Version 14.2 Release Notes

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Data Entry Forms

An advancement on the time-based forms, user can now create custom forms that are non-time based. A wide range of forms are now supported such as maintenance, operator logbooks, laboratory, operator rounds and diagnostics.

Custom forms are created by the user and from events in the process such as the exceedance of a runtime or the occurrence of a critical alarm.

Workbook to XML

Save all or part of a report to XML and provide report data in a consistent format to third party products. This feature is especially relevant in Water and Wastewater treatment since the electronic submission of the eDMR (electronic Discharge Monitoring Report) in XML format is acceptable in most States.

To ensure the structure of the XML complies with the requirement, an XML designer is provided for the development of the XML structure. In the context of Water treatment, this designer is applied to submission form so that the XML conforms to the requirement of the State.

Management

A new category of Management called **Functions** provide powerful industrial functions.

- **Result from Workbook**

  Avoid needing to overload a report with "background" sheets that contain calculations, lookup tables and so on, by providing them in separate "background" workbook. This function passes parameters from the report to the background workbook and receives the result for the report. For example, store the Giardia lookup tables in the background workbook and use it to populate the report.

- **Number to Bits**

  Expand a number in a cell to a set of cells containing the binary equivalent (1/0). For example, a number may represent an alarm mask where each bit represents an alarm.

- **Timestamp Convert**

  Timestamp conversion methods such as converting a timestamp from UTC to local time, considering daylight savings.

- **Zero Pad**

  Zero pad the cell content to a specified number of characters.

ISA 18.2 Alarm

The alarm KPIs can be filtered by Operator Position, Module, Attribute and Alarm Duration. The alarm duration is used to show the condition of the alarm system without the chattering/fleeting alarms included so that users can understand the outcome of the improvement if these alarms were removed. The alarm application provides the export of the KPIs to a database so that improvements to the alarm system can be tracked over time.

Text File Drivers

Advanced features to support text files that do not conform to the common file structure of the first row containing the row headings and the remaining rows representing the data. Provision to support user friendly column names.

Database Consolidator

A Database Consolidator to take data from various sources and log that data to a relational database for reporting purposes. This feature could be used to periodically filter records from one database and save the result in another.

Web Portal Features

Web client download on-demand reports in both Excel and PDF format providing a mechanism for users to share their reports. In addition, the layout of the template list is user selectable.

Improvements/Issues Fixed

Alarm Module

Positions have no effect from a Web Client

The sub filters did not work from the web client. No issues with Windows clients.

Alarm Report Template

The Summary worksheet was the default active worksheet and was scrolled down the page. Dashboard is now the default active worksheet.

Ignition Alarms

Corrected issue where alarms strings did not conform to what was expected.

Documentation

The Product Registration, Setup IIS for Distributed Installation and Name Types documents were missing from the Document Library listing.

Data Group

Columns

If a selected column in the data group started with ":", the "::" was stripped off the tag name when the group was saved so data could not be retrieved for that tag.

If the first selected column from the tag browser is a static variable the "*" was removed from the column when returned to the group builder causing it to not be treated as static.

Time Period

If the Type is set to Database every available column in the selected Source is listed for Date and Time. In some cases, the column may contain a timestamp but the column type prevented it from being listed.

If the Start Date and/or End Date were configured as Variable, the variable was set to a date in the "yyyy-MM-dd" format and the date format of the Windows Operating System contained text and spaces (e.g., "dd MMM yyyy") an exception error could occur when the report was updated.

Database Data Group Stored Procedure

If the Database Data Group is configured with a stored procedure and that stored procedure took more than 30 seconds to execute the group would generate the error "Failed to execute stored procedure". The timeout for the stored procedure now uses the Client Wait Time configured for the connector to prevent this error from occurring.

Tag Browser

For any history connector set up to a database if the tag name or description returned was greater than 256 characters the tag browser would close with an unhandled exception.

Data Connectors

Data Historical Values (wide)

If the Date or Time column in the connector is not a datetime column in the database, when creating a database group an error about the column not being selected pops up when attempting to select off the Setup tab or when saving the data group.

FactoryTalk View SE History values

Added support for millisecond in the timestamp for raw values and corrected an issue where if multiple values were recorded on the same second not all those values factored into the calculations produced from a Summary Values from XLReporter data group.

OPC HDA Historical Values

If a request for server calculated values results in no data returned an attempt to read or write protected memory issue may occur.

ProSoft PLX51 History values

Added support for millisecond in the timestamp for raw values and corrected an issue where if multiple values were recorded on the same second not all those values factored into the calculations produced from a Summary Values from XLReporter data group.

VTScada History

If the tags requested have multiple tiers, the request may fail.

WinCC Alarms

Corrected an issue where in some cases the Test Connection would fail with the error "Format of the initialization string does not conform to the specification …".

Corrected an issue where in some instances the data group that was created from this connector was set with the wrong file extension.

Data Management

Worksheet – Condense Range

The Interval setting has been added to create a set of equally spaced intervals to condense the data to.

Added Count as a Condense To option to produce a count of non-blank rows.

Presentation – Weave Into Range

Corrected an issue where the last row of the Collection range was not being processed.

On Demand Reports

Database Panel

The panel is now populated immediately when the template is selected.

Report Generation

Reports with many rows of data are now generated 40% faster than previous releases.

Project Explorer

Workbook Reports

When toggling from Use XLReporter Design Studio to Use XLReporter Addin in Excel an error about converting from string "x86" to type integer may appear.

Upgrader

When upgrading from version 12.x if the project had Multi Snapshot analytics scheduled to update and/or store they were not changed to Event Frame and therefore would not execute.

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