



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: WIN-911 2021 R6

Version: 5.22.22

Release Date: 2022-11-15

Release Highlights

- Added the new Status module for diagnostic troubleshooting and WIN-911 system health monitoring.
- Advanced Notification Policies now support a new "Callout List" block type.
- Fixed an issue with Mobile reconnection logic regarding token expiration.
- Added "Value Match" alarm options to the new OPC Data Access module to support Legacy OPC DA imports.
- Install now supports unnamed instances for SQL servers.
- Added support for InTouch and System Platform version 2017 Update 3 SP1 P1 and version 2023 (2021 R5 and newer).
- Added support for Windows 11 22H2 (2021 R5 and newer).
- Added support for Windows 10 22H2.

Additional Changes

WIN-911 Install Launcher

- Modified presentation of icons for the 'Existing Modules' screen of distributed installs to match the new set used by the Status workspace.
- CodeMeter runtime service now restarts after installing Demo and Empty License Containers to enable 'Remove' button.
- Distributed installs now are not searching for modules by unqualified name when on the local computer.
- Install now detects existing SQL servers without 'WIN911' named instance and will now offer to add one to the local SQL server.
- Corrected an issue with module mapping at the end of distributed installs if systems resources are running low.

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Dispatcher Module

- Improved performance when editing Notification Policy names.
- Corrected an issue that caused Basic Callout List to continue while restarting a new instance of the list.

OPC Data Access Source Module

- Deleted items or alarms are removed from the Report's Item/Alarm selection.
- Floating point tags and Level alarms no longer allow bit picks.
- Corrected an issue that caused the first link of the *.CSV legacy imports to be skipped.
- Removed the duplicate warnings for a single value match definition.
- Removed multiple warnings for Boolean bit pick tags.
- Corrected an issue that caused an error exception when deleting a newly defined item.
- Corrected an issue that caused the Health alarm to activate for OPC UA servers that were slow to connect.

FTAE Source Module

- Corrected a bug that prevented acknowledgement of Watchdogs.

InTouch Source Module

- Corrected an issue that would cause the InTouch Runtime application to sometimes crash when subscriptions were modified and saved.

Mobile Notifier Module

- Mobile runtime service now caches report items for a maximum of 30 seconds instead of 5 minutes.

WIN-911 Announcer

- Corrected an issue that caused the Announcer application to crash after cancelling a change on the Subscription tab.
- Corrected an issue that caused changes to the 'Replay Interval' not to be saved. Specifically, when changing the value to "0".



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Mapper Utility

- Modified presentation of icons to match the new set used by the Status workspace.

Patch Release: WIN-911 2021 R5 P1

Version: 5.22.19

Release Date: 2022-10-03

Important: This patch is only applicable for **WIN-911 2021 R5** with the **OPC Data Access** module installed.

Patch Highlights

- Improved initialization performance.
- Improved performance when processing OPC Item updates.

Additional Changes

OPC Data Access Module

- Added new Value Match alarm type supporting additional operators and operand types
- When importing a .CSV file, the friendly name is now presented in the alarm name field.
- Reordered 'Item Name' and 'Item ID' in UI to display in that order.
- Changed auto-fill behavior so that 'Item Name' entry field does not change to match 'Item ID'.
- Improved the Import UI to highlight validation errors more prominently.
- Modified UI labels for the 'Acknowledgement Sync' fields to help distinguish between read and write fields.
- Corrected an issue which sometimes prevented tag/alarm details from loading when expanded.
- Legacy WIN-911 database imports for more than one OPC server have been refined to help users understand which server a tag belongs to.

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- Dialog text related to OPC UA certificate file path was changed to match Windows rather than .NET special folder names.
- Dialog displaying certificates is now automatically refreshed after clicking 'Trust'.
- Corrected an issue which caused the Server Class 'Browse' button to remain disabled when switching between multiple OPC server nodes.
- A tag count display was added to the Item and Alarm grid and import workspaces.
- OPC DA Classic server imports and tag browser will now only display leaf items for selection.
- Value Substitution now functions for report data items.

Product Release: WIN-911 2021 R5

Version: 5.22.13

Release Date: 2022-08-01

Release Highlights

- Added support for OPC UA A&C in the new OPC Alarms and Events module.
- Added support for OPC A&E Classic in the new OPC Alarms and Events module.
- Added support for OPC UA DA in the new OPC Data Access module.
- OPC DA supports imports from MS Excel (.xlsx) and from a .csv file.
- OPC DA supports exporting existing OPC items and alarms to a .xlsx file.
- OPC DA now supports Acknowledge Sync, Value Substitution, Alarm Delay, Deadband, and Bit Picking.
- Redesigned the OPC DA workspace with a tab view to make creating and editing OPC items and alarms easier.
- Added support for FactoryTalk View 13.00 (2021 R4 and newer)
- Redesigned the WIN-911 installer to improve efficiency and usability.
- Implemented OAuth for Microsoft 365 Exchange Online

Additional Changes

WIN-911 Install Launcher

- EULA acceptance screen is now dynamic with license supplied via the internet.

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- Moved everything except module installs and CodeMeter edits from the Main Installer to the WIN-911 Install Launcher.
- Modified syntax validation for domain logins for the service account.
- Improved mapping for secondary distributed system installs.

WIN-911 Main Installer

- Removed everything except module installs and CodeMeter edits and now runs module installs silently with no GUI.

Dispatcher Module

- Corrected an issue that caused Advanced Callout List/Workflows to be left behind when deleting multiple Advanced notification policies.
- Added the Area column to the Strategies table in the SQL .LOG database.
- Corrected a bug that caused the Workspace to crash when editing Callout Lists and searching from the popup workspace.

OPC DA Source Module

- OPC DA source module is no longer under development and has been removed from the WIN-911 product. It has been replaced by a new OPC Data Access source module.

OPC Data Access Source Module

- Added the OPC Data Access source module to replace the older OPC DA source module, which has been removed. The OPC Data Access source module supports OPC DA Classic and OPC UA DA.

OPC Alarms & Events Source Module

- Added the OPC Alarms & Events source module. The OPC Alarms & Events source module supports OPC UA A&C and OPC A&E Classic.

FTA E Source Module

- Added support for FactoryTalk View Alarms and Events v13.00.

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iFIX Source Module

- Added support and new toolkit DLL version 1.0.0.2 for iFIX version 6.0.8677.

Email Notifier Module

- Updated the toolkit for POP and IMAP connections.
- Improved testing for inbound and outbound server connections.
- Changed the default Port from 465 to 587 when SSL/TLS is selected (449).
- Implemented OAuth 2.0 for Microsoft 365 Exchange Online.
- OAuth - Now updates client ID via an Azure tenant.
- Added Metrics to Email.

Mobile Notifier Module

- Modified the Mobile Gateway to ensure routes are updated correctly.
- Gateway validation was improved to handle duplicate users.
- Improved how Mobile shares alarm broadcasting with Announcer.
- Modified reports to optimize the time receive them after a request
- Modified acknowledgment of multiple alarms to optimize the time required to complete them.
- Improved performance for getting summaries.

SMS Notifier Module

- Now switches to UCS2 for messages containing a character with a byte value greater than 127 (original ASCII limit). No longer sends extended Latin alphabet characters as ISO 8859-1.
- Added Metrics to SMS.

WIN-911 Workspace

- Corrected the out-of-date embedded license key for GoWPF due to renaming the executable.

V7 Importer Utility

- Added support for the new OPC Data Access module.

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- Now supports bit-picked tags for OPC imports

Security Configuration Utility

- Added support for the new OPC Data Access and OPC Alarms & Events modules.
- The utility now uses the current working directory instead of the path from the registry for all processes.

Product Release: WIN-911 2021 R4

Version: 5.22.5

Release Date: 2022-03-29

Release Highlights

- WIN-911 Workspace supports multiple WIN-911 systems.
- Improved UI tag loading performance for AVEVA Edge, InTouch, iFIX and CIMPLICITY.
- Improved V7 Importer capabilities (see V7 Importer Utility section below for more details).
- Added support for Windows 10 LTSC 2021.
- Added support for Windows Server 2012 R2 (WIN-911 2021 R3 and higher).
- Added support for GE iFIX 2022 and CIMPLICITY 2022 (WIN-911 2021 R3 and higher).

Additional Changes

WIN-911 Install Launcher

- Updated SQL 2019 Express redistributable install to include MSOLEDBSQL.msi version 18.5.0.0 (x64) for compatibility with AVEVA System Platform 2020 R2 SP1.
- Added a SQL screen for better feedback when SQL installs are running.
- Added a Prerequisite screen for feedback when Prerequisites are installing.
- Moved prerequisites from main installer into the Launcher.

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WIN-911 Main Installer

- Removed all prerequisites from main installer (moved to Launcher).

Dispatcher Module

- Added suppression Rules in Advanced Notification Policies for iFIX.
- Simplified UI for Notification Policy 'Used By'.

AVEVA Edge Source Module

- Performance was improved for UI when accessing large sets of tags.

System Platform Source Module

- Improved error messages for MXAccess Error Codes 4 and 1015.

CIMPLICITY Source Module

- Performance was improved for UI when accessing large sets of tags.
- Corrected an issue where Labels were being ignored for Health and Watchdog alarms.

iFIX Source Module

- Performance was improved for UI when accessing large sets of tags.
- Improved performance for large tag imports.
- Corrected an issue that caused '{Dynamic}' to appear in the 'Used By' workspace instead of Subscription Name.
- Added "Alarm Becomes Suppressed" and "Alarm Becomes Unsuppressed" conditions to Advanced Notification Policies.
- Corrected an issue that caused iFIX Security Mode to switch from 'Specify Credentials' to 'No Security'.
- Corrected an issue that caused the alarm details to be missing in Reports for Inactive Acknowledged alarms.

InTouch Source Module

- Performance was improved for UI when accessing large sets of tags.

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- Corrected an issue that caused the alarm details to be missing in Reports for Inactive Acknowledged alarms.

FTAE Source Module

- Corrected an issue that caused Application Type to switch from Network to Local.

V7 Importer Utility

- Connection names are no longer suffixed with their Group callout order.
- No longer creating Roles for Phone Book Names.
- Labels created for Groups are no longer attached to tags upon migration.
- V7 Importer was modified to prevent duplication of objects on retries.
- Importing iFIX System Health with a time setting greater than 60 minutes will now be rounded down to a maximum of 60 minutes.
- A change was made within the InTouch tag creation to facilitate the decoupling of the tag from its alarm(s).

WIN-911 Workspace

- Added Workspace Launcher which allows configuring access to multiple WIN-911 systems.

Product Release: WIN-911 2021 R3

Version: 5.22.2

Release Date: 2022-02-01

Release Highlights

- Mobile Operators can now view or edit Schedules, Callout order, Callout timing, and Roles (e.g. "On Call") from the WIN-911 Mobile app's new workspaces.
- Mobile Operators can now query historical alarms for up to a month.
- Announcer now supports connections to multiple WIN-911 systems (including hot backup pairs).
- Significantly improved performance of the Directory workspace.

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- Added support for Windows 11 21H2 and Server 2022
- Added support for Windows 10 21H2
- Added support for AVEVA InTouch 2020R2SP1
- Added support for AVEVA System Platform 2020R2SP1

Additional Changes

WIN-911 Install Launcher

- Updated SQL 2019 Express redistributable install to include SSMS version 18.10 (15.0.18390).
- Added SQL install dialog that provides a user-friendly link to download SQL 2017 Express install as a ZIP file where applicable.
- Added support for French "Entreprise" Windows editions.

WIN-911 Main Installer

- Install now accepts "<computer>\NetworkService" without a password as a service account.

All Modules

- Improved localization translations.

Dispatcher Module

- Restricted directory permissions to exclude "Users" group file creation permission.
- Corrected an issue that caused the the Notification Policy workspace to go blank if it was accessed before any other workspace.
- Significantly improved perform of the Directory workspace.

Navigation Module

- System Info now presents expiration date for relevant Customer Care Code.



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AVEVA Edge Source Module

- Corrected an issue that prevented Health alarm acknowledgements from appearing on Mobile notifier.

InTouch Source Module

- Correct a bug that was causing level condition changes to generate duplicate alarms.

Email Notifier Module

- Multiple email addresses separated by a semicolon are now valid when defining the email address for a single Email Connection..
- Now informing the runtime when an Email Gateway is deleted preventing continued operation.

Mobile Notifier Module

- Authentication was changed from ADAL (Azure AD Authentication Library) to MSAL (Microsoft Authentication Library).
- Connections can now be granted permission to view or edit Schedules and Callout order from the WIN-911 Mobile app's new workspaces.
- Gateway can now be configured with limits for on-prem storage of new Mobile Alarm History.
- Note: Mobile Runtime version 5.22.2 is compatible with only Mobile Hub version 5.22.2 (distributed with WIN-911 2021 R3).

Mobile iOS and Android Apps

- Authentication was changed from ADAL (Azure AD Authentication Library) to MSAL (Microsoft Authentication Library).
- Added new Mobile Workspace for viewing/editing Callout order and Connections.
- Added new Mobile Alarm History.
- Added language support in Mobile iOS and Android for French, Arabic, German, Hebrew, Italian, and Portuguese.
- Added custom Date & Time formats.

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- Updated minimum iOS version to 13.0.
- iOS (iPhone 12 and similar) now able to view more than 5 sites.

Voice Notifier Module

- Updated Voice with version 10.3.137 of Ozeki SDK.
- Corrected crash when using "Favorites" in the Voice workspace.

SMS Notifier Module

- Multitech MTR modems with firmware set to not require login will no longer falsely report failure when testing connection.

WIN-911 Announcer

- Now connects to multiple WIN-911 systems.
- Restricted directory permissions to exclude "Users" group file creation permission.
- Improved synchronization with Dispatcher for saved changes in workspace.
- Security Configuration utility is no longer needed as a prerequisite.

WIN-911 Backup Restore

- Improved localization translations.

Security Configuration Utility

- Improved error handling and error messages.
- Modified install to deliver security enabled as new default.
- Updated to now include servicing WIN-911 Remote Workspace.
- Corrected a crash when attempting to modify a config with restricted permissions.

WIN-911 Operator Workspace

- Improved localization translations.

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- Restricted directory permissions to exclude "Users" group file creation permission. Run As Admin now required for modifying settings under the gear icon.

WIN-911 Remote Workspace

- Improved localization translations.
- Install now accepts "<computer>\NetworkService" without a password as a service account.

Mobile Hub

- Authentication was changed from ADAL (Azure AD Authentication Library) to MSAL (Microsoft Authentication Library).
- Note: Mobile Runtime version 5.22.2 is compatible with only Mobile Hub version 5.22.2 (distributed with WIN-911 2021 R3).

Product Release: WIN-911 2021 R2

Version: 5.21.17

Release Date: 2021-09-28

Release Highlights

- Reintroduced WIN-911 Advanced features, including Workflows (Advanced Tactics), Callout Lists (Basic Tactics), and Advanced Notification Policies (Advanced Strategies).
- The V7 Importer Utility has been updated, which allows for migration from WIN-911 V7 to WIN-911 2021 R2.
- Reintroduced localization for Spanish, French, Italian, German, Chinese, Hebrew, Arabic, Portuguese languages.
- Added support for AVEVA Edge 2020 and 2020 R2.
- Added support for InTouch and System Platform version 2014 R2 SP1 Patch 2.
- Created a Backup and Restore Utility that allows for easy backup and restoration of WIN-911 configurations. Scheduled backups can be configured using Task Scheduler.

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- WIN-911 now defaults to secure WCF communications. You can use the WIN-911 Security Configuration Utility to opt-out.
- Added support for Microsoft Windows Server 2022

Additional Changes

WIN-911 Install Launcher

- Simplified distributed install choice to a single radio button.
- Redesigned the 'Logical System' screen into 'Locate Existing Modules' for distributed installs.
- Removed all 'Browse' controls and provided a simple edit field to select host targets.
- Improved performance for local system scans for modules.
- Improved Launcher logging.
- Now supports upgrades for older WIN-911 Advanced licensed systems.
- Now supports upgrades for AVEVA Edge module.

WIN-911 Installer

- Now distributing CodeMeter version 7.30.4811.500.
- Standalone install now requires a service account by default (Network Service is no longer default).
- An issue that prevented module mapping from succeeding has been corrected.
- The method used to set SQL database permissions has been optimized for distributed installations.

Dispatcher Module

- Implemented new design for Advanced Notification Policies.
- Implemented new style for Advanced Workflow blocks.
- Changed severity decision block to use range instead of threshold.
- Implemented new style for Labels.
- Basic Notification Policies will now honor a callout list notification enable appropriately (2021 Hotfix #1).
- Standby and Activate are now functional when WIN-911 is running services as Network Service (2021 Hotfix #2).

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- It is now possible to save the Customer Care Code in System Info for all Workspace users (2021 Hotfix #2).
- Improved the automatic drawing of Workflows diagrams.
- Now saving Notifier 'Metrics' data to a local monthly text files.
- Callout list will now honor the state suppression checkboxes.
- The Time Span Decision block is no longer labeled "Decision Block" and was relabeled "Time Span".
- Corrected issue with large number of utilizers on a Notification Policy that caused delays and "Application is not responding" popup messages.
- After deleting a Notification Policy using a connection you can now delete the Contact.
- Corrected the loading animation issue when deleting Basic Notification Policies.

Log Viewer

- Improved the translations for localized language support.
- The main view and the notifications view are now sorted by "Event Time".

Navigation Module

- Implemented new option for specifying date/time formats in System Info.
- Serial number field is now hidden in the System Info while using a Demo license.
- Clicking on Cancel in System Info when no edits have been made will no longer cause an exception or error.

AVEVA Edge Source Module

- Adapted to new UI style that contains all information (SCADA/HMI, Subscription, Watchdogs, Health Alarm, Tags) in a single workspace.
- Subscriptions represent the flow of logic better (i.e., AND/OR) and edit controls are easier to locate and use.
- Now provides Boolean subscriptions.

System Platform Source Module

- System Platform will now save after deleting a duplicate subscription.
- Corrected the invalid enabled "Save" button for unnamed subscriptions.

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- When a subscription is being added the cursor and focus are now automatically positioned in the name field.
- Subscription rank order was not always honored after reordering or deleting Filters.

CIMPLICITY Source Module

- CIMPLICITY will now save after deleting a duplicate subscription.
- Corrected the invalid enabled "Save" button for unnamed subscriptions.
- When a subscription is being added the cursor and focus are now automatically positioned in the name field.
- Subscription rank order was not always honored after reordering or deleting Filters.

iFIX Source Module

- iFIX will now save after deleting a duplicate subscription.
- Corrected the invalid enabled "Save" button for unnamed subscriptions.
- When a subscription is being added, the focus is now automatically positioned in the name field.

FTAE Source Module

- Corrected a localization string for Chinese that was being presented in English.
- FTAE will now save after deleting a duplicate subscription.
- Corrected the invalid enabled "Save" button for unnamed subscriptions.
- When a subscription is being added the cursor and focus are now automatically positioned in the name field.
- When an application with active alarms was deleted. The runtime was not dynamic and continued to alarm until it was restarted. This has been corrected.

InTouch Source Module

- InTouch will now save the project after deleting a duplicate subscription.
- InTouch will now support tag names of up to 128 characters in length.
- Corrected the invalid enabled "Save" button for unnamed subscriptions.

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- Subscription rank order was not always honored after reordering or deleting Filters.

OPCDA Source Module

- OPCDA will now save after deleting duplicate tags.
- Edits to a duplicate copy of an alarm no longer cause an exception.

Email Notifier Module

- Email notifier now saving metrics to a local monthly text files.
- Empty Simple Formats can no longer be saved.

Mobile Notifier Module

- Mobile notifier now saving metrics to a local monthly text files.
- Corrected an issue with more than one Mobile connection not allowing notifications to be disabled.
- Corrected an issue that showed an invitation email was "sent successfully" even though no Email gateway was defined.

Voice Notifier Module

- Voice notifier now saving metrics to a local monthly text files.
- Added a "Grandstream UCM" button to VOIP gateway definition to make configuration easier.

SMS Notifier Module

- SMS notifier now saving metrics to a local monthly text files.

WIN-911 Announcer

- Application now provides localization.

Security Configuration Utility

- Application now provides localization.

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WIN-911 Operator Workspace

- Application now provides localization.

Mobile Hub

- Install now requires a service account login instead of Network Service as default.

Product Release: WIN-911 2021

Version: 5.21.10

Release Date: 2021-06-21

Release Highlights

- WIN-911 Workspace has been completely redesigned and implemented as a WPF application, no longer requiring Silverlight or Internet Explorer browser.
- Improved security through changes to file/folder permissions, service account, SQL account requirements, and WCF endpoint configuration.
- Improved performance for large collections e.g., Tag imports or updates.
- WIN-911 Workspace now unifies all Connections into a Contact Directory for easier management.
- Tactics/Strategies have been merged as Notification Policies for easier configuration and enhanced with new alarm state options.
- New Simple Notifier Formats make configuring alarm messages easy without understanding of XSL.
- Newly designed Source workspace now contains all information (SCADA/HMI, Subscription, Watchdogs, Health Alarm, Tags/Blocks/Points) in a single workspace.
- Sources support more powerful subscriptions with Boolean logic and additional filtering. Subscriptions are redesigned to better represent the flow of logic (i.e. AND/OR) and edit controls placement makes edits easier to make.
- Sierra Wireless AirLink SMS modems now support Unicode messages.
- Simplified Voice Gateway configuration for Grandstream users.
- Merged module IIS Application Servers and runtimes into single Windows Service host. WIN-911 no longer requires Internet Information Services for smoother installation and fewer conflicts with third party solutions.
- WIN-911 no longer requires enabling any Windows features.

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- WIN-911 utilities have been restyled to match the new Workspace.
- WIN-911 is now using a new and improved 5th generation Core.
- OPC DA now supports Heartbeats. Heartbeats can be used to determine the health of the WIN-911 connection to the OPC DA Server.

Critical Changes

- Upgrades will require a new license.
- This release does not yet include Advanced license features.
- This release does not yet include AVEVA EDGE (WebStudio).
- Mobile-911 Notifier is no longer under development and has been removed from WIN-911 product in favor of WIN-911 Mobile.
- TAPI is no longer under development and has been removed from WIN-911 in favor of the Grandstream VoIP to Analog PBX.
- This release does not yet include V7 Importer.
- This release does not include the RoleUtility.exe or ScheduleUtility.exe
- OPC DA no longer supports grouped servers (licensed add-on).
- Implemented a new license firm code and schema. The new licensing schema now considers all source nodes from all installed source modules against a single allowed node license default.

Additional Changes

Security

- Restricted file and folder permissions to mitigate the reported vulnerabilities CVE-2020-13540 and CVE-2020-13539.
- Added support for execution under NETWORK SERVICE or custom service account.
- Reduced SQL permission requirements – installing user must now be sysadmin or dbcreator; service account must be 'public' and will be made db_datawriter and db_datareader on each database installed.
- Intermodular communications are no longer secured by default but can be enabled by new WIN-911 Security Configuration Utility (replacement for Account Change Utility).

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WIN-911 Workspace

- New Light/Dark mode per user setting.
- Module UI cache now under “%ProgramData%\WIN-911 Software” sub-folders.
- Improved initialization for Workspace.
- Connection configuration made easier by setting general option defaults and placing most used controls so they are more available.
- The “Used by” workspaces are now merged within the parent workspaces (Connection, Role, Format, Notification Policy, Reporting, etc.) with expanders for a unified view (collapsed by default).
- Roles and Labels generate more unique and distinguishable background and text colors.
- Unified all Format workspaces into one to make it easier to create and update formats related to any notifiers.
- Standardized UI conventions across Sources for more uniform imports and configuration.
- New ‘Simple’ Format workspace shows elements in a pick list based on the specific SCADA/HMI installed.
- All canned Formats can be modified or deleted. If deleted they can only be restored by initializing the database (InitializeDatabase.exe).
- Schedule workspace redesigned with simplified creation of shifts (appointments).
- Schedules can now be imported or exported using iCal file.
- Except for “Always”, all canned Schedules can be modified or deleted. If deleted they can only be restored by initializing the database (InitializeDatabase.exe).
- Improved GUI controls that rearrange and order callout list to include drag and drop.
- Improved GUI to make large callout list easy to access.
- Added ability to repeat callout list until the strategy stops.
- SCADA/HMI import workspaces are more intuitive.
- New color-coded object status indicators were added on the expander title. For example: unconfigured Watchdog will be shown in red until one is defined. Then it will be shown in blue.
- The Source workspace is designed with controls to select or create new source at the top of the workspace.

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- All Gateways for all Notifiers are unified into a single workspace.
- New “Send Feedback” button for customer input directly to WIN-911.

WIN-911 Install Launcher

- Now allows user to install just the SQL Server or optionally install both Server and SQL Server Management tool.
- Our SQL redistributable install no longer forces Network Service for the SQL service account.
- Our SQL redistributable install no longer forces the non-installing user service account to be a ‘sysadmin’ and accepts the role of ‘dbcreator’.

WIN-911 Main Installer

- Installer does not require a system restart in most cases.
- Installer now offers to launch Workspace at end of install (if applicable).
- Installs Announcer, Operator Workspace and Security Configuration utilities regardless of module selection.
- Network Service provided as the default service account for new installs for standalone systems; current installing user for distributed.
- Reinstalling modules now migrates databases instead of initializing them.
- Now installs a shortcut to online user help.
- No longer installs local user PDF help manual.

WIN-911 Operator Workspace

- Rebranded the ‘Contacts Utilities’ to ‘Operator Workspace’.
- Updated to reflect unification of Tactics and Strategies as Notification Policy
- Updated to reflect Contact Directory

WIN-911 Announcer

- Updated to reflect unification of Tactics and Strategies as Notification Policy

Voice Notifier Module

- Upgraded the Ozeki SDK to version 1.10.



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OPC DA Source Module

- OPCDA import allows for custom alarm condition imports.

Product Release: 4.21.5

Release Date: 2021-04-06

Release Highlights

- Added support for AVEVA InTouch HMI 2020 R2, System Platform 2020 R2 and AVEVA Edge 2020 R2.
- Added support for GE iFIX 6.5 and GE CIMPLICITY 11.1.
- Restricted file and folder permissions to mitigate the reported vulnerabilities CVE-2020-13540 and CVE-2020-13539 - [KB Article for More Details](#).

Additional Changes

WIN-911 Install

- Now redistributing CodeMeter version 7.20.4396.500.
- Improved uninstall module cleanup.

Product Release: 4.20.13

Release Date: 2020-07-15

Release Highlights

- Added support for InTouch 2020, System Platform 2020, and AVEVA Edge 2020
- Added support for CIMPLICITY 11
- Added support for FactoryTalk View 12.0
- Added support for Sierra Wireless AirLink LX40 LTE cellular modem (only supports ASCII – Unicode not supported)
- Added support for MultiTech MTR-MNG2 cellular modem
- Added support for 'Shelving/Suppression' in iFIX
- WIN-911 Log Viewer now support exports in three different file formats; *.CSV, *.XLS and *.PDF.

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- Added the WIN-911 Account Change Utility to WIN-911 to help users change local system identities and/or passwords for services and application pools.

Additional Changes

WIN-911 Log Viewer

- The 'Ack' button is disabled if the alarm is already acknowledged.
- Added generic support for 'Suppression/Shelving' (currently only iFIX).

Dispatcher Module

- Now installs the WIN-911 Contacts Utility
- Added support for custom alarm descriptions for System Platform.
- Added generic support for 'Suppression/Shelving' (currently only iFIX).

Navigation Module

- Now installs WIN-911 Announcer.
- Now installs WIN-911 Account Change Utility.
- Now installs WIN-911 Uninstaller.

CIMPLICITY Source Module

- Strategies listed in Route definitions are now alphabetized.
- Dynamic runtime support has been implemented.
- The 'Actor' field is now ignored for unacknowledged alarms.
- WIN-911 will now reconnect when the CIMPLICITY project is restarted.
- Improved GUI to allow mixed case 'Point ID' and 'Project' names to be saved.
- Added support for Reporting.
- Module install now cleans bad registry reference that could break upgrades.

OPC-DA Source Module

- Corrected an issue causing an 'Out of Memory Exception' when importing.
- OPC Server Fault -2147023170 (0x800706BE, The remote procedure call failed) is now treated as recoverable and will no longer result in disabling of level alarm conditions

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FactoryTalk Source Module

- Corrected dynamic runtime sync issues related to changes made in FactoryTalk View.
- Shortened the length of the alarm lifetime ID to improve compatibility with WIN-911 Mobile.
- Corrected an issue that caused Watchdogs to become orphaned.

InTouch Edge HMI Source Module

- Custom fields in InTouch Edge HMI, AVEVA Edge 2020, and WebStudio can now be included as alarm event attachments.
- Subscriptions have been corrected so they now ignore Watchdog alarms.
- The WIN-911 GUI will now present Reporting items where they are always visible.

InTouch Source Module

- The Default Strategy can now be deleted from routes.
- Corrected an issue with *.CSV file imports from InTouch 2017 Update 3 SP1.
- Subscriptions will now appropriately ignore Watchdogs.
- Corrected an issue that caused duplicate alarms if it matched an Alarm tag and a Subscription.
- Made improvements to the dynamic runtime to handle tag name changes within InTouch.

System Platform Source Module

- Custom alarm descriptions can now be added using Import/Export.
- Subscriptions have been corrected so they now ignore Watchdog alarms.

iFIX Source Module

- iFIX initialization has been optimized for better performance. Especially for users with 100s or 1000s of Blocks defined in WIN-911.
- The 'Ack All' messages being sent from iFIX are now case insensitive.
- The WIN-911 GUI now accepts mixed case when defining a Block. It will then convert it to uppercase when saved.

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Email Notifier Module

- Corrected an issue where an undefined Gateway would result in connections always reporting success.
- Fixed the XSL transform out of memory exception for formats that contained C# scripts.

SMS Notifier Module

- Fixed the XSL transform out of memory exception for formats that contained C# scripts.

Mobile-911 Notifier Module

- Fixed the XSL transform out of memory exception for formats that contained C# scripts.

WIN-911 Mobile Notifier Module

- Improved Chinese translations.
- Corrected a link path to '/Contact/Mobile/Gateway'.

Voice Notifier Module

- Updated the Ozeki VoIP toolkit to latest version 1.9.12.
- Fixed the XSL transform out of memory exception for formats that contained C# scripts.

WIN-911 Mobile Apps

- The support expiration notice in the Mobile App has been shortened to ensure it is visible on all devices.
- Added support to present alarm event attachments for InTouch Edge HMI, WebStudio, and AVEVA Edge 2020 alarms.
- Improved support for battery optimization and 'Doze mode' which prevented push notifications from being received.

WIN-911 Install Launcher

- Improved detection for the 'Internet Information Services disabled' feature in Windows 10.

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WIN-911 Install

- Now redistributing CodeMeter version 7.00.3933.502.
- Simplified install by removing unnecessary screens.
- Improved module install cleanup.
- Improved validation for customer support codes.

V7 Importer

- No longer makes InTouch routes for subscriptions on import.
- Corrected iFIX block case sensitivity for all Blocks and Reports.

Product Release: 4.20.5

Release Date: 2020-03-16

Release Highlights

- Added support for iFIX 6.1
- Added support for Sierra Wireless AirLink RV50X cellular modem (only supports ASCII – Unicode not supported)
- Added support for MultiTech MTC-LNA4 cellular modem
- Now redistributing Microsoft SQL Server 2017 Express

Additional Changes

System-wide Changes

- Mobile-911 module has been removed from installer for all new installations in preparation for “End of Life”. Existing installations using Mobile-911 will be silently upgraded with this release.

Dispatcher Module

- Corrected a communication failure with the Announcer, which was caused by the current user logging out and logging back in.

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WIN-911 Installer

- Improved behavior and warning message for an expired Demo or invalid license.
- Installer now presents a specific error message for attempted use of a space character in the user provided login name syntax.

SMS Notifier Module

- Corrected an issue that broke the networked cellular modem connection after running the Gateway Test, when Login is enabled.
- Corrected an issue that caused acknowledgements to fail if the user was required to acknowledge with a password.

WIN-911 Announcer

- Corrected a communication failure with the Dispatcher, which was caused by the current user logging out and logging back in.

WIN-911 Mobile Notifier Module

- Corrected an issue where the WIN-911 Mobile module was unable to obtain a token after a Windows restart. This prevented push notifications to iOS devices.

Mobile-911 Notifier Module

- Corrected an issue that caused notifications to fail after the initial notification, when using Basic Tactics. The call-outs would log errors about a parameter count mismatch.

iFIX Source Module

- Corrected an issue that caused WIN-911 (running on a remote iFIX node) to miss the first active alarm state after iFIX was restarted, if the alarm was inactive at the time of the restart
- Improved performance to prevent timeouts for imports across networks, when WIN-911 is running on a remote iFIX node.

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Endpoint Mapper

- Improved the speed at which the error message is delivered for systems with UDP disabled.

WIN-911 Uninstaller

- Improved and renamed the application provided as a tool to remove WIN-911 installations.

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.

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- 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.
- 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.

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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.
- 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.



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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.

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.

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- 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.
- 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.

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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.

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.



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Service Pack Release: iFIX 3.19.9 SP1

Release Date: 2019-06-27

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.

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- 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.
- 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.

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- 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.

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.

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OPC Source Module

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

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- 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.

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.

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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'.

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.

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- 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.
- 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.



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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.
- 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.

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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.

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.

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Install Launcher

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

Installer

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

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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.

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:

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- 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:
 - 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.

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- 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.

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, ad 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.



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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.

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

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- 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.
- 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.

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.

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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".
- 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

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- 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.
- 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: 3.17.20

Release Date: 2017-11-07

Release Highlights

- Wonderware InTouch 2017 Support
- 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.
- 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.

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- 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.

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.

Installer

- Modified service start 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.

Email Notifier Module

- Improved UI for SMTP servers not using authentication.

Voice Notifier Module

- Improved TAPI modem disconnect/reconnect logging.

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

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- 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
- 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

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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

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



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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

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

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- 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

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

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- 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
- 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



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- 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

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**

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- 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

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

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- 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

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

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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
 - 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.

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- 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.
 - 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



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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.
 - 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.

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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.
- 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

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- 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.
- 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.

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- 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)
- **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.

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- 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.
- 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"

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- 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.

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.

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- 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.
- 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.

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- 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.

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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