

SpectraView Prism

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Prism News and Updates

- Current version 1.3.5004
 - Released spring, no major outstanding issues
 - 8864 support
- Fall release – November
 - 31 bug fixes
 - 55 enhancements
 - Internal framework / toolset changes
 - Currently focused on increased testing / QA

Technology Update

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Windows Server 2019



SQL Server 2019



.NET Framework 4.7.2

Prism Updates – Device & Data Collection

- Full support for 8864
 - Sequences
 - Analog Outputs
 - Mercury
 - Modbus
- Modbus UDP support
- Enhanced Lighthawk module (ERP replacement) support

Prism Updates – Alarms

- Added delay time to alarms (configurable) in which an alarm must be on for X seconds before it is active
- Fixed a rare issue / race condition which would result in the CEMS fault not being correctly turned off
- Added “acknowledge all” to alarms

Prism Updates – Calculation Services

- Fixed a rare issue with 26 hour offline cal demonstration incorrectly marking calibrations as expired due to grace period
- Fixed an issue for the DP Flow monitors calibration error calculation due to incorrect rule interpretation
- Change to the failed calibration checking routine for most instruments in which an edge case may incorrectly mark missing the 15-minute period before the calibration occurred
- Part 60 - Check for expired cal in advance, add a daylog warning message
- Added Part 60 25-hour instrument type
- Incorrect MATS on startup immediately following shut down hour
- Change to better handle sites that can use multiple GCVs for different units

Prism Updates – ECMPS

- Fixed some very rare and small rounding issues for hourly ECMPS data
- Update to the sorbent trap records when using an MODC of 32
- Added support for the temporary MODC code of “54” for Covid-19
- Some tweaks to systems with primary and bypass stacks and a rare issue when a unit was retired mid-quarter for ECMPS reporting
- Flow to load heat input
- Updates to “like kind” analyzer usage to better allow users to update / add like kind analyzers for reporting
- Various updates, usability for flow-to-load reports

Prism Updates – Prism Application

- Small fix to better identify the autocal sequence for non-probe instruments
- Change to the Air Gas parser to support “air” as the balance gas
- Bottle detail popup viewer for details on bottle where the bottle is used
- Added a daylog warning message for disabled auto-cals
- Added a security role for selecting “ignore for report”
- “IsOOSAutocalDisabled” application setting added
- Bottle manager grid mode
- Modified the bottle manager to display “NO (NOx)” to avoid confusion between NO and NOx
- Removed the yellow warning on linearities under the instrument that used APS
- Added the ability to access exceedences, compliances, and reasons from the dashboard
- Red Ball calibration gas parser for bottle scanner
- Upgraded all applications to .NET Framework 4.7.2, internal updates to framework to use Microsoft Prism across all client applications

Prism Updates – Modules

- Linearity
 - Add time to current running linearity
 - Added “QA / Diagnostic” option for test reasons
- Data Editor
 - Small fix and change to the constant values editor descriptions when editing a constant value
 - Added the ability to have non-editable constants. Moved limit constants to this format so they can be better viewed
- SIC
 - Added the ability to run a non-compliance SIC test

Prism 8864 Support

Full Support

- 10-second averages
- AI, DI, DO, AO
- 30-day backup
- 8864 -> Modbus
- 8864 firmware changes (calibrations)
- Each 8864 does need configuration (can be standardized)
- Make sure you have an 8864 firmware maintenance plan

Re-calculation Changes

Re-calculation architecture changes

- Separate “re-calc” table for marking data for re-calculation
- All services updated
- Same calculation engine
- Database performance improved
- More flexibility
- Fixes “stuck” re-calculation bug

Prism Internal Updates

- All Prism WPF application code updated to Microsoft preferred architecture / framework (MS Prism)
- Allows for more flexibility, faster feature development, better and more automated testing
- Take advantage of the latest MS tools for WPF applications
- Main reason for delaying current release
- Tools update, more automated tests, builds

QA Updates

- Since last year, major focus on QA
- QA team writing test cases (currently over 100, hope to have 200 by end of year)
- Test cases are tested manually by QA engineers
- Tools, internal update will allow us to automate (and test more frequently) many test cases
- Continuous build and testing allows for more frequent testing and should identify issues earlier, before they affect customers
- Spring release should have the majority of new automated QA plans in place

Prism Process Changes

- New hires (development)
 - Everett Lucas
 - Joe Luebker
- Strengthening internal development, QA, deployment, and release processes
- Leveraging tools, resources, and code from the combined organizations

Prism as a Platform

Prism design and architecture allows us to add new products using Prism as a common shared platform

- Common / shared code means more trusted, stable code across all products
- Ensures all products receive the same support and updates
- Decreases development and testing time, allows us to create more products in less time



Future Plans

- Continuing to increase QA
- Closer integration with combined company resources
- Leverage more 8864 functionality
- Security emphasis
- Better release management
- More user administration functionality
- New features (user dashboards? logbook?)
- New products

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From You!

Questions?
Ideas?
How Can We Help?

We are working to improve our communications

- *Webinars*
- *Emails*

Please let us know if you're not receiving these

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