorX control.	10.95.3
57223	Resolved an issue with pushpins that had NoZoom set to True and dynamic positioning. This issue could cause size dynamics on these pushpins to work in unexpected ways.	10.95.1
63112	Removed a "Licensed for Developer Use Only" watermark from custom Esri map layers.	10.95.1

GraphWorX64

Ref ID	Description	First Available In
20417	If a display is loaded and new global aliases are set as part of the load action, performing a "display back" action should both load the prior display and reset the aliases to their prior values. In some cases, the aliases were not being properly restored. This could occur when there was a combination of displays in the history that were loaded both with and without initial aliases. This has been resolved.	New for 10.96
45432	Local aliases were not working consistently inside of smart tiles. This has been resolved.	New for 10.96
57698	In configuration mode, if the number of lines drawn to divide grid panel cells exceeded 32 lines, the lines would not be drawn. This limit has been extended to 100 lines.	New for 10.96
58398	Resolved an uncommon issue with scaling text box objects. When this issue occurred, resizing a symbol would not correctly resize any text boxes inside that symbol.	New for 10.96
58411	If an adjustable faceplate is used in conjunction with a grid display with no fixed size, the faceplate sometimes collapses to nothing on load of a display, causing GraphWorX64 to show a blank white screen instead of the display. This has been resolved.	New for 10.96
61667	Resolved an issue with pasting dynamics for a color dynamic between different object types, such as a rectangle and a pipe. Previously, not all settings would be applied correctly in the pasted dynamic.	New for 10.96
61686	Global alias themes were not being properly set if a display was loaded that contained dynamic content (such as an expression) in its GlobalAliases property, and the load display command also specified global alias themes to set. This has been resolved.	New for 10.96
65486	If a display contained a polyline, polygon, or pipe that contained sequential identical vertices, this error would be displayed: "'NaN' is not a valid value for property 'X2'." When the error was dismissed, the display would be unloaded. This has been resolved - displays with this unusual configuration will now open without issues.	New for 10.96
65747	When saving a .gdfx screen as .gdfxp, elements in stack panels may change their location. This has been resolved.	New for 10.96
67608	Importing certain BIM files would throw a "Database in use" error. This has been resolved.	New for 10.96
67761	Resolved an issue causing new display creation to ignore the "Faceplate Visible" option that is configured in the "New Settings" dialog.	New for 10.96
68452	The time picker now respects Windows localization settings for the time format. Previously it only supported 12-hour format.	New for 10.96
68520	Using the local Write Value command to write into an OPC UA array did not generate a GenEvent message. This has been resolved.	New for 10.96
69138	When adding a layer to a viewbox, the objects under the layer will no longer be visible. This has been resolved.	New for 10.96

Ref ID	Description	First Available In
69835	On touchscreen devices, popup menus were not working when being activated on an "on down" event. They would be dismissed before the user could choose an option. This has been resolved by internally switching the behavior to an "on up" event when used on a touch device. The configuration will remain as "on down", and systems that only use a mouse will still behave as "on down".	New for 10.96
69896	Resolved an issue where smart properties that resolve to tag names weren't always requested for cloned smart symbols. This could result in properties that only resolved to values on the original symbol, not the clones.	New for 10.96
69995	Resolved a rare issue with requesting data for objects in layers that could cause data to fail to load.	New for 10.96
70384	When a local alias that hasn't been assigned a value is used in an expression (such as {{{ "<alias>" }}}) the expression would return null. This has been resolved - the expression now correctly uses the alias name itself (so if the example expression above were used in the data source of a process point, the process point would display "<alias>" - without quotes - in runtime).	New for 10.96
70946	Grouping or ungrouping primitives (such as lines, polylines, polygons, paths, and arcs) that were already inside a group inside of a grid panel could cause the primitives to move position. This has been resolved.	New for 10.96
64693	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.	10.95.5
64937	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.	10.95.5
64944	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.	10.95.5
65014	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.	10.95.5
65359	Resolved a rare crash in Statefield dynamic that could occur when loading a display.	10.95.5
65568	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.	10.95.5
67447	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.	10.95.5
67577	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.	10.95.5
68177	The ZoomToObject option of the Set View pick action would not zoom to the configured object under certain conditions. This has been resolved.	10.95.5
68373	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.	10.95.5
68449	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.)	10.95.5
60462	Added support for color in labels imported from DWG files.	10.95.4
61933	A change in .NET Framework 4.7.1/4.7.2 caused the touch controls to stop working. This has been resolved - touch should now work both in the old and new .NET Framework versions.	10.95.4
62045	In previous versions, GraphWorX64 could crash when importing .dwg files containing references to external resources. This issue has been resolved.	10.95.4

Ref ID	Description	First Available In
62494	Resolved a rare issue that could cause certain third-party controls to disappear when going into runtime.	10.95.4
63195	When importing AutoCAD files with Attribute Text, the attribute names were imported instead of the attribute values. This has been resolved.	10.95.4
63237	Made improvements to the AutoCAD import that allowed HTML5 displays to better parse transforms. This should not have any effect on the desktop (WPF) handling of AutoCAD files, but helped avoid issues in HTML5 displays. (See item 63239.)	10.95.4
63247	Added handling for an NotImplementedException exception that could be thrown when importing DWG files.	10.95.4
63290	If a client trying to load the WPF WebHMI pages for the first time clicks the "Skip" link on the GraphWorX64 splash screen, they will get an "Exception has been thrown by the target of an invocation" error. This has been resolved.	10.95.4
63311	When GraphWorX64 was running in a runtime-only client (including WPF WebHMI by default), the document level of global aliases would not initialize properly inside embedded displays. This issue has been resolved.	10.95.4
63330	Resolved XAML parsing errors that could occur when importing SVG files that included "textured fills" (a fill that was an image, rather than a color or gradient).	10.95.4
63494	Resolved an issue with scaling the on-screen keyboard for lower resolutions, like 1024 x 768.	10.95.4
63543	Quick access toolbar is no longer allowed to be moved below the ribbon. This was done to avoid a problem with the ribbon component that could cause the quick access toolbar to become hidden when it was moved below the ribbon.	10.95.4
63812	Resolved an issue that would cause clones to constantly regenerate at every update rate (causing a visual "flicker") when using a "valueof:" tag in the NumberOfInstances property of a clone dynamic.	10.95.4
59364	Improved the display load times when loading desktop GraphWorX64 (WPF) in Internet Explorer. Previously, when not using "localhost" as the server name, these displays would load extremely slowly. Now their loading time should be more compatible to regular desktop GraphWorX64.	10.95.3
60436	Refreshing Internet Explorer with a desktop (WPF) GraphWorX64 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.	10.95.3
62633	The green loading bar sometimes stopped appearing for desktop GraphWorX64 (WPF) pages in Internet Explorer. This has been resolved.	10.95.3
62703	When using templates that have tabs on them, the tabs were duplicated on the screens that used the template. If someone had a large number of tabs or screens, they would have had to remove the duplicated tabs from each screen. This has been resolved. Reapplying a template across displays no longer copies in an extra tab.	10.95.3
57430	Fixed a rare crash in GraphWorX64 that could occur when trying to edit the properties of certain shapes.	10.95.2
58042	Resolved an issue with box zoom that would cause it to zoom into a random location.	10.95.2
62817	Resolved an issue that would cause a BIM import to hang and never complete on systems with non-English regional settings.	10.95.2
56683	Fixed an error in GraphWorX64 where the Global Color Palette could not switch themes and would only show the default theme.	10.95.1
57026	Previous to version 10.95, an "IF THEN" expression with no "ELSE" would not write any value if the "IF" statement was false. In version 10.95, the expression would return "NULL". The behavior has been returned to pre-10.95 functionality – no value is written if the "IF" statement is false and there is no "ELSE".	10.95.1
60264	Load Display pick actions configured as popups with a StartLocation property did not start in the correct location when StartLocation was bound as a smart property. This has been resolved.	10.95.1
62958	Displays could briefly appear to an unauthorized user before the "access denied" page was shown. This has been resolved.	10.95.1
62968	Resolved an issue that would cause displays with "Start Maximized" enabled to always open on the primary monitor even if the X/Y position of the display was for a different monitor.	10.95.1
62988	Resolved an issue where the ValueOne or ValueTwo properties of Toggle Value pick actions could lose their smart binding in smart symbols.	10.95.1
63031	Improved "gray out" behavior for disabled buttons with pick dynamics. Button content, such as text, will now "gray out" as well instead of remaining black.	10.95.1

Ref ID	Description	First Available In
63036	The name of the logged-in user is now included in the ActorID column of the "Operation Denied" GenEvent message that results when that user attempts to load a display without proper security access.	10.95.1
63039	Symbols that consisted of a single path object were not positioned properly when putting them into a grid layout. This has been resolved.	10.95.1
63075	Resolved an issue that would cause popups to appear blank when display caching is enabled. The popup would appear correctly the first time - this issue would only appear subsequent times the display was loaded.	10.95.1
63105	Changes to global aliases could result in a blank value instead of the chosen value. Toggling out of and back into runtime would display the correct alias value.	10.95.1

3D Viewport

Ref ID	Description	First Available In
65550	Resolved a crash when attempting to render a wireframe selection mesh for a very large 3D selection. GraphWorX64 no longer crashes but rendering a selection mesh for such large objects can still be very intensive, so it is recommended for large objects to make sure the 3D viewer is focused, go to File > Options and select Bounding Box Wireframe.	New for 10.96
68457	Resolved a System.InvalidOperationException error that could occur when importing a DAE file containing certain image-filtering COLLADA assets into a 3D Viewer.	New for 10.96
68499	Changing the order of views in a camera patrol could alter the saved position of the views. This has been resolved.	New for 10.96
64933	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.	10.95.5
65746	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.	10.95.5
67163	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.	10.95.5
61811	Fixed an issue within GraphWorX64 3D displays where camera views could snap to the incorrect position.	10.95.4
62953	Dynamics on objects inside of 3D Viewports could stop working properly when a layer existed on the display that had visible set to False or was hidden via security. (The layer did not have to contain the 3D Viewport to trigger this issue.) This has been resolved.	10.95.4
63025	If two objects are in the collision state when going into runtime, the event that the collision started wasn't generated. The two objects would have to go first out of the collision state and then back into it to trigger a new event. This has been resolved.	10.95.4
63495	Annotations could prevent pick actions from being executed on 3D objects, even when the annotations were hidden. This has been resolved.	10.95.4
64717	The "On collision end" settings were not being saved when you changed the collision detection settings on a screen. The changes would only take effect until the display was closed. The next time it was opened, the change would be undone. This has been resolved.	10.95.4
62594	When editing 2D materials for a 3D object, the objects involved in the material would not appear in the Explorer unless the user took some action to cause the Explorer to be redrawn (such as switching to the Symbols panel and back). This has been resolved.	10.95.3
62764	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.	10.95.3
62824	In certain cases, the "Make Reducible" option in the 3D viewport would actually increase the number of polygons. This has been resolved.	10.95.2
56960	Changing the view mode of a 3D viewport then going into runtime and back into configure mode would cause GraphWorX64 to crash. This has been resolved.	10.95.1
57081	Resolved an issue that would sometimes prevent the execution of pick actions inside of 3D groups.	10.95.1

Ref ID	Description	First Available In
63054	The scale operation now correctly respects the configured center point when it has been moved from the default.	10.95.1
63055	When transforming objects, the displayed transform value did not always equal the user-entered transform. For example, the user might enter a rotation of <0,-90,0> but the displayed rotation would be <0,90,0>. This has been resolved.	10.95.1
63057	In the 3D viewport, the three "stack" functions now correctly align the objects with the head object (the last one selected). Previously they were aligning with a random selected object.	10.95.1

Web Publishing Wizard

Ref ID	Description	First Available In
70125	Resolved a very rare crash in the web publishing wizard that could occur when publishing certain files with a 3D viewer.	New for 10.96
70441	Resolved an issue causing the Web Publishing Wizard to never finish if the published file extension was GDFX (all capitals) instead of gdfx (lower case).	New for 10.96
70443	Resolved an issue causing the Web Publishing Wizard to fail to convert smart symbols to groups when that option was enabled.	New for 10.96
67582	Resolved a crash in the Web Publishing Wizard that could occur when publishing a display with a Web Browser control to HTML5 format.	10.95.5
61934	Resolved an issue with the web publishing wizard that could cause it to fail to convert absolute paths to relative paths.	10.95.4
62046	Resolved an issue where the Auto-Start Runtime checkbox in the Web Publishing Wizard did not take effect.	10.95.4
60007	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.	10.95.3
42942	In the GraphWorX64 Web Publishing Wizard, the "File Analysis" section of the "Review File(s) to be Published" page would render in the incorrect location when the dialog was resized. This has been resolved.	10.95.1

RecipeWorX

Recipe Navigator

Ref ID	Description	First Available In
62379	The Recipe Navigator now obeys the IsTabStop property.	New for 10.96

ScheduleWorX64

Ref ID	Description	First Available In
62150	Fixed a "Fail to load schedule" error in ScheduleWorX64 runtime that could occur when browsing schedules under the Actions branch of the data browser.	10.95.4

Schedule Control

Ref ID	Description	First Available In
62378	The Schedule Control now obeys the IsTabStop property.	New for 10.96
65709	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.	10.95.5
67541	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.	10.95.5
64535	Resolved an issue where the Schedule Control did not accept the correct file types when choosing the startup configuration file.	10.95.4

Workbench Provider

Ref ID	Description	First Available In
66002	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).	10.95.5

TrendWorX64

Logger

Ref ID	Description	First Available In
70887	When using a SQL connection string that includes a SQL username and password, the user would get a "No Valid Configuration ID Found" error when attempting to start logging. This has been resolved.	New for 10.96

Viewer

Ref ID	Description	First Available In
26755	Resolved a rare issue that could cause the legend of a trend control to resize when the Update Shared Keyword action was performed in the display.	New for 10.96
42188	Resolved an issue that could cause the Visibility checkbox in the header of the legend to display too large.	New for 10.96
56462 57099	Multiple enhancements were made to reduce the load time of displays with multiple TrendWorX64 Viewers. Some of these enhancements were first available in update packs for 10.95, however there were further improvements made in 10.96.	New for 10.96
60743 61093	A loading or "busy" indicator was added to the desktop TrendWorX64 Viewers when loading historical data. It was added for the desktop (WPF) and Universal Windows Platform (UWP) platforms in 10.95.3, and to HTML5 in 10.96.	New for 10.96
66420	Resolved an issue where the TrendWorX64 Viewer was not properly handling tags from historical servers that did not offer any aggregates.	New for 10.96
68412	Resolved an issue with the data export that could cause multiple rows to appear for the same timestamp.	New for 10.96
69150	After changing the chart period in runtime, not all data is downloaded, and the chart remains partially drawn. This has been resolved.	New for 10.96
69458	Resolved an issue causing the legend's Cursor Value column to be blank when replaying logged string data.	New for 10.96
71229	When using a TrendWorX64 Viewer with the y-axis configured to auto scale the labels would sometimes show as cut off or not show at all when the data updates. This has been resolved.	New for 10.96
65472	Resolved a crash (InvalidOperationException) that could occur when navigating in summary view while the TrendWorX64 Viewer was in freeze mode.	10.95.5
65480	Resolved an issue where the Title, as specified in the default pen axis style, was never visible.	10.95.5
65927	Resolved an issue where zooming would not work consistently when using a TrendWorX64 Viewers with multiple tabs.	10.95.5
68250 68251	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.	10.95.5
62068	Fixed an issue where the TrendWorX64 Viewer may not allow the user to export data using the TrendWorX64 Viewer toolbar in WebHMI.	10.95.4
62383	The TrendWorX64 Viewer now obeys the IsTabStop property.	10.95.4
63464	Added the ability to set a default pen axis style. This style is set in the configuration under the Chart object on the Pens tab. When enabled, the style is used for creating new pens, both in configuration and runtime mode.	10.95.4
63787	Added support to TrendWorX64 Viewer to allow it to be embedded in scrollable panels.	10.95.4
63912	The "Apply To All Tabs" button would not properly apply the font for the legend of a chart that had been copied and pasted into a new tab.	10.95.4
65504	Added support for the Export Data command to the AlarmWorX64 Viewer.	10.95.4
59073	When adding pens in runtime, the last pen added would not show a value in the Tag Name column. This has been resolved.	10.95.3

Ref ID	Description	First Available In
60114	An error message saying, "The configuration file specified is not valid... 'lco.Twx.TwxExportDataSettings'. 'Columns' is null," could appear when the TrendWorX64 Viewer reopened a previously saved .twxx file. This has been resolved.	10.95.3
60447	A TrendWorX64 Viewer using the "Time Zones Alignment" feature was not properly shifting the time zone for AssetWorX equipment property pens when the time zone was specified in the parent equipment. This has been resolved.	10.95.3
60961	In the TrendWorX64 Viewer configuration, changing the name of a pen in the tree via the Rename option in the context menu did not always immediately change the name in the Name field on the pen's General tab. This has been resolved.	10.95.3
61424	Resolved a leak and eventual crash that could occur in TrendWorX64 Viewers using histogram plots.	10.95.3
38343	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).	10.95.2
57803	Resolved a memory leak that could occur when switching between screens with TrendWorX64 Viewers on them.	10.95.2
58748 59901	Resolved an issue that could cause the Data Browser, Print Preview, and similar dialogs to appear behind the "Configure your control" TrendWorX64 Viewer dialog.	10.95.2
57125	Fixed a memory leak in the TrendWorX64 Viewer related to display caching.	10.95.1
63074	When display caching was enabled and there was an alias in the TrendWorX64 Viewer's data source, changing the alias value could result in incorrect pen data. Certain parts of the pen would react to the alias change (such as the pen name) but the actual data would not - so the pen would appear to have switched but would be showing data from the previous pen. This has been resolved.	10.95.1

Hyper Historian

Collector

Ref ID	Description	First Available In
62582	When browsing for OPC UA data via the FrameWorX network from a machine that had the 64-bit standalone Hyper Historian Collector installed, instead of standard point names of "X/Y.Z", you'd see something like "X<Organizes>Y<HasProperty>Z". This has been resolved.	10.95.4

Hyper Historian Express

Ref ID	Description	First Available In
65798	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.	10.95.5

Hyper Reader

Ref ID	Description	First Available In
57457	The Hyper Reader would not recognize the "ua:" syntax for tag names (such as "ua:HyperHistorian\\Configuration/Signals/Random"). This has been resolved.	New for 10.96

Logger

Ref ID	Description	First Available In
68947	Resolved an issue that would prevent the Hyper Historian Logger from entering runtime if there were logging groups with the same name under different loggers. When this issue occurred, TraceWorX would trace this exception: "NullReferenceException : Object reference not set to an instance of an object."	New for 10.96
70185	Resolved an issue in data deletion that could result in data integrity issues in HHD files, which could in turn lead to inconsistent results when reading logged data. Note that this solution will not repair HHD files that already have this issue. If you believe you have files in need of repair, please contact technical support.	New for 10.96
71592	Resolved a rare issue that could cause Hyper Historian to stop replaying logged data. When this issue occurred, Hyper Historian's TraceWorX would log messages such as: "Open failed: <path to HHD> -> BadResourceUnavailable".	New for 10.96
71765	Took steps to address a very rare issue in Hyper Historian that could cause the operating system to crash.	New for 10.96
72056	Resolved an issue that could cause Hyper Historian to consume an unusually high amount of memory when started. The solution involved reducing the default value for the IO buffers allocated for each disk volume.	New for 10.96
65566	Resolved an issue where logging could fall behind or stop when Hyper Historian was logging tags of type char or char[].	10.95.5
65732	Resolved a rare issue with aggregate recalculations that could cause extremely large HHD files, high CPU usage, and logging to stop.	10.95.5
66382	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.	10.95.5
66598	<p>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.</p> <p>The new timeout durations can be customized by editing HHLoggerService.exe.config, then uncommenting and modifying these values in the <appSettings> section:</p>	10.95.5

Ref ID	Description	First Available In
	<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>	
66858 66725	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.	10.95.5
67036	Resolved a very rare NullReferenceException that could cause the Hyper Historian to stop logging.	10.95.5
67583	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.	10.95.5
67916	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).	10.95.5
68121	The deadband did not work consistently for points with a data type of Native. This has been resolved.	10.95.5
61580	Boolean calculated tags would sometimes randomly be recalculated so that previously True values returned as False. This has been resolved.	10.95.4
62493	Resolved a rare deadlock that could cause Hyper Historian to stop returning data (HDA or DA) and stop processing MergeWorX inserts.	10.95.4
56983	Resolved a rare issue in Hyper Historian that would cause it to stop responding to clients. When this issue would occur FrameWorX traces would show "BadNoCommunication 'Server not responding to keep alive requests'" for Hyper Historian.	10.95.1
57018	Enabling 'Collector overwrites SourceTimestamp of data with its actual UTC time' could inadvertently result in Hyper Historian not logging any data from any collectors. This issue has been resolved.	10.95.1
57072	Fixed an issue where a CSV import could change the GUID for the configured logger, making previously logged data inaccessible.	10.95.1

Performance Calculations

Ref ID	Description	First Available In
65160	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.	10.95.5

MergeWorX

Ref ID	Description	First Available In
69264	Resolved an issue that could cause failed CSV files to not be moved into the designated Failed folder.	New for 10.96
65665	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."	10.95.5

SQL Query Engine

Ref ID	Description	First Available In
56035	Resolved an issue causing the RAWDATA_UPDATE and RAWDATA_INSERT procedures to not work. They would return an empty recordset and not make any changes to the data.	New for 10.96
60560	<p>When pulling annotation data from Hyper Historian by querying a tag name like "Sine.:Annotation", extra records are returned. These extra records are "boundary values". These boundary values are still returned by default, but they can now be disabled by executing the following query before you query for your annotations:</p> <pre>SELECT * FROM OPENQUERY(HH2, 'UPDATE QUERYSETTINGS SET INCLUDE_BOUNDARY_VALUES = 0')</pre>	New for 10.96

Workbench Provider

Ref ID	Description	First Available In
58950	Resolved a crash that could happen when changing the order of parameters in the parameter list of calculation functions.	New for 10.96
59984	Resolved a rare crash that could happen when analyzing a calculation loaded from an external library.	New for 10.96
67279	At some point, the archiving storage limit check condition (configured in Workbench under Historical Data > Hyper Historian > Loggers & Groups > your logger > Archiving Information tab > Storage Limit - Check on Condition section) lost the ability to configure days. Only hours, minutes, and seconds could be configured. The days field has been restored. This did not affect the database itself, or the behavior of the logger's archive. Hours could still be stored in the configuration database if it was edited manually or upgraded from a previous version. However, configurations that did have a value in the hours field could have problems editing the logger page because of the conflict between what was visible in Workbench and what was configured in the database. (This is no longer an issue, since the days field has been restored.)	New for 10.96
69420	In the Analyzer, the <code>trgnamecur()</code> function would return a datetime instead of a string. This has been resolved.	New for 10.96
70574	Resolved an issue that could prevent the browsing of Hyper Historian tags or configuration. This could cause high CPU usage from clients attempting to browse the configuration.	New for 10.96
71154	Resolved a crash of Workbench that would occur when using Japanese characters and arithmetic in Hyper Historian calculated tags.	New for 10.96
65661	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".	10.95.5

Installation

Ref ID	Description	First Available In
59031	Resolved an issue in the installation media that would prevent links on the initial launch screen from working if the installation media was copied into a folder whose name contained a space. The IcoSetup database is no longer included in a unified configuration database during installation. This is a logical separation because IcoSetup contains machine-specific settings, whereas the rest of the unified database contains project settings.	New for 10.96
59720	The installation was inconsistent with the "new project" wizard in Workbench. Workbench would not include IcoSetup in a new unified configuration database. This inconsistency could cause issues if a user created a unified database during the installation, then later tried to replace it with a new unified configuration with Workbench. Their system would be left without an IcoSetup database and would be unusable. The installation is now consistent with Workbench, and the IcoSetup database should always be separate from the unified configuration database.	New for 10.96
64721	Resolved an issue where machines with TLS 1.0 disabled would not be able to install ICONICS products. They would receive an error message such as: Error 27502. Could not connect to Microsoft SQL Server '(local)\SQLEXPRESS'. [DBNETLIB][ConnectionOpen (SECDoClientHandshake()).]SSL Security error. (18)	New for 10.96
68774	During the installation, if the supplied password contained a double quotation mark (") the installation would fail with a "Command line parsing problem" error. This has been resolved.	New for 10.96
62226	Resolved an issue that could prevent the upgrade of databases when using a unified database.	10.95.5
66434	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.	10.95.5
68126	Re-running Configure System after the installation would throw errors if the Windows username contained spaces. This has been resolved.	10.95.5

IoTWorX & Internet of Things

Ref ID	Description	First Available In
62088	<p>Added the ability to configure whether IoTWorX subscribes to all of the sub-topics of the base MQTT topic. By default, all sub-topics are subscribed. To disable this, and subscribe only to the base topic, edit the %ProgramData%\ICONICS\IoT\Subscriber\MqttConfig.ini file. If it does not already exist, add a header in brackets with your subscriber connection name, then under it add "SubscribeSubTree=0". The final pair of lines should look something like this:</p> <pre>[MySubscriber] SubscribeSubTree=0</pre> <p>Note, this setting only takes effect when the "Enable compatibility with ICONICS clients" box is unchecked. Also note, the same settings can be made for the publisher by editing the same file in the Publisher directory (%ProgramData%\ICONICS\IoT\Publisher\MqttConfig.ini). The header must match the publisher connection name.</p>	New for 10.96
64921	Attempting to import a configuration where the publish name of a publish list item was blank could cause an error. This has been resolved.	New for 10.96
66355	It is now possible to publish the same point under two different names.	New for 10.96
69423	Resolved a MessageTooLargeException that could occur in the IoT Publisher.	New for 10.96
65210	Resolved an extremely rare crash in the IoT Publisher.	10.95.5
68625	Resolved an issue that could cause the IoT Point Manager to send different values to clients subscribed at different scan rates.	10.95.5
61551	Subscriber connections with "Enable compatibility with ICONICS clients" unchecked could fail to decode messages. This was known to be an issue with a custom JSON decoder and an IoT Hub connector, but it may have occurred in other situations as well. This has been resolved.	10.95.4
62172	<p>In version 10.95, when you entered a base topic name for an MQTT subscription, it automatically added "/"# to the end in order to subscribe to subtopics of that topic. Now in 10.96, the "/"# will not be automatically entered. Customers who wish to subscribe to subtopics must add these characters manually. This was done to give users more control over whether to subscribe to subtopics or not, as certain MQTT service providers do not allow subtopic subscriptions.</p> <p>There is now text under the Base Topic field to remind users that they must enter the "/"# if they wish to subscribe to subtopics, and to inform users of certain cases when "/"# must be used. In addition, Workbench will flag the Base Topic field as having an error and give a helpful tooltip if the Base Topic is not formatted properly.</p>	10.95.4

Workbench Provider

Ref ID	Description	First Available In
68662	Configuring global colors in the smart tile template could cause Workbench to crash when the change was applied. Global colors in smart tile templates are currently not supported, but they no longer cause a crash. The global color is ignored. (We plan to implement support for global colors in a future version.)	New for 10.96
61853	Improved the speed of the Generate Devices Configuration action in the Internet of Things provider.	10.95.5
64903	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.	10.95.5
57016	Fixed an issue in the Workbench MobileHMI Configurator where setting images as backgrounds in a Smart Tile may result in the tile becoming corrupted, which in turn may lead to a Workbench crash.	10.95.1

KPIWorX

Ref ID	Description	First Available In
64895	Resolved a rare issue that could cause KPIWorX dashboards to randomly switch from presentation mode to edit mode.	New for 10.96
68889	Resolved an issue with the back button in the tag browser when searching for assets.	New for 10.96
71100	When a KPIWorX dashboard was running, AnyGlass Server TraceWorX traces would occasionally show a DivideByZeroException. This has been resolved.	New for 10.96
63496	Resolved an issue when populating a data table that could cause "Dataset request timed out (> 10000ms)" errors.	10.95.5
65258	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.	10.95.5
65275	The table control in KPIWorX could not display the data when the number of rows returned exceeded the page size. This has been resolved.	10.95.5
65325	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.	10.95.5
67952	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.	10.95.5
68080	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.	10.95.5
68103	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.	10.95.5
68288	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.	10.95.5
61903	Resolved an issue that would prevent labels from working in Categorical Charts.	10.95.4
61952	The Trend Widget in KPIWorX now remembers the swapped axis setting.	10.95.4
62144	Resolved an "Unable to create widget - object reference not set to an instance of an object" error that could occur when switching between different dashboards in KPIWorX.	10.95.4
62146	Resolved an error in the Calendar control that could cause this message: "Updating of collectors failed with: Object reference not set to an instance of an object."	10.95.4
62544	Fixed an issue in KPIWorX where filters applied to a grid table may not be maintained after saving and reloading a display.	10.95.4
62566 62551 62567 62568 62569 62570	Pie charts, categorical charts, donut charts, treemap charts, funnel charts, and tables now include a Formatting String property. These can be used to customize the format of chart data labels (such as to add thousands separators). Uses standard C# formatting strings: https://docs.microsoft.com/en-us/dotnet/standard/base-types/custom-numeric-format-strings https://docs.microsoft.com/en-us/dotnet/standard/base-types/standard-numeric-format-strings	10.95.4
62575	Previously, the treemap, pie, donut, and funnel charts would not be able to handle samples with negative values. Now, negative values are allowed. They still cannot be plotted due to the nature of the chart types, but they can appear in the legend and do not cause any crashes or errors.	10.95.4
63154	A calendar control linked to a column in a categorical chart will now update properly when drilling into the categorical chart.	10.95.4
63943	Resolved an issue that could cause the wrong dates to be selected when choosing "Last Year" in the calendar widget if the dataset for the original time range did not have data covering the whole year.	10.95.4
59650	In specific circumstances, the Data Diagram would only show the last series dropped onto a widget as an available series for the "Sort By" property. This has been resolved.	10.95.3
57003	KPIWorX can now browse the GenBroker network.	10.95.1
57014	A 'Requested Dashboard does not exist' error would appear the first time a user would attempt to launch a saved KPIWorX display via a link. This issue has been resolved.	10.95.1

MobileHMI & HTML5 WebHMI

HTML5, iOS, Android

Ref ID	Description	First Available In
56158	Resolved an issue with the native MobileHMI app where the OpenURL command with a target of NewWindow would not open web pages. Now for the Android app a new window is opened in Chrome, and in the iOS app the browser is opened within the MobileHMI app.	New for 10.96
63654	Users logging in on the App Hub page can now use the enter key to submit the login. Previously users had to press the Login button. This was not consistent with other clients.	New for 10.96
68739	Writing to a critical point would reset the client session, losing the state of elements like global aliases and embedded windows. This has been resolved.	New for 10.96
68897	Datetime and timespan data types were not formatted properly when converted to strings. This has been resolved.	New for 10.96
69037	Removed some exceptions from TraceWorX logs that were not indicative of issues.	New for 10.96
69118	The document viewer linking wasn't working on RealWear version 10 devices. This has been resolved.	New for 10.96
69124	When the vertical scrollbar wasn't visible, holding down shift and using the mouse wheel wouldn't scroll horizontally. This has been resolved.	New for 10.96
69309	When moving HTML5 displays between monitors with different Windows scaling the display could scale unpredictably. This has been resolved.	New for 10.96
69316 69315	Resolved a rare crash in the HTML5 engine that could cause client pages to randomly reload.	New for 10.96
70612	Resolved a very rare issue that could cause an HTML5 application to crash (application gets reloaded) when navigating between displays. This behavior may have been related to the presence of a GraphWorX64 Viewer on the displays.	New for 10.96
70758	Resolved an issue that would prevent users from accessing the HTML5 login page if all of the standard licenses were in use. This would prevent users with reserved licenses from logging in if all of the standard licenses were in use.	New for 10.96
70994	Resolved a rare crash of the HTML5 engine. The exception that would be thrown in this case was "DisplayConnectionRequest.SendMessage called on a wrong thread. SyncContext is System.Web.AspNetSynchronizationContext, CommandBundle: [{"o","url","refresh"}]".	New for 10.96
71072	Executing the Load Display command from HTML5 could prompt the download of the GraphWorX64 file instead of loading it. The issue would most often occur when the File Name was using a full web address. This has been resolved.	New for 10.96
65796	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.	10.95.5
66767	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.	10.95.5
67005	Resolved a very rare synchronization issue that could cause a server-side crash and the apparent random reload of client displays.	10.95.5
67720	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.	10.95.5
67731	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.	10.95.5
67797	In HTML5 displays, the Call Method command with a String parameter would not work. This has been resolved.	10.95.5
61143	Resolved an issue that could cause problems browsing for points in KPIWorX or the HTML5 Data Explorer. The problem most often occurred for users who had configured License Exception Rules in Platform Services Configuration.	10.95.4
61802	Fixed an AnyGlass crash (NullReferenceException) that could occur when reloading a MobileHMI page.	10.95.4
62342	Resolved an issue where clients that could not access the internet (but could still access the ICONICS HTML5 server via intranet) could not see pages.	10.95.4
62519	Resolved an issue in the iOS MobileHMI app that caused icograph:// URLs to not properly open the MobileHMI app.	10.95.4

Ref ID	Description	First Available In
62586	HTML5 displays now better handles loss of window focus. Previously, keys and special filters were not properly cleared. This could result in behavior such as the display thinking the Alt key was still pressed after you Alt-Tabbed away from an ICONICS HTML5 browser window and returning.	10.95.4
63189	When the user was prompted to log in, any global aliases set via the page URL would not be set. If the user was already logged in or security was not enabled, the aliases would work fine. This issue has been resolved.	10.95.4
63233	The dialog for choosing the target of a command when a target is not predefined was populating with extra inappropriate targets. This issue has been resolved.	10.95.4
63288	The web browser and the "Desktop Window Manager" process would consume excessive CPU and GPU while viewing certain displays. This issue has been resolved.	10.95.4
63324	Resolved an issue preventing global alias themes from being set via the URL of HTML5 pages.	10.95.4
63453	Resolved an issue in tooltips that contained tag names including the greater than or less than characters (such as GridWorX tags with parameters). The tag would be resolved without the values in between the greater than and less than characters.	10.95.4
63456	Resolved a StackOverflowException crash in GraphWorX64 or the AnyGlass engine (w3wp.exe) that could result when using a clone dynamic to duplicate an object a large number of times (~80).	10.95.4
63563	Resolved an issue in the parsing of local aliases that included line breaks. In previous versions, this could cause only one local alias to be set when multiple aliases were being set at the same time.	10.95.4
59868	Resolved a rare crash (NullReference exception) that could make HTML5 displays randomly reload and go back to the home page.	10.95.3
60544	Resolved an issue that could cause HTML5 displays to attempt to load several times in a row before successfully loading the display.	10.95.3
58461	Certain buttons in the Security Login control would not properly adhere to font size changes. This issue has been resolved.	10.95.2
58895	Resolved a rare memory leak in the HTML5 engine that would cause the IIS worker process to grow in memory and eventually crash.	10.95.2
62829	When customizing the page title in the ico.anyglass.clientMirrorDom.config file and setting includeFilename to false, the dash would remain in the title: " - AnyGlass by ICONICS, Inc.". This has been resolved - the dash is no longer included when includeFilename is false.	10.95.2
57068	Resolved a rare issue in the HTML5 engine that could cause IIS to crash, which would in turn cause HTML5 clients to freeze.	10.95.1
57147	Fixed a rare IIS crash that could occur when an HTML5 client was repeatedly getting disconnected from the server, such as when on an unstable network connection.	10.95.1
63033	The Segoe UI Light font would not render in certain versions of Chrome. ICONICS HTML5 displays were updated to compensate for this Chrome issue.	10.95.1

AlarmWorX64 Viewer

Ref ID	Description	First Available In
57266	Resolved a System.NullReferenceException crash in the alarm viewer. This crash would occur in viewers that used global aliases. Updating those global aliases could result in this crash. The crash could happen in any format of the alarm viewer but would occur most often in HTML5 clients (where it manifested as a crash of w3wp.exe).	New for 10.96
66266	If the alarm viewer should be showing no alarms (nothing matching the filter) the list mode would still display the last displayed alarm. This has been resolved.	New for 10.96
68097	HTML5 clients can now acknowledge an alarm in the alarm viewer's grid view by double-clicking on it. This is consistent with the desktop behavior of the AlarmWorX64 Viewer.	New for 10.96
68885	Rows that should change style from blinking to non-blinking due to a condition change would not actually stop blinking. This has been resolved.	New for 10.96
69208	Resolved an issue that could cause the alarm viewer to fail to load its configuration on display load if the configuration file path contained a global alias.	New for 10.96
69645	The GridWorX and AlarmWorX64 Viewers did not respect the client locale when exporting data. This caused problems with dates in the exported data. It has been resolved.	New for 10.96
69825	Resolved an issue causing the GridWorX and AlarmWorX64 Viewers to not respect the RowHeight property. (This issue was introduced in a post-10.95.5 patch.)	New for 10.96

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
70805	Resolved an issue preventing the Sort command from sorting an AlarmWorX64 Viewer list view in HTML5 displays.	New for 10.96
71488 71398	Resolved an issue where the proper row selection foreground color was not used in the HTML5 AlarmWorX64 Viewer. The selection foreground colors should now match what is displayed in the desktop (WPF) AlarmWorX64 Viewer.	New for 10.96
58122	HTML5 AlarmWorX64 and GridWorX Viewers now obey the Row Height property.	10.95.5
66088	The HTML5 AlarmWorX64 Viewer now respects the VerticalScrollbarVisibility property.	10.95.5
66132	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.	10.95.5
66545	Resolved an issue with the AlarmWorX64 Viewer that could cause a memory leak in the w3wp.exe process on the server.	10.95.5
66814	Resolved an issue with the AlarmWorX64 and GridWorX Viewers that could cause the filter popup to show the wrong filter options.	10.95.5
68290	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.	10.95.5
63174	In the GridWorX or AlarmWorX64 Viewers, when a column was clickable, the filter dropdown for that column showed the command rather than the display value. This has been resolved.	10.95.4
63215	Column text alignment now functions properly in the HTML5 AlarmWorX64 and GridWorX64 Viewers.	10.95.4
63217	HTML5 AlarmWorX64 and GridWorX Viewers now obey the ShowHeaderFilter property.	10.95.4
63816	In the historical alarm viewer's "Edit Time Limits" dialog, the "From" value could not be changed. This has been resolved.	10.95.4
62752	Resolved a crash (System.NullReferenceException) in the w3wp.exe that could occur when opening a display with an AlarmWorX64 Viewer after applying specific post-10.95.2 updates.	10.95.3
63109	The HTML5 AlarmWorX64 Viewer would not properly record the user who acknowledged an alarm. The ActorID column for those alarms would show as "anonymous". This has been resolved.	10.95.1

AssetWorX Navigator

Ref ID	Description	First Available In
68660	Resolved an issue that could cause incorrect tooltips in the AssetWorX Navigator. This most often happened when there was some equipment with no descriptions.	New for 10.96
72690	When an asset node was selected and the user tried to expand another node, the global alias for SelectedAssetPathStorage was sometimes cleared. This has been resolved.	New for 10.96
65964	Resolved an issue with the HTML5 Asset Navigator that could cause the direct command icon size to be inconsistent.	10.95.5
66518	The HTML5 Asset Navigator can now accept global colors for the selection foreground, background, and border colors.	10.95.5
62038	Resolved an issue that would cause the Asset Navigator to fail to load in HTML5 if the height was set to automatic.	10.95.4
62950	Resolved a variety of issues that could occur in the Asset Navigator relating to colors. These issues included a NullReferenceException when MouseOverBackground color is set to None, search results losing their foreground color on mouse-over when MouseOverForeground was set to a global color, and inconsistent hover style in the asset tree and search results.	10.95.4
63158	The Asset Navigator's ControlBorderBrush property was not used in HTML5. This has been resolved.	10.95.4
63698	Resolved an issue with the AssetWorX Navigator's context menu when using language aliases in commands. The wrong command display text could be shown.	10.95.4
60005	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.	10.95.3
59112	Resolved an issue that could cause the asset context menu to appear in the wrong location.	10.95.2
59266 59860 62681	In previous versions, when using the "Select Asset" command in the Asset Navigator, the default command for that asset would always be executed, even if "None" or "Specific" is selected for the ExecuteCommand property of "Select Asset". This issue has been resolved.	10.95.2

Data Diagram

Ref ID	Description	First Available In
65235	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.	10.95.5
63472	Data Diagram control data sources can now be found using the Find & Replace feature of GraphWorX64.	10.95.4

Data Explorer

Ref ID	Description	First Available In
63810	Resolved an issue with the decimal separator of BACnet PresentValue items on systems that had non-English locale settings. This issue could cause values in the Data Explorer to appear to be multiplied by 1000 or more.	10.95.4
61222	The HTML5 version of the Data Explorer was showing different columns than the desktop (WPF) or Universal Windows Platform (UWP) versions. This has been resolved.	10.95.3

EarthWorX

Ref ID	Description	First Available In
57029	Resolved an issue causing incorrect placement of EarthWorX pins whose longitude and latitude were assigned via dynamic tags.	10.95.5
67165	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.	10.95.5
67679	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.	10.95.5
68156	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.	10.95.5
63768	Resolved an issue that could cause the EarthWorX Viewer to load zoomed to an extreme level instead of the desired zoom. This would most often occur when the EarthWorX Viewer existed inside of an embedded GraphWorX64 Viewer that was being dynamically sized.	10.95.4
57149	Resolved an issue that could cause incorrect positioning of pins in HTML5 EarthWorX displays.	10.95.1
57314	Resolved an issue with pushpins that had NoZoom set to True and dynamic positioning. This issue could cause size dynamics on these pushpins to work in unexpected ways.	10.95.1

Expressions

Ref ID	Description	First Available In
64779 65036	Resolved an issue in the HTML5 implementation of the timesincelastchange() function. It now returns the same values as the desktop (WPF) implementation.	10.95.5
64981	NULL values would return an error of "Unsupported Conversion (string->double)" when used in an expression on an HTML5 display. This has been resolved.	10.95.5
66242	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.	10.95.5
67986 64599	Resolved several issues with NULL values in HTML5 expressions, where they were returning results inconsistent with the desktop (WPF) version of the expression engine.	10.95.5
62663	In HTML5, the toformatculture expression would default to the indeterminate currency. Now it correctly reads the local currency from system settings.	10.95.3
56999	Resolved an issue that could cause expressions to be evaluated unpredictably.	10.95.1

Fault Viewer

Ref ID	Description	First Available In
59789	The Load Facility Data command did not work with the legacy FDDWorX Viewer in HTML5. This has been resolved with the new Fault Viewer. (Note, the Configuration parameter does not apply to the new Fault Viewer.)	New for 10.96

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
64859	The legacy HTML5 FDDWorX Viewer's Total Active Duration column of the fault chart sorted by characters, not numerically. (So, the order would be 1, 10, 2, etc.) The new HTML5 fault viewer does not have this issue. Users experiencing this issue should convert their displays to use the new fault viewer control.	New for 10.96
64863	The legacy HTML5 FDDWorX Viewer did not always display columns in the same order as the desktop (WPF) equivalent. The new HTML5 fault viewer does not have this issue. Users experiencing this issue should convert their displays to use the new fault viewer control.	New for 10.96
64864	The legacy HTML5 FDDWorX Viewer did not respect the default sort. The new HTML5 fault viewer does not have this issue. Users experiencing this issue should convert their displays to use the new fault viewer control.	New for 10.96
64866	The legacy HTML5 FDDWorX Viewer did not always display related values. The new HTML5 fault viewer does not have this issue. Users experiencing this issue should convert their displays to use the new fault viewer control.	New for 10.96
64867	The legacy HTML5 FDDWorX Viewer would not let users expand a group that had been created in runtime. The new HTML5 fault viewer does not have this issue. Users experiencing this issue should convert their displays to use the new fault viewer control.	New for 10.96
64868	The legacy HTML5 FDDWorX Viewer did not allow filtering in runtime. The new HTML5 fault viewer allows this. Users who want this functionality should convert their displays to use the new fault viewer control.	New for 10.96

GraphWorX64

Ref ID	Description	First Available In
56647	Local aliases were not working consistently inside of smart tiles. This has been resolved.	New for 10.96
57447	Resolved an issue where the start and end caps on lines, polylines, and paths was not affected by a color dynamic.	New for 10.96
61736	In HTML5 displays, the localsim:property variables could access properties of objects from another display (so an embedded GraphWorX64 Viewer display could access the properties of the parents). This was unintentional and has been resolved. The scope of the localsim:property variables is now the same as in desktop (WPF) GraphWorX64.	New for 10.96
63344	If two pick actions were configured on the same element and one of them used a MouseModifierKey such as Ctrl, clicking the pick action without the modifier key(s) pressed would trigger both pick actions. This was inconsistent with the desktop version. This has been resolved - only the modified pick action will be triggered, now.	New for 10.96
63655	Resolved an issue where timespan values implicitly converted to strings would show as a number of milliseconds instead of being properly converted to hh:mm:ss format.	New for 10.96
63855	Resolved an issue that could cause the wrong color to be used for the current day in the datetime picker of a DateTime object.	New for 10.96
63942	Improved the performance of the HTML5 screens in general. In particular, this has improved the loading time of an embedded display that contains a ScheduleWorX Viewer.	New for 10.96
65404	Improved the performance of discrete animator dynamics in HTML5 clients. Previously they would render inconsistently or sluggishly.	New for 10.96
65412	If there was a pick actions inside of a smart symbol, and some of the properties of that pick action were bound to smart properties (such as the GlobalAliases field for the Set Global Aliases command), the pick action would not work in HTML5 displays. This has been resolved.	New for 10.96
65652	When a grid panel is inside of a variable sized panel (such as a scroll panel), and the content was spanning more than one column or row, the grid panel would not always resize properly. This has been resolved.	New for 10.96
66347	Resolved an issue that could cause the date time picker to not appear if the data source of the DateTime object started as an empty string.	New for 10.96
66549	HTML5 clients did not obey the Cursor property on all object types. This has been resolved.	New for 10.96
67394	When defining a description on an object and using clone dynamic, only first cloned object would show the tooltip with description. This has been resolved.	New for 10.96
68823	When zooming in on an embedded viewer, a gray overlay with a zoom percentage should appear over the view. On some clients (notably Firefox and iOS Safari) the gray overlay did not appear, and the zoom value appeared in the top corner instead of the center. This has been resolved.	New for 10.96

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
68890	Resolved an issue that would cause the hide dynamic to stop working if its data source went from good to bad (waiting for initial data) then back to good. This particular situation was most likely to happen when using a valueof: expression.	New for 10.96
68976	Resolved an issue displaying imported SVG files when the SVG file contained a quadratic Bezier segment.	New for 10.96
69161	Resolved an issue with the size dynamic used in a grid layout. The sized objects would not always be drawn in the correct places.	New for 10.96
69251	Resolved an issue where 360-degree rotation dynamics would stop rotating after some time on Internet Explorer browsers.	New for 10.96
69288	Resolved an issue preventing the loading of local aliases from TXT files. CSV files worked fine. TraceWorX would log the error, "Setting local alias from CSV file failed! Index was outside the bounds of the array."	New for 10.96
69829	Starting in version 10.95.5, objects with a hide dynamic set to ExplicitHide=False and ExplicitShow=True were visible immediately on display load and then would disappear after some time. This has been resolved - these objects now correctly remain visible unless the hide dynamic's condition hides them.	New for 10.96
69831	Resolved an issue with the state selector not showing the correct state when the display first loads. This only occurred when each state had its own data source.	New for 10.96
69837	Resolved a crash (System.IndexOutOfRangeException) that could occur on load of displays that used certain types of curves (such as in splines). This issue only occurred in 10.95 Update 5.	New for 10.96
69842	Process points that were disabled due to write permissions were incorrectly being treated as failed points instead of disabled points, leading to the points being displayed in the wrong color. This has been resolved.	New for 10.96
70080	Resolved a large memory and CPU leak (and eventual crash) of the HTML5 service that would occur when opening a GraphWorX64 display on an HTML5 client when the display contained a path object whose points included coordinates with NaN (not a number) values. This is not a normal configuration, and generally indicates the display has been corrupted in some way, but now it will no longer cause a leak or crash.	New for 10.96
70082	Resolved a rare issue rendering certain displays. The page would report "Requested display is not available" because "Specified argument was out of the range of valid values." TraceWorX would report this issue as a System.ArgumentOutOfRangeException.	New for 10.96
70096	Layers configured with ReleaseDataWhenHidden set to True caused an inconsistent state for global alias and language alias pick commands. This could cause those pick actions on such a layer to not work properly after hiding and showing the layer. This has been resolved.	New for 10.96
70975	When using a dynamic that compared a data source to a limit (such as a color dynamic), if the data source was a Boolean and the limit was a number type (such as integer or float), the comparison would not be evaluated the same as in desktop (WPF) GraphWorX64. This has been resolved.	New for 10.96
70996	Ellipse strokes were rendered slightly differently in HTML5 than in desktop (WPF). This could cause displays with ellipses to look very slightly different in HTML5 than in desktop. This has been resolved - HTML5 ellipse strokes are now rendered the same as in desktop.	New for 10.96
71034	Resolved an exception (System.ArgumentOutOfRangeException) that would occur when loading a display containing a path object that had no points or segments. (Such a path object is invalid, and will not be drawn, but the rest of the display will now be rendered properly.)	New for 10.96
71215	For dynamics that compare a data source to a limit (such as a color dynamic), the comparison may be incorrectly calculated for very large values. This has been resolved.	New for 10.96
72206	When a layer configured with ReleaseDataWhenHidden=True was made visible, if any points from that layer existed in a pick action's PressedWhen data source elsewhere on the screen, that pick action may get triggered. This unexpected execution of pick actions could result in strange behavior on a display shortly after a layer was made visible. This has been resolved.	New for 10.96
72351	Resolved an issue with hide dynamics using a FlashRate. They would hide or become visible at incorrect times.	New for 10.96
72776	When an object or symbol was using the clone dynamic and was placed in a NoZoom layer (such as when placing pins or icons over an EarthWorX layer), the zoom was not properly propagated to the cloned symbols. This could lead to the symbols appearing as the wrong size. This has been resolved.	New for 10.96
63837	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.	10.95.5

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
64823 66790	Resolved an issue that could cause the SetValue() function to write more often than desired, causing unpredictable behavior.	10.95.5
64834	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.	10.95.5
64896	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).	10.95.5
64934	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.	10.95.5
64935	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.	10.95.5
64983	Resolved an issue applying color from a color dynamic to a gradient stop.	10.95.5
65142	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.	10.95.5
65232	Dynamics such as location or color would not respond to runtime changes in the LowLimit and HighLimit values. This has been resolved.	10.95.5
65401	GraphWorX64 files using an image brush couldn't be loaded in an embedded viewer. This has been resolved.	10.95.5
65402	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.	10.95.5
65586	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.	10.95.5
65588	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.	10.95.5
65591	Improved the speed of the clone dynamic. It should now behave much closer in speed to the desktop (WPF) version.	10.95.5
66133	Resolved an issue that could cause the data entry area for a process point to appear in the wrong position.	10.95.5
66317	Resolved an issue causing tooltips to not be shown unless the pick action had a datasource trigger.	10.95.5
66599	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.	10.95.5
66600	Resolved a rare issue involving rectangle borders that could cause the rectangle to expand outside its bounds and cover the entire display.	10.95.5
66601	The DateTime Picker dynamic would not work in HTML5 if there was any text in the LowLimit or HighLimit fields. This has been resolved.	10.95.5
66791	Resolved an issue with popup menu widths not being properly sized.	10.95.5
66872	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.	10.95.5
67008	Resolved a "Data Null" error in tooltips that could occur with post-Update 4 patches.	10.95.5
67173	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.	10.95.5
67293	Certain post-Update 4 patches would cause polygons with size dynamics to not appear. This has been resolved.	10.95.5
67336	Resolved an issue with the scroll panel where the scroll bar could obstruct content when it appeared.	10.95.5
67510	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.	10.95.5
67678	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.	10.95.5

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
67683	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).	10.95.5
67687	The initial date of a DateTime Picker dynamic was always 1-1-0001, regardless of the configured InitialValue. This has been resolved.	10.95.5
67858	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.	10.95.5
67914	Resolved an issue causing HTML5 displays to sometimes process animation dynamics in an incorrect order.	10.95.5
67985	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.	10.95.5
68082	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.)	10.95.5
68084	Hide dynamics now obey the HideDynamicActiveWhenPointFailure display property in HTML5 displays.	10.95.5
68101	Writing a value with a specific priority (such as: 1!) to a Boolean BACnet tag would fail. This has been resolved.	10.95.5
68252	The ZoomToObject option of the Set View pick action wasn't zooming to the correct location in HTML5 GraphWorX64. This has been resolved.	10.95.5
68343	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.	10.95.5
68345	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.	10.95.5
68446	Resolved an issue with smart tiles that had dynamics attached that could cause them to not animate properly.	10.95.5
68471	Resolved an issue with the HideDynamicActiveWhenPointFailure property that could cause it to have trouble resolving certain expressions.	10.95.5
68500	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.	10.95.5
68501	Image textures with transparency are now supported in HTML5.	10.95.5
68675	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).	10.95.5
68677	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.	10.95.5
61696	Update 3 for 10.95 introduced an issue that prevented expressions in the GlobalAliases property of displays from being re-evaluated. They were only evaluated once when the display was opened. This has been resolved in Update 4. The aliases are now updated when data sources in the expression update.	10.95.4
62034	Resolved a rendering issue with the Clone Dynamic in HTML5 displays.	10.95.4
62036	Fixed an issue with the "pressed when" trigger on a pick action. Previously, the "pressed when" trigger would execute every time the expression evaluates to true. It now behaves consistent to WPF GraphWorX64 by executing only when the expression has changed from false to true.	10.95.4
62515	In MobileHMI HTML5 displays, the "LineHeight" property is now respected.	10.95.4
62538	Resolved an issue that could cause an embedded HTML5 GraphWorX64 Viewer set to auto size to load as size 0 instead of matching the size of the contents.	10.95.4
62543	Fixed an issue in MobileHMI HTML5 where expressions defined in the "Text" property of a label would not resolve unless the expression contained a local or global alias.	10.95.4
63152	Added support for the ApplyInitialAliasesEveryLoad property of the GraphWorX64 Viewer control.	10.95.4
63176	Resolved an issue with the rotation dynamic where it would stop updating after the first data update. This issue was only present in a post-release 10.95 Update 3 patch.	10.95.4

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
63183	<p>Starting in 10.95 Update 3, the expression engine no longer recognized the ELSE keyword if the leading separator character was missing. For example, this expression was valid in Update 2, but not Update 3 (note the lack of a space between 1 and ELSE):</p> <pre>x= IF {{localsim::myVar}} THEN 1ELSE 0</pre> <p>With 10.96, this sort of expression should now be recognized again.</p>	10.95.4
63185	Added support for the CurrentZoom, CurrentPanX, CurrentPanY localsim properties on GraphWorX64 controls.	10.95.4
63191	10.95 Update 3 introduced an issue with zooming nested GraphWorX64 Viewers. 10.96 resolves that issue.	10.95.4
63202	Resolved an issue in the alignment of grid panels when the columns were set to use star units, and a child with automatic size spanned the columns.	10.95.4
63207	Hide dynamics were not being properly evaluated on display load. This has been resolved.	10.95.4
63219	Resolved an issue in the Range Selector dynamic that would cause it to animate improperly, giving the appearance of lag.	10.95.4
63239	Improved handling of transforms in AutoCAD imported files. Previously, there could be issues in the rendering of AutoCAD files in HTML5, including the y-coordinate space being reversed, and text being rendered upside down.	10.95.4
63241	The Set View local command with a zoom type of ZoomToObject didn't zoom properly in HTML5 when render transformations were involved. (Render transformations are most commonly created when importing AutoCAD files.) This has been resolved.	10.95.4
63334	The backspace key was not usable as a keyboard shortcut in HTML5 GraphWorX64. This has been resolved.	10.95.4
63408	Resolved issues preventing disable, hide, or clone dynamics on popup menus from working properly. One of the issues included a NullReferenceException when combining these different sorts of dynamics.	10.95.4
63544	Resolved an issue with split panels, where setting either the Panel1Size or Panel2Size to zero could cause the panel to not render some or all of its content.	10.95.4
63721	The DisableFill and DisableLine colors were reversed in HTML5 displays, resulting in disabled buttons that looked "reversed" from their GraphWorX64 WPF counterparts. This has been resolved.	10.95.4
63765	Resolved an issue that would cause the AutoUncheckDuration option for checkboxes to check the box after the given duration, rather than unchecking it.	10.95.4
63807	Resolved an issue with the GraphWorX64 Viewer where the display was not scaled properly when the container could be of variable size (such as in a split panel). (Note, this issue only occurred in a 10.95 post-Update 3 patch.)	10.95.4
63944	Resolved an issue with statefields that used a clone dynamic on its state objects and had a local alias (which might be the alias used by the clone dynamic) in the data source of the state. Statefields affected by this problem would not properly create all clones of the state object.	10.95.4
63949	Resolved an issue with localsim properties inside embedded GraphWorX64 Viewers. The localsim properties were incorrectly bound to the parent display, not the embedded display, and may have displayed incorrect values.	10.95.4
69140	Cloned popup menu items in a submenu would appear in the root instead. This issue has been resolved.	10.95.4
59068	The StartCap and StopCap parameters are now properly applied to HTML5 pipe controls.	10.95.3
60009 60016	Resolved various issues that could cause incorrect information in tooltips.	10.95.3
60295	Resolved an issue preventing the Display Back or Display Forward pick actions from functioning inside an embedded GraphWorX64 Viewer.	10.95.3
60527	Resolved an error in the measurement of the scroll panel that could cause the scroll bar to overlap content.	10.95.3
60614	Resolved an issue that would cause the SetView pick action to not work when InitialClick was set to true.	10.95.3
60882	An HTML5 GraphWorX64 Viewer whose source did not include a file extension (example: "Display1" instead of "Display1.gdxf") would display "file not found". The GraphWorX64 Viewer now assumes a valid GraphWorX64 file extension if one is missing. (This is now consistent with the desktop (WPF) GraphWorX64 Viewer.)	10.95.3

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
60948	If a user visited an HTML5 display with global alias values specified in the URL, if the server ever restarted and the page reloaded the global aliases would not be set. This has been resolved.	10.95.3
62595	Users can now write to process points configured as statefields.	10.95.3
62646	Resolved issues with the underline text format getting stripped out from GDFXP files. (Note: GDFXP is no longer a required file extension for any platform. All platforms can now support GDFX files.)	10.95.3
62685	Process points with a classic border could not be written to in HTML5 displays. This has been resolved.	10.95.3
62709	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.	10.95.3
62720	HTML5 displays now correctly obey the default view when they are loaded.	10.95.3
62750	When a GraphWorX64 Viewer source is set to a dynamic value, the display would reload any time the value received a new update, even if it hadn't changed. This has been resolved - if the update to the dynamic tag doesn't change the display name then the viewer isn't reloaded.	10.95.3
62751	Resolved an issue that would cause parts of Smart Tiles to not render global colors correctly.	10.95.3
62762	A color dynamic with NULL as the start color would cause the display to continually reload. This has been resolved.	10.95.3
62771	The Set View and Select Element global commands now work for HTML5 GraphWorX64 Viewers.	10.95.3
62772	Dynamic content in the description field is now properly resolved.	10.95.3
70190	In pivot controls with multiple pages, an activated data entry field or popup menu could appear in the wrong place. This has been resolved.	10.95.3
57991	Resolved a crash that could happen when confirming a write to a pick action that used dynamic custom confirmation text.	10.95.2
58044	HTML5 TimeDate dynamics now support string data sources.	10.95.2
58387	Resolved an issue causing referenced images or images where the location is driven by a data source to not render on iOS devices.	10.95.2
58464	Improved the performance of the login dialog. Prior to this fix, occasional delays or timeouts could be observed in the login process.	10.95.2
59111 58897	When a display was loaded within a GraphWorX64 Viewer embedded in another display, the data entry field may appear outside the bounds of the field, even outside of the bounds of the GraphWorX64 Viewer. This has been resolved.	10.95.2
59113	Resolved an issue causing HTML5 rotation dynamics with an animation mode of "discrete" to fail to work in Edge or Internet Explorer.	10.95.2
62819	The InnerBorderThickness property of embedded GraphWorX64 Viewers is supported in HTML5 displays.	10.95.2
62820	The BorderThickness property of embedded GraphWorX64 Viewers now supports asymmetrical values in HTML5 displays.	10.95.2
62838	When zooming inside an embedded GraphWorX64 Viewer, the zoom overlay would extend outside of the viewer's borders. This has been resolved.	10.95.2
62879	Resolved an issue causing the HideWhenSecurityDenied option to be ignored for layers inside a pivot control.	10.95.2
62929	Resolved an issue that could cause process points configured with an AutoUncheckDuration to not uncheck themselves.	10.95.2
62931	On systems configured with a culture that uses the comma as the decimal separator, writing to a process point could result in an incorrect write. This has been resolved.	10.95.2
57001	Global aliases passed to the display via a Load Display command now take priority over the initial alias setting in the display. This is now consistent with the behavior of desktop (WPF) GraphWorX64.	10.95.1
57012	Resolved an issue that could cause global colors to not be set for all items on an HTML5 display. This issue could occur when smart properties in a smart symbol share a name with other GraphWorX64 properties.	10.95.1
57038	Fixed an issue in MobileHMI HTML5 where language aliases and global colors were not maintained after a display refresh.	10.95.1
57051	Fixed an "InvalidCastException: Specified cast is not valid" error in MobileHMI HTML5 that could occur when zooming in or out on certain devices.	10.95.1

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
57061	Resolved an issue causing the 'CurrentOrientation' localsim to not initialize properly in MobileHMI HTML5. It would start with a value of 0 instead of 1 (landscape) or 2 (portrait), and only update if the display was resized.	10.95.1
57311	Resolved an issue that could cause hide dynamics to stop working when there was a global alias in the data source.	10.95.1
57318	Resolved an issue causing null values to be incorrectly treated as bad quality.	10.95.1
57341	Resolved an issue that could cause the "Set Global Aliases" action to fail if the alias had dynamic values.	10.95.1
57406	Resolved an issue that could cause images with dynamic data sources to not be visible.	10.95.1
62967 62625	Pick actions configured with InitialClick could sometimes execute before the localsim::currentUser property was populated. This could cause initial pick actions that referenced that property to behave in unintended ways. Pick actions configured with InitialClick now delay until after the localsim::currentUser property has been populated.	10.95.1
63070	Resolved an issue where a label with no text (data source resolved to NULL) would show as an "X".	10.95.1
63097	In a Load Display pick action, if local aliases were used in the Command Parameters > LocalAliasCommandData field, these aliases would not be resolved when the display was loaded. This has been resolved.	10.95.1
63107	Pick actions configured with a PickMode of CheckButton, an ExecuteWhileDown action, and InitialClick set to True would not automatically execute their action. This has been resolved.	10.95.1

GridWorX Viewer

Ref ID	Description	First Available In
57143	In HTML5, the GridWorX Viewer ignored the foreground color property. This issue has been fixed.	New for 10.96
65730	Resolved a crash (causing the page to reload) when using the GridWorX Viewer's pie chart if the dataset being displayed contained a NULL value.	New for 10.96
68547	String filters (such as "Contains", "Starts with..." etc.) would not work for virtual columns in the GridWorX Viewer. This has been resolved.	New for 10.96
68885	Rows that should change style from blinking to non-blinking due to a condition change would not actually stop blinking. This has been resolved.	New for 10.96
69443	Resolved an issue causing the GridWorX Viewer to load with the correct number of rows, but all blank cells. This would occur if the GridWorX point manager was started after the GridWorX Viewer entered runtime.	New for 10.96
69536	The HTML5 GridWorX chart now supports the EnableSmartLabels advanced property.	New for 10.96
69645	The GridWorX and AlarmWorX64 Viewers did not respect the client locale when exporting data. This caused problems with dates in the exported data. It has been resolved.	New for 10.96
69825	Resolved an issue causing the GridWorX and AlarmWorX64 Viewers to not respect the RowHeight property. (This issue was introduced in a post-10.95.5 patch.)	New for 10.96
69833	The EnableAutoApply feature (under Grid > Advanced tab > Grid section) was not respected in HTML5 clients. This has been resolved.	New for 10.96
70343	Resolved a rare crash (System.NullReferenceException) that could occur when loading or refreshing data in a GridWorX Viewer.	New for 10.96
70757	Resolved a graphical issue with the X axis on GridWorX Viewer charts that could cause an extra axis tick and label to be drawn on the right.	New for 10.96
64936	Resolved an issue introduced in 10.95 Update 4 which prevented users from updating values in GridWorX Viewers.	10.95.5
65430	Resolved a licensing issue where HTML5 clients using a GridWorX Viewer would not release their Write Clients after the session has ended.	10.95.5
65739	Resolved a rare crash of the HTML5 engine related to the GridWorX chart on a client. The chart was generating a NullReferenceException.	10.95.5
66240	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.	10.95.5
66752	HTML5 GridWorX Viewers now support dynamic values (such as global aliases or OPC tags) in vertical axis ranges (min and max).	10.95.5
67007	Resolved an issue where HTML5 GridWorX Viewers did not obey the configured condition styling.	10.95.5

Ref ID	Description	First Available In
67161	When there were many slices in a pie chart in GridWorX Viewer, not all labels were visible. This has been resolved.	10.95.5
67167	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.	10.95.5
67220	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.	10.95.5
67437	Resolved an issue in detecting the position of clicks in the GridWorX Viewers that had their size changed in runtime.	10.95.5
67448	Added support for dynamic row tooltips in the HTML5 AlarmWorX64 and GridWorX Viewers.	10.95.5
67494	Resolved an issue causing the x axis to not be visible in GridWorX charts. (Note, this was erroneously marked as a resolved issue in 10.95.5. It was not actually fixed for that version.)	10.95.5
67624	HTML5 GridWorX now supports a combination of fixed and auto-scaled range to make it more consistent with the desktop (WPF) implementation.	10.95.5
67681	HTML5 GridWorX Viewer now supports the DefaultHeaderFilterOperator advanced property.	10.95.5
62031	Grouped rows in the GridWorX Viewer can now be sorted in HTML5.	10.95.4
62267	GridWorX Pie Charts were unable to show the percentage. They always showed the raw value. This has been resolved.	10.95.4
62576	The pie, donut, and treemap charts no longer plot null values as zeros. Samples with null values are still visible in the legend.	10.95.4
63170	GridWorX Viewer headers now wrap properly in HTML5.	10.95.4
63172	Resolved a NullReferenceException that could cause the display to reload and possibly crash the AnyGlass server. This crash was related to the GridWorX chart.	10.95.4
63200	Resolved an issue where the HTML5 GridWorX chart may stop displaying data when reporting on datasets that had more than one column.	10.95.4
63332	Resolved an issue causing the GridWorX Viewer to fail to blink as configured. Note that there is a known issue in Internet Explorer 11 that prevents blinking from working in HTML5, but other browsers should support the blink just fine.	10.95.4
63804	Resolved two issues with the syntax of decimal numbers. First, the default notation, "Float Notation (2 digits)" did not match the format that GraphWorX64 WPF used. Second, this sort of custom formatting had not been supported: {0:0.00}	10.95.4
63951	Added support for virtual column data types.	10.95.4
62800	Resolved an issue where centered columns were not aligning images to the center.	10.95.2
57235	Resolved a crash (display would reload) when attempting to load a GridWorX configuration (.gdxxs) that contained global colors.	10.95.1

Heatmap

Ref ID	Description	First Available In
63515	Resolved an issue that would cause the heatmap control to fail to render in Edge or iPad clients. Other clients, such as Chrome, worked fine.	10.95.4

Legacy FDDWorX Viewer

Ref ID	Description	First Available In
64979	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.	10.95.5
65950	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.	10.95.5
65951	Active faults reported a default deactivation time of 1/1/0001. Active faults now properly show a blank deactivation time.	10.95.5
65968	The HTML5 FDD Viewer now supports clickable links consistent with the desktop (WPF) version.	10.95.5
66860	Client-side filtering is now supported in the HTML5 FDD Viewer.	10.95.5
61761	Resolved a crash that could occur when loading a display with an FDDWorX Viewer configured with a global alias in the asset path.	10.95.4

Ref ID	Description	First Available In
62259	The FDDWorX Viewer was treating certain columns as strings instead of numbers, causing the sorting to not work as expected. This has been resolved.	10.95.4
62298	In previous versions, the Facility AnalytiX Viewer in MobileHMI HTML5 could crash the AnyGlass engine when a Global Alias was used for an asset path and the display was reloaded or refreshed. This issue has been resolved.	10.95.4
62300	Rich text descriptions in rules are now supported on the Fault Description tab of the FDDWorX Viewer. Formatting is not currently available, but the correct text is displayed.	10.95.4
57031	Resolved an issue that prevented the SelectedAsset features of the Asset Navigator to set the proper alias or data source when the asset was selected.	10.95.1

ReportWorX64 Viewer

Ref ID	Description	First Available In
67580	The ReportWorX64 Viewer in Executor view mode did not use the configured foreground color. This has been resolved.	10.95.5
67585	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.	10.95.5

Schedule Control

Ref ID	Description	First Available In
67685	Resolved an issue that could cause the Schedule Viewer to not take up the full space in an expandable container.	New for 10.96
64797	The HTML5 version of the BACnet Schedule Viewer wasn't obeying the FrameWorX Server Location value on the Source tab. This has been resolved.	10.95.5
65068	HTML5 Schedule Viewers can now load a configuration from a file.	10.95.5
65569	The HTML5 Schedule Viewer now accepts the Load Schedule Control Configuration command.	10.95.5
63946	Resolved an issue that would prevent a BACnet schedule from refreshing when its global aliases were updated.	10.95.4

TrendWorX64 Viewer

Ref ID	Description	First Available In
66309	The HTML5 TrendWorX64 Viewer would incorrectly show the Y-Axis if it was set to not be visible and there were multiple pens using a shared axis. This has been resolved.	New for 10.96
66812	Resolved an issue causing the Delete Pen command to fail when the "Delete" property was set to "Selected".	New for 10.96
68954	When there are multiple HTML5 TrendWorX64 Viewers with a shared cursor time and the cursor is dragged in one viewer, the cursor tooltip should appear in all visible viewers that share that cursor. It was also appearing for hidden viewers that share the cursor. This has been resolved - hidden viewers no longer display the cursor tooltip in this situation.	New for 10.96
69032	The HTML5 TrendWorX64 Viewer did not respect the "Use mouse click or tap to move cursors" setting. This has been resolved.	New for 10.96
69529	The ShowDisabledPens property of the trend viewer is now supported in HTML5.	New for 10.96
69556	Resolved an issue where the HTML5 TrendWorX64 Viewer would ignore the setting to hide the Y axis, showing it even if it was configured to be hidden.	New for 10.96
70246	When the HTML5 TrendWorX64 Viewer redrew or animated (such as when adding new samples), any selections in the legend would be deselected, and the legend would be scrolled back to the top. This has been resolved.	New for 10.96
71378	The HTML5 TrendWorX64 Viewer's legend didn't respect column width settings. This has been resolved.	New for 10.96
71595	Resolved an issue preventing the HTML5 TrendWorX64 Viewer's legend from scrolling.	New for 10.96
61575	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.	10.95.5
65371	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).	10.95.5

MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
65373	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.	10.95.5
66327	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.	10.95.5
66433	When the Last Value column was visible no value would be displayed in that column for Boolean tags. This has been resolved.	10.95.5
66563	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.	10.95.5
66770	Resolved an issue causing the X-axis grid lines to ignore the configured color and always show as white.	10.95.5
66771	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.	10.95.5
66810	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.	10.95.5
66811	The Create Pen command would always add pens as Interpolative, even if another aggregate or "raw" was specified. This has been resolved.	10.95.5
66813	Resolved an issue with the TrendWorX64 Viewer that could cause it to fail to plot data past an unexpected value such as null.	10.95.5
66857	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.	10.95.5
67290	Resolved an issue in positioning the cursors in TrendWorX64 Viewers that had their size changed in runtime.	10.95.5
67657	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.	10.95.5
62550	Previously, the HTML5 TrendWorX64 Viewer did not update when global aliases in the connection parameters (select a pen > General tab > Connection field) were updated. This has been resolved.	10.95.4
62565	The Select Asset command, when targeting a TrendWorX64 Viewer, was creating DA pens when it should have been creating HDA pens. This has been resolved.	10.95.4
62584	The HTML5 TrendWorX64 Viewer now supports removing the selected pen via the Delete Pen command. (Previously, "Delete Pen" could only be used to delete a specific pen or all pens.)	10.95.4
62585	Previously, if a Hyper Historian tag's description contained a language alias and that description was pulled through an HTML5 TrendWorX64 Viewer, the description of the pen in the viewer's legend would show with double-quotation marks around it. This has been resolved.	10.95.4
62954	Resolved an issue causing the foreground color of the selected pen in the HTML5 TrendWorX64 Viewer's legend to be ignored.	10.95.4
63205	The HTML5 TrendWorX64 Viewer now supports the Show Details command.	10.95.4
63235	Resolved an issue with the Create Pen command where executing multiple Create Pen commands that included global aliases in their connection parameters would only resolve the aliases for the first command.	10.95.4
63451	Resolved an issue where the HTML5 TrendWorX64 Viewer wouldn't allow a legend with size of 0 to be expanded in runtime. (This was allowed in the WPF TrendWorX64 Viewer.)	10.95.4
63723	Resolved an issue with the TrendWorX64 Viewer's range data source. The data source wasn't being updated when the user wrote a custom value to the tag. In the WPF TrendWorX64 Viewer, writing "StartDate;Range;" to the data source would cause it to be updated to the full formatting of "StartDate;Range;EndDate", but this was not happening in HTML5.	10.95.4
63796	Resolved an issue causing data exported from the HTML5 TrendWorX64 Viewer to always be exported using US datetime formatting, regardless of the system settings.	10.95.4
63945	Resolved issues with the "Set Time Range" command where the summary view would not always be updated correctly.	10.95.4

Ref ID	Description	First Available In
63947	Resolved an issue that could cause a backwards trend to be plotted if there was both good and bad data in the results.	10.95.4
63991	The TrendWorX64 Viewer will now inherit the local time zone from the client. Previously it would only show data logged in the time zone of the source data (usually UTC time for Hyper Historian).	10.95.4
63993	Resolved an issue that could cause axis labels to overlap each other, making them difficult to read.	10.95.4
64586	Added the ability to set a default pen axis style. This style is set in the configuration under the Chart object on the Pens tab. When enabled, the style is used for creating new pens, both in configuration and runtime mode.	10.95.4
57239	Fixed an error in MobileHMI HTML5 TrendWorX64 Viewer where new pens created with time zone customizations would render without data.	10.95.1

Security

Ref ID	Description	First Available In
68085	Resolved an issue preventing HTML5 clients from going to the login page after they have been logged out.	New for 10.96
70508	Resolved an issue that could cause a login to happen twice when a user navigated directly to an HTML5 page and logged in. This did not cause any erroneous behavior that the user would have noticed, except that the GenEvents and audit log may have recorded two subsequent logins for the same user, only a few milliseconds apart.	New for 10.96
65043	Resolved an issue that could allow users to access cached displays even if they were denied those displays via security.	10.95.5
67170	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.	10.95.5
67922	The change password dialog wouldn't appear if the user was required to change password upon first login. 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.	10.95.5
64601	Resolved an "Unable to login" error message that could occur on redundant systems.	10.95.4
62928	When launching a KPIWorX page from an HTML5 display, the user would have to log in again on the KPIWorX screen. This occurred because the KPIWorX and HTML5 pages did not share a security context. This has been resolved - KPIWorX and HTML5 should now have the same security context, and logins from one should persist to the other.	10.95.2
57024	Fixed a MobileHMI HTML5 error where the security login may incorrectly persist on screen after providing credentials.	10.95.1

Server

Ref ID	Description	First Available In
61221	Resolved a rare unhandled System.NullReferenceException that could result in a crash of w3wp.	10.95.4
57041	Resolved a hang in the AnyGlass engine that would result in clients failing to load layouts or pages and new clients would be unable to connect.	10.95.1
57056	Resolved an issue where the AppHub layout was not being properly reloaded after a user logged in or out, resulting in the wrong tiles being visible, according to security.	10.95.1

Windows 10 App (UWP)

Ref ID	Description	First Available In
39210	Relative paths did not work in commands launched from the asset navigator in the MobileHMI app sidebar. This has been resolved.	New for 10.96
68961	Certain buttons in the Security Login control would not properly adhere to font size changes. This issue has been resolved.	New for 10.96
63026	Resolved an issue in the Universal Windows Platform (UWP) MobileHMI app that could cause a crash or freeze when issuing many requests for data values. This issue could also result in the app taking minutes to load children equipment in the Asset Navigator.	10.95.4
59474	Resolved a crash in the Universal Windows Platform (UWP) asset navigator that could occur when loading or refreshing a navigator with a large number of assets.	10.95.3

AlarmWorX64 Viewer

Ref ID	Description	First Available In
57266	Resolved a System.NullReferenceException crash in the alarm viewer. This crash would occur in viewers that used global aliases. Updating those global aliases could result in this crash. The crash could happen in any format of the alarm viewer but would occur most often in HTML5 clients (where it manifested as a crash of w3wp.exe).	New for 10.96
63673	Clickable links now work in the HTML5 and Universal Windows Platform (UWP) AlarmWorX64 List View.	10.95.5
65599	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.	10.95.5
63430	The alarm "toast" notifications for the Windows Universal Platform (UWP) MobileHMI app now support Unicode characters (UTF-8).	10.95.4

GraphWorX64

Ref ID	Description	First Available In
45432	Local aliases were not working consistently inside of smart tiles. This has been resolved.	New for 10.96
63406	Resolved an issue in the Universal Windows Platform (UWP) MobileHMI app that could cause the title objects in Pivot Controls to have the wrong color.	10.95.4
58435	Resolved a "The type 'Model3DCollection' was not found" error that could occur when loading certain displays with 3D elements.	10.95.2
57065	When using a touchscreen, if the user accidentally dragged the screen a little (enough to scroll) while trying to tap a button, the button could become unresponsive from that point on. This has been resolved.	10.95.1
62958	Displays could briefly appear to an unauthorized user before the "access denied" page was shown. This has been resolved.	10.95.1

GridWorX Viewer

Ref ID	Description	First Available In
69443	Resolved an issue causing the GridWorX Viewer to load with the correct number of rows, but all blank cells. This would occur if the GridWorX point manager was started after the GridWorX Viewer entered runtime.	New for 10.96
61964	Setting global alias values multiple times in quick succession when those aliases were used by a GridWorX Viewer could cause a crash in the MobileHMI app. This has been resolved.	10.95.4

TrendWorX64 Viewer

Ref ID	Description	First Available In
61129	Resolved a crash that would occur when loading a TrendWorX64 Viewer that had no pens.	New for 10.96
69769	Enhanced the performance of the TrendWorX64 Viewer to speed up its initial load time.	New for 10.96

Platform Services

Commanding

Ref ID	Description	First Available In
69187	The Call Method command supported dynamic values (such as expressions or global aliases) in parameters, however only the values in the last dynamic parameter would be resolved. This has been fixed.	New for 10.96
69463	In certain circumstances, executing a command on a client could cause FrameWorX to log error-level (800) TraceWorX messages that included "Result=Bad - Invalid In Params". To create this situation, there needed to be multiple GraphWorX64 clients connected to the same FrameWorX server which had controls registered under the same name and using the Commanding Scope of "Process". These commands would be unnecessarily processed by the FrameWorX server, causing these TraceWorX errors. This has been resolved - commands that are local-only are now limited to the local client and not sent to FrameWorX Server for further processing.	New for 10.96
59086	Global aliases and tags are now allowed in the Value property of a Write Value command. (Any text is allowed in the Value field, but the user should ensure that it properly resolves in runtime.)	10.95.3
59722	Commands containing global aliases in the parameters (such as in the file name of a load display command) would not resolve when the command was executed. This has been fixed.	10.95.3
56819	Fixed an error in GraphWorX64 where setting an invalid time in the Set Time Range Control could result in a crash.	10.95.1

Data Browser

Ref ID	Description	First Available In
62486	Resolved an issue where selecting the same tag twice in a row in the data browser (for instance, in GraphWorX64, select TagA for process point PP1, then select TagA for process point PP2) did not properly select the tag the second time (PP2's data source would not change). This only happened if the same tag was selected twice in a row - choosing a different tag in between would not trigger the issue.	New for 10.96

Expressions

Ref ID	Description	First Available In
27056	Previously, the expression editor would only accept "true" and "false" (lower case) for Boolean values, not "True" or "False". This has been resolved - proper case "True" and "False" are now accepted as valid Boolean values.	New for 10.96
69911	Expressions in AssetWorX that contained a "Bad - Uncertain" quality tag would return a result of "Bad". This has been resolved. These expressions now correctly return "Bad - Uncertain".	New for 10.96
70245	Resolved an issue that would prevent Unified Data Manager expressions from reading OPC UA tags when the Expressions point manager was running out of process.	New for 10.96
70561 72235	If the "or" operator () was used with an operand that created an error (such as if one operand can't be converted to a Boolean) or had bad quality, it would return that error or quality. Now, the "or" operator will return the non-error or good quality operand. This is consistent with the behavior prior to version 10.95.	New for 10.96
71293	Specific invalid combinations of binary (such as &, , &&,) and unary (such as !) operators could cause an error with the parser that could cause unexpected behavior in a client, such as a configuration not loading completely or a crash in a point manager. The parser now handles this situation better. (The invalid combinations are still invalid, but accidentally including such a combination will no longer cause issues such as crashes or failures to load configurations.) This problem could have occurred for expressions used in AssetWorX, Hyper Historian, and HTML5 displays.	New for 10.96

FrameWorX

Ref ID	Description	First Available In
68354	Resolved a rare FrameWorX crash (System.AccessViolationException).	New for 10.96
69036	Resolved an issue in the implementation of OPC Classic method IOPCAsyncIO2::Read. The method now follows OPC 2.0 specifications and correctly returns a value even if the group is set to "inactive" status.	New for 10.96
69559	Resolved a rare crash (System.NullReferenceException) in FrameWorX Client which would manifest as a crash in the client application (usually GraphWorX64).	New for 10.96
70614	Resolved a rare FrameWorX crash (Opc.Ua.ServiceResultException).	New for 10.96
71292	Resolved a rare FrameWorX crash (System.InvalidOperationException).	New for 10.96
63916	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.	10.95.5
65538	Optimized FrameWorX to reduce CPU usage on large systems.	10.95.5
65602	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.	10.95.5
65795	Resolved a license-related issue that could cause the alarm server to fail to raise or clear alarms after a failover.	10.95.5
66875	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".	10.95.5
67620	Resolved a very rare FrameWorX hang related to checking whether TraceWorX files exist.	10.95.5
67653	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.	10.95.5
67693	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.	10.95.5
68795	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.	10.95.5
61570	Resolved a crash of FrameWorX (unhandled CryptographicException in IcoFwxServer) that could occur after upgrading certain configurations to Update 3.	10.95.4
64529	Resolved a FrameWorX crash that could occur when third-party OPC UA clients attempted to read non-existent attributes of a folder under Control and Diagnostics.	10.95.4
64532	Added exception handling for a rare SafeArrayTypeMismatchException that could occur in FwxGenClientService.exe when attempting to read properties from a third-party OPC Classic server via FrameWorX.	10.95.4
59396	Resolved a rare crash of the data browser (IcoBrowse64.exe).	10.95.3
56979	Fixed a rare FrameWorX crash that could cause the FwxGenClientService.exe to produce a 'System.NullReferenceException' error.	10.95.1
57027	When subscribing to AssetWorX as an alarm server, virtual fields defined in the subscription could not be logged by the alarm logger. This has been resolved.	10.95.1
57127	Resolved a rare crash (NullReferenceException) in FrameWorX Server.	10.95.1

Global Aliases

Workbench Provider

Ref ID	Description	First Available In
66431	Aliases associated with the built-in "Color Theme" theme (other than the built-in GlobalColor_Palette alias) would be lost when the global colors were updated. This has been resolved.	New for 10.96

Health Monitoring

Ref ID	Description	First Available In
69284	Updated the per-application CPU utilization in the default System Health displays to account for multiple CPU cores. This resolved an issue that could cause some systems to display greater than 100% CPU utilization.	New for 10.96
70361	Resolved a memory leak that could occur on displays containing an Asset Navigator, Heatmap, Data Diagram, or Smart Tile with a microchart. This included the Health Monitoring pages.	New for 10.96

Language Aliasing

Ref ID	Description	First Available In
65708	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".	10.95.5

OData Connector

Ref ID	Description	First Available In
63922	Resolved a rare deadlock that could cause the ODataConnector to stop updating.	10.95.5
68146	<p>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.</p> <p>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.</p> <p>To set this parameter, go to Platform Services Configuration > Point Managers tab > OData Point Manager and change the RealTimeWaitOnBadQualityDelaySecs parameter. 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.</p>	10.95.5
61466	Resolved an issue that would cause writes (PATCH commands) to fail during an internal periodic refresh.	10.95.4
61615	Resolved an issue that would prevent the OData Connector from starting if there was an equipment property at the root of AssetWorX. (Properties of the root are not supported by OData runtime, but they no longer cause it to stop working.)	10.95.4
61855 61962	Implemented an option for the OData Connector where it can force "garbage collection" (GC.Collect) once a day. This memory should eventually be released by the .NET Framework on its own, but some systems may want to use this daily check to prevent the perception that the OData Connector is leaking memory or to better manage a high-memory system. The time to do the collection can be configured in Platform Services Configuration > Point Managers > OData Connector Point Manager > GCCollectScheduleMinutesAfterMidnight. A value of 0 or greater will schedule the check that many minutes after local midnight has passed.	10.95.4
62112	Improved the reading of asset properties to resolve a situation where large numbers of bad quality tags could cause the OData Connector to fail to load with an HTTP 500 error.	10.95.4

Ref ID	Description	First Available In
63012	Requesting properties with a NULL value from the OData interface now properly returns a 204 NoContent response. Previously, it would throw a connection reset (ECONNRESET) error.	10.95.4
63060	Improved error handling. Previously, if the underlying dataset caused an error, the connection with the client could be severed (ECONNRESET error). Now, the connection is not reset, and an HTTP 500 error response is sent back.	10.95.4
59561	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.	10.95.3
62683	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.	10.95.3

OPC UA

Ref ID	Description	First Available In
65139	Improved the OPC UA client login/logout methods. This improvement resolves an issue where a user who was not logged in would be attempted to be logged out. This invalid logout would log this TraceWorX error: "OPC UA client: Error logging out as 'sdjff*&': Bad - Not Supported".	New for 10.96
68881	FrameWorX no longer reads UserAccessLevel for the OPC UA tags it requests. UserAccessLevel is not actually required (user rights to tags is governed by ICONICS security, not UserAccessLevel), so this will not result in any loss of features or functionality. By no longer reading UserAccessLevel, we reduce the load on FrameWorX and the OPC UA server. We also reduce the number of items in the OPC UA server subscription, which can prevent issues on systems with very many tags, where FrameWorX could overload the number of items allowed in the OPC UA server (which would result in a BadTooManyOperations error).	New for 10.96
69881	When browsing a node in namespace 1 under a node in another namespace greater than 1, FrameWorX would incorrectly parse the tag name, resulting in an invalid tag name status. This would only occur in specific OPC servers (it was first observed with a prototype OPC UA module for the iQ-F PLC), and the tag name in question would contain a set of empty brackets. This issue has been resolved. Note, for users who cannot upgrade to a version with this fix, a workaround is to go in Workbench to Platform Services > FrameWorX > Network Settings > OPC UA Network, click the "tools" icon for your OPC server having this issue, expand Other Settings, and change the Browsing Mode to "Always Node ID".	New for 10.96
	Resolved an issue that could prevent FrameWorX from immediately reconnecting to an OPC UA server after a period of network congestion or packet loss. Part of this solution involved updating the default timeout used by clients from 10 minutes to one minute.	
71156	Also resolved an issue that could cause clients such as GraphWorX64 to display blank data (no value, not even an asterisk) when communicating with an OPC UA server that returned an error when FrameWorX tried to read read/write permissions. (One common cause for this is that the OPC UA server was too busy to respond to all read requests.) Now, when FrameWorX has successfully retrieved a value via a subscription but cannot read the attributes it assumes the point is read-only, allowing clients to correctly display the value.	New for 10.96
72155	Took steps to address a very rare deadlock in FrameWorX Server (IcoUAClient module). When experiencing this issue, FrameWorX would appear unresponsive, and the CPU usage would drop to almost nothing.	New for 10.96
66628	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).	10.95.5
67860	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.	10.95.5

Ref ID	Description	First Available In
	<p>To configure this feature, edit FwxAsyncServer.config.xml in Program Files\ICONICS\GENESIS64\Components. Look for these lines:</p> <pre><!-- Debugging --> <FocusedPoint></FocusedPoint> <FocusedPointTraceLevel>900</FocusedPointTraceLevel></pre> <p>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.</p> <p>Remember to disable TraceWorX by setting the trace level to "none" when you are finished troubleshooting.</p>	
68572	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.	10.95.5
63321	<p>Resolved an issue causing erroneous "Duplicate ID" warnings to be logged in TraceWorX for FrameWorX (OPC UA Point Manager module). A large number of these warnings could appear after recovering from a failed connection, though they were not a cause for concern. The list of IDs is now properly cleared in the case of a connection break, so this warning should no longer be logged erroneously. The warnings would look something like this:</p> <pre>UA: opc.tcp://IPAddress:Port CreateMonitoredItems(ns=X;s=Y: Duplicate ID: Z): Good</pre>	10.95.4

Project Reporting

Ref ID	Description	First Available In
66279	Resolved an issue that could cause Project Reporting to hang during tag validation.	10.95.5
66657	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.	10.95.5
56591	Resolved an issue where filtering for specific items (such as a particular asset in an AssetWorX report) in a Configured Tag Report would return no results.	10.95.1
57113	Project reporting in the Workbench has been streamlined to decrease the amount of time required for a report to complete.	10.95.1

Security

Ref ID	Description	First Available In
65630	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.	10.95.5
63292	FrameWorX now retries to connect to remote FrameWorX servers if the initial refresh fails. Previous to this, if the remote FrameWorX was restarted, the local FrameWorX may try to reconnect too early in the process and be denied by security, then it would never retry. The result was that, sometimes after a remote FrameWorX was restarted, the points coming from that server would show as Bad - User Access Denied.	10.95.4
63977	The security server now supports Group Managed Service Accounts (gMSAs).	10.95.4

Triggers

Ref ID	Description	First Available In
65977	Data properties of triggers (such as TriggerCount) weren't being properly updated if the trigger was in a folder. This has been resolved.	New for 10.96

Ref ID	Description	First Available In
65987	The trigger counts for conditional data triggers will now only be incremented when the condition evaluates to true. Previously, if the conditional trigger was set to trigger on true, a false condition could increment the count. Also resolved an issue with conditional data triggers where the value property was being incorrectly set when the trigger type was "When data tag is FALSE".	New for 10.96
64622	The trigger point manager can now support changing the active database without restarting the point manager. This will resolve some errors with IoT triggers. Previously, after deploying a trigger configuration to the IoT edge device, TraceWorX would log an error when the trigger should've fired: "Error: Sending invalid trigger notification: True, False".	10.95.5

Workbench Provider

Ref ID	Description	First Available In
62216	Resolved an issue that could cause a Unified Data Manager configuration from 10.93 or earlier to have its time intervals changed on its time triggers after upgrading the database to a newer version.	10.95.4

Unified Data Manager

Ref ID	Description	First Available In
63307	Global Alarm Subscriptions should now expose the correct attributes/fields to clients such as the AlarmWorX64 Viewer and AlarmWorX64 Logger.	10.95.4

Tools

Bulk Asset Configurator

Ref ID	Description	First Available In
67177	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.	10.95.5
67920	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.	10.95.5

ConverterWorX

Ref ID	Description	First Available In
65383 65384	<p>Added new options to the ConverterWorX Importer under GraphWorX64 Translation - General. These options are designed to be used for rare edge cases.</p> <ul style="list-style-type: none"> 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. 	10.95.5
67991	<p>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.</p> <p>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.</p>	10.95.5
61792	Resolved an error in converting TrendWorX32 data to Hyper Historian when the source database contained multiple rows with the same Table_Name in the TWX_Global table. Also enhanced the conversion so as not to overload FrameWorX when converting very large databases.	10.95.4

ScriptWorX64

Ref ID	Description	First Available In
62963	When a watchdog was triggered it would not restart the script in question. It would freeze the entire thread/designer, including other scripts in the thread. Once the watchdog has triggered nothing in that thread would run again until ScriptWorX64 was restarted. This has been resolved.	10.95.1

Workbench

Ref ID	Description	First Available In
66260	When you have the Project Details panel selected and hit a letter on your keyboard, the selection should jump to the first item that starts with that letter. This support was broken around 10.95 Update 4. It has now been restored.	New for 10.96
69160	In the Project Details pane of Workbench, users can optionally filter by some columns. There was an issue that could prevent users from typing into the "Show rows with values that" box of those filters. This issue has been resolved.	New for 10.96
72722	Resolved an issue preventing users from opening Workbench when the Workbench > Project Management > Edit Project application action was denied in security.	New for 10.96
65733 65119 66571	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."	10.95.5
67700	Resolved an issue where configurations stored in SQL Azure Database couldn't be upgraded or created via Workbench.	10.95.5
68029 68037 68047	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.	10.95.5
68229	Resolved an issue causing Pack and Go to not expand the asset structure when using the "Explore Package" or "Unpack Package" functions.	10.95.5
61396	When using Excel to open an export file generated from Workbench, Excel would say that the file was corrupted and offer to repair it. If the user repaired the file, it was not able to be imported back into Workbench. This has been resolved. Excel should no longer detect Workbench export files as corrupted.	10.95.4
61788	Resolved an error that would occur when making a new project active in Workbench if both projects used a unified configuration database. After making the second project active, this error would appear: "Cannot complete the request. It was not possible to find the item on the server. The item was deleted or there is a general error on the server." This was caused because each Workbench project contained the configuration tables for Workbench itself, and the new Workbench settings were in the old configuration database, not the new one. Workbench now avoids this error by keeping the Workbench's configuration database will be kept in a separate database from the unified configuration.	10.95.4
62218	There is now an option to back up the database when upgrading the security configuration.	10.95.4
62924	When importing into GridWorX or unpacking a package file containing a GridWorX configuration, the "Delete non-existing items" option would be ignored. This has been resolved.	10.95.4
63412	Resolved an issue in the Unified Data Manager import that could occur if an expression and a folder shared the same name in the import file. Only the folder would be imported.	10.95.4
58852	Resolved a rare crash that could occur when double-clicking in the Recent Tasks list.	10.95.2
56759	When a tab has been maximized, triggering an action to open a new tab (such as when editing a BridgeWorX64 transaction, and selecting the button to edit the linked template) would have no visible effect. Now, jumping to a new form opens the form in another tab of the maximized window. (Note: for maximized windows the tabs are on the bottom.)	10.95.1
58085	Resolved an issue that would cause imports to fail to create new items.	10.95.1

Audit Log

Ref ID	Description	First Available In
61029	The audit log feature was not recording any changes to the security configuration. This has been resolved.	10.95.3
56733	The audit log now provides increased granularity with changes, including Pack and Go and import/export.	10.95.1

PowerShell

Ref ID	Description	First Available In
64629	Users no longer need to run "Get-Module -ListAvailable -Refresh" to use new or updated PowerShell commands installed by ICONICS products. (This was documented as a known issue in previous releases.)	New for 10.96

Known Issues & Limitations

Ref ID	Description
n/a	Energy AnalytiX has been temporarily held out of the initial release of version 10.96 while we make some significant updates. Look for the new and improved Energy AnalytiX to be re-introduced in a future update. Please contact your local sales representative or email info@iconics.com with questions or feedback.
58862	The BACnet trend buffer is not synchronized correctly (creating a gap in the historical trend) when the Hyper Historian Logger Service has been stopped for a period of time (at least 15 minutes, but more likely to happen the longer the logger has been stopped).
71557	For BACnet, having more than one port enabled on a single network interface is not currently supported.
72799	When using multiple global aliases in a data tag in GridWorX, the data might not be loaded correctly when the display is opened on the machine.
65318	In a redundant scenario with a single AlarmWorX64 Logger but two logging databases, store and forward files will not be loaded into the secondary logging database.
52673	The AlarmWorX64 MMX configuration is not supported in a Unified Configuration Database. The AlarmWorX64 MMX configuration database must be in a separate database.
72819 72861	The CFSWorX dispatcher dashboard display is not currently supported in HTML5. It should be used in the desktop (WPF) GraphWorX64.
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.
72454	The MergeWorX service can crash when using an empty data point column in the input CSV file or an empty output point in the MergeWorX tag.
64954	Sending IoT Analyzer fault incidents to FDDWorX via IoT Hub and MQTT broker is not currently supported. Fault incidents can be sent by Platform Services (FrameWorX) communication. This support is planned to be implemented in a future version.
	BACnet connectivity for the 10.96 IoTWorX edge devices will be introduced in a future update.
67844	Note that users who require BACnet connectivity can continue to use the 10.95 version of the IoTWorX edge software, and that version 10.96 servers can communicate with and deploy to 10.95 edge devices. Please contact your local sales representative or email info@iconics.com with questions or feedback.
72687	When deploying a new IoT Analyzer configuration to a device, the IoT Analyzer may not pick up the online changes. You need to restart the container.
	If the edge device cannot connect to the IoT Hub for a period of time, messages older than two hours are removed from the queue and are not published into the IoT Hub after reconnection. This will cause gaps in data collection if the device is disconnected for more than two hours.
72771	This time period of two hours can be modified in the Azure Portal. It is the "Store and forward configuration - time to live" setting in the Edge Hub deployment. Users must deploy their device from Workbench per normal, then modify the first deployment in the Azure Portal to change this value. (Please consult Azure Edge Hub documentation if you cannot find this setting.) Note that increasing this value will require additional disk space on the edge device for storing the extra buffered data in the event of an extended disconnection.
72897	When an internet connection is re-established after an internet disconnection, it may take about 15 minutes to re-create the connection between the EdgeHub module running on the edge device and the IoT Hub running in the cloud. Note that no data should be lost in this situation. Data will be buffered and resent when the connection to the IoT Hub is made.
69596	Users upgrading an IoT Collector configuration from 10.95.x to 10.96 should reconfigure their Hyper Historian tags in the following manner: tags should be placed within a folder that has a name matching the DeviceID of the IoTWorX device collecting the tags.
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.
63359	Esri maps are currently not supported in HTML5.
72678	In HTML5 screens, an object with a background color of "none" placed over a pick action will block the pick action. This is inconsistent with the behavior of desktop (WPF) screens. Note, setting the object to HitTestVisible=False will allow the underlying pick action to be executed.
61479	Network discovery no longer works on operating systems with the latest updates. This is due to Microsoft removing the SMBv1 and Computer Browser services. These services were removed for security reasons, as they were being leveraged in ransomware and other malware attacks.

Known Issues & Limitations

Ref ID	Description
	<p>See this Windows support article for more information on why these services were removed: https://support.microsoft.com/en-us/help/4034314/smbv1-is-not-installed-by-default-in-windows</p> <p>There are currently no alternative methods for ICONICS products to use for accurate and safe network discovery. ICONICS recommends that in lieu of automatic network discovery users can add servers manually under Platform Services > FrameWorX > Network Settings > FrameWorX Network or OPC UA Network.</p> <p>For OPC Classic servers, add them under Platform Services > FrameWorX > Server Settings > GenBroker64 Settings. For the channel type (most likely "OPC over TCP/IP"), select the "Configure Nodes" icon in the first column and add your server name or IP address as a node.</p>
39489	<p>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.</p>
55389	<p>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.</p>



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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