



The most widely used alarm notification platform in Industry and IIoT

WIN-911 Release Notes

All notable changes to WIN-911 Advanced/Interactive/Standard are documented in this file.

Product Release: 4.19.24

Release Date: 2020-01-13

Release Highlights

- Introducing WIN-911 Announcer! A network-distributable application for announcing alarm events through a local audio device.
- The InTouch Edge HMI Data Source now provides a **Heartbeat**. Heartbeats can be used to determine the health of the WIN-911 connection to InTouch Edge HMI.
- SMS and Email modules now accept operator commands in all nine supported languages regardless of the selected UI language.

Additional Changes

System-wide Changes

- Added support for Windows 10 version 1909 (NOTE: TAPI is not supported by 1909).
- Updated Role/Schedule utilities for WIN-911 Version 4.x.

Dispatcher Module

- Improved cleanup of faulted connections with Contacts Utility.
- Added more diagnostic logging and improved logging safety.

WIN-911 Installer

- Now distributing CodeMeter version 6.90.3700.502.
- Added Chinese and Taiwanese OS edition labels to Install Launcher check.
- Corrected Install Launcher check for Enterprise edition of multiple Operating Systems.

SMS Notifier Module

- The SMS module now accepts operator commands in all nine supported languages regardless of the selected UI language.

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- The translation was corrected for Reports in Italian.
- The Test button in the configuration workspace now terminates pending tests against misconfigurations.

Email Notifier Module

- The Email module now accepts operator commands in all nine supported languages regardless of the selected UI language.
- Email format previews now correctly display newly created HTML formats within the same browser session.
- Email HTML previews are now hidden when displaying child dialogs on the workspace to prevent overlap.
- Text formats now previewed with a fixed-width font.
- Improved performance of Connections with Roles which could cause an issue with the display of Connections in Tactics.
- Corrected a false positive on Gateway tests, which occurred in the scenario where the server requires authentication and the user previously saved the authentication requirements but then unchecked the option to use authentication.
- Improved error display in Plain Text Long Vertical Report format and HTML report formats.
- Command parsing improved for reports with "REPORT" in their name.
- Improved command error responses.
- Occurrences of passwords returned in email server error responses now hidden when testing Incoming server.
- Email commands for Spanish improved.
- Email commands for Arabic improved.

Voice Notifier Module

- Voice Gateway test message now repeats three times with one-second delays between repeats.
- Improved performance of Connections with Roles, which could cause an issue with the display of Connections in Tactics.

WIN-911 Mobile Notifier Module

- Improved validation on Connection workspace.

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- Gateway Management URL defaulted.

Mobile-911 Notifier Module

- Improved performance of Connections with Roles, which could cause an issue with the display of Connections in Tactics.

iFIX Source Module

- The iFIX WPF runtime application can now continue running after iFIX shutdown or crash, allowing defined Watchdogs to alarm but requiring manual intervention to restart.

InTouch Source Module

- Implemented multi-delete for tags to InTouch source and improved tag list performance.
- Watchdog tags are now appropriately ignored by all Subscriptions.
- Using the GUI with the runtime stopped will no longer output periodic error messages to event logs.
- Corrected a UI display issue that incorrectly displayed alarms as triggers for the Default Strategy for analog tags with disabled conditions.

InTouch Edge HMI Source Module

- Cosmetic corrections to the Import and Alarm Details workspaces.
- Keyboard navigation for the Projects workspace has been improved.
- Fixed a broken navigation button from Imports to Projects.
- When defining multiple alarms for the same tag, duplicate alarm names that were edited would still be reported as duplicates. This has been corrected.

Contacts Utility

- Missing custom event log registry setup was added to the Contacts Utility install.
- Correction for config file issue that presented GUIDs instead of Connection names in the Basic Tactic editor UI.
- Added Windows Server 2012 to the supported OS list.



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Product Release: 4.19.17

Release Date: 2019-10-01

Release Highlights

- **Introducing WIN-911 Mobile!** An all-new alarm notification platform for Android and iOS smartphones and tablets.
- **Introducing the WIN-911 Contacts Utility!** A standalone desktop application for editing Contact details and Callout Lists. The utility can be launched directly from an HMI screen preventing the need for full access to the WIN-911 Configuration.
- **Added support for Distributed installations.** This allows source and notifier modules to be distributed across the local network.
- **Added UI Language Switching and Language selection during the installation.**

Additional Changes

System-wide Changes

- Added support for Windows 10 version 1903 (NOTE: Currently Windows 10 1903 does not support TAPI. Microsoft may address this in a future update. Please use WIN-911/IPPBX as a TAPI alternative provided by WIN-911).
- Now targeting .NET Framework 4.8
- Improved translation for Chinese, French, and Spanish languages; updated translations for Arabic, German, Hebrew, Italian, and Portuguese.
- Improved performance for Dispatcher through intelligent caching, reducing network activity and CPU usage during alarm bursts.
- Improved performance of Source modules when not utilizing filters - imports ~2x faster and edits against large block sets up to 12x faster.
- Improved performance of license enforcement and reduced frequency of license logging.
- Corrected an issue which removed occurrences of "a:" within alarm messages across all notifiers.
- Event logging de-localized.
- Added the ability to assign specific Event IDs to events in Windows Event Viewer.
- All localized Notifier formats are now stored in the configuration database to facilitate language switching.

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- Defined 'Strategies' on 'Subscription Routes' are now alphabetized for easier selection

Dispatcher Module

- Updated Advanced Tactic workspace for smoother drawing and corrected drawing issues that could result in the workspace becoming blank.
- Schedule evaluation now cached for improved performance on subsequent notifications.
- Connection details now cached for improved performance and reduced network traffic.
- Eliminated object hash from notifier calls.

WIN-911 Log Viewer

- Corrected an issue which caused current selection to become lost upon automatic refresh in Tactic Details.
- Corrected an issue which precluded the logging of success/failure of renotify-based notifications for multiple Connections.
- Improved and unified logging during Standby Mode.
- Localized Log Viewer UI.
- UI was restyled.

Navigation Module

- UI language can now be switched through the System Info workspace (requires reboot).
- Notifier workspace menu reorganized by object type rather than notifier type.
- Improved layout of Navigation pages for better localization.
- Workspace UI was restyled.

WIN-911 Installer

- Installer now supports Distributed logical systems, allowing users to install WIN-911 modules across computers.
- Default UI language for all users can now be set during installation (and can be modified through the System Info workspace).
- Improved detection of IIS Windows Features on some versions of Windows 10.

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Endpoint Mapper

- Local search accuracy improved.
- Network search optimized.
- UI was restyled.

SMS Notifier Module

- Added optional ["InitModemDelaySeconds"] to Runtime App Settings to increase compatibility with unsupported modems.

Voice Notifier Module

- Upgraded VoIP components for increased SIP compatibility, improved audio quality, and improved error handling.

iFIX Source Module

- Improved performance of block deletion ~2.5x faster
- Improved performance of large block sets.

CIMPLICITY Source Module

- Added support for mixed case passwords.

Service Pack Release: Voice 3.19.9 SP1

Release Date: 2019-07-19

Release Highlights

- Adds support for Grandstream UCM6202 VoIP PBX.

Service Pack Release: iFIX 3.19.9 SP1

Release Date: 2019-06-27



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Release Highlights

- Added impersonated writes to the WIN-911 Heartbeat Tag, allowing users to assign the heartbeat tag to a security area to prohibit unauthorized writes.
- Removed the call to iFIX Security Logout upon WIN-911 iFIX Runtime shutdown. Since shutdown typically occurs with iFIX shutdown.

Product Release: 3.19.9

Release Date: 2019-05-28

Release Highlights

- Added support for Microsoft Windows Server 2019.
- Added support for CIMPLICITY 10.
- Added support for InTouch Edge HMI 8.1 SP4.
- Added support for InduSoft Web Studio 8.1 SP4
- Added support for FactoryTalk View 11
- Added support for Events and Event Filtering in FactoryTalk View 11.
- Eliminated Voice mailbox; messages are no longer saved or savable.
- Voice allows Acknowledgements during playback.

Additional Changes

iFIX Source Module

- Improved behavior for iFIX security and login sessions. WIN-911 no longer logs in to iFIX at startup. Instead, WIN-911 performs impersonated writes upon acknowledgement to avoid conflict with any active login.
- Alphabetized the Strategies in the Subscription routes list.

V7 Importer

- Updated to support latest FactoryTalk View A&E changes.
- Now imports FTAE 'Application' and Username/Password if more than one Source is defined.

WIN-911 Installer

- Updated CodeMeter to version 6.81.3477.500.

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- Now prevents use of 'localhost' as syntax for username.
- Source Version selection is now maintained when the 'Back' button is used from the Notification selection dialog.
- Implemented source version selection storage for iFIX, InTouch Edge HMI and CIMPLICITY for future upgrade defaults.
- Corrected an issue that caused the Module installs to fail when a password containing a space character was used.

Product Release: 3.19.5

Release Date: 2019-03-26

Release Highlights

- Added support for Microsoft Windows 10 version 1809.
- Improved V7 Importer.
- Added support for filtering on Groups in FactoryTalk A&E Subscriptions.
- Introducing new Role Utility and Schedule Utility.
- Added support for Wonderware System Platform 2017 Update 3.
- Added support for Wonderware InTouch 2017 Update 3.
- Added support for InTouch Edge HMI 8.1 + SP3.
- Added support for InduSoft Web Studio HMI 8.1, 8.1+SP1, and 8.1+SP3.
- InTouch ME Source has been rebranded to InTouch Edge HMI. InTouch ME 8.1 and 8.1 + SP1 remain supported under new branding.

Additional Changes

Dispatcher Module

- Corrected a UI issue observed by double-clicking Role names from the Basic Tactics workspace | the callout entry list. This field appeared editable even though it is not.
- Corrected an issue with Notification Events, other than the initial event, not including assigned Label details (colors and text).

Navigation Module

- Corrected context sensitive Help links for FTAE and Mobile-911.

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Log Viewer

- The 'Ack Selected' button is now only enabled when an alarm is selected.
- Log Viewer memory usage has been improved to provide greater process endurance.

FactoryTalk Source Module

- Improved Runtime response time when changes are made to Labels associated with Subscriptions.
- Optimized performance of Subscription Routes UI.
- Corrected a UI issue that would sometimes cause a Route's Filter to appear empty.
- Alphabetized the Strategies in the Subscription routes list.

InTouch Source Module

- Optimized the module Runtime service.
- Alphabetized the Strategies in the Subscription routes list.
- Now using the local time for timestamps instead of Wonderware server timestamps for Watchdogs.

InTouch Edge HMI Source Module

- Alphabetized the Strategies in the Subscription routes list.

System Platform Source Module

- Alphabetized the Strategies in the Subscription routes list.
- Correct an issue which prevented acknowledgments from Mobile-911 Connections when Galaxy was configured for "Append Alarm Comment with Ack Message".
- Now using the local time for timestamps instead of Wonderware server timestamps for Watchdogs.

OPC Source Module

- OPC Server Faults:
 - 1073442810 (0xc0049006, Server shut down)
 - 2147023174 (0x800706ba, RPC Service unavailable)
 - 2147467259 (0x80004005, Unspecified error)

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are now treated as recoverable and will no longer result in disabling of level alarm conditions.

Email Notifier Module

- Corrected an issue that caused Source Names to be missing from some Items in HTML Reports.

SMS Notifier Module

- Removed unused Role details from generalized Connection objects which were found to be problematic during alarm bursts.
- Increased a hardcoded serial port delay (by milliseconds) to prevent +CMS ERROR: 111, which was observed during alarm bursts.
- AT+GMM command errors no longer prevent initialization.

Mobile-911 Notifier Module

- Corrected a UI issue which failed to update the displayed Description when a new Connection object was selected.

WIN-911 Installer

- Corrected an issue that caused some OPC DA prerequisites not to be installed.

V7 Importer

- System Health Pokes for InTouch and iFIX sources are now imported as Heartbeats.
- Watchdogs defined with a zero (0) update are no longer imported since this functionality is provided by Health Alarm.
- Corrected an issue which prevented the import of multiple Dynamic Tags on the same FTAE Source.
- Corrected an issue which prevented the import of the correct severity range for FTAE Dynamic Tags.
- Corrected an issue which caused Class and Name criteria containing '*' in FTAE Dynamic Tags to be imported as only '*'.
- OPC DA Reports now import correctly
- Corrected an issue that caused invalid Format associations for Email, SMS, Voice and Mobile-911.



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Product Release: 3.18.17

Release Date: 2018-10-31

Release Highlights

- Added support for iFIX 6.0 which includes support for long tag names and long descriptions.
- The iFIX Data Source now provides a Heartbeat which writes an incremental value to an iFIX tag. Heartbeats can be used to determine the health of the WIN-911 connection to iFIX.

Additional Changes

System Platform Source Module

- Added new Ack options to allow preservation of alarm comment.

Dispatcher Module

- Corrected an issue caused by a license check, which resulted in the 'Default' Strategy being used instead of the configured Strategy.

SMS Notifier Module

- Change the CNMI initialization string from CNMI=2,1,0,0,0 to CNMI=2,1 to improve compatibility with unrecognized modems.
- Corrected a UI display issue that incorrectly displayed the description of previously selected Connections.
- Improved response to unlicensed Report request.
- Corrected preview of newly saved formats.

Voice Notifier Module

- Corrected an issue introduced in 3.18.11 that prevented a valid Connection from being able to enter their authorization code on inbound calls.
- Defaulting 'SIP Port' to 5060, instead of 5700, for new VoIP Gateways.
- Removed 'IP Address' field on VoIP Gateways when 'NAT' selection is set to 'Auto'.



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Product Release: 3.18.14

Release Date: 2018-08-22

Release Highlights

- The InTouch Data Source now provides a Heartbeat which writes an incremental value to an InTouch tag. Heartbeats can be used to determine the health of the WIN-911 connection to Wonderware InTouch.
- The System Platform Data Source now provides a Heartbeat which writes an incremental value to a System Platform attribute. Heartbeats can be used to determine the health of the WIN-911 connection to Wonderware System Platform.

Additional Changes

InTouch Source Module

- Added validation for the Watchdog tag name.
- Corrected an issue that allowed duplicate alarm Labels to be assigned to a single tag during an import.
- Corrected behavior of Up and Down buttons on the Subscription Routes workspace.
- Improved performance of Subscription Routes re-ordering.
- The Application workspace now allows for separate Node Names for the Alarm Query and SuiteLink connections.

Dispatcher Module

- Restarted Tactics are now logged in the WIN-911 Log Viewer under the Tactic Execution tab.
- Added 'Utilizer' tab for Advanced Tactics.
- Connection Name changes now dynamically update for Basic Tactics in the GUI.
- Corrected text for failed ack attempts to exclude "Dispatcher returned: System.ArgumentException:".
- Connections are no longer selectable in Basic Tactics while in "view" or "non-edit" mode.
- Dropdown sizing for Timespan Decision block has been adjusted.

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- Corrected issue where Timespan Decision block was not retaining previous setting.
- Corrected an issue that would generate an “Inner Exception: null” error when thousands of active alarms would occur from multiple InTouch data source connections.

Installer

- Improved logging to include a “session completed and installer exiting” final message.
- Installer will no longer attempt to activate module services that have been removed.
- The “SelectedModules” list saved to the registry is now cleaned and kept in sync with the currently installed modules.

Product Release: 3.18.11

Release Date: 2018-07-10

Release Highlights

- Added support for Wonderware InTouch 2017 Update 1 and Update 2
- Added support for Wonderware System Platform 2017 Update 1 and Update 2
- Wonderware InTouch Source now supports running as a Windows services or an application
- Wonderware System Platform now supports running as a Windows service
- Added support for MTC-LAT1/MTR-LAT1 LTE modems for AT&T
- Added support for FactoryTalk View 10
- FactoryTalk A&E Source now supports language selection for choosing the right alarm message field.

Additional Changes

InTouch Source Module

- The ‘Add All’ and ‘Remove All’ buttons on the Import workspace now honor filtering.
- InTouch Subscriptions now appear as Strategy Triggers.
- Active Time is no longer reset upon Acknowledgement.

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- WIN-911 User is now retained as the InTouch Actor, instead of "ComputerName\None".

InTouch ME Source Module

- Corrected an issue that prevented the user from copying Subscriptions with Labels.
- Corrected references to FTAE in install source that caused FTAE files to be removed when InTouch ME was uninstalled.

System Platform Source Module

- Corrected an issue that prevented the user from copying Subscriptions with Labels.
- Improved default Watchdog description.
- The order of the entry fields for 'Alarm Description' and 'Condition Description' on the alarm definition workspace was changed to be consistent with the System Platform UI.
- When the System Platform User credentials are tested and fail, the attempted password is now removed from any error response.

FactoryTalk Source Module

- Source Runtime now invalidates previous alarms upon restart to clear the WIN-911 system of events.
- WIN-911 now ignores additional RnaAlarmMux alarms.
- Corrected an issue that prevented the user from copying Subscriptions with Labels.
- WIN-911 User is now retained as the FTAE Actor, instead of "ComputerName\None".
- Deletion of a watchdog definition in the configuration is now propagated to the runtime so that the previous definition does not create an alarm.

iFIX Source Module

- Import workspace now supports sorting and filtering on priorities.
- Deletion of a watchdog definition in the configuration is now propagated to the runtime so that the previous definition does not create an alarm.
- Improved compatibility with Polish localized iFIX.

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Voice Notification Module

- Corrected an issue with multiple VOIP channels which resulted in call attempts from one channel to a connection already in a call with another channel.
- Corrected an issue which delayed for up to 10 minutes the subsequent call outs to those Connections which had experienced certain call failures in the previous 10 minutes.
- Optimized call termination when voice calls are unexpectedly dropped or hung up after entering an access code.
- Corrected an issue which could cause call outs to Interactive Connections to fail authorization whenever such calls followed a call out to a Non-Interactive Connection without any delay between the two Connections.
- Notification success is now being reported whenever the user makes an action via key press avoiding an issue where notification status was not being updated after unexpected call drop or hang up.

Email Notification Module

- Outbound Gateway Test will prevent the user from sending a test message to the SMTP Gateway Server Email Address, presenting an error message to the user.
- Cosmetic Improvements to Email Gateway UI, including Gateway Test dialog.
- Improved ease of configuration when server credentials and email address match.

Dispatcher Module

- Now suppressing Strategy Policies with "Alarm Becomes Unacknowledged" as a trigger upon initial events.
- Removed extraneous error logging.

Install Launcher

- Improved automatic enabling of Windows Features and associated error handling.

Installer

- Improved automatic enabling of Windows Features and associated error handling.

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- Added a method to stop the FTAE runtime service before an upgrade of FTAE is launched.
- Added a method to kill the FTAE runtime service process if an attempt to stop it has failed.
- Changed the order for the source module installs when InTouch ME is being installed to compensate for earlier InTouch ME module release versions.

Product Release: 3.18.7

Release Date: 2018-05-01

Release Highlights

- New Data Source Support! - Wonderware InTouch ME 8.1
- New Data Source Support! - Wonderware System Platform 2017
- Shipping SQL Server Express 2014 SP2

Additional Changes

Email Notification Module

- Welcome messages sent to Email Connections will now execute in the absence of incoming email server settings.

Dispatcher Module

- Advanced Tactics saved during a Demo license can now be deleted via the Workspaces UI after a Standard or Interactive license is applied to the system.
- Corrected an ordering issue when displaying Connections in Basic Tactics.
- Reduced runtime memory usage for systems with frequent alarm activity.
- Enhanced diagnostic logging for Basic Tactics.

Install Launcher

- Improved Environment item 'HTTP binding not Port 80' detection and improved reporting when IIS Services are not running.

Installer

- Corrected an issue where unexpected Unicode characters are prepended to config files in some non-English US locales.



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Product Release: 3.18.5

Release Date: 2018-03-21

Release Highlights

- Added support for InTouch in Terminal Services
 - Correct an issue that caused acknowledgements to fail if an instance of WindowViewer was not running in the console session.
- Added support for Microsoft SQL Server 2017
- Added support for Verizon LTE modems, Multi-Tech MTC-LVW2 and MTR-LVW2
- FactoryTalk Alarms and Events Source Subscription behavior changed.
 - New Behavior:
 - Subscription matches if all Filter Categories match – Names, Classes, Severity. (AND)
 - Class & Name filters are considered a match if any defined criteria are satisfied – Wildcard, RegEx, Contains, NotContains. (OR)
 - Old Behavior:
 - Subscription matches if all Filter Categories match – Names, Classes, Severity. (AND)
 - Class and Name filters are considered a match if any RegEx/Wildcard criteria are satisfied (OR), unless a Contains/NotContains criteria are defined.
 - If Contains/NotContains criteria are defined for Class or Name filters, RegEx/Wildcards are ignored, and any Contains/Not Contains criteria satisfied will determine if Name or Class filters are a match. (OR)
- InTouch Source Subscription behavior changed.
 - New Behavior:
 - Subscription matches if all Filter Categories match – Tagnames, Groups, Priority. (AND)
 - Tagname & Group filters are considered a match if all defined criteria are satisfied – Wildcard, RegEx, Contains, NotContains. (OR)
 - Old Behavior:

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- Subscription matches if all Filter Categories match – Tagnames, Groups, Priority. (AND)
- Tagname and Group filters are considered a match if any Contains/NotContains criteria are satisfied (OR), unless RegEx/Wildcard criteria are defined.
- If RegEx/Wildcard criteria are defined for Tagname or Group filters, all RegEx/Wildcard criteria must be satisfied to match the Tagname and Group filter. (AND)
- System Platform Source Subscription behavior changed.
 - New Behavior:
 - Subscription matches if all Filter Categories match – Objects/Attributes, Areas, Priorities. (AND)
 - Object/Attribute and Area filters are considered a match if all defined criteria are satisfied – Wildcard, RegEx, Contains, NotContains. (OR)
 - Old Behavior:
 - Subscription matches if all Filter Categories match – Objects/Attributes, Areas, Priorities. (AND)
 - Object/Attribute and Area filters are considered a match if any Contains/NotContains criteria are satisfied (OR), unless RegEx/Wildcard criteria are defined.
 - If RegEx/Wildcard criteria are defined for Object/Attribute or Area filters, all RegEx/Wildcard criteria must be satisfied to match the Tagname and Group filter. (AND)

Additional Changes

FactoryTalk Source Module

- Corrected an issue that prevented the use of specific severity values for Subscription Filters.

InTouch Source Module

- Added error handling for an issue caused by the shutdown of a remote WindowViewer session.
- Improved handling of unreachable nodes that could present unhandled exceptions on initialization.
- Severity Ranges now allow the minimum and maximum values to be the same.
- Cosmetic Improvements to Runtime Tray Icon.

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Email Notification Module

- Gateway Test now prompts for an email address. Corrected an issue that caused the Gateway email account to receive a message saying your message was not delivered to me@mail.com because the address could not be found or is unable to receive mail.
- Corrected an issue that prevented users from acknowledging alarms when using 'Email to SMS'. Users were required to copy/paste the ticket number delimiter (|) that is used in standard Email alarm messages.

Reporting Module

- Improved formats of text-based reports with unavailable items or items that have been deleted.

Install Launcher

- Now digitally signed with a security certificate.

Installer

- Now distributes the newest CodeMeter Control Center version 6.60.2878.501. WIN-911 upgrades will also upgrade the existing CodeMeter Control Center.

IIS Application Servers

- Increased local HTTP Header limit to ensure successful security negotiation for enterprises with large active directory groups.
- Turned off Idle Timeout and Application Pool Recycling (Mobile, Navigation, and Dispatcher modules) to optimize caching and availability.

Navigation Module

- Now adds a new certificate to the Local Store to correct for a localization issue with Email templates.

WIN-911 Log Viewer Module

- Cosmetic improvements included: changing 'Ack a Page' button text to 'Ack Page' and removed 'View Alarm Details' option when in Notifications view.



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Product Release: 3.18.2

Release Date: 2018-02-05

Release Highlights

- New Data Source Support! - Wonderware InTouch 2017
- New Product Release! - WIN-911 V7 Configuration Importer
 - Utility used to migrate most data from WIN-911 Version 7 to WIN-911/Standard, Interactive and Advanced. Support data includes: Contacts, Groups, supported notification methods, and supported data sources.
- **Dispatcher Module**
 - Renotify on any state change can now be disabled on Basic Strategies.
 - Automatic Acknowledgement can now be configured on Basic and Advanced Strategies without utilizing Advanced Tactics.
 - Corrected an issue that caused a new Strategy to start even though the initial event matched a Stop Strategy policy.
 - Corrected an issue that caused Schedules to incorrectly on or off duty due to unique combination of the start day and multi-week recurrence intervals.
- **Voice Notifier Module**
 - Voice will automatically recover when a TAPI modem is disconnected and then reconnected to the system.
 - Voice will automatically recover from a lost TAPI modem connection due to a failed outbound call.
 - Corrected an issue that caused configured VOIP prefixes to be ignored.
 - Corrected an issue that caused Voice Gateway single codec setting to be ignored.
 - Added "Auto Nat" discovery enable for VOIP.
 - VOIP is now streamed in audio instead of audio & video, which caused a problem for some VOIP servers only allowing audio calls.
- **Email Notifier Module**
 - Corrected an issue which prevented acknowledgements with password using HTML formatted emails. This issue effected some mail servers, including MS Exchange 2016.
 - Corrected an issue which prevented the relaying of an ack comment without an acknowledgement password using HTML formatted emails. This issue only effected some mail servers, including MS Exchange 2016.

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- Corrected an issue that caused HTML formatting to fail when installed in one of the 9 language supported operating systems.
- SSL option can be configured to allow for email servers that are using invalid and expired certificates.
- Tag names that contain 3 or more consecutive numeric characters in their name will no longer be misinterpreted as the ticket number associated with an incoming Ack email.
- The 'Test Incoming Server Settings' and Password button cosmetic issue has been corrected.
- **iFIX Source Module**
 - Improved internal method for Acknowledgements so acks for foreign languages will always work.
 - Improved usability of node list selection control.
 - Correct an issue that with localized date & time formats that caused new alarm lifetime IDs to be generated, resulting in duplicate alarm events in the Log Viewer.
 - 'No Data' events will be treated as COMM alarms.
 - Removed unnecessary dialog asking to shut down the WPF runtime application during uninstalls, so that upgrades will run smoothly.
 - Corrected an issue that caused the selected Strategy during Block imports to revert to the default after additional selecting and adding additional Blocks.
 - Priorities column for sorting added to Block import.
 - Runtime now updates Inactive and Unacknowledged alarms when created just like at startup.
- **WIN-911 Log Viewer**
 - Users can now hide all controls and disable the ability to Acknowledge an alarm from within the Log Viewer application.
 - Labels are now presented for alarms in the Log Viewer.

Additional Changes

Dispatcher Module

- Decision Block true false outputs now color coded.
- Corrected an issue which prevented multi-delete of Advanced Tactics.
- New Built-in Basic Strategy for Automatic Acknowledgement without notification.
- Corrected an issue that allowed a 'Save' attempt without a name defined for the Advanced Strategy.

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Install Launcher

- Windows editions containing “Embedded” in their name will no longer be accepted as a valid install target.
- Windows editions containing Chinese characters for “Pro” are now supported.
- When CodeMeter version 2.51 or 2.51b are detected on the target system the Launcher will now refuse to continue the install unless CodeMeter is upgraded to version 6.20 or newer.

Installer

- Modified service startup order for SQL instances created by the installer to ensure smoother start up with less potential to log first pass failures.
- Improved SQL Server Input Step to make selection of unnamed SQL instances easier.
- The SMS Module install will detect if there are any startup or shutdown scripts defined for the local Group Policies. If the system is virgin it will attempt to setup a shutdown of the SMS runtime service to take place when the system is shutdown or restarted. Information about the install setup will be contained in the SMS Module install log file. This will ensure the connection with a Ethernet/IP cellular modem is properly disconnected when the WIN-911 computer is shutdown.
- The Email Module install will now add a new certificate to the local store and make the required edits to the registry to support Connection HTML format previews for Chinese.

FactoryTalk Source Module

- Corrected an issue that caused exceptions at startup when the ‘Contains’ filter on ‘Alarm Class’ is defined.
- Subscription behavior adjusted for how Class and Name filters match multiple criteria defined.

OPC Source Module

- Editing an existing Server Class name for an OPC DA source can now be saved.

iFIX Source Module

- Runtime application no longer allows multiple copies to run.
- Runtime tray icon now has a tooltip that contains version.
- Runtime window text updated without reference to “Enterprise”.

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- Watchdog definition no longer allows invalid values to be entered.
- Corrected cosmetic issues for Block workspace.
- Improved error message generated when iFIX is using security and WIN-911 is not.

InTouch Source Module

- Subscription behavior adjusted for how Group and Tagname filters match multiple criteria defined.

System Platform Source Module

- Subscription behavior adjusted for how Area and Object/Attribute filters match multiple criteria defined.

SMS Notifier Module

- A new setting in the SMS Gateway will allow you to limit maximum text message length to 70 characters.

Email Notifier Module

- Improved UI for SMTP servers not using authentication.
- The default Email Report format has been changed to 'HTML'.
- Corrected an issue that caused the edit mode Outbound Gateway test to fail.
- Corrected formatting errors in the 'Plain Text Long Vertical Report' format template.
- Cosmetic issues with 'Test Incoming Server Settings' and 'Password' button have been corrected.

Voice Notifier Module

- Improved TAPI modem disconnect/reconnect logging.
- Voice no longer returns an empty list of Reports
- Prevented the excessive Event Viewer logging that was produced when a TAPI modem was removed.
- Additional information logging was added for VOIP.
- Selected TAPI modem name now saves correctly.
- Relabeled RTP ports definition for minimum and maximum and set controls for new defaults.
- Voice previews in Gateway and Connections now available.
- Maximum time for looped audio request for input were shortened to help Voice connections get serviced faster.

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- New Voice formats defined for connections will now present their preview when not in edit mode.
- Voice now reports a failed call if the line is not answered or no code is entered.

Workspace

- The WIN-911 GUI for all workspaces now supports Chinese character input.

Product Release: 3.17.17

Release Date: 2017-09-20

Release Highlights

- Added support for Microsoft Windows Server 2016 Standard and Data Editions
- iFIX Source Module
 - Official support for GE Digital iFIX 5.9
- WIN-911 Log Viewer
 - Added a Notifications view to provide a single timeline for tracing alarm events and their notifications
- Email Notifier Module
 - Extended support for server configurations not using authentication
 - Improved handling of incoming invalid messages
 - Corrected a localization issue with IMAP which prevented inbound email functionality in many non-English cultures
- OPC-DA Source Module
 - Corrected an issue which prevented activation or inactivation of Quality alarms
 - Certified automatic reconnection against Citect, ClearSCADA, FS Gateway, and KepServer OPC Servers
 - Configuration changes to Condition Descriptions and Labels now take effect immediately

Additional Changes

WIN-911 Log Viewer

- SQL accessibility issues now provide the user with a descriptive message

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- Corrected an issue which caused the Log Viewer to become unresponsive when left running for long durations
- Added an Ack Page button
- Improved default layout of several tabs
- Added item count to all main views
- Corrected an issue which prevented multiple selection
- Log Database name made unique to support multiple WIN-911 systems sharing the same SQL server
- Localized Alarm State descriptions
- Localized grid grouping header
- Corrected right-to-left layout for Arabic and Hebrew cultures

Dispatcher Module

- Corrected an issue which could cause an additional block to execute after stopping an advanced tactic
- Corrected an issue which could cause Dispatcher to wait unnecessarily for timeout on synchronous notification attempts when notifiers reported failures immediately
- Corrected an issue with advanced tactics which prevented modification of the associated connection in copied notification blocks
- Improved memory usage for asynchronous notification
- Improved layout of Strategy workspaces

SMS Notifier Module

- Improved response time for failed gateway tests
- Runtime no longer removes the "+" character from the country code

Navigation Module

- Improved error dialog for unmapped systems
- Rebranded configuration UI as "WIN-911 Workspace"
- Configuration UI shortcut now opens in Internet Explorer instead of default browser

Product Release: 3.17.14

Release Date: 2017-08-07

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Release Highlights

- **Improved Voice Notification Behavior**
 - Acknowledgement events are no longer dispatched to Voice Connections that are named as the actor of the acknowledgment
 - Individual Strategies now provide the option to suppress Re-Notify of all Voice Connections for inactive and/or acknowledged events, allowing WIN-911 v7 TAPI behavior without impacting other Notifier types
- **Streamlined Installation**
 - Reduced installation time for prerequisites and Dispatcher
- **Extended System Platform Support**
 - Added support for Wonderware System Platform 2012 R2 SP1
 - Added support for Wonderware Patch 02 for System Platform 2014R2
- **WIN-911 Log Viewer**
 - Underlying data store changed from LocalDB to SQL Server to improve performance and prevent upgrade issues
 - Fixed a cross threading issue which could prevent automatic refreshes in live mode

Additional Changes

Dispatcher Module

- No longer able to sort Connections in Basic Tactics, removing confusion resulting from the callout order not matching the displayed sort order
- Now displaying busy animation while fetching Connections in Basic Tactic workspace
- Deleted Connections no longer remain in unsaved Tactics upon return to the Tactic workspace
- Improved the readability and display of long descriptions for Advanced Tactics
- Corrected a UI problem which sometimes prevented the Delay Between Retries controls to become stuck in disabled mode
- Improved memory usage of runtime

Install Launcher

- Added additional icon resources to ensure that icon always appears in Windows taskbar
- Now validating amount of RAM

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Installer

- Corrected an issue during Source module selection which could curtail the display of all validation warning messages when multiple sources were selected for install
- Improved the text displayed upon encountering MS Install Engine error 1618 to suggest that users wait for another installation to complete
- Improved instructions for module selection
- Improved instructions for SQL selection
- Improved instructions for user selection
- Added a warning to inform users of the need to install the Mobile-911 Server product whenever the Mobile-911 module is selected for install

iFIX Source Module

- Improved detection of disabled blocks

InTouch Source Module

- Corrected a thread safety issue which could potentially cause alarm lifetimes not to be expired upon multiple concurrent termination events
- Changes to Subscriptions are now treated the same as changes to Routes and force a resync to avoid runtime behavior not matching expectations
- Relaxed Server validation to allow support for remote servers in a Terminal Services environment
- Now logging Suitelink Suspend and Resume messages as warnings rather than errors

System Platform Source Module

- Relaxed Server validation to allow support for remote servers in a Terminal Services environment
- Improved validation error message text

WIN-911 Log Viewer

- Corrected an issue which prevented the display of events for alarm point names exceeding 127 characters
- Changed log source value for Windows Event Viewer logging by this utility



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Product Release: 3.17.12

Release Date: 2017-07-10

Release Highlights

- Wonderware System Platform Source Module (version 2014 R2)
- Improved Main Installer
 - Updated InstallShield to correct an access violation issue causing it to fail to extract all prerequisites for installation in Windows 7 and Server 2008 R2
 - Now delivers the full user manual (PDF) with a shortcut
 - Improved Admin Group validation for Domain users in Windows 7 and Server 2008 R2 and 2012 R2
 - Added new warning messages about individual source module dependencies
 - Prevented 'DotNetCoCreateObject' failures when loading in the presence of older CodeMeter installations
 - Implemented robust invalid character syntax checking for user login definition
- Improved OPC DA Source Module
 - Certified FSGateway support
 - Alarm Condition Names now update dynamically
 - Correction for Report value timestamps
 - Improved Event Viewer logging with tag names

Additional Changes

Install Launcher

- Added logging, including report of version
- Added timeout to enable features logic to compensate for Windows 10 updates which cause IIS enable to fail to return
- Corrected Launcher behavior for failed SQL installs so it will not continue and launch the Main installer

Installer

- Improved cursor focus for user login password field
- Now reports Release version in logging
- Added a 'Show Password' checkbox for user credentials

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- Corrected unsupported Windows OS edition validation
- Improved Windows Authentication logging
- Improved wording for no Application Initialization detected and Windows Update service warning messages
- Added Release version information to GUI dialogs
- Added support for unnamed instances to SQL 'Browse' (shows only computer name)

OPC-DA Source Module

- Corrections for View mode (non-edit) cosmetics
- Cosmetic improvements to UI for Grouped Sources
- Correction to prevent more than one source defined for a Basic license

Module Mapper Application

- New GUI allows users to view networked Logical Systems
- The Mapper requests local URLs upon refresh to improve completeness of set
- Added localization for foreign cultures (Arabic, German, German Germany, Spanish, Spanish Spain, Spanish Mexico, French, French Canada, French France, Hebrew Israel, Italian Italy, Portuguese and Chinese Simplified)
- Added online help

EERemove Utility

- Added Logging
- Added System Platform Module

ServiceActivator Utility

- Improved user feedback including reporting version
- Added System Platform Module to set of requested URLs

AdminGroupTest Utility

- Added to distribution Support folder

Product Release: 3.17.5

Release Date: 2017-03-14



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Release Highlights

- Human Translations for Chinese, French, and Spanish.
- Navigation Module Improvements
 - New System Info Workspace allows users to view their Serial Number and edit their Support Code
- FactoryTalk Source Module Improvements
 - Replaced Filters with Subscriptions, which are reusable across multiple FactoryTalk Source objects.
 - Added "Contains/Does Not Contain" to filter types to complement Regex and Wildcard
 - Added support for multiple licensed Source objects
 - Corrected an issue which could cause terminal alarms to be passed to Dispatcher as new events
 - Corrected an issue which caused alarm events to be visible only in history mode after configuration changes
 - Corrected an issue which caused watchdog alarms to repeatedly activate with each connection attempt
- Dispatcher Module Improvements
 - Corrected validation of Strategies to prevent saving objects without a stop strategy policy
 - Corrected a localization issue which caused Strategy Policy Actions to not be visible in Chinese
- Voice Notifier Module
 - Corrected a race condition which could cause multiple concurrent call attempts to the same phone number when using VOIP with multiple channels
- InTouch Source Module
 - Corrected initialization failures and shutdown errors for configurations with only discrete tags
- Improved Installer
 - Application Initialization conflict with KB3125574 now detected and relayed to user
 - Improved SQL browse to prepopulate with value selected in a previous install or the recently installed SQL Express



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Additional Changes

Mobile-911 Notifier Module Improvements

- Minor improvements and changes for compatibility with future releases.
- Corrected an issue which would cause newly created formats not to preview correctly on the Connection workspace
- Improved Test Busy Indicator

Installer

- Improved prompt offering SQL Express installation
- Installer now requires entered WIN-911 User to be fully qualified to avoid ambiguity
- Improved module selection validation
- Next Button now disabled on WIN-911 User entry step while Password field is empty
- Improved SQL Installation failure handling
- Installer now handles Windows usernames with spaces
- Corrected an issue which could cause OPC to fail to start with an error indicating it was unable to load 'x86_OpcLabs.EasyOpcClassicRaw_5.21.101.1.dll'
- Provided busy indicator while enabling XPS viewer

FactoryTalk Source Module

- Updated navigation link icon
- Corrected a localization issue which caused the Test Connection button text to appear untranslated.
- Corrected an issue which caused the validation warning "The field Lower-Bound must be between 1 and 1000" to be displayed erroneously
- Corrected an issue which caused application changes not to be saved as expected

OPC-DA Source Module

- Corrected an issue in installer which could cause OPC to fail to start with an error indicating it was unable to load 'x86_OpcLabs.EasyOpcClassicRaw_5.21.101.1.dll'

Product Release: 3.16.23

Release Date: 2017-01-04

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Release Highlights

- **Improved Installer**
 - Windows features now enabled automatically
 - Improved SQL detection, with more flexibility
 - Improved performance for faster installs
 - More accurate environment validation ensures install stops immediately if OS or hardware is unsupported
 - Improved environment validation to communicate all aspects of environment which do not meet requirements
 - Streamlined launcher UI for faster installs and upgrades with fewer clicks
 - Application Initialization now installed to Windows 7 Enterprise
- **InTouch Source Module Improvements**
 - Corrected an issue which caused alarm items contained in reports to be incorrectly reported as inactive and acknowledged.
 - Corrected an issue which caused alarm requests from Mobile-911 to time out against InTouch.
 - Corrected an issue which affected the import of Analog tags – deviation and rate of change alarms now honor the strategy specified in the Import UI.
 - Improved Dynamic Runtime handling of tag/filter deletion
 - Improved Dynamic Runtime handling of Imported tags
- **Dispatcher Module Improvements**
 - Corrected validation of Strategies to prevent saving objects without a stop strategy policy

Additional Changes

Installation Executable

- HTTP Activation no longer required feature in Windows 7 and Server 2008R2
- Improved error and warning messages
- Cosmetic improvements

Dispatcher Module Improvements

- Improved behavior of strategy execution during license violation

Navigation Module Improvements

- Help now context sensitive for the following workspaces:
 - System/Standby

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- Notification/Tactics/Basic
- Alarming/InTouch
- Contact/Email/Formats
- Contact/SMS/Formats
- Contact/Voice/Formats
- Contact/Mobile-911/Formats
- Improved Help for System workspaces

Product Release: 3.16.20

Release Date: 2016-11-14

Release Highlights

- WIN-911 now provides a direct connect Source module for Wonderware InTouch 10.1, 2012, 2012 R2, 2014, and 2014 R2.
 - Network Access to InTouch Application allows WIN 911 to be installed on a separate machine.
 - Access multiple InTouch Applications from a single WIN 911 system.
 - Subscription-based alarm eliminates need for import and maintenance of tag definitions.
 - Filter alarms based on Tagname, Group, and Priority.
 - Support for labels for advanced notification.
 - Share subscriptions across applications.
 - Support for all alarm types: Discrete, Level, Rate of Change, and Deviation.
 - Support for all data types: Analog, Discrete, and Message.
 - Support for Watchdog alarms on changing data or alarms.
 - Dynamic alarm details including descriptions, priority, and groups are configured only in SCADA.
 - Ack Requests forwarded to SCADA (Actor/Comment are WIN 911 only).
- **OPC Source Module Improvements:**
 - Added multi-delete to Tags workspace.
 - Import workspace now refreshes to reflect changes made to Server tag configuration.
- **SMS Notifier Module Improvements:**
 - Added login support for more secure communication with Ethernet modems.

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- Improved error logging and recovery for Ethernet modems.
- Corrected issue which caused gateway initialization to fail.

Additional Changes

Installation Executable

- Improved User Credential Validation to restrict invalid entries.
- Improved SQL Validation.
- Added support for remote SQL Server in workgroups.
- Added InTouch Source module installer.
- Corrected OPC Source module installer issue which left residual registry values upon uninstall.

OPC-DA Module

- Disabled multi-selection on host machine, server name, and item name browse dialogs.
- Corrected an issue which prevented quality alarms from being saved in Chinese localization.
- Corrected View-mode display of long Source descriptions.

Navigation Module

- Corrected identity of Runtime in Windows event viewer

Product Release: 3.16.15

Release Date: 2016-08-23

Release Highlights

- WIN-911 now supports hot backup with scripting
 - Standby/Activate/IsActive behavior matches v7 for easy porting of existing scripts.

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- Previous Activate behavior preserved as new "Reset" option
- Voice now reconnects in the event that a connection to your SIP server is lost
- Enhanced synchronization with iFIX data sources
- Improved default file and folder permissions for enhanced security
- Improved installation and setup documentation
- Localization Improvements

Additional Changes

Installation Executable

- Modification made to uninstall leftover objects in Windows 7 Pro
- Visual C++ 2015 redistributable no longer installed if compatible version is already present on system.
- Improved text for .NET Framework 3.5.1 requirement message.
- Improved "Read install Guide" message when no PDF reader exists.

Voice Module

- Corrected a serious issue preventing callout in user systems with more than 100 voice connections due to an SQL Query being too long.
- Modified TAPI modem discovery logic to prevent modem setting from becoming lost on change to COM port, server restart, server sleep, or virtual server reconfiguration.

OPC-DA Module

- Selection of multiple items no longer allowed in browsing for OPC server or host.

GE iFIX Data Source

- Corrected an issue in which edits to the iFIX block configuration while running resulted in orphaned alarm events.
- Watchdogs/Filters can be deleted in iFix without restarting WIN-911
- Dramatically improved speed of large imports.
- Clarified error message where "No nodes are defined on the iFIX runtime" was appearing.

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- FIX import workspace allows users to import from specific iFIX nodes rather than all nodes.
- Corrected a race condition which sometimes prevented blocks from appearing in the iFIX import workspace and made the refresh of this collection unreliable.
- Subscription filters now function with Chinese and Arabic (wide character) tag names.
- Correction made to prevent duplicated alarms from subscription filters
- Acknowledgement request for already acknowledged, non-terminal alarms will now be rejected by WIN-911.
- iFIX import warning clarified
- Improved visual styling of scrollbars in GUI.
- Improved control tooltips in GUI.

Dispatcher Module

- Selection of multiple items no longer allowed in child dialogs where a single item should be selected from a collection (e.g. single notification block of advanced tactics).
- Improved localization of Strategy and Tactics workspaces for non-English speakers.
- Corrected an issue which caused the save button to be incorrectly enabled on the Strategy workspace.

Log Viewer

- Data store access modified to allow writing to the log by different windows credential sets.
- Improved feedback when attempting acknowledgement.

SMS Module

- Corrected a race condition in the SMS module which could rarely cause module failure (unhandled null reference) upon startup, modem configuration changes, or GUI modem tests.

Email Module

- Default SSL port for IMAP changed to 993.

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- Improved localization of email interaction for non-English speakers.
- Modified included formats to better present report errors.

Reporting Module

- Improved error response when requesting non-existing report

Mobile-911 Module

- Improved control tooltips in GUI.

Product Release: 3.16.9

Release Date: 2016-06-06

Release Highlights

- **Improved Database Performance**
 - Improved workspace performance and load time for larger data sets, especially alarms and connections.
 - Improved runtime performance.
 - Improved database performance across all modules.
- **Added Custom Formats**
 - Added a user defined custom format definition workspace to all notification modules.
 - Customized notification templates are now available where company logos and alarm/report attributes can be added, reordered, or removed.
 - This functionality allows creation and/or edits using raw XSL for description and body for alarms and reports for all notification methods.
- **New Documentation**
 - User instructions for backing up, restoring and moving the configuration.
 - Source module alarm event mapping.
 - Quick Start Guide.
- **Windows 10 Support**
 - Enterprise now supports the latest version of Windows 10 OS
 - WIN-911/TAPI/USB modem not supported* (check website for future updates)

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- Localization for Other Languages
 - Enterprise now supports the following languages/cultures:
 - *English*
 - *Arabic*
 - *French*
 - *German*
 - *Italian*
 - *Chinese*
 - *Hebrew*
 - *Portuguese*
 - *Spanish*

Additional Changes

All Modules

- Updated Enterprise Install Environment
- Corrections and modifications that implement Application Pool thread safety at the core level and in each module.
- Save operations are now prohibited while other save operations are pending to ensure data integrity.
- Improved validation in GUI to better indicate which tab an invalidation error is occurring on.
- Optimized sizes of all child dialogs.

Installation Executable

- Modification made to include latest copy of CodeMeter licensing install in the Enterprise Support folder.
- Three new prerequisites were added to the main install to support the Log Viewer
- Improved database initialization logging.
- Install Upgrade: Change made to prohibit warning from showing up for FactoryTalk Alarm & Events without OPC-DA.
- Change ownership of WIN-911 log database to facilitate sharing as any user
- Fixed item to increase memory for WIN-911 Event Logger in applications and services
- Added message informing user that Windows user requires SQL system administration rights.
- Improvement made to installer to require entry of domain\username and prohibit user@domain syntax
- Reporting module is now installed by default.
- Improved installer guidance in Enterprise upgrades; user is now required to upgrade all installed modules when upgrading to a new major version.

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- Improved user validation in Enterprise Edition install.

Voice Module

- Voice gateway workspace; cancelation of initial edit no longer results in blank workspace.
- Corrected voice preview for Alarm Format under Contact -> Voice -> Connections, only the Microsoft voices and the WIN-911 English (US) voices were appearing in preview mode. All available premium voices are now able to be previewed under voice connections tab.
- VOIP requirement removed when using authentication.
- Prefix field added in the voice gateway settings.
- Voice during Verbalization of Report Items, previously by pressing digit 1 or 9 would return user to main menu. Change made to for return to main menu command by pressing 0.
- Added dialing prefix in Voice gateway settings.
- Fixed item that was causing reports to be omitted when certain reports numbers were requested.
- Voice module now utilizes SQL database to prevent redialing after a restart is executed. This will allow for improved functionality with Enterprise restarts.

Dispatcher Module

- Fixed item for a Basic Tactics where a delay was not disabled when Retries set to "0"
- Cosmetic fix made to long report names on advanced tactic screen.
- Fixed column widths on Basic Tactic Screen.
- Fixed item where numerous Dispatcher Logger warnings were showing up in Event Viewer.

Email Module

- Fix made to Email Diagnostic Alarm Format to prevent missing values.
- Fixed item in Email acknowledgement which sometimes prevented acknowledgement request.

Reporting Module

- Added tool tips to Reporting screen.

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Mobile-911 Module

- Fixed Format "Text Short Condition" fields to align properly.
- Fixed item in Mobile-911 where alarm format list was not auto refreshing upon request.

SMS Module

- Change made if an active SMS modem disappears from Enterprise GUI a notification failure will now be generated.

Log Viewer

- WIN-911 Log Viewer can now be executed under any local Windows user session.
- Dispatcher shutdown now logged to log viewer as strategy event.
- Modification made to include Strategy Name on strategy tab of Log Viewer.
- Log viewer will now show all failed acknowledged attempts in log database.
- Fixed item where active unacknowledged alarms were disappearing from Log Viewer window
- Fixed item in the Log Viewer where auto acknowledged alarms have no entry in the Acknowledgement tab.

OPC-DA Module

- OPC-DA: Remove Strategy Name from Condition Properties Entities.
- Improved functionality with multiple remote OPC-DA servers.
- OPCDA module: Alarms workspace was modified to allow search on items without alarm conditions.

GE iFIX Module

- Fixed item for queue read alarms, where Labels were not being shown.
- Checkbox added to ignore COMM Alarms from data source.
- Modification made for WIN-911 Priority Mappings for iFIX;
"1-1000" match iFIX definition of High to Low. If severity "1" is High, WIN-911 should see "1" as the highest priority.
- Field modifications made to prevent WCF errors from occurring in the Event Viewer.

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- iFIX Import Modification: Fixed item for Imported Blocks that were not showing until refresh was executed.
- iFIX Watchdog field added to explain the definition of a “watchdog” and how a “watchdog” is defined.
- Fixed item for GE iFIX setup where Import screen was not showing message about default strategy on a new install.
- Modification made to search bar to correct issue where search was staying populated when leaving and returning to import screen.
- Modification created to notify users about iFIX nodes not being detected.
- Modification created when loading screen stops during a large block import.
- Modification made to support mass deletion of Blocks.
- Fixed item to correct email format where limit operator was “>” and should have displayed “>”
- Modification made to fix Import screen from deactivating after navigating back to add a new Strategy.
- Improved content for “learn more” section.
- Improvements made to keep WIN-911 in sync with iFIX when blocks go in and out of scan.
- Modification change made to iFIX import workplace text.
- Correction made to prevent error when fetching available strategies; I.E. "Error fetching available strategies. The import cannot continue."
- Dispatcher will now allow labels to change over the lifetime of an alarm. This is especially useful for iFIX alarm Condition Labels e.g. COMM Alarms.
- Improved iFIX Alarm Import with large alarm databases/sets.
- Correction to stay in sync with iFIX if communication was lost and reconnect was made.
- Correction made to Watchdogs; made iFIX alarm lifetimes unique to improve logging.

GE CIMPLICITY Module

- Automatically refresh the project associated point workspace upon project delete.
- Added new CIMPLICITY Resource Filter and the ability to filter CIMPLICITY alarms on resource attribute
- CIMPLICITY Points now log invalidation on reconnect.

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Rockwell Automation FactoryTalk Alarm & Events Module

- Added checkbox to globally ignore COMM alarms.
- Modification made to fix a service crash with Watchdog & no class defined in watchdog.
- Made alarm lifetimes unique to improve logging for Watchdogs.
- Watchdog class field now required by Enterprise GUI. A watchdog without a class would have previously stopped the runtime.
- Fixed Item in where a watchdog strategy list was not refreshing.
- Fixed issue where FactoryTalk Alarm & Events digital alarms appeared to be orphaned in WIN-911 Log Viewer.
- Fixed item where "Seconds" was repeated for Watchdog alarms received via a voice notification with a TAPI modem and an analog phone line.
- Removed extraneous error logging.

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