



PREDICTIVE DATA ANALYTICS

R130

Software Change Notice

PDADOC-X594-en-130A

December 2019

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1 About this document

This Software Change Notice contains important information that must be read prior to installing and working with Honeywell Predictive Data Analytics (PDA). It also contains known issues, documentation updates, and additional information.

1.1 Revision history

Version	Release	Date	Description
A	R130	December 2019	This document contains the list of features available in R130. List of known issues are also described.

1.2 What is Predictive Data Analytics?

Honeywell Predictive Data Analytics (PDA) provides a unified solution to indicate overall health of a control system, generate various reports and trends from system health data, and provide data analytics based predictive alerts for control system failures. It has a web-based application that provides role-based access to view predictive alerts for you to analyze and take appropriate action.

PDA uses the System Performance Analyzer (SPA) to collect system health data from control system and then generate predictive alerts and notify users. It provides a centralized view of different control system health parameters.

2 Release Overview

2.1 New features

- Models
 - CDA and Network Models updated to reduce frequent toggling between Reoccurred and RTN
- Alerts
 - Active Alert List will now show only the active alerts
 - All alert instances are now shown in Alert History tab of Alert Detail
 - 'Action' options now available in Alert Detail page
 - Count information now shown in Alert List and Deviation List page
 - Alert trend can now be seen for each alert occurrence in Alert Timeline
- Benchmark and Deviation
 - Accurate Deviations detection using Hybrid Machine learning (OCSVM + DBSCAN) algorithm
 - Server, Workstation and TPS parameter now supported in Benchmark and Deviation
 - Deviation List & Deviation Details pages updated for consistency with Alert List & Alert Details
 - Consolidated deviation now shown for deviations that sustain across days and also for multiple deviation occurrences during the same day.



NOTE

In Parameter Trend Analysis, the tool tip can display only 15 parameters' values. The tool tip disappears from trend if the value goes beyond 15.

2.2 Issues fixed

Issue No.	Description
RPDA-169	Multiple benchmark deviations raised for a Unique asset-parameter-instance across days for a sustained deviation.
RPDA-293	Benchmark & Deviation detected for parameters with deviation type as counter is represented in the Trend without benchmark band.

Issue No.	Description
RPDA-302	If the variation of a parameter is around 1 unit during benchmark period, deviation will be detected even for fractional increase in parameter value of the candidate.
RPDA-324	Model alert details contains duplicate data record.
RPDA-338	Models do not complete the analysis within the assigned duration and enters unknown state. Randomly, there could be schedule misses for the models.
RPDA-395	Alert age of an alert is varying with the resets or alert severity changes.
RPDA-473	Alert Raising Time is not taken correctly.
RPDA-477	Alert occurred time and Reset time shows same.
RPDA-481	Alert History is not updating properly for alerts in system dashboard.
RPDA-482	X Axis should be "Date" not "Time".
RPDA-484	Need user info to understand the color different in Alert history in alert details page.
RPDA-501	Alert raising time is not referring to the data from breaching time.
RPDA-504	Alert raising time is not referring breaching time for memory leak model.
RPDA-505	Reset logic for Memory Leak model needs to Sharp it.
RPDA-507	Acknowledging "Return to Normal" alert and moving to "Active Alert" list.
RPDA-509	UI representation of Alert history, when no alerts have been raised in past week.
RPDA-601	In Parameter Trend Analysis, the tool tip can display only 15 parameters' values. If the value goes beyond 15, the tool tip disappears from trend.

2.3 Known Issues in R130

Issue No.	Issue - Description/Recovery/Workaround
RPDA-542	<p>Error: Unable to provide with proper information for non-scalable parameters in trend page.</p> <p>Description: We can add parameters which are non-scalable. But instead of showing an empty trend page, we can provide with proper information - "non-trendable" or "not applicable" etc.</p> <p>Workaround: None.</p>
RPDA-630	<p>Error: Failed to load one-month data in trend.</p> <p>Description: Data not getting loaded in trend page for parameter analysis.</p> <p>Workaround: None.</p>
RPDA-631	<p>Error: In Parameter Trend Analysis, scale takes maximum value on certain scenario.</p> <p>Description: In Parameter Trend Analysis, the system by default takes maximum value when we are trying to change scale value second time.</p> <p>Workaround: None.</p>
RPDA-636	<p>Error: Benchmark model found deviation but no deviations listing on deviation detail page.</p> <p>Description: In System health dashboard, deviation counts can be observed in BENCHMARK & DEVIATION window. However, no deviation alerts are listing on deviation detail page.</p> <p>Workaround: None.</p>

3 Open Source Software Included

Predictive Data Analytics uses the following open source software. The licenses, notices, restrictions, and obligations, for the open source software may be found on the media in a file named *[Installation Media]\EULA\Third_Party_Licenses.rtf*.

MIT License

Predictive Data Analytics uses following components:

- Adal-angular5 1.0.25
- Angular Google Maps 1.0.0 – Beta3
- Angular-persistence 1.0.1
- Angular2-busy 2.0.4
- Newtonsoft.Json 9.0.1

Apache License 2.0

Predictive Data Analytics uses following components:

- Log4net[1.2.11] 2.0.5
- Luminol 0.4
- serilog

GNU Lesser General Public License v2.1 or later

Predictive Data Analytics uses following component:

- SevenZipSharp 0.64

GNU General Public License v2.0 only

Predictive Data Analytics uses following component:

- Visual Syslog Server for Windows 1.6.3

Rpart License

Predictive Data Analytics uses following component:

- Rtools for Windows 3.4

ISC License

Predictive Data Analytics uses following component:

- Angular5 1.0.0

Additional

Predictive Data Analytics uses following component:

- R.Net 1.7.0

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or

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