

# ICONICS 10.97

Critical Fixes Rollup 1

Resolved Issues | **ICONICS Suite™**

June 2021



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## **Introduction to Release Notes for 10.97 Critical Fixes Rollup 1**

This edition of Release Notes documents the changes made for 10.97 Critical Fixes Rollup 1. It includes both fixes and enhancements.

Note that 10.97 Critical Fixes Rollups are not compatible with other 10.97.x products, such as 10.97.1 or 10.97.2.

### **Security Vulnerability Note**

Items related to security vulnerabilities are listed in bold text and a different (orange) background color.

## Common & Platform Services

Ref ID	Description
36978	Fixed multiple small localization issues.
84143	After a system was upgraded from 10.96 or 10.96.1, certain modules were not able to read INI files. These modules would run using default values for the unreadable INI settings. The affected modules included: AlarmWorX64 Logger, AlarmWorX64 Server, AlarmWorX64 MMX, TrendWorX64 Logger, and Unified Data Manager (except expressions). This issue also caused these modules to not appear in the TraceWorX utility. This has been resolved.

## Data Browser

Ref ID	Description
83457	Resolved an issue that would cause the Data Points tab of the popup data browser to be blank. This would occur when a child copy of the browser window had opened and closed, such as when the Variables button on the Expression tab was used.

## Expressions

Ref ID	Description
83630	When referencing values with an enum type (such as a TextAlignment value), the expression engine would return a string in version 10.95.x (for example, "Left" or "Center"). Later versions would instead return an integer. The expression engine now behaves consistent with 10.95.x, returning a string.
83766	Resolved an issue in the tonumber() expression that could cause it to fail in specific cases when combined with the toformat() function.

## FrameWorX

Ref ID	Description
82846	If the Server Enabling Point (configured under Platform Services Configuration > Advanced) was set to an exp: tag and that expression contained a tag from Diagnostics > License Information (such as, \$info:Overview.LicenseMode), FrameWorX would self-disable as if the Server Enabling Point was bad quality. This has been resolved.
83170	Resolved a crash (System.NullReferenceException) that could occur in the unlikely situation that an OPC UA history read operation returns a good result but with null for data and events. The most common place for this crash to have occurred was in GraphWorX64 or web or mobile clients using a TrendWorX64 Viewer, but it could have occurred in other ICONICS applications that consume OPC UA historical data.  Note that a historical OPC UA server returning a good result with null for data and events is against the OPC UA specification, so while there is no longer a crash, it will report "Bad – Internal Error" as the status.
83286	If a node went offline and then reconnected, MonitorWorX and rdcy: tags may show the node as still offline, even though the connection has been restored. This has been resolved.
83426 83615	Resolved issues that could prevent the GridWorX Viewer, table, data diagram, heatmap, or Sankey controls from retrieving data from a remote FrameWorX server over a reverse networking connection. These issues only occurred in the table, data diagram, heatmap, and Sankey controls if they were configured to use a type of "Datasets." (The GridWorX Viewer always uses a connection type of "datasets".)  (Reverse networking is only used when the Platform Services Configuration > Basic tab > Reporting section is configured.)
83708	OPC UA historical data might not render when using tag names generated when the OPC UA server's browsing mode was configured as something other than "Always Browse Path". This has been resolved.  (Note, the browsing mode can be checked or modified by going to Platform Services > FrameWorX > Network Settings > OPC UA Network, select the tools icon for the desired OPC UA server, then go to Other Settings.)

## Installation

Ref ID	Description
82780	The AssetWorX point manager would crash immediately after being started on systems installed with only the Platform Services and Workbench Server modules (selected during a custom installation). This has been resolved.

## Licensing

Ref ID	Description
83173	Systems configured with both reserved and non-reserved licenses would double the count of in use reserved licenses, possibly preventing non-reserved clients from obtaining a license even if there were bits free. This has been resolved. Made a slight modification of the way point managers create sessions with licensing, designed to improve performance.
83764	Also, license aggregation is now optional and disabled by default. Users may want to enable if they are experiencing licensing-related issues on a system configured with a remote license server and a FrameWorX transport protocol of HTTP or HTTPS without WebSockets.  To enable license aggregation, update the <AggregateLicensingSessions> value in the FwxServer.Network.config file. Restart FrameWorX or reboot after making changes to this file.)

## Project Reporting

Ref ID	Description
83350	The "[Security] Application Actions" project report did not return any data. This has been resolved.

## Tools

### *Bulk Asset Configurator*

Ref ID	Description
82750	Resolved a crash ("Object reference not set to an instance of an object") when opening project files (AUTOINST file type) from previous versions in the Bulk Asset Configurator. Now, AUTOINST files of version 10.96 and newer can be opened in the Bulk Asset Configurator. Older AUTOINST files are not compatible but attempting to open them will not crash the utility.

# AnalytiX

## AnalytiX-BI

Ref ID	Description
83096	Resolved an exception (System.ArgumentOutOfRangeException: 'The added or subtracted value results in an unrepresentable DateTime') that could occur when using a "Hyper Historian Aggregated Data" data flow step with a large processing interval.
83736	Resolved an issue preventing the @@count tag of data views from properly recalculating.
83965	In data flows, the Asset Property Values step now returns null for bad quality values. Previously it returned an empty string, which could cause issues with following steps if they were not expecting a string value.

## AnalytiX-BI Workbench Provider

Ref ID	Description
83861	Resolved a rare System.InvalidOperationException error that could appear when applying changes on a data flow with at least nine steps.

## BridgeWorX64 & Workflow

### BridgeWorX64 Viewer

Ref ID	Description
83611	The BridgeWorX64 Viewer would incorrectly pass parameter values to the BridgeWorX64 Server when executing transactions if there was more than one parameter. This has been resolved.

## Common

Ref ID	Description
83767	Resolved a rare crash of the FrameWorX Service (Opc.Ua.ServiceResultException). This crash involved writing values into an OPC UA server. The crash has only been observed when writing values from within a BridgeWorX64 custom task, but it is possible it could have occurred in other clients.
83915	The Real Time Output, Bulk Real Time Output, or Dynamic Tag Writer activities may have failed writing to a remote data source if no transaction had read from or written to that particular data source for a period of time (around 30 minutes or more). This has been resolved.
83918	Real Time Output, Bulk Real Time Output, and Dynamic Tag Writer blocks perform a function known as "read verification". This involves waiting a configured amount of time then reading a value from the tag to confirm the write occurred. The results of read verification appear in the output dataset of the activity in the HasReadValue column. Read verification does not occur if "Fast Write Option" is enabled.  Resolved an issue causing read verification for these blocks to fail if the OPC server was on a different system and the system time of the BridgeWorX64 server machine was ahead of the OPC server system by a several seconds or more.

## CFSWorX

Ref ID	Description
83259	Resolved an issue with SendGrid AlertIDs that could cause them to use to a random number instead of 1 when rolling over from the maximum AlertID. This was only an issue with the first ID in a new sequence. The second AlertID would properly be set to 2 and continue as expected after that.  Most of the time this issue was inconsequential, but if the random number chosen was also in use by an active alert it could cause unpredictable or confusing behavior. For example, a user could respond to a SendGrid notice intending to acknowledge one alarm, but another would be acknowledged instead because they both used the same AlertID.

## Energy AnalytiX

Ref ID	Description
83719	When using the pivot feature of the categorical chart the X axis wouldn't be rendered properly. It would aggregate all data into one bar per pivot value instead of splitting it into the desired X axis values or would render no data at all. This has been resolved.  The pivot feature of categorical charts was used in some Energy AnalytiX pre-made dashboards, so the issue is resolved in those dashboards as well.
83729	Hyper Historian time calculation triggers configured with a specific time zone were treated as if they were using the local time zone. This has been resolved.  This issue could also have affected Energy AnalytiX data when the asset had a specific time zone configured.

## Facility AnalytiX & FDDWorX

Ref ID	Description
82562	Very rarely, AssetWorX configuration databases upgraded from 10.95.x would not log new faults. This was caused by a rare error in the database upgrade process. The database upgrade process has been improved to prevent this error.  Users who are experiencing this issue rare issue can either re-upgrade the database (restore the database to the 10.95.x version and perform an upgrade again using a version that contains this fix) or contact ICONICS technical support for assistance in repairing the already upgraded database.
83758	Resolved a rare 900-level message in the FDDWorX Service trace file. The message text was, "InvalidOperationException - Collection was modified, enumeration operation may not execute". This message did not indicate an actual issue, and it will no longer be logged.
83763	Disabling an FDDWorX fault rule no longer requires a restart of the service for the change to take effect.

## Fault Viewer

Ref ID	Description
82501	If the asset path specified for the Parent field in the Fault Viewer did not contain a trailing slash (example: ac:Parent instead of ac:Parent/) then the @@field.AssetPath context variable in commands could be missing a slash (example: ac:ParentChild instead of ac:Parent/Child). This has been resolved for all platforms - desktop (WPF), HTML5, and desktop (WPF).

## ReportWorX64 & ReportWorX64 Express

Ref ID	Description
82864	Non-Hyper Historian historical data configured with an aggregate would ignore the aggregate when downloading data to the worksheet using the Excel add-in or executing a report in ReportWorX64 Server. This has been resolved.  Resolved an issue where downloaded historical data for multiple tags may be incorrectly reported in the wrong columns or rows. This issue would occur in the specific situation where one of the tags had a name that matched the beginning of one or more other tags. For example, this set of tags would cause the issue:
83401	hh:\Configuration\Signals:RandomFast hh:\Configuration\Signals:Random hh:\Configuration\Signals:RandomSlow  The "Random" tag name also begins the "RandomFast" and "RandomSlow" tags, which would trigger this issue.
83576	Resolved an issue causing Excel formulas to not be recalculated prior to using a print redirector command. (They were recalculated properly for other redirector commands.)
84069	Date/time parameters configured as "Special Day" would resolve to an incorrect date, both when data was downloaded to the sheet and when the sheet was used as a template in the ReportWorX64 Server. This has been resolved.

**ReportWorX64 Express & Excel Add-In**

<b>Ref ID</b>	<b>Description</b>
82925	The ReportWorX64 ribbon would always be grayed out in Excel 2019, even the quick enable button. This has been resolved.
83360	Cells mapped to parameter values would lose their formatting (reset to general number) after the data has been cleared. This has been resolved - parameter value cells now retain their formatting.
83883	Resolved an issue that could cause templates to be uneditable when they were saved under specific circumstances. One of the circumstances that could cause this problem was if the template was saved after the user had logged out of ICONICS security. Other circumstances that caused this issue may exist but would be rare. Templates saved in these circumstances can now be edited just like any other template. There is no need to resave or recover the problem template in any way, simply edit them with a version of the ReportWorX64 Excel Add-In that contains this fix.
83921	Resolved an issue causing HDA data sources without headers to mistakenly have their headers restored when the template was loaded. This could cause issues with adjacent data sources, as HDA data sources that previously had no headers suddenly now took up an extra row, which could conflict with another data source if it was configured just below the HDA data source.
84109	Parameters used in HDA data sources (such as for the start or end date) would be lost after the Excel file was closed and reopened. This has been resolved. Note, this issue only affected the ReportWorX64 Excel Add-In. Templates uploaded to ReportWorX64 Server never lost their data sources.
84152	If two ReportWorX64 charts were configured on two separate sheets at nearly the same position but with different data, both charts may have incorrectly shown the same dataset. This has been resolved.

## Data Connectivity

### BACnet Connector

Ref ID	Description
	Resolved an issue that could cause BACnet alarm descriptions to disappear after the alarm was acknowledged. This happened because the device was sending an update with a blank description and BACnet runtime was using that description. Now BACnet Runtime will use a cached description if the device sends an update with an empty description.
83864	In the rare case that users prefer to use the updated description, even if it's empty, they can edit the IcoSetup.ini file and update or add this entry. When this entry is set to 1, an empty description will only be overridden with a cached value when BACnet Runtime is starting up.  [BACNET\Compatibility] ProcessEmptyAlarmDescriptions=1

### BACnet Workbench Provider

Ref ID	Description
82670	Changing the name of a BACnet device would append the device ID to the end of the new name. This has been resolved.

## GridWorX (Databases)

### GridWorX Server

Ref ID	Description
82536	Previously, if connection string values (such as the password) contained single quotes, double quotes, semicolons or equal signs, the connection string would not be read properly, and the connection would fail. This has been resolved.

### GridWorX Viewer

Ref ID	Description
82503	When a row was edited in the grid, the grid was reset, and the view jumped to the top. This has been resolved for all platforms - desktop (WPF), HTML5, and Universal Windows Platform (UWP).
82504	
82559	Resolved an issue preventing the GridWorX Viewer from updating data when virtual fields were configured. This fix was for all platforms - desktop (WPF), HTML5, and Universal Windows Platform (UWP).

### GridWorX Workbench Provider

Ref ID	Description
82376	Passwords in connection strings are no longer saved to export files in plaintext. They are encrypted when being saved to the export file and unencrypted when being imported. Note, it is still possible to import files that were created with plaintext passwords.

## Mitsubishi Electric Factory Automation (FA) Connector

Ref ID	Description
83055	If the Mitsubishi Electric FA Connector receives multiple subscription requests with different update rates at the same time, the connector would erroneously use the update rate of the last subscription for all subscriptions. This can cause a variety of unintended behavior. In particular, it has been observed to cause a delay in Unified Data Manager expressions when a tag from the connector was used in both the input and output expression. This is because the write expression uses a different update rate than the read expressions, and the write expression's update rate was the last one processed, and the write expression update rate is typically slower than the read expression.
83093	Tags from the Mitsubishi Electric FA Connector would stop updating if they were subscribed by two or more clients and one of those clients unsubscribed. The remaining clients would receive no further updates for those tags. This has been resolved.

## Modbus Connector

Ref ID	Description
83124	The Modbus Connector did not support characters with a hex value above 0x7F. This has been resolved.

## SNMP Connector

Ref ID	Description
83635	SNMP tags configured with a syntax of "Array" would only return the first item in the array. This has been resolved.
83685	SNMP tags configured with a syntax of "Table Value" may have returned the columns in an incorrect order. This has been resolved.
84153	Two clients attempting to read the same SNMP dataset point would cause excessive memory and CPU usage, one or both clients could freeze, and eventually the SNMP point manager would crash. This has been resolved.

## Web Services Connector

Ref ID	Description
82200	Web Services can now connect to SOAP services that require the SOAP 1.2 protocol. The Web Services point manager will first attempt to connect to the SOAP service with SOAP 1.1, and if that fails it attempts SOAP 1.2.
82237	The Web Services configurator failed to parse the schema correctly for SOAP services which rely upon externally imported WSDL documents. It would throw a System.InvalidOperationException. This has been resolved.
82953	Resolved a crash of the Web Services point manager that would occur when browsing methods that return void.

## Web Services Workbench Provider

Ref ID	Description
82296	Refreshing the schema of a Web Service call in Workbench would fail when Workbench was running in Internet Explorer. This has been resolved.

# GENESIS64

## Alarms and Notifications

### AlarmWorX64 Logger

Ref ID	Description
83593	When time zone support was enabled in the AlarmWorX64 Logger, the source local event time would be incorrect for records that were not the original alarm state (including acknowledgment and return to normal records). This has been resolved. Note that this fix will not correct the source local event time for records that have already been logged.
84172	Enhanced AlarmWorX64 Logger redundancy performance, especially in cases where two redundant logging databases were used and one database was offline.
84183	If the AlarmWorX64 Logger was configured to log to two redundant databases and archive using SQL Only mode, the archive would not happen. This has been resolved. Note, for archiving to occur the Max Records, Max Archive Records, and Max Archive Tables must be enabled.

### AlarmWorX64 Multimedia

Ref ID	Description
82690	Resolved an issue that could cause some agents in a non-looping action set to fail to receive return-to-normal or acknowledgment notices.

### AlarmWorX64 Server

Ref ID	Description
82939	Fields accidentally configured with only spaces could cause alarms to not function as desired. Now the AlarmWorX64 Server ignores configuration fields when they only contain spaces.
83468	Added a new INI setting to reduce incidents where both AlarmWorX64 Servers in a redundant pair have valid but non-identical sets of data. This is known as "split-brain". This can occur when the source data is remote from the alarm servers and each alarm server receive different updates from the source data (perhaps because of network inconsistencies). This new setting sacrifices availability to help prevent split-brain issues from occurring. Contact technical support for information on how to implement this setting if you think you have having split-brain issues.
83707	Resolved a rare AlarmWorX64 Server crash that could occur in configurations that used global aliases.
83996	Resolved an issue that could cause a redundant alarm server to show fewer alarms than it should on startup if its paired server was not yet active. This issue would most often occur when both alarm servers were started on systems making use of multiple networking cards per server node.
84050	Writes to some AlarmWorX64 Server DA tags would not be successfully written to the configuration database, meaning the changes would be lost when the AlarmWorX64 Server was restarted. This has been resolved.

### AlarmWorX64 Viewer

Ref ID	Description
82879	A real-time alarm subscription with a configured time zone would incorrectly shift the time and active time of existing alarms every time a filter was applied. This has been resolved.
84277	Made some changes to the default filter in the AlarmWorX64 Viewer to enhance compatibility with more OPC UA servers. Corrected TypelDs in the filter. The default filter now contains only one where clause (previously it had three clauses).  Also prevented a crash that could have occurred when the OPC UA server did not obey the filter and sent us fewer notification fields than expected.

### Hyper Alarm Server

Ref ID	Description
82665	Resolved an issue causing the Hyper Alarm Server to stop working and consume abnormally large resources with configurations larger than a certain size. Tests observed the issue after four hours in a configuration with 100,000 digital alarms triggering and returning to normal every 4 seconds.

Ref ID	Description
83231	Previously the Hyper Alarm Server would generate a new active time whenever the alarm transitioned into a new alarm state. For example, an alarm with both a Hi and HiHi state would generate a new active time when transitioning from Hi to HiHi state. Now, the Hyper Alarm Server only generates a new active time if the alarm transitions into the acknowledged & normal state in between the two alarm states. This is more consistent with the way the AlarmWorX64 Server functions.

## AssetWorX

Ref ID	Description
82780	The AssetWorX point manager would crash immediately after being started on systems installed with only the Platform Services and Workbench Server modules (selected during a custom installation). This has been resolved.
83229	<p>When exporting an AssetWorX configuration to Excel that includes an equipment class that utilizes the Alarms tab of an equipment property, a worksheet would be created with a name that exceeds the Excel limit. Opening the resulting Excel file would show this or a similar error: "We found a problem with some content in 'filename.xlsx'. Do you want us to try to recover as much as we can? If you trust the source of this workbook, click Yes."</p> <p>This issue has been resolved, however the resolution required creating an incompatibility with CSV and XML exports between version 10.97 without a rollup and 10.97 with Critical Fixes Rollup 1 or later. Attempting to import a file from 10.97 without a rollup into 10.97 with Critical Fixes Rollup 1 or later when the export included equipment classes that utilized the Alarms tab will cause this warning message:</p> <p>"Cannot generate the entity at location X at line Y. Unknown entity 'AlmsAcEquipmentClassPropertySourceInput' in the import file. If the file was manually edited it may have been edited incorrectly. If it was not edited, then the entity may have been renamed in the software. Search the ICONICS Knowledgebase for 'AlmsAcEquipmentClassPropertySourceInput' or contact technical support for assistance correcting the file with the new entity name."</p> <p>Users with CSV or XML files created in 10.97 without a rollup can resolve this by editing the CSV or XML file and replacing all instances of "AlmsAcEquipmentClassPropertySourceInput" with "AlmsAcEquipmentClassPropertySInput". Once edited, such files should be able to be imported into 10.97 systems with Critical Fixes Rollup 1 or later.</p>
83574	Using an expression containing parameters like @@self or other dynamic variables and tags as the default value in an alarm type and not overriding that default when creating an alarm would result in the expression not being evaluated. This has been resolved.

## Asset Navigator

Ref ID	Description
82775	Resolved a crash when configuring the Asset Navigator that would occur when adding a new styling rule on the Columns page and setting either the Foreground or Background to the default value and then applying the changes.

## AssetWorX Workbench Provider

Ref ID	Description
83043	Resolved a Workbench crash that would occur in the AssetWorX configurator when editing the Historical Data Tab of an equipment property inside an equipment class. Specifically, the crash would occur when the source type was "Hyper Historian Tag", the filter type was set to "Swinging Door", and the user selected the X to the right of the Maximum Period or Minimum Period in the Period section.
83491	Resolved a crash of Workbench that would happen if the AssetWorX configuration had no configured Alarms & Events sources (such as after creating a new blank configuration with no sample data) and the user tried to configure them under Assets > Product configuration > Alarms & Events settings > General settings and Alarms & Events sources.

## Controls

Ref ID	Description
83426	Resolved issues that could prevent the GridWorX Viewer, table, data diagram, heatmap, or Sankey controls from retrieving data from a remote FrameWorX server over a reverse networking connection. These issues only occurred in the table, data diagram, heatmap, and Sankey controls if they were configured to use a type of "Datasets." (The GridWorX Viewer always uses a connection type of "datasets".)

Ref ID	Description
	(Reverse networking is only used when the Platform Services Configuration > Basic tab > Reporting section is configured.)

## TrendWorX64 Viewer

Ref ID	Description
83170	Resolved a crash (System.NullReferenceException) that could occur in the unlikely situation that an OPC UA history read operation returns a good result but with null for data and events. The most common place for this crash to have occurred was in GraphWorX64 or web or mobile clients using a TrendWorX64 Viewer, but it could have occurred in other ICONICS applications that consume OPC UA historical data.  Note that a historical OPC UA server returning a good result with null for data and events is against the OPC UA specification, so while there is no longer a crash, it will report "Bad – Internal Error" as the status.
83791	The AutoScaleMargin setting of the Create Pen command was not being applied. This has been resolved.

## GraphWorX64

Ref ID	Description
82220	If executing the same load display global command twice, the local aliases would not be properly loaded from the second command. They would show with their default values. This has been resolved. Note, the local version of the load display command did not cause this issue, only the global command.  This issue was not observed to have any effect on global aliases, but there is a chance it could have affected them. If so, that issue is also resolved.
82639	Resolved a "Cannot insert duplicate key row in object" error that could occur when importing IFC files with objects that contained the same property but capitalized differently (such as "property" and "Property").

## 3D Viewport

Ref ID	Description
82646	Resolved a crash that could occur when moving an object in the 3D viewport when another 3D object is hidden in the same viewport. The crash would only occur when using the arrows within the viewer - the controls in the ribbon did not cause the crash.

## ScheduleWorX64

### Schedule Control

Ref ID	Description
56985	Resolved an issue causing the user to be able to modify BACnet schedule values in a Schedule Control when using French localization.

# Hyper Historian

## Data Exporter

Ref ID	Description
77683	Resolved a rare issue that could cause the Data Exporter to stop exporting to Azure Data Lake (Gen2) after a few minutes of successful exports. When the Exporter began to fail, TraceWorX would log these 800-level error messages:  AggregateException : Retry failed after 6 tries. --> TaskCanceledException : A task was canceled. Data Exporter Task task: Failed to initialize storage [Retry failed after 6 tries.]

## Hyper Historian Workbench Provider

Ref ID	Description
82731	Resolved a crash of Workbench when canceling the Dataset Configurator dialog after being informed that the dataset was not of the expected format (usually because it had no timestamp column).

## Logger

### Performance Calculations

Ref ID	Description
83729	Hyper Historian time calculation triggers configured with a specific time zone were treated as if they were using the local time zone. This has been resolved.  This issue could also have affected Energy AnalytiX data when the asset had a specific time zone configured.

## IoTWorX & Internet of Things

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Ref ID	Description
82078	The OPC UA PubSub encoder/decoder now supports the format defined in Part 14 of OPC UA specification (version 1.04). (This was documented as a known issue in 10.97.)

# KPIWorX

Ref ID	Description
83449	The map widget would display an incorrect view if the previous dashboard also contained a map widget and the maps were configured with different sizes and different views. This has been resolved.
83493	Exporting KPIWorX data to CSV would not properly adhere to the regional settings of the client. This has been resolved.
83719	When using the pivot feature of the categorical chart the X axis wouldn't be rendered properly. It would aggregate all data into one bar per pivot value instead of splitting it into the desired X axis values or would render no data at all. This has been resolved.  The pivot feature of categorical charts was used in some Energy AnalytiX pre-made dashboards, so the issue is resolved in those dashboards as well.
84063	KPIWorX categorical charts using pivoted data were not properly updated when an additional filter was applied. This could lead to samples being partially selected.

## MobileHMI & HTML5 WebHMI

Ref ID	Description
83806 83815	Resolved an issue causing the augmented reality GPS-based location commands to never be executed. This was an issue on the server side, but it would have affected all clients including HTML5 browsers and the MobileHMI app for iOS, Android, and Universal Windows Platform (UWP).

## HTML5, iOS, Android

Ref ID	Description
82313	Resolved a very rare issue that could cause the content to not load in certain HTML5 controls including the GridWorX Viewer, AlarmWorX64 Viewer, Asset Navigator, and the Recipe Grid.
82484	Resolved a graphical anomaly that could occur during a long press on iOS devices on a page where a context menu is available.
82831	Resolved two issues that could cause text to exceed the boundaries of its column in AlarmWorX64 Viewer and GridWorX Viewers or label in GraphWorX64. One of the resolved issues was specific to Firefox browsers, the other could have happened in any browser.
82932	Resolved an issue on touchscreen devices that could result in buttons or controls getting "stuck", as if they were still being touched even when they were not. This would happen when multi-touch was invoked (i.e. processing more than one touch point at a time).

## AlarmWorX64 Viewer

Ref ID	Description
84082	Resolved an issue that would cause displays created in certain older versions to ignore the row formatting configured on the "Condition" tab of an alarm grid. No updates to displays are necessary to fix this issue, simply use them in a version that contains this fix.

## Fault Viewer

Ref ID	Description
82501	If the asset path specified for the Parent field in the Fault Viewer did not contain a trailing slash (example: ac:Parent instead of ac:Parent/) then the @@field.AssetName context variable in commands could be missing a slash (example: ac:ParentChild instead of ac:Parent/Child). This has been resolved for all platforms - desktop (WPF), HTML5, and desktop (WPF).

## GraphWorX64

Ref ID	Description
82215	Objects with a rotation dynamic inside of a panel may not have calculated the center of rotation correctly, leading to undesirable behavior when rotated. This has been resolved.
82473	When a location dynamic with a slider was applied to an object that had a scroll bar (such as a control or panel), moving the scroll bar also triggered the location dynamic's slide and moved the object. This has been resolved, making the behavior consistent with the desktop (WPF) implementation.
82599	Checkboxes configured with the toggle value pick action and linked with a read-only data source would allow the user to check or uncheck them but would not execute the action. This has been resolved and is now consistent with desktop (WPF) - read-only toggle checkboxes do not allow the user to change the checkbox state.
82624	Pick action popup menu items configured with a "pick mode" of "radio button" could appear with all items selected instead of the correct item. These items also might not execute the pick action until they were selected twice. This has been resolved.
83015	Resolved a positioning issue with the Web Browser control that could cause it to draw on top of other components when in a dynamically sized panel.
83158	Resolved a rare issue that could sometimes prevent values resolving in cloned objects that used "valueof" expressions.
83268	When executed from inside a popup window, Load Display commands configured with a target type of "Popup Window" and configured with positioning window properties would incorrectly replace the embedded display, even in browsers that support window positioning. This has been resolved - now these popup Load Display commands properly launch the popup in an additional browser window.

Ref ID	Description
84041	Note that the popups described in this item are only supported on clients that support window positioning (i.e. desktop browsers). Clients such as mobile phones that do not support window positioning cannot launch popup windows this way and will still execute the Load Display command by replacing the embedded window. Resolved an issue in the embedded GraphWorX64 Viewer preventing scrolling when selecting the arrow buttons or the shaded shaft outside of the scroll box.

## GridWorX Parity

Ref ID	Description
82542	The HTML5 GridWorX Viewer now respects the "Allow Move Columns" setting. Previously columns were always allowed to be reordered regardless of this setting.

## GridWorX Viewer

Ref ID	Description
82367	When a cell was activated for editing and the HTML5 GridWorX Viewer was scrolled, the cell would remain active and on the same position on the screen instead of scrolling with the content. The behavior is now consistent with the WPF GridWorX Viewer - the cell will be deactivated for editing when scrolling begins.
82418	When a GridWorX Viewer was configured with "Enable Commands on Events" and a Row Click event, it would not be possible to select a cell to edit its value in HTML5 displays. This has been resolved.
82503	When a row was edited in the grid, the grid was reset, and the view jumped to the top. This has been resolved for all platforms - desktop (WPF), HTML5, and Universal Windows Platform (UWP).
82559	Resolved an issue preventing the GridWorX Viewer from updating data when virtual fields were configured. This fix was for all platforms - desktop (WPF), HTML5, and Universal Windows Platform (UWP).
82837	In the HTML5 GridWorX Viewer, writable columns with a type of integer could not accept NULL values. This has been resolved.
82991	If the cursor format property was set with an expression the cursor tooltips would sometimes not be displayed. This has been resolved.
83836	Resolved issues that could prevent GridWorX Viewer charts from retrieving data from a remote FrameWorX server over a reverse networking connection. (Reverse networking is only used when the Platform Services Configuration > Basic tab > Reporting section is configured.)
84244	The X or Y axis title no longer needs to be surrounded by single quotes to appear.

## Schedule Control

Ref ID	Description
83765	The HTML5 schedule control would not respect the configure font size. This has been resolved.

## TrendWorX64 Viewer

Ref ID	Description
82595	When receiving a Create Pen pick action, the HTML5 TrendWorX64 Viewer would ignore the y-axis foreground color if it was a global color.
83001	The x-axis values on an HTML5 TrendWorX64 Viewer would not be displayed if automatic time alignment was enabled and the selected time period was close to one week. This has been resolved.
83170	Resolved a crash (System.NullReferenceException) that could occur in the unlikely situation that an OPC UA history read operation returns a good result but with null for data and events. The most common place for this crash to have occurred was in GraphWorX64 or web or mobile clients using a TrendWorX64 Viewer, but it could have occurred in other ICONICS applications that consume OPC UA historical data.  Note that a historical OPC UA server returning a good result with null for data and events is against the OPC UA specification, so while there is no longer a crash, it will report "Bad - Internal Error" as the status.
83215	The HTML5 TrendWorX64 Viewer now properly respects the Format parameter of the Create Pen command.
83390	Resolved an issue causing the scrolling of the summary in the TrendWorX64 Viewer to jump unexpectedly and otherwise not match up as expected with the user's movement.
83675	Resolved an issue that could cause the cursor to have an offset from where it was being dragged, or to jump after leaving the chart area.

## Workbench

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Ref ID	Description
83019	Resolved an issue where SQL Server connections were not always properly disposed of when running PowerShell cmdlets. This could degrade the performance of Workbench cmdlets and SQL Server, eventually lead to this error: "Repository Exception. Timeout expired. The timeout period elapsed prior to obtaining a connection from the pool. This may have occurred because all pooled connections were in use and max pool size was reached."

## Known Issues & Limitations

Ref ID	Description
61479	<p>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.</p> <p>See this Windows support article for more information on why these services were removed:  <a href="https://docs.microsoft.com/en-us/windows-server/storage/file-server/troubleshoot/smbv1-not-installed-by-default-in-windows">https://docs.microsoft.com/en-us/windows-server/storage/file-server/troubleshoot/smbv1-not-installed-by-default-in-windows</a></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 &gt; FrameWorX &gt; Network Settings &gt; FrameWorX Network or OPC UA Network.</p> <p>For OPC Classic servers, add them under Platform Services &gt; FrameWorX &gt; Server Settings &gt; 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>
84054	<p>After upgrading to this version from 10.97 (with no rollup) or 10.96.2 (with rollup 1 or no rollup), systems licensed with a GENESIS64 Basic SCADA license (zero Advanced Tag Counting license bits, as seen in the License Monitor on the Basic SCADA tab) that are configured with Tag Counting Mode set to Advanced (Platform Services Configuration &gt; License Tab) may see their tags stop working with a status of "Bad – License Disabled" if those tags are coming from external sources (such as an OPC server, BACnet, Modbus, SNMP, etc.) and not configured as AssetWorX tags (AssetWorX point names start with "ac:"). If you think your system may encounter this issue, please contact your ICONICS sales representative or distributor before applying this critical fixes rollup. If you have already applied the rollup, you can temporarily uninstall it from Windows settings before contacting your representative or distributor.</p>
82446	<p>On a Hyper Historian Collector installation, the Configure System tool does not work.</p>
78056	<p>On some systems, the ICONICS License Service may fail to start after a reboot, causing clients such as Workbench and GraphWorX64 to display keys or a license failure message. If this occurs, change the startup type of the service from Automatic to Automatic (Delayed) using the Services control panel. This was observed most often on Windows Server 2016 and Windows Server 2019.</p>
79462	<p>On Windows 7 and Server 2012 systems the ICONICS services can take an excessively long time starting (ten minutes or more). This can delay services necessary to allow connections via Remote Desktop or Hyper-V console, meaning it can take over ten minutes before the system can be accessed.</p> <p>The workaround for this issue is to change the startup type for some services to Automatic (Delayed). Use the Services control panel or the Configure Services dialog in Workbench to change any ICONICS service running as Automatic (except the ICONICS License Service) to Automatic (Delayed). The ICONICS License Service should be left as Automatic. The ICONICS services will still be slow to become responsive, but users will be able to remote into the system in the meantime.</p>
80636	<p>On IoTWorX edge devices running Linux, if there is more than one NIC present the operating system determines which adapter is used to communicate with a given SNMP device. This means the Network Adapter setting for a network in the SNMP Workbench provider is ignored. If users are having problems exploring the network or communicating with an SNMP device on a system with more than one NIC, check the operating system's network settings.</p>
81921	<p>If the Takebishi DeviceXPlorer OPC Server (64-bit) version 6.x is installed after ICONICS Suite is installed, ICONICS Suite will be unable to browse for OPC UA servers. See ICONICS Knowledgebase article KB-3771 for information on how to restore this functionality. Note, the DeviceXPlorer (32-bit) does not cause this issue, and the issue does not appear if the Takebishi DeviceXPlorer OPC Server is installed before ICONICS Suite.</p>
84200	<p><b>This version does not contain a resolution for ICS Advisory ICSA-21-133-03 against the OPC UA SDK. (See <a href="https://us-cert.cisa.gov/ics/advisories/icsa-21-133-03">https://us-cert.cisa.gov/ics/advisories/icsa-21-133-03</a>.) Successful exploitation of this vulnerability could crash FrameWorX Server. ICONICS recommends users utilize OPC UA security and certificates to ensure that only trusted OPC UA servers and clients can connect to FrameWorX Server to mitigate this vulnerability. ICONICS plans to address this vulnerability in future rollups and versions of the product. If your version does not have a rollup or patch that addresses this vulnerability and you would like one made, contact your support department.</b></p>
47824	<p>Installing BizViz after AlarmWorX64 MMX will cause the call-out agent to be unable to play voice when it calls out. This does not happen if BizViz is installed first.</p>

## Known Issues & Limitations

Ref ID	Description
52673	The AlarmWorX64 Multimedia Configurator (Workbench Classic) does not support upgrading AlarmWorX64 Multimedia configurations contained in databases along with other ICONICS configurations (such as unified configuration databases). Please use the standard Workbench to upgrade these configurations.
83619	<p>Importing a CSV or XML file created in version 10.97 without any rollups applied may cause a warning if the export file included AssetWorX equipment classes that utilize the Alarms tab of an equipment property. The warning is:</p> <p>"Cannot generate the entity at location X at line Y. Unknown entity 'AlmsAcEquipmentClassPropertySourceInput' in the import file. If the file was manually edited it may have been edited incorrectly. If it was not edited, then the entity may have been renamed in the software. Search the ICONICS Knowledgebase for 'AlmsAcEquipmentClassPropertySourceInput' or contact technical support for assistance correcting the file with the new entity name."</p> <p>The settings on the Alarms tab of these equipment classes will not be imported.</p> <p>To solve this issue, edit the CSV or XML file with a text editor and replace all instances of "AlmsAcEquipmentClassPropertySourceInput" with "AlmsAcEquipmentClassPropertySIInput". Once edited, such files should be able to be imported into 10.97 systems with Critical Fixes Rollup 1 or later. Make sure to run the import again after the file has been repaired to import the alarm settings.</p>
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.
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.
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).
68302	Loading a KPIWorX dashboard with the "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.
55389	There is a known Workbench issue where the user may not be able to replace a tag when a form is maximized. To work around this, the user can drag and drop the tag, manually enter it, or copy and paste it.
81025	When using PowerShell cmdlets to add energy calculations to meter tags, the related AssetWorX equipment properties (including their connection to Hyper Historian) are not automatically created. The user will have to create these properties manually or with additional PowerShell cmdlets.



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