

ICONICS v10.95

Resolved Issues – ICONICS Suite

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Platform Services

Azure Cloud Connector

51035	Numerous enhancements and bug fixes have improved Platform Cloud Service reliability.
51040	Fixed a communications error where connections via the Cloud Connector could drop out under extreme loading.

BACnet

52153	Updated the BACnet point manager to mitigate a number of performance issues such as: Unresponsiveness, inability to connect, and BACnet points going offline.
55032	The BACnet alarm state of "To Normal" used to be translated into the OPC alarm state of Unacked, even though "To Normal" did not require acknowledgement. This has been resolved – "To Normal" alarms no longer require acknowledgement.
53072	Removing and adding back devices in BACnet communications caused devices to read "Bad - Server Failed" quality for data in previous releases. This issue has been resolved.
51283	Resolved an issue on systems that used a comma as the decimal separator. Previously digits after the decimal separator being lost (writing 10,7 would result in a value of 10,0).
51260	Fixed a SerializationException error by adding support for proprietary object types. The error would appear when browsing certain BACnet devices in Workbench.
52842	Resolved a crash of the BACnet Point Manager that would occur when expanding certain devices while in the Data Browser.
50755	Resolved an issue that would cause sporadic communication loss to devices that were working fine.
54990	In previous releases, when using the Enum() or Format() functions for any property, the PresentValue property would always be used instead of the desired property. This has been resolved.
33973	In previous releases, BACnet devices could not be reached once their network numbers were changed. This issue has been resolved.
54386	In previous releases, after running BACnet runtime for several days with devices that had been added to the alarm cache, the frequency of sent messages would increase. This issue has been resolved.

49845	In previous releases, if a BACnet device provided a 'timeSynchronization' message to the ICONICS BACnet server, the ICONICS BACnet server would always update the system clock. This behavior has now been made optional, and is disabled by default. It can be enabled from Workbench. Select "Devices" and go to the "Time Synchronization" tab.
55664	Fixed an error where BACnet alarms would return IDs rather than object names in the AlarmWorX64 Viewer.
54360	Fixed an error where a BACnet device could incorrectly report that it was offline while still collecting data.
52309	Fixed a rare crash in the BACnet Point Manager.
53073	BACnet connectivity upgrades have stabilized BACnet communications for runtime.
52220	When all devices were stored in the database they would not be scanned on startup, resulting in some or all devices showing as offline after BACnet was restarted.

Bulk Asset Configurator

47093	When running large imports using the Bulk Asset Configurator, some users experienced long delays whenever the tool was run with the "Generate historical data" field checked. This issue has been fixed.
53263	Improved the error messages that occurs in the Bulk Asset Configurator when equipment properties would be created with conflicting names.
52810	Resolved an issue in the Bulk Asset Configurator configuration where the options for "Data Input" were switched – the Hyper Historian option controlled input to AlarmWorX64 Server and vice versa.
51222	In version 10.85, when a parameter was left blank it would use an empty string when instantiating the asset. In version 10.9, the default value would be used instead. The behavior has been set back to the 10.85 behavior – now blank parameters will instantiate as an empty string.
49226	In previous releases, if a user changed the trigger of a calculated tag in the Bulk Asset Configurator and then reinstated it, the changes may not get properly applied. This issue has been resolved by changing the way that nested settings are instantiated. To go back to the old behavior, enable the option called, "Apply the Create/Update/Delete options to nested settings".
51227	Resolved a NullReferenceException when trying to instantiate an asset that includes alarms, and is nested under a parent asset that was instantiated from a class.
45995	Resolved an issue where the "Details" hyperlink for an error in the Bulk Asset Configurator's "Bulk Configuration Process" dialog was not clickable.

Communication

51061	Resolved an unhandled exception in FrameWorX relating to non-zero-based arrays. This exception could cause apparently random communication loss to Classic OPC servers that would result in a number of issues, such as tags that should be working would show statuses of "Bad – Server Failed" or "Bad – Not Readable/Not Writable".
51215	Resolved an issue in the OData Connector where sometimes the data returned would be from the previous call instead of the current call.
51042	Previously, the AlarmWorX64 Viewer would not show the current state of alarms when initially subscribed to an OPC UA server. This issue has been resolved.

ConverterWorX

52422	Resolved an issue that would cause ConverterWorX to only import the some of the historical data entries from an AlarmWorX32 Logger database.
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FrameWorX

46562	When a configured controlled redundancy point had a string value, FrameWorX would not start. This issue has been fixed.
51023	Viewing and logging alarms from certain OPC UA Servers via the FrameWorX Classic OPC Server (tags addressed as @\\Server\ICONICS.FwxServerOPC.1\ua:...) did not work in all cases. This seemed to be a problem with the Beckhoff Automation OPC UA server, but could have affected others as well. This issue has been resolved.
56171	The 'CacheTimeoutSeconds' option can now be set to '0', resulting in an immediate timeout.
55208	SQL Server driver in UDL files updated to be compatible with TLS 1.1 or 1.2.
53527	Resolved an issue with the Aggregator point manager that could cause FrameWorX Heartbeat timeouts, resulting in brief periods of seeing keys on clients that had the Heartbeat feature enabled.
51528	Resolved an issue that could cause the FrameWorX server to switch back to the primary server after a failure even when the "Auto Switch Back to Primary" option was not selected.
55057	In previous releases, users could encounter an error where they were unable to browse for alarm types or alarm categories. This issue has been resolved.
55139	In previous releases, the '#SecUserName' alias would not resolve when a display was opened in a browser. This issue has been resolved.
51380	Resolved a FrameWorX crash related to an unhandled System.InvalidOperationException.

55220	Fixed a FrameWorX crash rooted in 'FwxSearchService'.
49734	In previous versions, 'IcoDataClient' in FrameWorX would not always log the correct PREV_VALUE in GenEvent messages. This issue has been resolved.
52307	UDM expressions now consistently recover after a FrameWorX restart.
51036	In the FrameWorX GenClient, users were previously unable to specify a single node in the GenBroker alias resulting in inconsistent behavior with FrameWorX aliases.
55120	In previous versions, the Controlled Redundant Servers feature would not properly switch for certain configurations. This issue has been resolved.
55269	If the Global Aliasing configurations on two redundant servers have different default values and a failover occurs, aliases using that default value will be updated with the default from the new active server. Previously the alias values would not change.
51073	Resolved a crash in FrameWorX involving a qualified name that happened to be an empty string.
49079	Resolved issues with alarm logging that occurred when the alarm subscription contained an ampersand (&).
51068	A rare condition in the OPC UA layer could cause a crash in GraphWorX64 or other OPC UA clients. This issue has been resolved.
46272	Resolved an intermittent crash in IcoFwxServer.exe due to an unhandled System.NullReferenceException.
48545	Resolved a memory leak in FrameWorX Server relating to navigating displays with EarthWorX Viewers.
50091	Previously, attempting to add points directly under FrameWorX Diagnostic Counters to a process point in GraphWorX64 could lead to a connection loss to FrameWorX. These points should not be selectable as process points, as they are not DA tags. The exception is now properly handled by FrameWorX.

Installation

47684	MergeWorX is now included in the GENESIS64 installation by default.
51309	In past releases, a system could crash if a user tried to re-run Configure System on a machine that had changed its name. This issue has been resolved.
46188	Resolved a crash of IcoWorkbenchInstaller while installing Facility AnalytiX.

Reporting

52317	In previous versions, the BACnet configured tag report would fail for devices with proprietary objects. This issue has been resolved.
53063	In specific cases, AssetWorX Project Reporting would return "An item with the same key has already been added." error for all properties. This issue has been resolved.
52305	ICONICS security is now supported with Project Reporting.
54048	In previous versions, project reporting would inadvertently generate blank logs. This issue has been resolved.
54361	Fixed an error in Workbench reporting that would occasionally give runtime users an "Unable to cast object of type 'Ico.Fa.Definitions.v1.FaDeviceModelMatrixEx' to type 'Ico.Config.EntityBase'" error. Reports should now complete consistently without this error appearing.

Security

53494	Security auto log-out is now supported when GraphWorX64 has a set focus.
56038	Resolved a crash in FrameWorX that would occur when configuring security to integrate with a domain using User Principal Name mapping, along with automatic login.
51082	Performance improvements in security prevent FrameWorX slowdowns in HTML5 applications.
55862	Two new options were added to the "User authentication method" of Global Settings in security. These methods are recommended for use only when authentication via standard Active Directory methods fails.
51271	In previous versions, packaged security databases may not unpack correctly. This issue has been resolved.
51234	In previous versions, imports of the Active Directory groups to AssetWorX returned a "Parent Object Could not be Found" error. This issue has been resolved.

52424	Importing Active Directory files now consistently imports security settings for Active Directory group permissions.
52351	ICONICS Security now correctly respects the individual logins when utilizing remote desktop and Database security mode.
50833	In previous versions, security had to grant access to specific Methods in order to gain access to the Facility AnalytiX Viewer. This has been resolved – access to the Facility AnalytiX Viewer can now be restricted with Application Actions alone.
51239	An issue has been resolved with the 'Create a local copy of the configuration on the server' feature. Previously this feature may cause settings in the configuration to not propagate to the running security, which could give the appearance that those settings were not working.

SNMP

42513	SNMP point managers can now support arrays.
47636	hrSystemDate now returns a human-readable string.
49347	In previous releases, SNMP communications may update more frequently than is configured. This issue has been resolved.
53068	Fixed a performance issue where SNMP point managers could consume excessive amounts of CPU when completing a read which could drag down the performance of the server significantly.

System Health Monitoring

49322	The %Processor Time tag in Control and Diagnostics now returns good quality data. The reason it returned bad quality was that the % character now needs to be escaped (as %%), however for compatibility reasons just one % character can be used for this particular tag.
52374	In previous versions, the System Health Monitor diagnostics only stored data while actively being viewed. This issue has been resolved.

Unified Data Manager

49271	In previous releases, global alarm subscriptions would not populate correctly when the default configuration was connected to a local alarm server.
50106	Resolved an issue causing triggers not to fire when they were configured in a folder.

Workbench

51877	The Workbench Configure Database option now allows uppercase characters in new database names.
55348 55317	Client installations can now add new servers into the Workbench configuration. (Resolved by including Microsoft.Azure.Amqp.dll, Microsoft.ServiceBus.dll, and Microsoft.Azure.Devices.Shared.dll to the Client installations.)
52546	Newly imported global aliases can now be browsed as soon as they are imported into the Workbench.
51443	In previous releases, the AlarmWorX64 Logger and the TrendWorX64 Logger could inadvertently reveal the password for the SQL server in the connection string. The password is now masked in the Workbench.
39987	In previous releases, users were not able to inset multiline strings into the body field for AlarmWorX64 Multimedia templates. This behavior is now supported.
51252	Various issues that would cause an Excel import to fail have been resolved.
51262	Resolved an issue that would prevent the export of diagnostic models in FDDWorX. This issue only occurred in certain patched versions.
53064	'Merge Another Historian' feature in Workbench is now supported on Hyper Historian machines running on Azure.
50397	Resolved an issue when attempting to export to Excel when the configuration contains unprintable characters.
45552	Parent items are now created on import when doing an import with "Create and update".
55342	Furigana characters are now supported when importing or exporting to Microsoft Excel.
56056	Fixed an "Index out of range" error when importing Microsoft Excel files.
51257	Configurations exported to Excel could occasionally generate cells with more than 32767 characters, which caused the .xlsx sheet to be unable to be opened in Excel. This issue has been resolved.

50826	Previously, application actions in Workbench-SL affected access for Workbench as well. This issue has been resolved – now Workbench-SL and Workbench can have independent permissions.
54381	The AlarmWorX64 Logger Configurator in the Workbench now correctly disables 'Max Archive Interval' and 'Max Interval' when 'ONLY SQL' is selected as then archiving method.
49539	The AlarmWorX64 Logger Configurator in Workbench now allows filtering on ActorID.
52934	In previous versions of Workbench, sometimes changes to the alarm logger connection string would not properly take effect, and the old connection string would be used. This has been resolved.
55474	In previous releases, the start position and line number for columns were swapped in the AlarmWorX64 Logger configuration. This issue has been resolved.
55475	Enabling a printer in the AlarmWorX64 Logger Configuration now registers in Project Details.
51221	The Workbench now supports the use of brackets in alarm names.
46261	The AssetWorX, AlarmWorX64 Server, Hyper Historian imports did not work correctly. These issues have been fixed.
51276	In previous versions, the DIG_Limit, DIG_MsgText, and DIG_RTNText columns would be missing from an AlarmWorX64 Server CSV export.
51232	Upgrades to the Workbench have improved performance when exporting from the AssetWorX provider.
52948	In the AssetWorX provider, entering a string longer than the field could cause a scroll bar to appear. The scroll bar was large enough to obscure the text field. The scroll bar no longer appears.

55562	In some beta versions, when attempting to add a connection string for the AssetWorX cache data store, users will receive this error if they are using SQL 2014: "Connection string is not in a valid format. The provider 'SQLNCLI11.1' is not supported". This error has been resolved with upgrades.
52639	In previous versions, exporting an AssetWorX configuration to Microsoft Excel would inadvertently convert certain strings to Unicode characters. This issue has been resolved.
54018	Fixed an error where users may not have been able to import an Energy AnalytiX configuration into another database in the AssetWorX provider.
55924	Fixed an error in the Workbench where a crash could occur after attempting to clear the cache in the AssetWorX Configurator.
51273	In the BACnet provider, attempting to bind a device and change the name at the same time would cause Workbench to crash. This has been resolved.
53135	Fixed an issue where the Workbench would crash when modifying the BACnet schedule events repeatedly.
53069	Fixed an error where the device nodes in BACnet would return 'Bad - Server Failed' when the 'Show Network' browsing option was unchecked.
51294	A Workbench memory leak when expanding BACnet device nodes with thousands of devices has been mitigated.
51250	A Workbench crash was resolved. The crash could occur when changing the present value of a BACnet tag in specific circumstances.
54476	Very large diagnostic matrices (at least 200 x 200) are now supported in the FDDWorX provider.
53343	Fixed an error in the GridWorX provider where valid SQL syntax could be incorrectly rejected.
46262	When exporting a Hyper Historian configuration, the name "loggers" was used for all loggers instead of their configured name. This would cause errors when importing if there was more than one configured logger. This issue has been fixed.
51254	Various issues that would cause an Excel import to fail have been resolved.
51274	Improvements to the Hyper Historian Configurator in the Workbench have improved performance and speed when creating a Hyper Historian tag.
49109	The Hyper Historian provider now correctly identifies the "InGroup" field as required.
55219	In previous releases, the delimiter box did not enable after unchecking "Use Custom Delimiter" and closing the plugin. This issue has been resolved.

50579	Fixed an error where certain bitmaps could cause a crash in the MobileHMI provider.
54258	Resolved an issue in the ScheduleWorX64 provider's Recurrence dialog for exceptions and holidays when on a Japanese operating system. The OK and Cancel buttons were previously hidden.
52062	You can now browse for OPC tags to use in value sets in the ScheduleWorX64 provider.
52070	In previous releases of ScheduleWorX64 provider, opening a new schedule in the Default ValueSet Value would not automatically update. This issue has been resolved.
50674	Updated the Security provider to properly secure displays using the "Lock Account Forever" option.
52071	The labels for the high and low limits were switched in the TrendWorX64 Logger provider. This issue has been resolved.
52098	In previous versions, deleting rows from a value set in the Unified Data Manager provider could result in a Workbench crash. This issue has been resolved.
47647	In the 'Project Details' of the BACnet configurator, users can now see the 'Runtime Description' for the items that are in Runtime. These descriptions are also visible within the database.

AnalytiX

Energy AnalytiX

55940	In previous versions of Energy AnalytiX, extra data were returned if the time aggregate was set in excess of one day. This issue has been resolved.
49796	Asset rollup calculation errors in Energy AnalytiX have been mitigated.
56037	After creating, updating, or deleting calculations, Energy AnalytiX roll up calculations previously could break at various levels within the hierarchy. This issue has been resolved.
50999	In previous versions, Energy AnalytiX meter data would appear to not be processed correctly. Various improvements have resolved this issue.
52917	Fixed an error in Energy AnalytiX Viewer where Advanced Analysis Charts would stop working after drilling down in runtime.

Facility AnalytiX

49364	In previous versions, the FDD Active Fault Count would not always yield accurate counts. This issue has been resolved.
53131	When assets were instantiated via import or the bulk asset configurator, the FDDWorX diagnostic counters may not match the Workbench reports for the number of assets or rules on scan. This issue has been resolved.
50978	In certain circumstances, the FDD DA fault count would show an incorrect number of faults, or "Bad – Data Unavailable". This issue has been resolved.
50974	After running for several hours, FDDWorX could crash. This crash would appear in the Event Viewer and TraceWorX as a 'Null Reference Exception'. This issue has been resolved.
49878	Increasing the font size in the FDDWorX Viewer would result in clipped date/time labels. This issue has been resolved.
50994	In the FDDWorX Viewer, the Fault Cost column now consistently filters correctly.
50972	In the FDDWorX Viewer, the Acknowledge option of "Multiple Incidents Having" -> "Same Fault Name as the Current Incident" would only acknowledge the current incident. This has been resolved.
54953	In previous versions, when resolving multiple incidents with the same name in the FDDWorX Viewer, only the most recent incident would actually be resolved.
48890	In previous versions, the FDDWorX Viewer would not consistently load or display faults on WebHMI clients.

52649	In previous versions, the FDDWorX incident viewer could crash GraphWorX64 when a user commented or acknowledged a fault. This issue has been resolved.
52655	In previous versions, the FDDWorX Viewer would not function consistently for distributed architecture. This issue has been resolved.
50975	In previous versions, the "Freeze Columns" feature of the FDDWorX Viewer may freeze the wrong number of columns. This issue has been resolved.
55118	In previous releases, the FDDWorX Viewer could not propagate comments to multiple incidents or when the incidents had the same name. This issue has been resolved.
54671	In previous releases, a Chart Series inside a Grid would not respect an applied Time Range defined for runtime. This issue has been resolved.
52647	In previous releases, renaming a related value in the Facility AnalytiX Viewer would not resolve on the actual Facility AnalytiX Viewer filter during runtime. This issue has been resolved.

GENESIS64

AlarmWorX64

50123	Within the AlarmWorX64 Logger, the alarm history point manager now consistently returns "GoodNoData" when the time range has no data but everything else is working fine. Previously it would return simply "Good".
50724	When configured to log specific attributes from certain OPC servers, such as the "CV" attribute from the ICONICS Modbus Ethernet AE server, the alarm logger would not log any alarms. The attributes that caused this problem were internally labeled with negative numbers. This issue has been resolved.
50225	Tooltips within the AlarmWorX64 Logger have been expanded to allow more accurate and complete messages when the text is in excess of 255 characters.
51075	Logging UA alarms with OPC Foundation Server now functions consistently within the AlarmWorX64 Server.
53866	In previous versions, The AlarmWorX64 Logger could incorrectly start as Offline in the Redundancy tab of MonitorWorX Viewer. This issue has been resolved.
51025	In previous versions, the Alarm Logger process may stop logging when connecting to an OPC UA Server for AE Events. This issue has been resolved.
53508	Fixed an AlarmWorX64 logger error that created a memory leak on start-up when logging high volumes of alarms.

53490	Fixed a deadlock in the AlarmWorX64 Logger that stopped historical data at random intervals.
51218	An issue has been fixed that would cause the AlarmWorX64 Logger to fail to log if two or more configurations were assigned to the same node.
52470	The AlarmWorX64 Server now properly installs its *.config.xml files to the correct locations.
52471	Rectified a discrepancy between the AlarmWorX64 Server and FrameWorX client. The AlarmWorX64 Server would incorrectly report that IcoCommunication.*.config files were missing or contained errors.
52973	Mitigated an AlarmWorX64 error where a restarted server would incorrectly send an email alert with an invalid timestamp if the input tags had bad quality.
55767	Resolved an issue in upgrading certain AlarmWorX64 Server configurations from older versions.
55264	In previous versions, when changing the severity of an alarm via the AlarmWorX64 DA server during runtime, alarm viewers intermittently become inconsistent with the state of the alarm. This issue has been resolved.
52475	In previous versions, the AlarmWorX64 Viewer may not correctly display all historical events within a specified time range. This issue has been resolved.
51028	In previous versions, an AlarmWorX64 Server crash would occur when requesting non-existent DA alarm tags. This issue has been resolved.
51400	In previous versions of the AlarmWorX64 Server, alarms that are not part of any area could not be found when browsing for DA tags under OPC Data Access > AlarmWorX64 DA. This issue has been resolved.
51020	In previous releases, there was an error that would prevent the AlarmWorX64 Server from properly browsing DA tags. Only areas could be browsed. This issue has been resolved.
50532	In previous releases, the AlarmWorX64 Server could incorrectly report alarms with active times listed as 00:00:00 if they went into the alarm state as a result of enabling a previously disabled alarm. This issue has been resolved.
51029	In previous releases, the AlarmWorX64 Server DA points could show incorrect values after certain configuration changes. This issue has been resolved.
51867	In previous releases, if an AlarmWorX64 Server had no areas, a user would not be able to browse for any OPC DA tags, including tags that should be independent of areas. Tags are now visible in OPC DA even when the configuration has no areas.

52545	In previous releases, acknowledging an alarm on the secondary node in a redundant AlarmWorX64 environment would not automatically transfer to the primary node. This issue has been resolved.
56005	Fixed an issue with the AlarmWorX64 Server in redundant setups using the “runhot” option where the conditions for points that were not changed did not resolve upon startup. This issue has been resolved.
53739	Fixed an error in the AlarmWorX64 Server where remote server subscriptions would inadvertently show incorrect alarm types and attributes. This issue has been resolved.
53781	In previous versions, The AlarmWorX64 Server could incorrectly start as Offline in the Redundancy tab of MonitorWorX Viewer. This issue has been resolved.
53057	Fixed an AlarmWorX64 Server error where alarms in a redundant environment would inadvertently regenerate new timestamps and states when reverting back to the primary server.
52681	Fixed a crash in the AlarmWorX64 Server when there were no areas in a configuration.
53248	Fixed an error where the AlarmWorX64 Viewer clickable text would not resolve when opened in Internet Explorer.
52624	Resolved an issue in the AlarmWorX64 Viewer where its dialog boxes could appear behind the active window if the viewer was in a GraphWorX64 popup using the “topmost” option.
53559	Within the AlarmWorX64 Viewer, select causes are now translated into OPC AE categories allowing related values to be displayed when using the GenBroker syntax.
50253	When an AlarmWorX64 Viewer’s subscription included more than one alarm or event point, only the first point’s fields would appear in the “Add/Remove Files from the Subscription” dialog. This issue has been resolved.
47637	Updated the AlarmWorX64 Viewer to ensure that font size updates correctly and consistently.
52041	The 'Wrap Text' formatting option now works consistently within the AlarmWorX64 Viewer.
51750	The animated rate of blinking on alarms is now consistent between runtime and the configuration preview.
51293	The AlarmWorX64 Viewer was not always properly aggregating OPC UA alarms. This issue has been resolved.
51070	The AlarmWorX64 Viewer now continues to show related values after a redundant switchover.

53075	Language aliases in the headers of GridWorX and AlarmWorX64 Viewers would not resolve under specific circumstances. This issue has been resolved.
53489	In the AlarmWorX64 Viewer, a memory leak could occur when 'ShowDetails' was set to true. This issue has been resolved.
55288	In previous versions, AlarmWorX64 Viewers with at least two tabs would always switch to the second tab after opening and closing an embedded window in GraphWorX64. This has been resolved.
56289	In previous versions, acknowledging alarms may not behave properly in the AlarmWorX64 Viewer when certain language packs were also installed. This issue has been resolved.
50882	In previous versions of the AlarmWorX64 Viewer, if a column was set as a clickable link, the mouse over foreground setting may not have been correctly respected. This issue has been resolved.
49810	The "Automatically update historical data after X seconds" setting incorrectly affected real-time alarms as well. This has been resolved.
51044	Previously, if there were multiple OPC UA alarms with the same SourceName, only the last alarm could be acknowledged with the AlarmWorX64 Viewer. This has been resolved.

AlarmWorX64 Multimedia

51031	In some previous versions, AlarmWorX64 Multimedia may not correctly trigger agents. This issue has been resolved.
52679	Fixed an AlarmWorX64 Multimedia error where notifications continued to send messages after an active alarm was disabled from the AlarmWorX64 Server.

AlertWorX

54021	In previous releases, AlertWorX would send excessive alert emails when the input was bad quality until 'ActiveState' was manually reset to '0'. This issue has been resolved.
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AssetWorX

47844	In previous versions, if an asset was linked to another asset, its Display Name was not shown in the Data Browser. This issue has been resolved.
51224	In previous versions, commands may not render correctly if an asset is linked to another asset. This issue has been resolved.
54956	In previous releases, changing the Asset Tree to 'virtual' could result in a frozen display or a display with errors in the Tree. This issue is resolved.

55996	In some beta releases, AssetWorX icons would disappear if rules were set on the asset column. This issue has been resolved.
54773	In previous releases, an error would prevent an AssetWorX database creation or update on German Microsoft SQL 2014 Express. This issue has been resolved.
50485	In AssetWorX, the equipment classes from the Building Automation Library that comes with FDDWorX now include equipment parameters.
55804	Fixed an AssetWorX error where editing equipment properties could result in a 'TargetInvocationException' leading to a crash.
54986	Users can now execute commands directly from the Asset Navigator following a search.
49078	Updates made to the AssetWorX Navigator ensure that language aliasing is automatically refreshed after a language is changed.
39836	The 'Select Asset' command is now available in Silverlight Applications.
53406	The AssetWorX Navigator search has been updated to ensure completeness when search for items.
49543	The 'Target' property of the expression in 'Create Pen' command is now evaluated consistently when used as an asset during a drag-and-drop action.
50134	The 'Select Asset' command now works properly when used on an AssetWorX Navigator with a tree view.
49618	In previous versions, the AssetWorX Navigator could crash when a user attempted to drag an asset with two or more commands. This issue has been resolved.
51807	In previous releases, the Asset Navigator would store the virtual path in place of the actual path as the selected Asset Path.
54737	In previous releases, if the Asset Navigator was configured with no bounds it could expand in width indefinitely. The width is now bound by the total size of the container.
54738	Fixed an error in which deleting a grid panel that contained a navigation tree in the Asset Navigator would result in an 'Assertion Failed' crash.

ConverterWorX

50099	When converting a display from GENESIS32 to GENESIS64, Radio Buttons now correctly remain within the configured group.
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Commanding

51314	The 'Go To Location' command within an embedded viewer in Standard (WPF) WebHMI now operates correctly and consistently.
50602	In previous versions, the 'ShowDetails' command could resend itself to all child controls of the original target, resulting in occasional errors when calling the command. This issue has been resolved.

Data Explorer

50956	The GridWorX Viewer in the Data Explorer now allows customizable page height.
51249	Resolved an issue in the Data Explorer where it would improperly dispose of its FrameWorX Client connection. When the Data Explorer was part of a GraphWorX64 display this issue could cause data in other parts of the display (for example, a process point or a TrendWorX64 Viewer) to fail to load on subsequent page loads.
50807	In previous versions, the Data Explorer may not pin/unpin OPC server subfolders correctly. This issue has been resolved.
54581	In previous releases, the Data Explorer would not provide the correct points if a specific data source was defined. This issue has been resolved.
55201	Fixed an error where after specifying 'GridViewStyle' in the Data Explorer, the user was unable to edit values.
51569	Fixed a GraphWorX64 crash that would occur when the Data Explorer would open BACnet data coming from certain live devices. The crash did not happen with simulated BACnet data.
54478	Fixed a bug where the Data Explorer would hang in runtime when the data source pointed to certain assets. This bug occurred only in certain patched versions of GraphWorX64.

EarthWorX

51316	In previous versions, the EarthWorX Viewer could incorrectly render all tiles as grey until an action is taken, such as panning or zooming. This issue has been resolved.
51317	In previous versions, setting Periodic Refresh could result in XAML parse errors. This issue has been resolved.

49959	Resolved an issue that would cause the EarthWorX map to change to the default settings (Bing and Aerial) when CachingDisplays was enabled in GraphWorX64 preferences, and the display was switched away from the EarthWorX Viewer and back.
51323	In previous versions of EarthWorX, the Esri provider could crash with a '400 missing input parameters' exception after loading the map. This issue has been resolved.
53453	In previous versions of EarthWorX, default regions of custom Esri maps may offset to another location. This issue has been resolved.
52989	In previous releases, EarthWorX may not consistently preserve map settings after saving and loading. This issue has been resolved.
51319	An issue has been resolved that would cause GraphWorX64 to crash when loading custom security-protected Esri maps.
51328	A very rare crash in EarthWorX dealing with tile downloads has been resolved.
51321	A crash involving the positioning of custom Esri maps has been resolved.
51312	A crash involving panning and zooming on EarthWorX displays with embedded images has been resolved.

GraphWorX64

51326	Under certain conditions, upon entering runtime the objects in a 3D display would be displayed with their point fail colors instead of their actual colors. This issue has been resolved.
55433	The process for importing BIM models has been optimized to allow for a more efficient migration into the GraphWorX64 3D View.
44518	The position of objects in the GraphWorX64 3D Viewer will now be retained following a 'mirror' transform.
51325	Occasionally hide dynamics on 3D objects would fail on entering runtime. This issue has been resolved.
44549	Multiplying a 3D Object inside a group no longer automatically resets the camera view.
48840	In previous versions, an error would inadvertently effect color dynamics outside of the group in GraphWorX64 3D displays. This issue has been resolved.
44552	In previous versions of GraphWorX64, objects could not be duplicated when selecting them through the object explorer. The issue has been resolved.
41376	In previous versions of GraphWorX64, materials used from the material gallery were not consistently saved to the Gwx.UserSettings.MaterialGallery.xml. This issue has been resolved.

44829	In previous versions of GraphWorX64, sometimes imported AutoCAD files could result in objects placed far off-screen. This has been resolved.
42792	In previous releases, selecting objects in a GraphWorX64 3D Viewer using click and drag while zoomed in could inadvertently select more objects than desired. This issue has been resolved.
44009	GraphWorX64 3D Viewer now allows multi-selection with both 'Ctrl' and 'Shift' keys.
38397	Fixed a GraphWorX64 issue where 'Hide' dynamics would sometimes incorrectly show objects when the screen first goes into runtime.
51310	3D objects now render Popup menus correctly.
50968	In some previous versions of GraphWorX64, the Local Alias would not resolve correctly in published Silverlight displays. This issue has been resolved.
51229	In previous versions of GraphWorX64, Language Aliasing did not resolve when security was active and no user was logged in. This issue has been resolved.
50955	An issue preventing local aliases from being set when loading popups in Silverlight has been resolved.
55820	Publishing GraphWorX64 displays will now preserve the visual layout of split panels (SplitContainerControl).
52662	In previous versions of GraphWorX64, the Web Publishing Wizard sometimes publishes the wrong displays when bulk publishing. This issue has been resolved.
51503	The camera control can now support more than 20 camera feeds on server-class operating systems.
54017	A rare 'NullReferenceException' in the camera control has been resolved. This issue was more likely to happen when there were multiple camera controls on the page.
49316	Resolved an issue with adding certain third party WPF components into GraphWorX64.
54732	The keypad from the GraphWorX64 Login Dialog now scales consistently and correctly.
54353	The "HideDynamicActiveWhenPointFailure" property, which was added for backwards compatibility with GraphWorX32, has been modified to work more consistently with how hide dynamics behaved in GraphWorX32 on point failure.
50234	Resolved an issue selecting dropdown menu and state field items on touch screen devices.
50963	Resolved a rare error that would occur when pasting an object or symbol into a scalable GraphWorX64 display whose dimensions were 0x0 pixels.

52663	Resolved a memory leak that occurred when using a Load Display pick action loading a display with SpecifyRuntimeWindowProperties set to True.
49857	Resolved a memory leak that occurred when opening and closing certain popup displays.
48484	On multi-touch displays the user could accidentally launch two modal popup windows from the same parent. This is now prevented.
53738	If multiple pop-up windows were open, closing one pop-up window would cause the others to be minimized. This has been resolved.
54531	If a display was opened from a web link (http), modified, then saved, instead of saving the publish dialog would be opened, and all changes would be lost. This has been resolved – the publish dialog still opens (because you must publish to a web location to “save” it) but the changes are not lost.
50958	In Silverlight displays, only the first pick action of multiple pick actions was executed. This issue only happened with pick actions on objects other than buttons, and only on systems where Update 1 or 2 for 10.9 had been applied. The issue has been resolved.
52204	In previous versions, trend cursors in GraphWorX64 connected incorrectly to localism tags. This issue has been resolved.
50967	In previous versions, the local alias would not resolve for second level popup window when smart binding was used. This issue has been resolved.
48251	In previous versions, loading a WebHMI display over HTTPS would cause GraphWorX64 to hang. This issue has been resolved.
54045	Color dynamics are no longer allowed on objects with classic borders. This combination can cause a crash.
50954	In previous versions, having the Windows DPI scaling greater than 100% would cause sizing and positioning issues in various forms inside of GraphWorX64. This issue has been resolved.
55569	Resolves a crash when deleting a symbol in the GraphWorX64 Symbol Library while running in Internet Explorer.
48363	Tooltips in GraphWorX64 now wrap, rather than clipping at window borders.
51516	In previous versions of GraphWorX64, Smart Tile data would not load if another popup window was open and display caching was enabled. This issue has been resolved.
52753	In previous releases, objects could inadvertently migrate position when their visibility is turned off. This issue has been resolved.

51337	Resolved an issue that would cause Global Aliases to stop properly resolving on embedded displays after reloading the page in Internet Explorer.
46258	In Silverlight displays, pick actions on different levels of a group did not execute as intended. Now if pick actions with the same trigger (for example, OnUp) exist on the same object in different levels of a group, the innermost pick action will take precedence.
46346	GraphWorX64 WebHMI displays would hang intermittently when loading the TrendWorX64 Viewer and the Data Explorer. This issue has been resolved.
50996	The trueforduration() function would not always function properly on a pick action the first time that pick action was triggered.
53347	Objects that may resize due to their containers (such as inside of a Split Panel) did not always work properly with size, location, or rotation dynamics. This has been resolved.
55873	When viewing a GraphWorX64 display inside of a Remote Desktop session and the session disconnected and reconnected, drag and drop Load Display commands would stop functioning for named windows. This has been resolved.
51926	Load Display commands with targets of "Popup Window (Display Dependent – Modal)" are now updated to have a target of "Current Display" when converting from .gdfx to .gdfxp. Previously the target type was unchanged, and the button would not function since .gdfxp displays do not support popup windows.
50997	Fixed a rare configure-mode crash that involved a stack panel having an invalid width.
54854	A memory leak has been fixed in GraphWorX64. The leak would occur when Project Reporting was enabled, and when nesting a local alias inside of a global alias, like: <code><#< alias>>#></code> .
51771	Resolved a crash that would occur in configure mode when a user would draw a spline, polyline, or polygon, use Ctrl-Z (undo) to remove the whole line, then hit the Escape key.
41346	If a display was loaded and any of its referenced image files could not be found, the source field for those images would be blanked out. Saving the display would permanently lose those sources. This has been resolved – now GraphWorX64 preserves the sources of image files, even if they cannot be found.

GridWorX

56207	GridWorX Viewer "Edit Filters" options are now available again on the "Conditions" tab.
51706	In previous versions of GridWorX Viewer, selecting 'Enable Drilldown' within the Charts tab of GridWorX Viewer could cause all GridWorX objects to not show data. This issue has been resolved.

51707	In previous releases, GridWorX chart options would not load if 'HorizontalLabelDegrees' exceeded 360.
51202	A rare crash in the GridWorX Point Manager has been resolved.
51247	When using a drilldown chart and updating default parameters after the initial configuration, these were not saved. If you update these parameters now, these will stay updated even when GraphWorX64 is closed and reopened.
53136	Resolved a GraphWorX64 crash that would occur in some beta 10.95 versions when loading certain displays from earlier versions that contained GridWorX Viewers.
51811	Updated text in the GridWorX Viewer 'Sort' dialog field.
49586	The LCLFormat and UCLFormat properties are now correct in the advanced options for the SPC charts in GridWorX control. Previously they were switched.
52149	The GridWorX Viewer now respects conditional text colors on clickable fields.
50548	Mitigated a rare GridWorX Viewer error where SPC samples would return infinity as a data value resulting in a GraphWorX64 crash.
49320	In previous versions, the GridWorX Viewer did not consistently apply global colors to condition styles. This issue has been resolved.
49438	A rare crash has been resolved. The crash would occur when double-clicking on a GridWorX Viewer cell in specific circumstances.
54563	In previous releases, the publishing wizard would treat a GridWorX Viewer's data set tag connection as if it were an external file and would say that the file could not be published. This has been resolved.
56142	In previous releases, the "DateTimeOffset" option was not properly serialized in the GridWorX control. This issue has been resolved.
48011	In previous releases, GridWorX Viewer could crash when adding a column name into the "LinkText" property.
52969	In previous releases, entering a single curly bracket into a clickable link within the GridWorX Viewer could result in a crash. This issue has been resolved.
50061	Fixed a GridWorX Viewer issue where drilldown charts would not consistently include related values.
50069	Data Explorer would only resolve real time or historical tags of asset properties the first time browsing the asset catalog. This issue has been resolved.

48317	Resolved an issue that would prevent GridWorX Viewer columns from being resized in configure mode using "Activate Control" after the display had gone into runtime at least once this session.
51306	Automation method ConvertGdxData has been modified for better backwards compatibility.

RecipeWorX

54774	In previous releases, an error would prevent a RecipeWorX database creation on German Microsoft SQL 2014 Express. This issue has been resolved.
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ReportWorX Express

51329	Within ReportWorX Express, the Data Manager would sometimes not contain as many configurations as expected. This issue has been fixed.
54230	Some versions of ReportWorX Express did not allow parameters to be based on Excel cell values. This has been resolved.
51334	ReportWorX Express now allows dates and times to be formatted in Excel.
52219	Fixed an issue in certain 10.95 beta versions of ReportWorX Express where the Update button would need to be pressed several times to retrieve all values.
51331	Extra characters that would appear at the end of timestamps in ReportWorX Express have been removed.

ScheduleWorX64

51607	The holiday calendar no longer allows the user to define partial days. Holidays must be whole days.
52610	The preview in the Schedule Control occasionally did not show the events when navigating to various months. This issue has been resolved.
49782	Resolved issues loading BACnet schedules in the Schedule Control from a remote FrameWorX server. The schedule would either not load, or a login dialog would appear.
51599	Resolved inconsistent behavior in the Schedule Control where schedule positions would move even after drag and drop was disabled.
51200	The schedule or calendar would fail to save if the date was specified using separators other than / for dates and : for times. This has been resolved.

TrendWorX64

34927	An IcoSetup64.ini setting was added to modify the behavior of the End aggregate for the TrendWorX64 Logger. When following OPC HDA specifications, the End aggregate will not be able to get samples outside of the bounds of the overall time range, which can mean that sets of data where all of the raw samples are outside the range will not plot any points when using End. Changing this INI entry to 1 will allow the End aggregate to retrieve samples outside the bounds. [TWXHDA64\Runtime Settings] EndAggregateBounds=1
33184	Export data functionality is now available in TrendWorX64 Viewer Silverlight displays.
50259	When selecting multiple items in the configuration dialog for the control and then right-clicking on the selection, the Copy option was not always available. This has been resolved.
48759	Upgrades to the TrendWorX64 Trend Viewer now allow for zoom functions with global range to calculate consistently.
49737	Time axis settings in TrendWorX64 are now respected when older configurations are opened with a newer version.
53076	The TrendWorX64 Viewer now consistently updates in runtime when using datasets as the data source
49308	Rarely when loading a display with a TrendWorX64 Viewer the data would not be loaded until the value of the data source changed. This has been resolved.
52206	The TrendWorX64 global cursors now align to each other based on time. In earlier beta versions they would align based on the position in the TrendWorX64 Viewer window.
53864	The alias <empty> is now supported in TrendWorX64 Viewer.
52331	Pie plots with real-time pens in the TrendWorX64 Viewer now consistently show the last value in the legend.
52205	Resolved an issue with TrendWorX64 Viewer global cursors that existed in beta. The cursors would jump around more than expected.
46960	In TrendWorX64 Viewer, in Freeze mode, an unintentional black line stroke appeared where no data was available. This has been fixed.
46517	In previous versions, the TrendWorX64 Viewer would require users to reenter configuration mode to display refreshed data when Global Aliasing was changed. This issue has been resolved.

50606	Previously, the "IsToolBarAlwaysVisible" setting was not properly being saved to .twxx files. This has been resolved.
56181	In previous versions, cursor tooltips could render in incorrect locations. This issue has been resolved.
48908	In previous versions, automatic time alignment would cause issues when zooming. This issue has been resolved.
54249	In previous releases, the TrendWorX64 Viewer could omit some data that was being returned from web services. This issue has been resolved.
32461	In previous releases, the TrendWorX64 Viewer could create a memory leak when opened in a web client. This issue has been resolved.
51856	In previous releases, the summary scrollbar was not consistently loading in the TrendWorX64 Viewer.
42669	Fixed an error where the TrendWorX64 Viewer would lose the dataset settings of pens when globally aliased.
50671	Fixed a TrendWorX64 Viewer error where global alias values would not consistently update when putting a display in runtime.
34668	Fixed a TrendWorX64 memory leak that could occur when adding or removing pens via scripting.
49408	Double clicking to show the TrendWorX64 Viewer toolbar now works with 1-click cursors.
48007	The ExportDataToCsvFile API method now returns tag values in the same format as configured in the TrendWorX64 Viewer.
52625	Resolved an issue in the TrendWorX64 Viewer where its dialog boxes could appear behind the active window if the viewer was in a GraphWorX64 popup using the "topmost" option.

Hyper Historian

General

51105	When Hyper Historian Tags were read without a GENESIS64 tag license, users would receive a "License Disabled" error. This issue has been fixed. GENESIS64 tags are only required for Hyper Historian Express, not Standard or Enterprise.
51197	The Hyper Historian Splitter Utility now splits both drill-down and alarm values.

51103	Resolved an issue with tags configured as a generic dataset on a redundant system. This underlying problem would cause issues in communication between redundant loggers and collectors.
51119	Resolved an issue with Hyper Historian that caused GridWorX Viewer SPC Charts to fail to show any data.
53448	Leveraging 'tappctgood' and 'tagtimegood' in Hyper Historian previously yielded inaccurate results. This has been resolved.
51120	In previous versions, Hyper Historian data could only be edited once using MergeWorX. Attempts to edit the data a second time using MergeWorX would fail. This issue has been resolved.
52314	Hyper Historian previously contained incorrectly inserted values in the datablock's internal collection. An index for HHD files are now consistently created on a user's machine. This will result in a more efficient indexing process in Hyper Historian.
54218	Fixed a delay in Hyper Historian where "Most Recent On Time" data would not become available to clients until the next data change.
53863	Backfilling SPC Data in Hyper Historian now accurately generates a GenEvent message.
52311 52963	Solved an issue that would cause Hyper Historian to randomly return duplicated data.
51109	In previous releases, Hyper Historian point manager tags were delayed in responding to DA requests. Performance improvements have mitigated this issue.
51122	The HDA_BOOL procedure of the Hyper Historian SQL Query Engine previously returned incorrect results. This has now been resolved.
42703	Fixed a MergeWorX discrepancy where HHD files were not identical between primary and secondary servers in a redundant environment following an import to the primary server.
50800	Data with uncertain quality can now be imported into Hyper Historian via MergeWorX.
53257	Updated Hyper Historian Splitter to merge data from more file sources.
53065	In previous versions, the Hyper Historian Logger BACnet trend object buffer would not behave properly. This issue has been resolved.
52984	In previous versions, Hyper Historian would not be able to log data points from the FrameWorX "reporting to" server. This issue has been resolved.

50884	In previous versions there was an issue with re-indexing that could cause problems reading HHD files after the indexes were rebuilt (such as after moving the configuration and HHD files to a new machine). This issue has been resolved.
54356	In previous versions of Hyper Historian, drawing a sum from a QARRAY would return bad data if any of the constituent elements contained bad data.
47557	In previous releases, Hyper Historian would stop logging when HHD files were removed. This issue has been resolved.
51115	Resolved an issue that would cause excessive CPU and memory usage when calling the HDA_ANALOG method from the SQL Query Engine.
54357	Improved the performance of Hyper Historian on redundant systems for cases where both machines are restarted at the same time.
51113	As a performance enhancement, now "Most Recent On Time" tags that use "Collector Timestamps" and have a Data Collection Rate of greater than 30 seconds the refresh rate for those tags is set to 30 seconds. Previously the refresh rate would match the Data Collection Rate, which could cause delays reading the data for very long Data Collection Rates.

Hyper Historian Collector

52509	The Hyper Historian collector standalone installation folders now include all necessary SQL CE prerequisites.
51099	Resolved an issue that caused the improper handling of values with the same timestamp, which could appear as a memory leak and result in extremely slow or even stopped logging in severe cases.
49777	OPC UA alias behavior is now consistent between local and remote Hyper Historian collectors.
51117	In previous releases, the Hyper Historian Data Collector could alternate between online and offline for no apparent reason. This issue had been resolved.
49171	Resolved a rare collector crash that could occur when using point redundancy, or when installing the collector on the same machine as GENESIS64 or the full Hyper Historian.

Hyper Historian Hyper Reader

52977	The Hyper Reader has been greatly improved and has resolved excessive CPU consumption issues.
52978	Large data pulls from Hyper Historian would occasionally result in inconsistent results. This issue has been resolved.

51287	In certain instances, the Hyper Reader may incorrectly return datasets that fall out of the specified start and end time range. This issue has been resolved.
48693	Resolved a crash when initiating the Hyper Reader from SQL Server.

Performance Calculations

51101	Improved the handling of bad quality tags and parameters in calculation functions.
50413	Fixed a Hyper Historian error where the calculation tag would not update when viewed as a process point in GraphWorX64.
51132	Added an option to the "File Storage Information" page called "Max Logger Files To Search For Values". This number can be increased if calculated tags are having problems finding the last good sample due to it being far in the past.
54658	Fixed a Hyper Historian error where calculations would stop triggering after running for an extended period of time.

MobileHMI

AlarmWorX64

54601	The AlarmWorX64 Viewer in MobileHMI HTML5 applications previously would not show all parameters in the Set Time Range dialog when the viewer was inside of a GraphWorX64 layer. This issue has been resolved.
52915	In previous versions, the default sort would not apply to AlarmWorX64 Viewers in MobileHMI HTML5 applications. This issue has been resolved.
51017	In previous versions, Alarm Viewers with gradients used inside of Pivot Controls on HTML5 clients wouldn't show data. This issue has been resolved.
45525	When sizing columns in the AlarmWorX64 Viewer in HTML5 clients, the Auto or Fill options would be ignored. This has been resolved
48086	The MobileHMI Alarm Viewer now respects the configured date / time format.

AssetWorX

52749	In previous releases, switching between the virtual tree and the asset tree in MobileHMI displays would not correctly load the virtual tree and would default to the asset tree instead. This made it impossible to dynamically change the global aliases within Asset Navigator. This issue has been resolved.
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AppHub

53049	Fixed an error in the MobileHMI AppHub where a user could log in over an existing user.
50064	In previous versions, a MobileHMI AppHub error could occur preventing users from interacting with a display when the option 'User must set password at first login' is enabled. User logging and password input now function correctly in the AppHub.
50572	The icon defined in the OEM Settings section of MobileHMI now uses the correct aspect ratio. Previously it would always be displayed as square, even if the original image was rectangular.
53466	In previous releases, the MobileHMI HTML5 AppHub "Login Dialog" command would not function properly on a MobileHMI tile. This issue has been resolved.
50097	In specific situations, the AppHub may fail to load a new layout when clicking on a smart tile with the Load Layout command. This issue has been resolved.
52273	The main AnyGlass page now shows the tiles directly when only one layout is specified.
51095	Added exception handling for a rare System.InvalidOperationException crash.
51090	Added exception handling for a rare System.ArgumentException crash.

EarthWorX

51009	Resolved an issue that caused EarthWorX pins with dynamic latitude and longitude to fail to work in HTML5 clients.
45117	Native GraphWorX64 objects now position correctly and consistently on HTML5 EarthWorX map layers.
48893	In previous releases, displays containing an EarthWorX Viewer would lose custom zoom levels and pins when saved and opened in a MobileHMI HTML5 client. This issue has been resolved.

General

52982	Updates to MobileHMI HTML5 communications have mitigated client reconnection delays.
47978	Previously, in HTML5 clients when executing a Load Display command that included local aliases the client would receive an error that said, "Severe error in '/AnyGlass' Application. A potentially dangerous Request.QueryString value was detected from the client." This issue has been resolved.
52981	In previous releases, MobileHMI HTML5 clients may not reconnect when using HTTP or HTTPS. This issue has been resolved.

55733	Gradient colors are now fully supported in HTML5 displays.
54603	Fixed a deadlock in MobileHMI HTML5 applications where the server would stop responding, causing existing clients to freeze and preventing new clients from connecting.
54846	Fixed an error where the Recipe Viewer did not load recipes selected from the Recipe Navigator in MobileHMI applications.
51093	A synchronization and related memory leak have both been fixed in MobileHMI HTML5 clients.
52961	The character '!' is now properly supported as a BACnet property on MobileHMI-enabled devices.
50205	Resolved an issue preventing pick actions from executing on smart tiles that included process points.
52671	Parsing of global colors on MobileHMI now operates consistently for 'disable' or 'point fail' colors.
52507	Padding and margins in MobileHMI HTML5 applications have been updated to better format for specific clients.
52299	In specific circumstances, selection boxes would remain on the screen despite changing the visible display in MobileHMI.
51419	In previous versions, a Smart Tile in MobileHMI HTML5 applications with additional objects that included a hide or color dynamic would not behave properly. This issue has been resolved.
55068	In previous releases, MobileHMI would not respect font size for the Asset Navigator or the Report Navigator. This issue has been resolved.
53479	Fixed an error in MobileHMI HTML5 applications where the 'setvalue' command could crash the server. This issue has been resolved.
51508	Clickable links are now supported in AlarmWorX64 and GridWorX Viewers for MobileHMI HTML5 applications.
50083	Added recovery procedures to make HTML5 clients more resilient in the event of errors.
53365	Fixed a MobileHMI HTML5 error where displays could crash and return to an index page after switching between displays.
51139	Fixed an 'IcoComponetentModel Missing' error in MobileHMI HTML5 applications which prevented displays from launching properly.

51080	The 'Select Asset' command now works in mobile HTML5 clients.
51011	Resolved a rare "Requested display is not available" error in HTML5 clients.
37804	The Localsim::property tags are now supported for EarthWorX Viewers in HTML5 for MobileHMI.
52854	In previous releases, MobileHMI may not default to the correct language. This issue has been resolved.
51088	Resolved an issue causing certain devices (primarily the iPad Pro) to incorrectly load layouts intended for the wrong kind of device.
52489	A threading exception could occasionally cause a MobileHMI crash when navigating rapidly through a display. This issue has been resolved.
50859	Resolved an issue when using the Windows Phone MobileHMI app to talk to MobileHMI servers on nonstandard ports. Custom ports can now be defined on the server in FwxAsyncServer.config.xml by adding or modifying the following tags: <RestHttpPort>80</RestHttpPort> <RestHttpsPort>443</RestHttpsPort>
43705	MobileHMI WinRT clients can now consistently connect to updated servers if the client was previously connected to server with an older version.
55009	In previous releases, certain location services could cause the MobileHMI app to crash on WinRT clients. This issue has been resolved.
54897	In previous releases, the text translator and ResolveOpcTag would not function together properly in UWP and HTML5. This issue has been resolved.
48552	'Tab' and 'Enter' can now be used to toggle between fields in the login dialog.

GraphWorX64

48553	Toggling between data entry process points using 'Tab' is now supported in MobileHMI.
56146	The 'SetView' pick action is now fully supported in for GraphWorX64 in MobileHMI HTML5 applications.
51078	Resolved an issue that would cause size dynamics to not render correctly the first time they were loaded in an HTML5 display.
52297	Positioning of generated input has been updated to solve an issue where users were unable to write BACnet points from a MobileHMI client.
56193	Invalid display load requests in MobileHMI HTML5 clients now properly present error messages.

50217	In previous versions, the 'Navigate Back' option could return a blank screen when navigating to a sibling folder. This issue has been resolved.
56195	In previous releases, the 'setvalue' function used in expressions associated with pick actions were inadvertently continuously evaluated and executed even if a pick action was not triggered in MobileHMI HTML5 clients. This issue has been resolved.
56185	In previous releases, the rectangle fill color may not have properly rendered in MobileHMI HTML5 clients. This issue has been resolved.
56186	In previous releases, 'localsim' data sources could fail to properly reload in an embedded display after a change to the global color theme.
53469	In previous releases, GraphWorX64 displays for MobileHMI would not respect "AutoUncheckDuration" if an object which was not a checkbox was set to a check button type pick action. This issue has been resolved.
53132	In previous releases, Global Aliases would not properly resolve during initial load when using an expression to set an alias in GraphWorX64 MobileHMI applications.
55117	Fixed an issue in which picking radio buttons via MobileHMI would not register.
56191	Fixed an error with 'localism' data sources where data would not be properly visualized when attached to specific display structures.
55503	Fixed an error in MobileHMI HTML5 clients where a checkbox configured to automatically uncheck after a couple of seconds would not trigger a write value command that was configured to execute on uncheck.
37224	Enhanced responsive design has been implemented to maximize consistency between the layout of HTML5 and WPF displays in MobileHMI.
56167	The 'No Pan', 'No Zoom', and 'No Scaling' properties are now properly respected in MobileHMI HTML5 clients.
49421	'ZoomToObject' command now operates consistently and correctly in GraphWorX64 displays in HTML5 clients.
55466	In previous versions of GraphWorX64, an unhandled Microsoft .NET Framework exception appeared when attempting to access a MobileHMI HTML5 application. This issue has been resolved.
52448	MobileHMI touch and zoom functionality is now works correctly on Samsung Galaxy S6 and S7 Edge.
51007	Resolved an issue that could inadvertently allow the wrong value to be written to a process point if the display language used the comma as the decimal marker instead of a period.

52506	MobileHMI popup menus now function consistently with an updated touch-friendly layout.
54494	In previous versions, MobileHMI HTML5 applications could freeze if screens were left static for long periods of time due to an 'IndexOutOfRangeException' error. This issue has been resolved.
51955	In previous versions of MobileHMI HTML5 applications, when attempting to resize Split Panels with the splitter, the panels' size can become smaller than the component's size which allows the component outside of the panel. This issue has been resolved.
52979	Aliases in MobileHMI are now consistently retained after using the "Display Back" browser button.
52980 54659	A memory leak in MobileHMI when continually loading a set of displays over many hours has been resolved.
52666	The "Hide Object" command now behaves consistently in MobileHMI.
49766	Resolved an issue causing dashed lines to become solid when certain dynamics were applied.
48905	Clicking a pick action to load a display into an embedded window that is already loaded now reloads the display. This is consistent with WPF clients. Previously, nothing would happen.
51906	In previous releases, the scroll viewer would not render properly when width was set to auto and the rest of the display was set to '*' width. This issue has been resolved.
47595	Fixed an error in MobileHMI WinRT clients where the 'MenuItem' function was not properly shown in runtime.

GridWorX

51956	Fixed an updating error in GridWorX for MobileHMI HTML5 applications which prevented data from refreshing in a table.
51003	Resolved a crash and memory leak caused by the disposing of GridWorX controls in HTML5 clients.
54272	The MobileHMI GridWorX Viewer now supports multi-selection of rows.
50911	The MobileHMI GridWorX Viewer now supports 'ExpandCollapse' commands.
54195	The MobileHMI GridWorX Text Translator and 'ResolveOPCTag' property now function correctly when used in conjunction.
46352	The 'LoadGdxConfiguration' command is now supported in GraphWorX64 displays for HTML5. This issue has been resolved.
56118	MobileHMI HTML5 clients leveraging GridWorX now properly render Y-axis tick marks consistently.
56200	In previous versions, GridWorX charts in MobileHMI HTML5 clients would not release from memory after an alias is changed. This issue has been resolved.
50910	In previous versions of GridWorX, the 'AutoExpandGroups' property did function consistently in HTML5. This issue has been resolved
51001	In previous versions, GridWorX Viewer Commanding may not operate correctly when the control is in a GraphWorX64 Viewer and viewed on an HTML5 client. This issue has been resolved.
51134	The Delete Pen command now works from a GridWorX Viewer in HTML5 clients.
55883	Mitigated a layout formatting error that resulted in grid objects covering other grid objects in MobileHMI.

KPIWorX

52302	In previous versions of KPIWorX, the "unsaved changes" message would persist following a reload. This notification would occasionally also be visible after a web browser reconnect. This issue has been resolved.
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TrendWorX64

53319	In previous releases, MobileHMI HTML5 applications containing a TrendWorX64 Viewer would render the legend text in the wrong size. This issue has been resolved.
48310	If the vertical scrollbar was shown in the TrendWorX64 Viewer on HTML5 displays, it would overlap the content of the viewer. This has been resolved.

51644	Updated the trend period toolbar to operate uniformly for week, month, and year units in TrendWorX64 Viewer displays visualized on MobileHMI HTML5 applications.
51243	The TrendWorX64 Viewer refresh command is now fully supported for MobileHMI HTML5 applications.
53594	The TrendWorX64 Viewer cursor panel time format is now configurable for MobileHMI HTML5 applications.
51645	The time format between the MobileHMI TrendWorX64 Viewer and GraphWorX64 on the same server are now consistent.
51245	The HTML5 TrendWorX64 Viewer now respects the ShowSummaryChart setting.
53531	The CreatePen command in HTML5 TrendWorX64 Viewers now respects pen connection parameters.
54261	Manual minimum and maximum ranges are now supported for OPC tags in TrendWorX64 for MobileHMI HTML5 displays.
54359	In previous releases, adding a pen to TrendWorX64 Viewer in HTML5 via a Command would create a pen without any rendered data. This issue has been resolved.
50022	Implemented support for the TrendWorX64 Viewer to be a target for the Select Asset command in HTML5 clients.
49825	Implemented support for the Navigate command in the HTML5 TrendWorX64 Viewer.
53592	Fixed a formatting error which prevented the TrendWorX64 Viewer cursor panel text from wrapping properly in MobileHMI HTML5 applications.
56337	Cursors maintain visibility after swapping the X and Y axes in the TrendWorX64 Viewer in MobileHMI HTML5 clients.
51531	Fixed an error in the HTML5 TrendWorX64 Viewer totalizer function to ensure that it behaves consistently with the WPF TrendWorX64 Viewer.
43642	In previous releases, the 'Create Pen' command would not function properly in TrendWorX64 Viewers for MobileMHI WinRT clients. This issue has been resolved.
51696	The TrendWorX64 Viewer can now create Classic OPC HDA pens using Commanding on HTML5 clients.



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