

# ICONICS 10.96.1

Critical Fixes Rollup 4

Release Notes | **ICONICS Suite™**  
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## Introduction to Release Notes for 10.96.1 Rollup 4

This edition of Release Notes documents the changes that were made for 10.96.1 Critical Fixes Rollup 4. It includes both fixes and enhancements.

Note that 10.96.1 Critical Fixes Rollups are not compatible with other 10.96.x products, such as 10.96 or 10.96.2.

### "First Available In" Column

Rollups are cumulative. Each rollup contains the fixes and enhancements of the previous rollup, so only the latest rollup is required to bring a system up to date. Rollups can be installed on top of a prior rollup or onto a system with no rollups.

The "First Available In" column notes which rollup a fix or enhancement first appeared in so that users who already have a rollup can determine what items are new for them.

### Security Vulnerabilities

Information about security vulnerabilities may not be found in this document. For this information, refer to [iconics.com/cert](https://iconics.com/cert).

## Common & Platform Services

Ref ID	Description	First Available In
83474	Resolved errors or warnings about an expired certificate that might have been seen by users of WPF/XBAP WebHMI clients with restricted internet access (such as on secure, air-gapped systems). Clients that could contact the certificate issuer validated the certificates with no errors.	New for Critical Fixes Rollup 4
88237	Resolved a rare deadlock on the WebSocket communication layer. This deadlock caused services (such as FrameWorX, GridWorX Server, or AnalytiX-BI) to stop communicating or leak memory.	New for Critical Fixes Rollup 4
81300	ICONICS Suite applications and services are now more tolerant of problems in the IcoSetup64.ini file. If duplicate sections are found they are merged, and if duplicate values are found only the first found value is loaded and the additional values are discarded. Messages are logged to TraceWorX when these duplicates are processed.	Critical Fixes Rollup 3

## Data Browser

Ref ID	Description	First Available In
85877	Resolved an issue with the sorting order in the data browser when there were more than 5,000 items.	New for Critical Fixes Rollup 4

## Expressions

Ref ID	Description	First Available In
79751	The tonumberbase function can now convert hexadecimal numbers that are not prefaced with "0x" (example, "0B" instead of "0x0B"). Previously, attempting to convert a hexadecimal number without the "0x" prefix returned bad quality.	Critical Fixes Rollup 2
78330	Resolved an issue where the expression engine no longer recognized nested dollar-quotes ("\$\$") as valid syntax. This behavior unintentionally changed when moving from 10.95.x to 10.96 and has now been restored to the 10.95.x syntax.	Critical Fixes Rollup 1

## FrameWorX

Ref ID	Description	First Available In
76926 72918	Enhanced the FwxGenClientService to avoid a possible issue where the service consumed excessive CPU.	New for Critical Fixes Rollup 4
89798	Resolved a rare crash (System.InvalidOperationException) of ICONICS FrameWorX and ICONICS Simulator Point Manager services on startup.	New for Critical Fixes Rollup 4
82888	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.	Critical Fixes Rollup 3
79370	When acknowledging alarms on third-party OPC UA servers, if the third-party server did not return the ConditionName then the ICONICS security check would fail when determining if the user is allowed to acknowledge the alarm, preventing the acknowledgement from functioning. (This check happens even if security is not enabled, so acknowledgements would always fail for these third-party servers.) The security check has been enhanced so it no longer fails, however the lack of a ConditionName may still prevent a user from acknowledging an alarm when security is being enforced for alarm acknowledgments.	Critical Fixes Rollup 2
	Note, OPC UA specifications state that the ConditionName should be returned, so this situation should not happen with fully compliant OPC UA servers.	
78462	Resolved an issue preventing communication when the FrameWorX communication was configured to use WS HTTP and a client certificate was used. This could prevent remote applications from receiving a license, preventing them from working altogether.	Critical Fixes Rollup 1

## Global Search

Ref ID	Description	First Available In
81295	Improved the search service to reduce cases where it would become unresponsive or report that it was disabled.	Critical Fixes Rollup 3

## Licensing

Ref ID	Description	First Available In
87550	Resolved an issue where AlarmWorX64 Server and AlarmWorX64 Logger couldn't use a reserved license when there was only one available reserved license.	New for Critical Fixes Rollup 4
83183	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.	Critical Fixes Rollup 3

## OPC UA

Ref ID	Description	First Available In
83754	Resolved an issue where OPC UA historical data couldn't render when using tag names generated when the OPC UA server's browsing mode was configured as something other than "Always Browse Path."  <b>Note:</b> You can check or modify the browsing mode by going to Platform Services > FrameWorX > Network Settings > OPC UA Network, selecting the tools icon for the desired OPC UA server, and then going to Other Settings.	New for Critical Fixes Rollup 4
80089	In the unlikely event that an OPC UA server alias used in a point was not created until the point was already in runtime, the point would not receive an update until FrameWorX was restarted. This has been resolved – now as soon as the alias is created in the OPC UA Network configuration, preexisting point using that alias will begin working.	Critical Fixes Rollup 2

## Project Reporting

Ref ID	Description	First Available In
79923	Reporting and Recipes databases that were upgraded from a version prior to 10.96.0 may be unable to delete items. This issue has been resolved. The Reporting or Recipe database will need to be upgraded again to benefit from this fix (Workbench should prompt the user to perform this update).  When this issue occurred, the Workbench would throw an error that says:  Cannot delete the items Cannot insert the value NULL into column ' <i>columnName</i> ', table ' <i>tableName</i> '; column does not allow nulls. INSERT fails. The statement has been terminated.	Critical Fixes Rollup 2

## Redundancy

Ref ID	Description	First Available In
84581	MonitorWorX now correctly reports the online/offline status of the secondary server in a FrameWorX node pair. Previously, the secondary server in a FrameWorX node pair always showed as offline when the primary server was active because no connection to the secondary server could be made until the primary server went offline.	New for Critical Fixes Rollup 4

## Security

Ref ID	Description	First Available In
91680	Users or groups with "Create" file permission can now save new configuration files for TrendWorX64, AlarmWorX64, and GridWorX Viewers. Previously, "Modify" permission was erroneously required to create new viewer configuration files.	New for Critical Fixes Rollup 4

## Common & Platform Services - Unified Data Manager

Ref ID	Description	First Available In
	Note: "Create" permission does not allow you to save over existing files. This still requires "Modify" permission.	

### Unified Data Manager

Ref ID	Description	First Available In
79565	Resolved an issue preventing Unified Data Manager expressions from resolving tags coming from the SNMP point manager.	Critical Fixes Rollup 2

### Web Platform Services (WebAPI)

Ref ID	Description	First Available In
79832	Voice Machine Interface "custom skills" would reply with an error message if the configured reply message contained a dynamic tag value. This problem was introduced in version 10.96.1 and has been resolved.	Critical Fixes Rollup 2

# AnalytiX

## AnalytiX-BI

Ref ID	Description	First Available In
79737	Resolved a crash of the AnalytiX-BI Server that could occur when renaming a data table in Workbench if that table was used in a view.	Critical Fixes Rollup 2
80737	When data is being loaded in a table, if the data type of the incoming data does not correspond to the data type of the column(s) where it is being inserted, one or more trace messages will be logged in TraceWorX. Previously, a warning-level message was traced for each row that had an issue. Now, only one message for the first invalid value will be logged at warning level. The other invalid values will also be logged, but at debug level instead of warning.	Critical Fixes Rollup 2
78771	Resolved an issue introduced in 10.96.1 that could cause AnalytiX-BI to freeze or hang when retrieving records from data flows.	Critical Fixes Rollup 1

## AnalytiX-BI Workbench Provider

Ref ID	Description	First Available In
80158	Resolved an error that incorrectly considered column names with a dash to be invalid names. This affected Add Column, Rename Column, and Transpose Column steps in data flows. Data flows and data models now allow the colon as a valid character in column names.	Critical Fixes Rollup 2
80279	Columns in a data flow that do not explicitly provide a data type will have their data types inferred by the first value. If the first value returned is a null value, string type will be used.  These changes should make it easier to work with historical alarm data sources.	Critical Fixes Rollup 2

## BridgeWorX64 & Workflow

### BridgeWorX64 Server

Ref ID	Description	First Available In
86659	Resolved a rare crash (NullReferenceException) in the BridgeWorX64 or CFSWorX engine. The crash involved using a Bulk Tag Writer or Bulk Tag Reader activity with a tag list that came from a database query, and the result of that database query contained null or empty tag names.	New for Critical Fixes Rollup 4

### Workflows Workbench Provider

Ref ID	Description	First Available In
79991	Resolved an error causing the JSON Content Reader block's "Write to XML" function to always return an error state, even if the XML file was successfully created.	Critical Fixes Rollup 2

## CFSWorX

### General

Ref ID	Description	First Available In
86659	Resolved a rare crash (NullReferenceException) in the BridgeWorX64 or CFSWorX engine. The crash involved using a Bulk Tag Writer or Bulk Tag Reader activity with a tag list that came from a database query, and the result of that database query contained null or empty tag names.	New for Critical Fixes Rollup 4
82861	Resolved a crash (ArgumentOutOfRangeException) of the ICONICS Connected Field Worker Workflow Point Manager service that would occur on startup if the archiving condition was set to Minimum Time Extent and to check every 50 days or more. In these cases, the archiving check is now treated as if it was configured for 49 days.	Critical Fixes Rollup 3



Ref ID	Description	First Available In
79400	Resolved an issue causing the CFSWorX workflow to erroneously reject acknowledgments from Twilio SMS, Vonage SMS, or emails if acknowledgments happened from the same worker on two different devices.	Critical Fixes Rollup 2
80702	The association between a Dynamics user and a security user would get overwritten when resynchronizing with Dynamics. This has been resolved.	Critical Fixes Rollup 2
80857	The Worker Access Point Manager would become unresponsive if Dynamics schedule update rate was very fast. This has been resolved.	Critical Fixes Rollup 2

## Facility AnalytiX & FDDWorX

Ref ID	Description	First Available In
83402	Disabling an FDDWorX fault rule no longer requires a restart of the service for the change to take effect.	New for Critical Fixes Rollup 4
83757	Resolved the following 900-level message in the FDDWorX Service trace file: "InvalidOperationException - Collection was modified, enumeration operation may not execute". This message did not indicate an actual issue, and it will no longer be logged.	New for Critical Fixes Rollup 4
84216	Resolved an issue where the SourceFaultActiveTime (local time) was incorrectly calculated from the FaultActiveTime (UTC) when the source time offset was not a whole number (such as when the time offset was 5.5 hours).	New for Critical Fixes Rollup 4
89310	Previously, when a fault rule expression produced a null or empty value, it was evaluated as false. This could lead to faults being cleared and re-triggered if there was a network interruption or other brief situation that caused bad quality. Now, null or empty values are no longer evaluated as false, so the fault's previous state is maintained.  We recommend that you use the IFQ expression instead of IF in your fault rule expressions and enabled expressions.  Example: x= IFQ (_condition_) THEN 1 ELSE 0	New for Critical Fixes Rollup 4
79606	For faults with an "enabled" field set to a dynamic value, if the dynamic enabled value changed from enabled to disabled while the fault was active, the fault would be considered disabled but still active. This was incorrect and has been resolved – disabled faults are now always considered inactive.	Critical Fixes Rollup 2
80389	Resolved an issue preventing the FDDWorX service from starting when there are duplicate fault names for a single asset. When this issue occurred, TraceWorX would log these messages:  Module 'FDD' Failed to Start: An item with the same key has already been added. ArgumentException : An item with the same key has already been added.	Critical Fixes Rollup 2

## Fault Viewer

Ref ID	Description	First Available In
85100	When 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 a command sometimes did not contain a slash (example: ac:ParentChild instead of ac:Parent/Child). This has been resolved for both the WPF and HTML5 platforms.	New for Critical Fixes Rollup 4
85135	You can now use the FaultID field from the fault viewer and table controls.	New for Critical Fixes Rollup 4
86150	The Table and Fault Viewer controls now support the Min and Max aggregates for Boolean columns. Previously, Boolean columns only supported the Count aggregate.	New for Critical Fixes Rollup 4

## Quality AnalytiX

Ref ID	Description	First Available In
67706	Automatic scaling on an SPC chart would sometimes drop the lower bound to zero even when the value did not reach that range. This has been resolved.	Critical Fixes Rollup 2

## ReportWorX64 & ReportWorX64 Express

### Common

Ref ID	Description	First Available In
82571	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.	Critical Fixes Rollup 3
	Resolved various issues that could cause the add-in to be permanently disabled or not retrieve data. This includes an initialization error that says: "Cannot initialize the context menu, a resource is missing, and the application will not work as expected."	
83172	The changes also address an issue where the ReportWorX64 ribbon would always be grayed out in Excel 2019, even the quick enable button. This has been resolved.	Critical Fixes Rollup 3
	And data types that are not supported by Excel are now converted to string. Previously unsupported data types could cause unexpected behavior, possibly even a crash.	
79176 78747	Resolved a rare issue that can cause files being transferred via AlertWorX to become corrupted. The most noticeable result of this was that ReportWorX64 email redirector tasks would send an email with no attachment or not send an email at all.	Critical Fixes Rollup 1

### ReportWorX64 Express & Excel Add-In

Ref ID	Description	First Available In
83569	Resolved an issue that caused 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 are 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.	New for Critical Fixes Rollup 4
80013	The ReportWorX64 add-in does not start properly in Excel 2010. This has been resolved.	Critical Fixes Rollup 2
80117	Resolved an issue preventing Hyper Historian calculated tags from being downloaded more than once. Using the "Download Data" button once worked as expected, but then using the "Clear Data" button and doing a second "Download Data" would result in no data.	Critical Fixes Rollup 2
80979	Resolved an issue with dependencies between parameters. If one parameter was dependent on two or more other parameters, only changes to the first referenced parameter would update the dependent parameter.	Critical Fixes Rollup 2
81093	Resolved an issue preventing ReportWorX64 Express to download data from HDA data sources other than Hyper Historian (including AssetWorX). Note that certain columns such as DisplayName are unique to Hyper Historian data sources and will not be filled in when populating from a non-Hyper Historian source.	Critical Fixes Rollup 2

### ReportWorX64 Server

Ref ID	Description	First Available In
87587 87515	Resolved an issue that prevented Send Email redirector commands from sending.	New for Critical Fixes Rollup 4
91776	Reports containing manual parameters executed as expected, but always showed as "Queued" in the ReportWorX64 Viewer's executor mode. This meant that the finished report could not be downloaded from executor mode. This issue also affected the Generated Reports data set tag.	New for Critical Fixes Rollup 4
	<b>Note:</b> The ReportWorX64 Viewer's viewer mode showed the proper status and allowed the finished report to be downloaded.	

## ***ReportWorX64 Viewer***

<b>Ref ID</b>	<b>Description</b>	<b>First Available In</b>
80979	Resolved an issue with dependencies between parameters. If one parameter was dependent on two or more other parameters, only changes to the first referenced parameter would update the dependent parameter.	Critical Fixes Rollup 2

## Data Connectivity

### BACnet Connector

Ref ID	Description	First Available In
88199	Resolved an issue that prevented the BACnet point manager from resubscribing to tags at the configured <b>Re-Subscribe COV Period</b> . This issue occurred after the device went offline, and then came back online.	New for Critical Fixes Rollup 4
	Version 10.95.x systems required devices on the local network to have their Network Number set to 1. Starting in version 10.96.0, this was changed from 1 to 0, so devices on the local network needed a Network Number of 0. This means that systems being upgraded from 10.95.x may have their statically bound devices and network discovery stop working.	
81913	This has been resolved – devices configured with a Network Number of 1 are now treated as having a Network Number of 0 in runtime.  In the event that you want to disable this behavior (to not change the Network Number from 1 to 0), add or update this entry in the IcoSetup64.ini file:  [BACNET\Compatibility] ArrangeNetworkNumber=0	Critical Fixes Rollup 3
83233	Various small updates and improvements to the BACnet Runtime.	Critical Fixes Rollup 3
80214	Resolved an issue causing some BACnet devices to stay offline after BACnet Runtime had successfully started.	Critical Fixes Rollup 2
80713	Resolved an issue preventing the alarm subscription to more than one BACnet device at a time. Prior to this fix, subscribing to the alarms of more than one BACnet device would result in only the alarms of one device being displayed.	Critical Fixes Rollup 2
79172	Resolved an issue causing slow response from the BACnet point manager. This included displaying BACnet presentValue data in runtime, expanding items in the BACnet provider in Workbench, and browsing for BACnet data in the data browser.	Critical Fixes Rollup 1

### GridWorX (Databases)

#### GridWorX Server

Ref ID	Description	First Available In
81744	Resolved an inefficiency when writing to a db: process point that could cause excessive CPU usage, especially when writing to many db: points at once.	Critical Fixes Rollup 3
81901	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.	Critical Fixes Rollup 3
81193	Resolved a rare GridWorX Server crash that could occur if a command timed out under very specific circumstances.	Critical Fixes Rollup 2
79170	Resolved a rare issue that can cause the GridWorX server to stop responding (hang).	Critical Fixes Rollup 1

#### GridWorX Viewer

Ref ID	Description	First Available In
81613	Resolved an issue that could prevent the GridWorX Viewer from loading data from any series if a single series had no data or was not a valid tag.	Critical Fixes Rollup 3
67706	Automatic scaling on an SPC chart would sometimes drop the lower bound to zero even when the value did not reach that range. This has been resolved.	Critical Fixes Rollup 2
78756	Expressions for commands using dateparts of datetime fields in the GridWorX Viewer could return incorrect values when using non-US regional settings. This has been resolved.	Critical Fixes Rollup 1

## GridWorX Workbench Provider

Ref ID	Description	First Available In
86087	Resolved an issue where invalid Oracle connection strings were created, which caused the Oracle connection to fail. To correct Oracle connections that have this issue, do one of the following: <ul style="list-style-type: none"> <li>Click the <b>Configure Connection</b> button, and then click <b>OK</b>.</li> <li>Manually remove the erroneous extra set of quotation marks from the connection string in the text box.</li> </ul>	New for Critical Fixes Rollup 4
82400	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.	Critical Fixes Rollup 3
80420	When configuring a stored procedure using the "Configure command" wizard, selecting a procedure, then going back and selecting a different procedure would update the procedure name but not the parameters. The parameters from the first procedure would still be in use. This has been resolved.  Also resolved an issue where the length of varWChar parameters could not always be changed in the "Configure command" wizard.	Critical Fixes Rollup 2
80457	When using the configuration wizard to select a stored procedure for Oracle, incorrect syntax could be generated, resulting in GridWorX being unable to execute the stored procedure. This has been resolved.	Critical Fixes Rollup 2
80460	Resolved an issue preventing users from creating an Oracle data source using an output parameter.	Critical Fixes Rollup 2

## SNMP Connector

Ref ID	Description	First Available In
91419	Previously, you could configure traps to include trap variables. These variables appeared as alarm attributes named Attribute 1-10, which could be read in an alarm client. Now, in addition to Attributes 1-10, alarm clients can subscribe to additional fields named "Attribute N_OID" (where N is the attribute number, for example, "Attribute 3_OID"). These fields include the full OID of the trap variable.	New for Critical Fixes Rollup 4
91511	Data sets coming from the SNMP point manager can now be used in AnalytiX-BI, BridgeWorX64, ReportWorX64, and workflows.	New for Critical Fixes Rollup 4

## SNMP Workbench Provider

Ref ID	Description	First Available In
90837	Previously, importing MIB files with duplicate entries caused an error and the MIB import process failed, importing no entries. Now, the MIB import handles this error condition by ignoring the subsequent duplicated entries. This allows the MIB import to complete.	New for Critical Fixes Rollup 4
79857	Resolved a crash in Workbench that could occur when importing MIB files. This crash would occur when the imported MIB file contained multiple conceptual rows sharing the same type names.	Critical Fixes Rollup 2

## Web Services Connector

Ref ID	Description	First Available In
81353	Resolved a crash that could occur when a REST service returned a REST exception. The exception is now properly handled.	Critical Fixes Rollup 3
82187	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.	Critical Fixes Rollup 3
82239	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.	Critical Fixes Rollup 3
79805	Updates to common parameters in a REST service did not take effect until the Web Services Point Manager was restarted. This has been resolved.	Critical Fixes Rollup 2

## Data Connectivity - Web Services Connector

Ref ID	Description	First Available In
80685	If an exception occurred in a web manipulator's REST call the Web Services point manager would crash (Ico.Ws.Common.RestException). This has been resolved.	Critical Fixes Rollup 2
78669	If the user was adding a SOAP service in Workbench and the proxy assembly (WSDL) they were using defined more than one service, the error below would be shown when hitting "Apply". This has been resolved.  [System.InvalidOperationException] Cannot create a connection to the web service. Error Details: Object reference not set to an instance of an object.	Critical Fixes Rollup 1

### ***Web Services Workbench Provider***

Ref ID	Description	First Available In
82281	Refreshing the schema of a Web Service call in Workbench would fail when Workbench was running in Internet Explorer. This has been resolved.	Critical Fixes Rollup 3
79720	Previously, if the source of a web service API call is updated so that the schema changed, the return schema would have to be manually updated in the Web Services provider, otherwise values could appear in the wrong columns. Now, if the returned schema is different, the Web Services point manager will automatically attempt to match the new schema to the schema stored in the configuration so that, when possible, the client will receive the values in the correct columns. This allows the Web Services point manager to automatically react to small schema changes like a reordering of columns. For larger changes, it is still recommended to manually update the schema in the Web Services provider.	Critical Fixes Rollup 2

## GENESIS64

Ref ID	Description	First Available In
91222	Various enhancements to improve the security of the software.	New for Critical Fixes Rollup 4
91180		
91187		
91194		
91201		
91208		
91215		
91166		
91173		
91231		
90455		
90461		
91159		

## Alarms and Notifications

### AlarmWorX64 Logger

Ref ID	Description	First Available In
84174	Enhanced the AlarmWorX64 Logger redundancy performance, especially in cases where two redundant logging databases were used, and one database was offline.	New for Critical Fixes Rollup 4
84175	In a redundant scenario with a single AlarmWorX64 Logger and two logging databases, store and forward files were not loaded into the secondary logging database. This has been resolved.	New for Critical Fixes Rollup 4
84176	If the AlarmWorX64 Logger was configured to log to two redundant databases and archive using SQL Only mode, the archive didn't occur. This has been resolved.  <b>Note:</b> For archiving to occur, you must enable the Max Records, Max Archive Records, and Max Archive Tables options.	New for Critical Fixes Rollup 4
86955 84524	Made a code change to reduce the frequency of the AlarmWorX64 Logger crashing when SQL Server is restarted or experiences intermittent network issues. In addition to applying this update, users who are experiencing this issue and cannot find or resolve the cause of the repeated SQL Server connection losses are advised to modify their connection string using the steps described in the <a href="#">ICONICS Knowledgebase</a> .	New for Critical Fixes Rollup 4
82758	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.	Critical Fixes Rollup 3

### AlarmWorX64 Multimedia

Ref ID	Description	First Available In
91276	Resolved an issue that occurred when using multiple email agents for more than one SMTP service. AlarmWorX64 Multimedia's agent chose the wrong TLS level to establish a connection to the SMTP server, causing a connection failure due to a mismatch of this security protocol.	New for Critical Fixes Rollup 4
82688	Resolved an issue that could cause some agents in a non-looping action set to fail to receive return-to-normal or acknowledgment notices.	Critical Fixes Rollup 3
79389	Resolved an issue that could cause the mail agent to fail to send messages if the agent was launched with a different COM identity than normal (which could happen when logging onto the machine as a different user, or when sending a test message). When this issue would occur, TraceWorX for the mail agent would report "Password empty".	Critical Fixes Rollup 2
80513	When alarms were acknowledged via AlarmWorX64 Multimedia agents, the ActorID would show as "unknown". This has been resolved.	Critical Fixes Rollup 2

## AlarmWorX64 Server

Ref ID	Description	First Available In
87145	Resolved an issue where updates with some uncertain quality states were not properly ignored when the IgnoreQualityChange INI entry was set to 1.	New for Critical Fixes Rollup 4
87507	<p>When a redundant alarm server switches from active to standby, the alarm server now clears all of its cached alarms.</p> <p>This does not affect what a client sees. Clearing the cache in this way helps the alarm servers stay in sync. This way, the alarm server that is now on standby will not be working with a set of data that may have become inconsistent with the now-active alarm server.</p> <p>This change should help prevent situations where alarms are lost or duplicated after an incident where both alarm servers become active. This can occur if the network connection between the alarm servers is offline, and they receive live data that may not be consistent between the two servers, causing them to become out of sync.</p>	New for Critical Fixes Rollup 4
88035	Configuration changes that disable alarms often cause a notification update. When this update occurs, the default subcondition, Rate of Change, is used. Now, instead of Rate of Change, a subcondition associated with the alarm type is used instead. (For example, limit alarms will use "lolo.")	New for Critical Fixes Rollup 4
82941	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.	Critical Fixes Rollup 3
80513	When alarms were acknowledged via AlarmWorX64 Multimedia agents, the ActorID would show as "unknown". This has been resolved.	Critical Fixes Rollup 2

## AlarmWorX64 Viewer

Ref ID	Description	First Available In
82877	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.	Critical Fixes Rollup 3
79662	Previously, setting a time zone on one event point in an AlarmWorX64 Viewer subscription would apply the same time zone to all event points. Now each event point may have a unique time zone. Note that applying multiple different time zones to the same alarm (such as if two event points with different time zones return the same alarm) is not supported and will have unpredictable results.	Critical Fixes Rollup 2
79779	<p>Resolved a rare crash in the AlarmWorX64 Viewer that could happen when the viewer's alarm subscription changed (such as when an alias in then tag name was updated). The problem was more likely to occur when there were many active alarms loaded before the change.</p> <p>This issue was only observed in the desktop (WPF) AlarmWorX64 Viewer but could have happened in other platforms. The fix was applied across all platforms including HTML5 and Universal Windows Platform (UWP).</p>	Critical Fixes Rollup 2
79780	Resolved an issue where the AlarmWorX64 Viewer could display duplicate rows if language aliases were used and the default translation value for an alias used in a displayed alarm was changed.	Critical Fixes Rollup 2
79811	Alarms with a custom beep file specified as a web URL (example: <a href="http://servername/GENESIS64/WebSites/PubDisplay/Sound.wav">http://servername/GENESIS64/WebSites/PubDisplay/Sound.wav</a> ) instead of a file URI (example: C:\Program Files\ICONICS\GENESIS64\WebSites\PubDisplay\Sound.wav) would not play the sound file in HTML5 displays. This has been resolved - custom beep files with a web URL should now properly play.	Critical Fixes Rollup 2
80056	Resolved an issue that could leave instances of GraphWorX64 hanging in Task Manager when working with displays that contained AlarmWorX64 Viewers with List or Flip Views.	Critical Fixes Rollup 2
80231	Resolved an issue that could cause the Flip or List Views in an AlarmWorX64 Viewer to fail to load alarms on some page loads.	Critical Fixes Rollup 2
78922	When a filter is used for both historical and realtime alarms, the "area" field is ignored for historical alarms. "Area" is not supported for historical alarms, so this allows the filter to be used by both realtime and historical at the same time. Filters configured this way should use the "Field" property and the appropriate attribute (Attribute 4 in the default logger configuration) to filter by area.	Critical Fixes Rollup 1



Ref ID	Description	First Available In
78938	Resolved an issue in the AlarmWorX64 Viewer that could cause language aliases to fail to resolve once a user has logged into security with a user that has that default language.	Critical Fixes Rollup 1

## AlertWorX

Ref ID	Description	First Available In
78887	Resolved an issue with Twilio voice calls that could occur when the WebAPI service was bound to a nonstandard port. The issue would cause Twilio to read an error message to the listener instead of the desired message.	Critical Fixes Rollup 1
79176	Resolved a rare issue that can cause files being transferred via AlertWorX to become corrupted. The most noticeable result of this was that ReportWorX64 email redirector tasks would send an email with no attachment or not send an email at all.	Critical Fixes Rollup 1

## AssetWorX

Ref ID	Description	First Available In
86522	If an AssetWorX equipment property is subscribed to a second equipment property that is a static property, disabling and then enabling the static property can cause inconsistent behavior. Writes to the first property may fail entirely, or they will succeed, but the new value will not appear in all clients. This has been resolved.	New for Critical Fixes Rollup 4
87857	Resolved an issue where writing a value into an AssetWorX equipment property tag whose Real-Time Data tag is configured with "None" as the Source Type would cause a crash in AssetWorX.	New for Critical Fixes Rollup 4
79276	Resolved an issue preventing acknowledging alarms coming through AssetWorX if the subscription was configured with both the ConditionName (under BaseConditionType) field and the OPC UA [ <a href="http://opcfoundation.org/UA/">http://opcfoundation.org/UA/</a> ]ConditionType fields.	Critical Fixes Rollup 2
79966	Resolved a crash of the AssetWorX Point Manager that would occur if a client was subscribed to a parameterized equipment property using a non-default parameter value and a parent of that subscribed property was disabled or deleted or the point manager was stopped.	Critical Fixes Rollup 2
79080	Resolved an issue causing the AssetWorX cache to stop working after upgrading a system from a 10.95.3 or earlier version to 10.96.1. When this problem would occur, the asset properties would return "Bad - Resource Unavailable", and TraceWorX would log this 800-level error: "Database cache: error opening or initializing cache table".	Critical Fixes Rollup 1

## Asset Navigator

Ref ID	Description	First Available In
80586	When an Asset Navigator was configured with style rules for columns, the asset icons would be replaced by a default icon if the assets were expanded, closed, and expanded again. This has been resolved.	Critical Fixes Rollup 2

## Controls

### Camera Control

Ref ID	Description	First Available In
80667	Resolved an issue that could cause a black screen in the camera control when using RTSP streams if the camera sent an invalid origin.	Critical Fixes Rollup 2
80743	Resolved an issue where playback would stop (the streaming service would stop providing video) if there were a large number of clients (around 100 or more).	Critical Fixes Rollup 2

### EarthWorX Viewer

Ref ID	Description	First Available In
82016	Resolved an issue that could cause Esri maps to not appear when running the EarthWorX Viewer in Internet Explorer (WPF). This may also boost performance of EarthWorX Viewers running in Internet Explorer (regardless of whether they are using Esri maps).	Critical Fixes Rollup 3

Ref ID	Description	First Available In
79989	When more than one OGC/WMS connection is available, under Map Type the collections from all OGC/WMS connections would be shown, not just the active connection. This has been resolved.	Critical Fixes Rollup 2
80977	Resolved an issue where OGC/WMS layers did not appear in WPF EarthWorX Viewers running in Internet Explorer (XBAP) when the OGC/WMS server was using certain TLS protocols. The XBAP EarthWorX Viewer now supports OGC/WMS servers running TLS 1, 1.1, 1.2, or SSL 3.0.	Critical Fixes Rollup 2
78304	Resolved a crash when opening GraphWorX64 displays containing EarthWorX Viewers with OGC/WMS map layers that were configured in version 10.95.	Critical Fixes Rollup 1

## Table Control

Ref ID	Description	First Available In
85135	You can now use the FaultID field from the fault viewer and table controls.	New for Critical Fixes Rollup 4
86150	The Table and Fault Viewer controls now support the Min and Max aggregates for Boolean columns. Previously, Boolean columns only supported the Count aggregate.	New for Critical Fixes Rollup 4
78709	<p>Added new properties for columns: Text Wrapping, Header Text Wrapping, Text Trimming, Header Text Trimming. "Wrapping" defines when text that does not fit into a cell will continue on the next line. "Trimming" defines how text overflowing a cell would be truncated or finished with an ellipsis (...). They apply to text in the cells or the header.</p> <p>These properties can have these values:</p> <p>Wrapping</p> <ul style="list-style-type: none"> <li>* None - No wrapping.</li> <li>* Wrap - Text will wrap to the next line.</li> <li>* Wrap with Overflow - Text will wrap to the next line at a natural breakpoint in the text. If a natural breakpoint cannot be found, text will overflow.</li> </ul> <p>Trimming</p> <ul style="list-style-type: none"> <li>* None - Overflowing text is simply truncated.</li> <li>* Character Ellipsis - Overflowing text will end with an ellipsis, which is placed behind the last letter. This may result in incomplete words.</li> <li>* Word Ellipsis - Overflowing text will end with an ellipsis, which is placed behind whole words.</li> </ul>	Critical Fixes Rollup 1

## TrendWorX64 Viewer

Ref ID	Description	First Available In
83847	Resolved an issue where the AutoScaleMargin setting of the Create Pen command was not being applied.	New for Critical Fixes Rollup 4
81499	Resolved an issue where pen alarm limits without a configure value would show as "Empty Value" in the legend.	Critical Fixes Rollup 3
81819	Resolved an issue that could cause manual pen ranges configured to be 0 to show as +/- 10 in runtime.	Critical Fixes Rollup 3
82013 82014	When the chart object had Time Zone Alignment enabled and a pen had either Time shift or Time Zone specified, the Export Data command may not have exported the correct time range and the sample count displayed in the legend may be incorrect. These issues have been resolved.	Critical Fixes Rollup 3
80336	In HTML5 TrendWorX64 Viewers, if the server tag description should have been shown in the legend (i.e., there was no description set in the TrendWorX64 Viewer configuration), the tag path was shown instead. This has been resolved - the TrendWorX64 Viewer's legend will now display the server tag description, where appropriate.	Critical Fixes Rollup 2
80638	Sampling intervals of a day or greater are no longer available in the runtime "Edit Trend Periods and Rates" dialog. This resolves an issue where sampling intervals of that length would cause a crash. Also, the settings in this dialog are now validated before applying them.	Critical Fixes Rollup 2
78662	Resolved an issue introduced in 10.96.1 causing the Time Shift property to not take effect for negative numbers (such as "-1 Hour"). This issue affected the TrendWorX64 Viewer in all platforms.	Critical Fixes Rollup 1

## GraphWorX64

Ref ID	Description	First Available In
84834	When a parameter in a pick action was bound to a smart property using an expression in the Smart Binding Editor, the smart properties used in the expression were not being properly resolved at the time the pick action was executed. This has been fixed.	New for Critical Fixes Rollup 4
86613	Running <b>Update Shared Objects</b> on smart symbols that had local aliases would change the local alias values even if the <b>Preserve Local Aliases</b> option was selected. This has been resolved.	New for Critical Fixes Rollup 4
87548	When connecting a remote desktop to a session that already had GraphWorX64 running, there were issues with global aliasing and embedded viewers. Specifically, global aliases inside an embedded viewer that were already set would revert to their default values, and further <b>Set Global Aliases</b> commands were ignored. These issues have been resolved.	New for Critical Fixes Rollup 4
81767	Resolved a crash in desktop GraphWorX64 that could occur when attempting to play media files coming from an HTTPS source. The crash no longer occurs, but unfortunately media files still cannot be played from HTTPS sources in desktop GraphWorX64. When this situation occurs, an error is logged to TraceWorX, and the sound is not played.	Critical Fixes Rollup 3
79967	Note that displays running in browsers (including Internet Explorer using XBAP technology) were not affected by this issue and can still play media files from HTTPS sources. If an imported SVG file contained embedded images, the images would not show up after the display had been saved, closed, and reopened. This has been resolved.	Critical Fixes Rollup 2
80388	Resolved an issue causing GenEvent "value written to" events triggered in WPF WebHMI pages (which run in Internet Explorer) to show "GENESIS64" as the tag source. They now show "GraphWorX64", which is consistent with previous versions. Note that this will affect display and logging filters on the source of GenEvents.	Critical Fixes Rollup 2
81022	Restored the Functions button to the Smart Binding Editor window.	Critical Fixes Rollup 2
81189	Resolved a rare issue with "valueof:" expressions that could cause them to not resolve to a value in certain cases.	Critical Fixes Rollup 2
78670	Improved the SVG import when the imported SVG file contained gradient units of "userSpaceOnUse" (meaning the gradients were intended to be relative to the coordinate space of the parent viewport). This change can also improve other uses of "userSpaceOnUse" in SVGs beyond gradients.	Critical Fixes Rollup 1
79045	WPF GraphWorX64 running in Internet Explorer was not generating GenEvents when writing to process points. This has been resolved.	Critical Fixes Rollup 1

## 3D Viewport

Ref ID	Description	First Available In
82644	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.	Critical Fixes Rollup 3

## RecipeWorX

Ref ID	Description	First Available In
91255	Resolved a rare crash in FrameWorX that occurred if a client behaved unexpectedly when browsing points from the recipe point manager.	New for Critical Fixes Rollup 4

## Recipe Navigator

Ref ID	Description	First Available In
80379	Resolved an issue that would occur when a recipe navigator was configured with an initial selection and a custom root was in use that was deeper than one level (so in a structure of rcp:A.B.C, the problem would occur with a custom root at level B or deeper). The issue would cause recipe grids to fail to load data when attempting to load the initial selection given by the connected recipe navigator with this issue.	Critical Fixes Rollup 2

## Recipes Workbench Provider

Ref ID	Description	First Available In
	Reporting and Recipes databases that were upgraded from a version prior to 10.96.0 may be unable to delete items. This issue has been resolved. The Reporting or Recipe database will need to be upgraded again to benefit from this fix (Workbench should prompt the user to perform this update).	
79923	When this issue occurred, the Workbench would throw an error that says:  Cannot delete the items Cannot insert the value NULL into column ' <i>columnName</i> ', table ' <i>tableName</i> '; column does not allow nulls. INSERT fails. The statement has been terminated.	Critical Fixes Rollup 2
80001	Resolved an issue causing the "Import Recipe Tags" action to fail when importing certain CSV files. The error on import would be, "The selected file is not a valid file containing recipe tags".	Critical Fixes Rollup 2

## ScheduleWorX64

### Schedule Control

Ref ID	Description	First Available In
78770	BACnet Schedule Viewers contain a new property (set on the Advanced tab) called SupportsArrayModification. The default value is True. When set to False, exception schedules will be saved using ObjectModify rather than array modification. Setting SupportsArrayModification to False can resolve issues where adding an exception resets the existing exceptions for certain devices that do not support array modification.	Critical Fixes Rollup 2

# Hyper Historian

## Data Exporter

Ref ID	Description	First Available In
80270	Resolved an issue causing the data exporter to provide an invalid client secret, even when the correct client secret was supplied in the configuration. This affected Azure Data Lakes and Hadoop storage connections.	Critical Fixes Rollup 2

## Logger

Ref ID	Description	First Available In
81381	Resolved an issue causing values to not be logged when the status of the point is "Good - From Cache" (such as with an AssetWorX value reading from its cache). Note that even with this solution, it is necessary to enable "Collector overrides SourceTimestamp of data with its actual UTC time" in the Hyper Historian collector group for the tags that may show "Good - From Cache".	Critical Fixes Rollup 3
82259	Resolved an issue that could cause Hyper Historian to report bad quality data in aggregates for samples that coincide with the start of a new HHD file. This was an issue in replay only. No data loss occurred.	Critical Fixes Rollup 3
79216	There was an issue in the process of recovering damaged data blocks. The data would be recovered; however, this problem would cause data reads that included a certain moment of time (the start of the original damaged block) to fail to read past that point. Reads that did not include this point would succeed.  This issue has been resolved. Damaged data blocks are now properly recovered. No additional steps are necessary to recover data blocks that may have been partially recovered before this fix - the damaged data incorrectly left behind by the previous recovery that caused the problem will be removed automatically.	Critical Fixes Rollup 2
79790	Boolean values can now work with the "Most Recent on Time" logging option.	Critical Fixes Rollup 2
80836	Hyper Historian TraceWorX messages no longer log the connection string.	Critical Fixes Rollup 2
80939	Resolved an issue that prevented the Hyper Historian calculation engine from reading changes to triggers made in runtime. Newly created triggers were read fine, but prior to this fix, modifications to existing triggers would be ignored.	Critical Fixes Rollup 2

## Performance Calculations

Ref ID	Description	First Available In
79037	Recalculation tasks reading from text files in the CalculationTasks folder no longer fail if there was an extra carriage return or line feed at the end of the file.	Critical Fixes Rollup 1

## SQL Query Engine

Ref ID	Description	First Available In
80655	Resolved an issue causing the GET_VALUES stored procedure to fail to run, always returning an error.	Critical Fixes Rollup 2

## IoTWorX & Internet of Things

Ref ID	Description	First Available In
80855	If a dynamic subscription was unsubscribed and the point also existed in a publish list, the publish list point would mistakenly be removed as well, causing it to go bad quality. This has been resolved.	Critical Fixes Rollup 2
80978	Resolved a minor issue with the default settings that would be applied when changing to a different network mode.	Critical Fixes Rollup 2

## BACnet Connector

Ref ID	Description	First Available In
91272	Improved the default type conversion for some enumerated data types. Some types that were previously converted to a string are now converted to Int32 values by default.	New for Critical Fixes Rollup 4
79200 79202	Resolved issues that could cause a device to not return any objects on discovery if the device did not have segmentation support or had a large number of objects (thousands).	Critical Fixes Rollup 1
79295	Network Discovery now returns "Device: ID" as the device name if the device returns an empty string for the objectName property. Previously an empty string was used as the device name.	Critical Fixes Rollup 1

## IoT Collector

Ref ID	Description	First Available In
80682	Collecting a large number of samples per second with the IoTWorX Hyper Collector may have created a situation where samples were not properly logged, causing gaps in the logged data. This has been resolved. Prior to this fix, the behavior has been reproduced with 1000 samples per second, but it might have been reproducible with less.  The Hyper Collector has also been made more resilient against storage failure and other unexpected issues that may occur on the IoTWorX edge device.	Critical Fixes Rollup 3
81099	Resolved an issue preventing buffered points from publishing.	Critical Fixes Rollup 2

## Workbench IoT Project

### BACnet

Ref ID	Description	First Available In
78743	When creating a new network entity, the network number is now set to 0 by default.	Critical Fixes Rollup 1
78778	The object discovery dialog no longer launches automatically after defining the device. (This behavior was not useful in an IoT project because the device has to be deployed before object discovery can occur.)	Critical Fixes Rollup 1

## KPIWorX

Ref ID	Description	First Available In
79243	Categorical charts did not save the order of series mapped to a particular axis, meaning the order of the series could change after the dashboard was saved and reloaded. This has been resolved.	Critical Fixes Rollup 2
80619	When using stacked series in a categorical chart and sorting them into different stack groups, the StackGroupKey would not be saved with the dashboard. This resulted in all series being rendered in the same stack after reloading a saved display. This has been resolved. Dashboards suffering from this issue will need to be saved again after applying this fix to properly store the StackGroupKey into the dashboard save file.	Critical Fixes Rollup 2
78929	OGC/WMS map layers in EarthWorX Viewers or the KPIWorX Map component that were configured in version 10.95 would not render. This has been resolved.	Critical Fixes Rollup 1

## MobileHMI & HTML5 WebHMI

Ref ID	Description	First Available In
80874	When the MobileHMI server was configured with a single layout and a single tile, the page for that single tile should be loaded automatically when MobileHMI clients connected. Android or iOS clients had an issue where that page would continue to be loaded every few seconds. This has been resolved - the page now only loads once, as desired.	Critical Fixes Rollup 2

## HTML5, iOS, Android

Ref ID	Description	First Available In
84477	Resolved an issue where the color axis in the data diagram and heatmap controls did not properly show the color scale gradient if the color stops were not sorted by percentage.	New for Critical Fixes Rollup 4
85712	Resolved a rare error that would result in 505 Service Unavailable errors from the HTML5 server.	New for Critical Fixes Rollup 4
86131	Resolved an issue in HTML5 where commands were not able to handle parameters that were a collection (such as the "Parameters" parameter of CallMethod).	New for Critical Fixes Rollup 4
80735	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.	Critical Fixes Rollup 3
81679	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.	Critical Fixes Rollup 3
79460	On systems with 10.96 Critical Fix Rollup 3 or 10.96.1 Critical Fix Rollup 1 applied, in SVG objects using gradients and the "userSpaceOnUse" gradient units, the gradients were not rendered correctly in HTML5 displays. This has been resolved.	Critical Fixes Rollup 2
79847	Resolved an issue causing gradients to not display correctly.	Critical Fixes Rollup 2
79961	TrendWorX64 Viewers were not treated as valid drag-and-drop targets for process points. This has been resolved.  Also resolved an issue where process points with the ResolveAliasesInDragDropDataSource property were not properly resolving the tags before the drag-and-drop action. This issue was not visible in many situations because the target (such as a TrendWorX64 Viewer) would then resolve the tag, but it caused unexpected behavior in some situations.	Critical Fixes Rollup 2
78708	Resolved a rare memory leak (that could eventually lead to a crash) of the HTML5 engine. This problem was related to FrameWorX connections that were not being properly disposed when displays were closed.	Critical Fixes Rollup 1
78760	Resolved an HTML5 crash (System.NullReferenceException) that would cause displays to reload. This crash was related to the use of the GridWorX Viewer.	Critical Fixes Rollup 1

## AlarmWorX64 Viewer

Ref ID	Description	First Available In
83833	Reduced the size of the built-in top and bottom row margins in the HTML5 GridWorX and AlarmWorX64 Viewers.	New for Critical Fixes Rollup 4
85726	Previously if you sorted when multiple columns were selected, you sorted on all the selected columns.  Now, you can change the way sorting works so that sorting when multiple columns are selected only sorts on the last selected column. If you want your HTML5 AlarmWorX64 Viewer to consistently work the same way the desktop AlarmWorX64 Viewer does, which only sorts on the last selected column, then you might want to make this change.  To only sort on the last column, edit the \GENESIS64\WebSites\AnyGlass\Bin\ico.anyglass.parsing.config file and set <b>AwxForceSortBySingle</b> equal to "true."	New for Critical Fixes Rollup 4
87231	Resolved an issue where the AlarmWorX64 Viewer's local timestamps were displayed in the HTML5 server's time zone, not in the client's time zone.	New for Critical Fixes Rollup 4



Ref ID	Description	First Available In
87785	Resolved an issue where an AlarmWorX64 Viewer that was hidden by default, or had an ancestor that was hidden by default, did not display all the current alarms when the viewer was made visible.	New for Critical Fixes Rollup 4
81553	The HTML5 AlarmWorX64 Viewer now supports the Time Zone setting on event points.	Critical Fixes Rollup 3
82024	Formatting of rows could be inconsistent if the total number of rows is greater than the visible number of rows and the styling involved transparent colors. This has been resolved.	Critical Fixes Rollup 3
81224	The HTML5 AlarmWorX64 Viewer now supports the "Show Dialog" sub-command of the "Set Time Range" global command.	Critical Fixes Rollup 2
78655	Resolved two styling issues with borders in the HTML5 AlarmWorX64 Viewer. First, the control always had an additional black outer border. Second, when horizontal grid lines were shown, they were always black. The outer border and horizontal grid lines now obey the border color configured in the viewer.	Critical Fixes Rollup 1

## Asset Navigator

Ref ID	Description	First Available In
84408	Resolved an issue that could cause the Asset Navigator's search results to disappear when scrolling.	New for Critical Fixes Rollup 4
80422	Commands configured using the "Directly accessible" option in the AssetWorX Workbench provider were not being executed when the button was selected in an HTML5 AssetWorX Navigator. This has been resolved.	Critical Fixes Rollup 2

## Data Explorer

Ref ID	Description	First Available In
80661	The HTML5 Data Explorer control did not load custom grid styles if it was loaded inside of an embedded GraphWorX64 Viewer. This has been resolved.	Critical Fixes Rollup 2

## EarthWorX

Ref ID	Description	First Available In
81820	Resolved an issue where the box zoom feature would not work when the display was already at a very high zoom level. The box would be drawn, but the zoom would not occur. The zoom levels required to cause this issue were most likely to be reached when using an EarthWorX Viewer within an embedded GraphWorX64 Viewer, but it could happen in other cases as well.	Critical Fixes Rollup 3
80107	Resolved an issue where pins with the clone dynamic are not correctly positioned in HTML5 EarthWorX displays. This issue would only occur when the pin was inside a group, the clone dynamic was applied to the group, then the cloned group was inside another group.	Critical Fixes Rollup 2
80620	HTML5 EarthWorX displays would not show layers from an OGC/WMS service. This has been resolved.	Critical Fixes Rollup 2
81179	Resolved an issue that may cause the EarthWorX Viewer to not correctly fill the space with tiles when zooming inside an embedded viewer.	Critical Fixes Rollup 2
78929	OGC/WMS map layers in EarthWorX Viewers or the KPIWorX Map component that were configured in version 10.95 would not render. This has been resolved.	Critical Fixes Rollup 1

## Fault Viewer

Ref ID	Description	First Available In
85100	When 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 a command sometimes did not contain a slash (example: ac:ParentChild instead of ac:Parent/Child). This has been resolved for both the WPF and HTML5 platforms.	New for Critical Fixes Rollup 4

## GraphWorX64

Ref ID	Description	First Available In
84323	Resolved an issue where properties that were bound using an expression in the Smart Binding Editor did not work properly inside nested smart symbols.	New for Critical Fixes Rollup 4

## MobileHMI & HTML5 WebHMI - HTML5, iOS, Android

Ref ID	Description	First Available In
84587	After using a modifier key (such as Ctrl and Shift) to execute a command that opened a new browser tab (such as OpenURL and certain Load Display commands), when the user went back to the original tab it acted like the modifier key was still pressed until it was pressed a second time. This has been resolved.	New for Critical Fixes Rollup 4
84912	Resolved an issue where Load Display commands executed from inside an embedded display that have a target type of "Popup Window" and are configured with positioning window properties incorrectly replace the embedded display. This occurs in all browsers, even those that support window positioning. Now, these popup Load Display commands properly launch the popup in a new browser window.  In addition, Load Display commands that have a "New Instance" target type now launch as a popup window.  <b>Note:</b> The popups that this issue describes are supported only on clients that support window positioning (for example, desktop browsers). Clients that do not support window positioning, such as mobile phones, cannot launch popup windows this way and will still execute the Load Display command by replacing the embedded window.	New for Critical Fixes Rollup 4
85112	Resolved an issue where using a smart symbol to bind the MinWidth property of an object caused the HTML5 engine to crash.	New for Critical Fixes Rollup 4
87373	Resolved an issue where the TimeDate dynamic showed an incorrect local time if the client and server were in different time zones.	New for Critical Fixes Rollup 4
87542	Resolved an issue where localsim:property tags that included "GwxDynamicGroup.DynamicsList[x]" were not resolved in HTML5 displays. An example of this issue would be the data source of a process point, which would look something like this: "localsim:property:Label1.GwxDynamicGroup.DynamicsList[0].DataSource."	New for Critical Fixes Rollup 4
88238	When the <b>Set View</b> command is applied to an embedded GraphWorX64 display, focus is now set to that embedded display. Previously, focus remained outside, which prevented keyboard shortcuts defined inside the embedded display from working.	New for Critical Fixes Rollup 4
91664	Resolved an issue causing smart symbols to not work in runtime if there were multiple smart bindings on different fields of a pick action that was using a local command.	New for Critical Fixes Rollup 4
80440	Resolved a rare issue that could sometimes prevent values resolving in cloned objects that used "valueof" expressions.	Critical Fixes Rollup 3
80503	Resolved issues causing inconsistent behavior when panning, horizontal scrolling, and the zoom box inside of embedded GraphWorX64 Viewers.	Critical Fixes Rollup 3
81820	Resolved an issue where the box zoom feature would not work when the display was already at a very high zoom level. The box would be drawn, but the zoom would not occur. The zoom levels required to cause this issue were most likely to be reached when using an EarthWorX Viewer within an embedded GraphWorX64 Viewer, but it could happen in other cases as well.	Critical Fixes Rollup 3
82496	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.	Critical Fixes Rollup 3
82520	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.	Critical Fixes Rollup 3
79603	Path primitives in SVG objects were not rendered in HTML5 displays. (Path primitives are common elements in SVGs, so it is possible an entire SVG file would not have rendered due to this issue.) This issue only occurred on systems using 10.96 Critical Fix Rollup 3 or 10.96.1 Critical Fix Rollup 1 and has now been resolved.	Critical Fixes Rollup 2
80025	Resolved an issue that could prevent swiping between different pages of a pivot control if the pivot was in a scroll panel that didn't allow scrolling (such as if it was explicitly disabled or the content fit the available space and scrolling wasn't needed).	Critical Fixes Rollup 2
80153	Global alias values were not always being carried over to the next display when a Load Display action was performed. This has been resolved.	Critical Fixes Rollup 2
80306	If a statefield process point was configured with dynamic state text (such as language aliases or expressions), the initial state text would not display. After the first state change the text would display as expected. This issue has been resolved.	Critical Fixes Rollup 2

Ref ID	Description	First Available In
78638	Resolved an issue where a scrollable panels or control inside of a scroll panel could create an inconsistent scrolling experience, such as jumping back to the original spot when the scroll was released.	Critical Fixes Rollup 1
78639	Resolved an issue preventing scrolling in a scroll panel when the mouse or finger was at the top of a table. (Tables are used in controls such as the GridWorX Viewer, AlarmWorX64 Viewer, the TrendWorX64 Legend, and more.)	Critical Fixes Rollup 1
79033	Resolved an issue where the process point state selector ignored the order of state conditions. This resulted in behavior that was inconsistent with desktop (WPF) GraphWorX64. The state selector behavior is now consistent between the two formats.	Critical Fixes Rollup 1

## GridWorX Viewer

Ref ID	Description	First Available In
83833	Reduced the size of the built-in top and bottom row margins in the HTML5 GridWorX and AlarmWorX64 Viewers.	New for Critical Fixes Rollup 4
84495	Resolved an issue where GridWorX categorical charts were not formatting labels before grouping them into categories. This caused unexpected grouping behavior. The grouping should now be consistent with desktop (WPF) GridWorX charts.	New for Critical Fixes Rollup 4
82025	If the cursor format property was set with an expression the cursor tooltips would sometimes not be displayed. This has been resolved.	Critical Fixes Rollup 3
79346	GridWorX charts with very long legends placed below the chart now display the legend in a scrollable list instead of reducing the chart space. This was previously updated for legends displayed on the side of the chart, now it applies to legends below the chart.	Critical Fixes Rollup 2
79564	Autoscale is now correctly applied in HTML5 GridWorX Viewer charts if the data is a series of identical values. A buffer of 0.5 is added to the vertical axis above and below the value. This is now more consistent with desktop (WPF) GridWorX Viewer charts.	Critical Fixes Rollup 2
79725	Resolved an issue causing the HTML5 GridWorX Viewer's runtime filter to lose the first condition if the "and" or "or" condition was used.	Critical Fixes Rollup 2
79919	Resolved an issue causing the cursor tooltip to not always display properly when viewing graphs that contained both bar and line series.	Critical Fixes Rollup 2
80064	GridWorX Viewer pie and donut charts could be rendered in a distorted shape if there was too large of a range between the greatest and smallest value in the series. This has been resolved.	Critical Fixes Rollup 2
80967	Resolved an issue that could cause legend labels to not appear in HTML5 GridWorX charts.	Critical Fixes Rollup 2
78625	When exporting data from the HTML5 GridWorX Viewer, the results are no longer formatted. This is now consistent with the export in the desktop (WPF) GridWorX Viewer, and avoids issues where data is incorrectly formatted due to regional settings on the system.	Critical Fixes Rollup 1
78626	When exporting a CSV file from the HTML5 GridWorX Viewer, the semicolon (;) is now used as the delimiter instead of a comma (.). This is now consistent with the desktop (WPF) GridWorX Viewer and avoids problems with regional settings where the comma is used as the decimal separator.	Critical Fixes Rollup 1
78628	Previously, HTML5 GridWorX Viewer charts would only group visible series if they were connected to the same axis. Now, to be consistent with the desktop (WPF) GridWorX Viewer, series will be grouped if they are on different axes. Previous to this change, if bar plots were on different axes, they would appear overlapped or stacked. Now they appear clustered. (Only series of the same plot type can be grouped. This behavior hasn't changed.)	Critical Fixes Rollup 1
78629	HTML5 GridWorX Viewer charts now respect the "EnableSmartLabels" property.	Critical Fixes Rollup 1
78630	HTML5 GridWorX Viewer charts now respect the "VerticalGridInterval" property.	Critical Fixes Rollup 1
78785	Language aliases in GridWorX chart series titles are now properly translated when exporting data from the chart.	Critical Fixes Rollup 1

## ReportWorX64 Viewer

Ref ID	Description	First Available In
84297	In Executor mode, the drop-down list of parameters used the same foreground and background colors, making it impossible to read the text. This has been resolved.	New for Critical Fixes Rollup 4

## Schedule Control

Ref ID	Description	First Available In
82517	Addressed a layout issue in the Schedule Control that could cause it to not take up the appropriate amount of space if the weekly tab was configured as the starting tab.	Critical Fixes Rollup 3

## Table Control

Ref ID	Description	First Available In
86271	Resolved an issue that caused the last row in a table to be obscured by the horizontal scroll bar.	New for Critical Fixes Rollup 4

## TrendWorX64 Viewer

Ref ID	Description	First Available In
83382	Resolved an issue that caused the cursor to have an offset from where it was being dragged, or caused it to jump after leaving the chart area.	New for Critical Fixes Rollup 4
81711	The HTML5 TrendWorX64 Viewer now draws pens in the same z-order as the desktop (WPF) TrendWorX64 Viewer.	Critical Fixes Rollup 3
81873	The HTML5 TrendWorX64 Viewer can now correctly render historical data even if it is received as unordered samples. Previously it was only able to render historical data sorted by timestamp, and unordered samples could cause strange lines or incomplete rendering.	Critical Fixes Rollup 3
82011	Resolved a crash of the HTML5 engine that could occur when deleting a pen from a TrendWorX64 Viewer via a command. This crash only happened on systems with 10.96.1 Critical Fixes Rollup 2 installed.	Critical Fixes Rollup 3
82481	When receiving a Create Pen pick action, the HTML5 TrendWorX64 Viewer would ignore the y-axis foreground color if it was a global color.	Critical Fixes Rollup 3
82692	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.	Critical Fixes Rollup 3
79718	In the HTML5 TrendWorX64 Viewer, the pen description is now requested as a data tag. This is now consistent with the desktop (WPF) implementation.	Critical Fixes Rollup 2
79727	When using the Edit Pen command to change the Time Shift property in an HTML5 TrendWorX64 Viewer, the historical data was not reloaded. This has been resolved.	Critical Fixes Rollup 2
80441	Resolved an issue causing the cursor to jump around randomly, especially when drilling into a chart.	Critical Fixes Rollup 2
80642	The HTML5 TrendWorX64 Viewer would display invalid pens in the tooltip, even if "Show invalid pens" was disabled in the TrendWorX64 Viewer configuration. This has been resolved.	Critical Fixes Rollup 2
81225	X-axis tick mark labels now wrap rather than overlap each other.	Critical Fixes Rollup 2
78627	The HTML5 TrendWorX64 Viewer now auto-scales properly even when there is only one sample present.	Critical Fixes Rollup 1
78662	Resolved an issue introduced in 10.96.1 causing the Time Shift property to not take effect for negative numbers (such as "-1 Hour"). This issue affected the TrendWorX64 Viewer in all platforms.	Critical Fixes Rollup 1
79097	Resolved an issue where selecting a day in the Time Navigation dialog's calendar would not always correctly choose 12 AM as the start of that day.	Critical Fixes Rollup 1

## MobileHMI Server

Ref ID	Description	First Available In
79209	Resolved a crash in the MobileHMI Point Manager that would happen if there were images configured with null or duplicate names under MobileHMI > Configuration > Images. (Since the MobileHMI Point Manager usually runs in-process, this would usually present as a crash FrameWorX.)	Critical Fixes Rollup 2

## Workbench

Ref ID	Description	First Available In
80024	On systems with 10.96.1 Critical Fix Rollup 1, creating a new database in Workbench with all providers would result in an error that said, "[System.InvalidOperationException] The provider EA does not support the possibility to create a database configuration. Its repository doesn't implement the DbConfigurationLogic required for this operation". This error has been resolved in this rollup.	Critical Fixes Rollup 2
78552 78553	When using the "Enable and run only the services for the applications that are in the project" option under Configure Application(s) Settings > General Settings tab, some services were properly disabled. This has been resolved.	Critical Fixes Rollup 1
78619	Previously, when creating a new active project, all ICONICS services would get set to Automatic startup type, not just the ones used in the project. Now only the services used in the project that were previously not in use are activated (startup type set to Manual or Automatic, depending on the service), and services not used by the project that were previously in use are set to Disabled.	Critical Fixes Rollup 1

## 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 instead 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> <p>In the case that both the ICONICS Suite and CFSWorX standalone are installed on the same system, uninstalling one of them could damage the other installation. Either both products must be uninstalled, or the remaining product must be repaired.</p>
77725	<p>Note that CFSWorX features can be installed as part of the ICONICS Suite installation. This is the recommended configuration, rather than installing CFSWorX standalone.</p> <p>(GENESIS64 and Hyper Historian installations are ICONICS Suite installations with certain options preconfigured, so this issue and recommendation apply to those installations as well.)</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. This includes activating the trial license. Alternatively, the end user can reboot the PC.</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>
79998	<p>The format of AnalytiX-BI export files changed slightly at one point, making the export files before and after the update incompatible. This unfortunate change was required to resolve an issue. Attempting to import files using the old format will result in a "Cannot import item{}. Error: Parent key not set correctly" error.</p> <p>As a workaround, the export files can be manually changed to be compatible with the new format. Follow these steps to update them:</p> <ol style="list-style-type: none"> <li>1. Edit your export file in Excel or a text editor like Notepad.</li> <li>2. Rename all "Data Flows" in entity paths to "DataFlows".</li> <li>3. Rename all "Data Models" in entity paths to "DataModels".</li> <li>4. Save the file.</li> <li>5. Repeat the import. It should correctly import.</li> </ol> <p>These steps are required when exporting an AnalytiX-BI configuration from one of these versions:</p> <ul style="list-style-type: none"> <li>• 10.90 and any of its update packs</li> <li>• 10.95.x systems before 10.95.6.1</li> <li>• 10.96.0 and its rollups</li> </ul> <p>And importing it into one of these versions:</p> <ul style="list-style-type: none"> <li>• 10.95.6.1 or later 10.95.x version</li> <li>• 10.96.1 or later</li> </ul> <p>(This information is also documented in the <a href="#">ICONICS Knowledgebase</a>.)</p>
67774	<p>Energy AnalytiX was not included in version 10.96 or 10.96.1 while we made some significant updates. Look for the new and improved Energy AnalytiX in version 10.96.2 or later.</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 when they are contained in databases with other ICONICS configurations (such as unified configuration databases). You can only update these configurations by using the installation or the Configure System utility.
79321	The AlarmWorX64 Multimedia task tray agent is no longer supported.
80808	GenEvent "value written to" events triggered from WPF applications running in Internet Explorer (such as Workbench running in Internet Explorer) will incorrectly show "GraphWorX64" as the client originating the event. Note that this will affect display and logging filters on the source of GenEvents. For example, events filtered to only show GraphWorX64 events will also show "value written to" events from Workbench running in Internet Explorer, and events filtered to only show Workbench events will not show these "value written to" events from Workbench in Internet Explorer. This is resolved in version 10.97 or later.
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.
72771	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.
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 it's more likely to happen the longer the logger has been stopped).
69596	Users upgrading an IoT Collector configuration from 10.95.x to this version 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 "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.



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