RegPerfect User Web Series 2020

RegPerfect Release and Software Platform

Agenda

- **RegPerfect Review**
  - RegPerfect versions
  - RegPerfect platforms – 3rd party software
  - Obsolescence
- **RegPerfect v8000.0**
- **RegPerfect v7103.0**
  - Assets, Dashboards, Notes
  - Deprecated services/applications
  - Other enhancements
- **RegPerfect v7102.0 & v7101.0**
  - Assets, Dashboards, Notes

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RegPerfect Review

- **RegPerfect versions**
  - RegPerfect v7103.0
    - Current version
    - Originally released: 02/04/2020
    - Re-released (to fix a couple minor issues): 06/10/2020
  - RegPerfect v8000.0
    - Next version
    - In system testing
    - New platform support

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RegPerfect Review

- ## RegPerfect support platforms – 3rd party software

RegPerfect v7103.0 (and previous, down to RPv7006.0)	RegPerfect v8000.0
2012 Platform - Windows Server 2012 R2 / SQL Server 2012 (SP4) 2016 Platform - Windows Server 2016 / SQL Server 2016 (SP2) - Workstations - Windows 10 workstation - All server and workstation platforms .NET Framework 4.7.2 - Access Runtime 2010 - Internet Explorer 11 (recommend Chrome) - Major service packs & security updates	2016 Platform - Windows Server 2016 / SQL Server 2016 (SP2) 2019 Platform - Windows Server 2019 / SQL Server 2019 - Workstations - Windows 10 workstation - All server and workstation platforms .NET Framework 4.8 - Access Runtime "16" (Office 2016, 365, 2019) - Internet Explorer 11 (recommend Chrome) - Major service packs & security updates

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RegPerfect Review

- ## Obsolescence

  - Upcoming end of support

    - Windows Server 2012 R2 / SQL Server 2012

      - RegPerfect v7103.0 is the last RegPerfect version that is supported on the Windows Server 2012 R2/SQL Server 2012 server platform.

    - Office 2010, including the Access Runtime

      - RegPerfect v7103.0 is the last RegPerfect version that uses Office/Access 2010, including the Access Runtime.

  - Not supported

    - Windows Server 2008 R2 / SQL Server 2008 R2

    - Windows 7

    - Windows XP

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RegPerfect v8000.0

- Next version of RegPerfect

- Mainly just platform changes and full system testing

- Minimum system requirements

  - Processor*
    - Intel Xeon E-2124, 3.3GHz, 8M cache

  - RAM*
    - 8GB 2666MHz DDR4 ECC

  - Disks*
    - RAID 1 (2 + 2 HDDs/SSDs) - 300GB each

*Current TML server specs

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RegPerfect v7103.0

- **Assets, Dashboards, Notes**
  - Assets Enhancements
    - Added allowing the user to change cylinder put-in-service time.
    - Added a section to show calibration reference constant history on the Edit Cylinder Put In-Service Time dialog.
    - Added "Stack Test" choice for Q/A test type and removed the TBDs for inventory classification.

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RegPerfect v7103.0

- Assets, Dashboards, Notes (cont.)

  - Dashboards and Widgets Enhancements

    - Reminders widget

      - Support has been added to the reminders widget for Flow-to-Load Checks, Fuel Flowmeter QA tests, and Fuel Flow-to-Load tests.

    - Matrix widget

      - Enhancements have been made to the Matrix widget to interface with UDC and display real-time values from data loggers and PLCs.

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RegPerfect v7103.0

- Deprecated services/applications

  - Removed from the RegPerfect suite

  - RegPerfect Data Logger Configuration application

  - Bailey data collection service

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RegPerfect v7103.0

- Other enhancements

    - GetComponentID() and GetSystemID() functions will return valid component and system IDs instead of blanks even when the input sample is substituted.

    - UDC: Modified all PLC Data Collectors (and Data Logger Collector) to read instantaneous data and to make the data available for Matrix widget.

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RegPerfect v7102.0

- **Assets, Dashboards, Notes**
  - Dashboards and widget enhancements
    - Q/A Tests widget (calibration) - show 1-minute data +10 minutes / - 5 minutes from when C flag was flagged on the data and show a calibration control chart
    - Reports widget – can configure with reports from My Reports folder in addition to the "normal" Reports folder
    - Reminders widget – added the functionality to email approaching and expired due date reminders
    - Q/A Tests (chart) and Trend widgets - added functionality to drag an area in which to zoom in on the charts

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RegPerfect v7102.0

- Assets, Dashboards, Notes (cont.)
  - Assets enhancements
    - Added functionality to import electronic gas cylinder certificates in .csv file format (initially only AirGas CSV files supported)
      - After importing the data, the data from the import is populated and allows the user an opportunity to change/override the imported data, as well as add any additional data to fields not in the data import
    - Added functionality to track/save and display valve transactions - which cylinders connected from what date/time to what date/time
    - Added support for TRS instruments, using H2S gas cylinders

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RegPerfect v7101.0

- ## Assets, Dashboards, Notes

  - Notes (new application)

    - CEMS Log - rewrite of legacy, Access app w/ additional features

      - Attach one or more PDFs to log entries
      - Tag log entries with keywords
      - Print/Export to CSV, Excel, or PDF

  - Dashboards

    - Copy Dashboards
    - New widgets

      - Control widget
      - Matrix widget
      - Reminders widget

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RegPerfect v7101.0

- Assets, Dashboards, Notes (cont.)

  - Dashboards (cont.)

    - Updated widgets

      - Compliance widget
      - Trend widget

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Assets, Dashboards, Notes

- ## Assets

  - Cylinders enhancement

  - Added functionality to import electronic gas cylinder certificates in .csv file format

Assets, Dashboards, Notes

- Notes
  - CEMS Log – legacy, Access application rewritten
  - New features: file attachments, tag logs with keywords, and print/export to CSV, Excel, or PDF

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Assets, Dashboards, Notes

- **Dashboards & widgets**
  - Create multiple dashboards
  - Add & configure multiple
    widgets on a dashboard
  - Copy dashboards
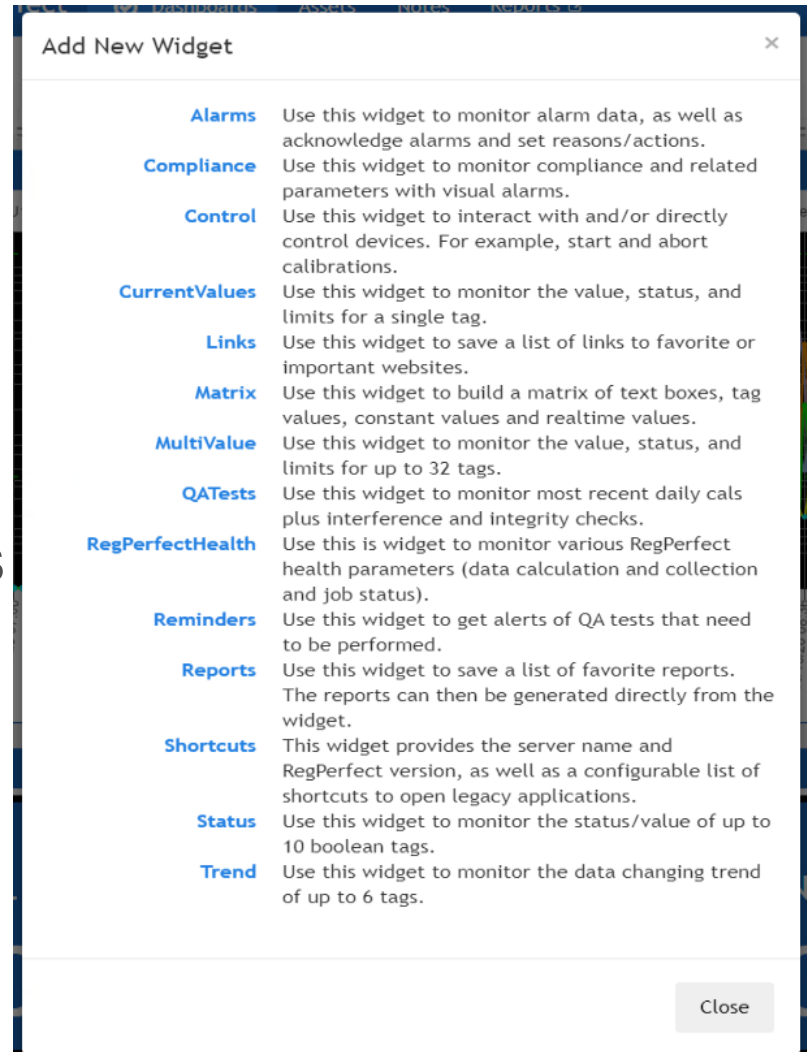 - Support for global dashboards
  - 14 widgets

Add New Widget

Alarms	Use this widget to monitor alarm data, as well as acknowledge alarms and set reasons/actions.
Compliance	Use this widget to monitor compliance and related parameters with visual alarms.
Control	Use this widget to interact with and/or directly control devices. For example, start and abort calibrations.
CurrentValues	Use this widget to monitor the value, status, and limits for a single tag.
Links	Use this widget to save a list of links to favorite or important websites.
Matrix	Use this widget to build a matrix of text boxes, tag values, constant values and realtime values.
MultiValue	Use this widget to monitor the value, status, and limits for up to 32 tags.
QATests	Use this widget to monitor most recent daily cals plus interference and integrity checks.
RegPerfectHealth	Use this is widget to monitor various RegPerfect health parameters (data calculation and collection and job status).
Reminders	Use this widget to get alerts of QA tests that need to be performed.
Reports	Use this widget to save a list of favorite reports. The reports can then be generated directly from the widget.
Shortcuts	This widget provides the server name and RegPerfect version, as well as a configurable list of shortcuts to open legacy applications.
Status	Use this widget to monitor the status/value of up to 10 boolean tags.
Trend	Use this widget to monitor the data changing trend of up to 6 tags.

Close

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Assets, Dashboards, Notes

- ## Control widget

  - Control widget interfaces with Allen Bradley PLCs to start and abort calibrations
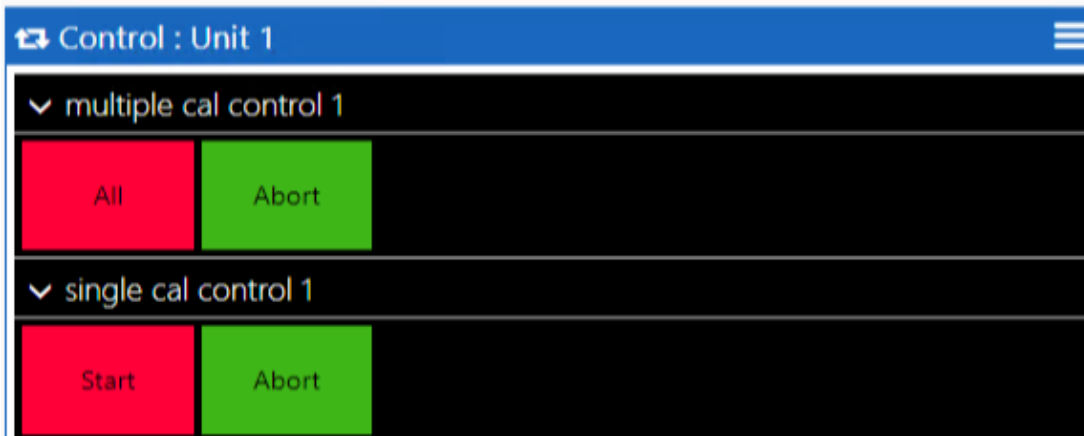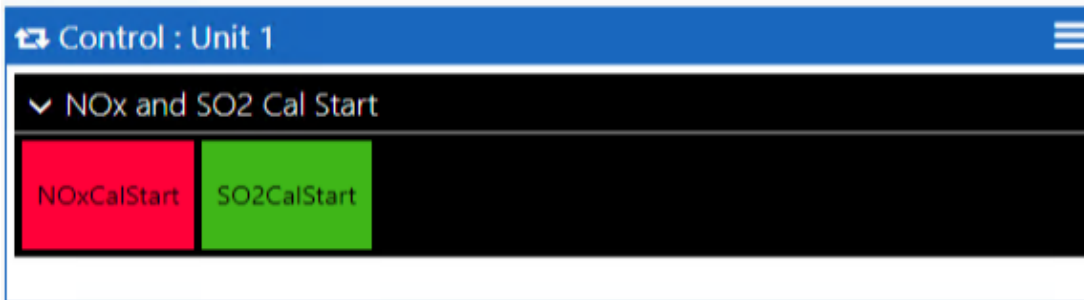
Assets, Dashboards, Notes

- ## Matrix widget
  - Matrix widget allows you to build a matrix or grid of text boxes, tag and realtime values, and constant values

  - Clicking a tag tile opens a details view, which contains columns for values, flags, and MODC

Assets, Dashboards, Notes

- ## Matrix widget (cont.)
  - Configure column and row titles, tags, constants, text, notes

Parameter	1-Minute	Current Hour-to-date Avg	1-Hour	12 Month Run (or 30-Day)
Unit On	B1_UnitOn_TF_1M	B1_UnitOn_TF_1M	B1_UnitOn_TF_1H	B1_UnitOn_TF_1H
NOx ppm	B1_NOx_Ppm_1M	B1_NOx_Ppm_1M	B1_NOx_Ppm_1H	n.a.
O2 pct	B1_O2Dry_Pct_1M	B1_O2Dry_Pct_1M	B1_O2Dry_Pct_1H	n.a.
Gas Flow scfh	B1_GasFlow_scfh_1M	B1_GasFlow_scfh_1M	B1_GasFlow_scfh_1H	B1_GasFlow_12MRun_Mscf_1D
OIl Flow gph	B1_OilFlow_gph_1M	B1_OilFlow_gph_1M	B1_OilFlow_gph_1H	B1_OilFlow_12MRun_gal_1D
NOx lb per mmBtu	B1_NOx_LbPerMBtu_1M	B1_NOx_LbPerMBtu_1M	B1_NOx_LbPerMBtu_1H	B1_NOx_30D_LbPerMBtu_1D
Capacity Factor %	n.a.	n.a.	n.a.	B1_CapFactor_12MRun_Pct_1D

Select and configure text, constant or tag

○ Text

Enter Text

○ Constant

Constant Name	Decimal Precision
⌄	

Site Filter	⌄
Constant Category Filter	⌄

Get Value
Get Current 6-Minute Avg
Get Current 15-Minute Avg
Get Current Hour Avg
Get Current 3-Hour Roll Avg
Get Current Day Avg
Get Current Day Sum
Get Current Month Avg
Get Current Month Sum
Get Current Year Avg

Tag Name	Inset Text	Unit Prefix	HiHi Limit	Hi Limit	Lo Limit	LoLo Limit
B1_NOx_Lb_1H ⌄	Enter Text	None ⌄				

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Assets, Dashboards, Notes

- ## Reminders widget
  - Reminders widget allows you to get alerts (aka "reminders") of Q/A tests that need to be performed
  - Displays due dates for QA tests
  - Incorporates grace periods and non-operating quarters
  - Configurable warning and alert timeframes
  - Emailing alerts
  - RATA (60 & 75), Linearity, CGA
  - Flow-to-Load Checks
  - Fuel Flowmeter QA tests
  - Fuel Flow-to-Load tests

Assets, Dashboards, Notes

- ## Compliance widget
  - Compliance widget allows you to monitor the value, status, and limit for up to 16 compliance, base, and prediction tags
  - Availability status may also be monitored
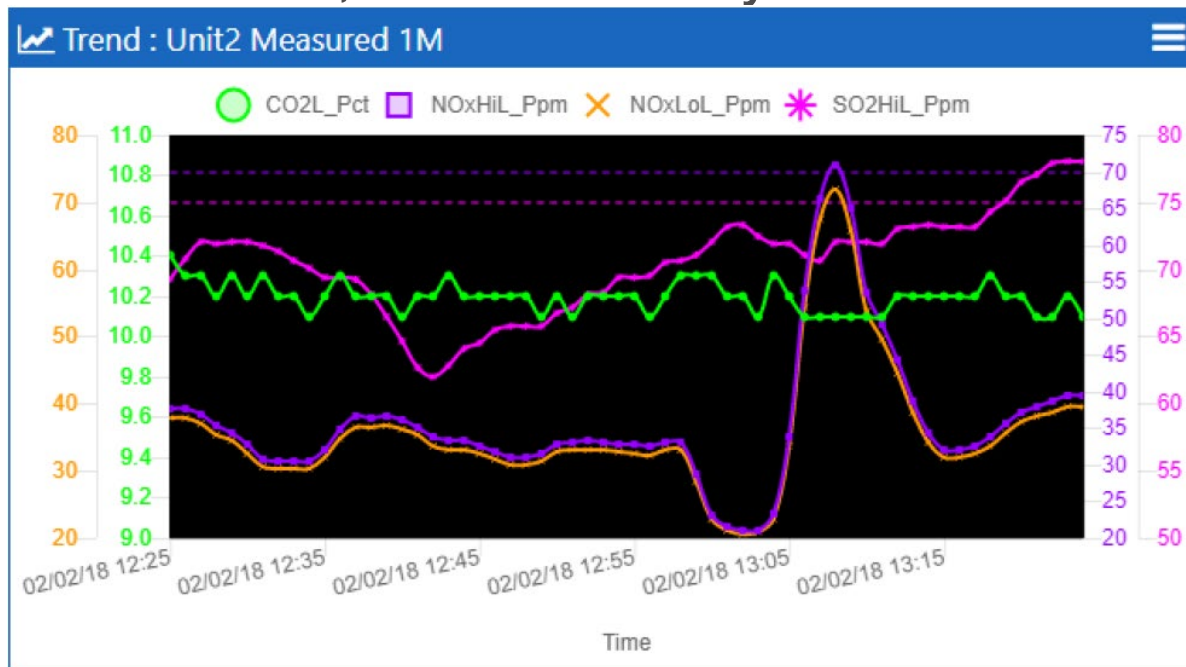
Assets, Dashboards, Notes

- ## Compliance widget (cont.)
  - Configure compliance, base, limit values (optional predictive)

Compliance Tag Name / Compliance Label	Parameter Upper Label / Parameter Lower Label	Base Tag Name / Base Label	Limit Name / Limit Label	
B1_OilFlow_12MRun_gal_1D	30-Day NOx	B1_NOx_LbPerMBtu_1H	< (High Limit)	Constant
Yesterday	LbPerMBtu	1-Hour	B1_NOx_30D_LbPerMBtu_1D_HiHi_AlarmLimit	
B1_OilFlow_12MRun_gal_1D	12-Month	B1_NOxMonth_ton_1D	<= (High Limit)	Constant
Yesterday	NOx ton	Yesterday MTD	B1_NOx_12MRun_ton_1D_HiHi_AlarmLimit	
B1_OilFlow_12MRun_gal_1D	12-Month Gas	B1_GasFlowMonth_Mscf_1D	<= (High Limit)	Constant
Yesterday	Flow Mscf	Yesterday MTD	B1_GasFlow_12MRun_Mscf_1D_HiHi_AlarmLimit	
B1_OilFlow_12MRun_gal_1D	12-Month Oil	B1_OilFlowMonth_gal_1D	<= (High Limit)	Constant
Yesterday	Flow gal	Yesterday MTD	B1_OilFlow_12MRun_gal_1D_HiHi_AlarmLimit	
B1_OilFlow_12MRun_gal_1D	12-Month Capacity	B1_CapFactorMonth_Pct_1D	<= (High Limit)	Constant
Yesterday	Factor Pct	Yesterday MTD	B1_CapFactor_12MRun_Pct_1D_HiHi_AlarmLimit	

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Assets, Dashboards, Notes

- ## Trend widget
  - Trend widget allows you to view a data graph and monitor the trend of changing data for up to 6 tags
  - Automatically updates the display in a configurable time interval, one minute by default

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Assets, Dashboards, Notes

- ## Trend widget (cont.)

  - – Configure trend properties and tags

Graph Background	⬛	Limit	X-Axis
☐ Single Y-Axis (auto scale)		⦿ Dotted Line (plot color)	⦿ Time
☐ Hide Data Points		○ Upward Triangle Symbol	○ Tag (scatter plot)
☐ Hide Invalid Data	🟨		

Time Range: 2 Hour(s)

Type Filter	⌄
Time Filter	1 Minute(s) ⌄
Site Filter	⌄
Parameter Filter	⌄

Tag Name	Label	Plot Color	Point Symbol	Auto Scale	Min Scale	Max Scale	Low Limit	High Limit	Hide Plot
U1_NOx_Ppm_1M	U1_NOx_Ppm_1M	#3d85c6	circle	Yes	0	0			Show
U1_O2Dry_Pct_1M	U1_O2Dry_Pct_1M	#38761d	circle	Yes	0	0			Show
U1_NOx_LbPerMBtu_1M	U1_NOx_LbPerMBtu_1M	#0b5394	circle	Yes	0	0			Show

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