



PREDICTIVE DATA ANALYTICS

R100.1

Software Change Notice

PDADOC-X594-en-1001A

April 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	R100.1	April 2019	This document contains the list of features available in R100.1. List 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 What are the Known Issues in R100.1?

Issue No.	Issue - Description/Recovery/Workaround
RPDA-162	<p>Error: Benchmark and Deviation detection not performed for Servers, Workstation and TPS Parameters.</p> <p>Description: Benchmark model must run for both TPN and Experion parameters. Currently, in PDA R100.1 there is no benchmark carried for Servers, Workstation and TPS parameters.</p> <p>Only Controllers, Gateways and Network Devices are captured in the current Benchmark & Deviation.</p> <p>Workaround: None.</p>
RPDA-169	<p>Error: Multiple benchmark deviations raised for a Unique asset-parameter-instance across days for a sustained Deviation.</p> <p>Description: For a specific asset-parameter instance deviation is repeated every day until the issue is resolved instead of displaying single deviation on the day of occurrence.</p> <p>Workaround: None.</p>
RPDA-199	<p>Error: The control degradation alert trend displays multiple trend lines (varying Y-axis parameters) simultaneously.</p> <p>Description: PDA plots trends for various parameters in a single graph with multiple Y-axis for individual parameter.</p> <p>Workaround: You can opt to view the trend for single parameter by clearing the other parameter displayed beneath the graph.</p>
RPDA-232	<p>Error: Alert suppression is limited to day level.</p> <p>Description: You must be able to suppress alert on hours or day basis. Currently in PDA R100.1, you can suppress alerts only on day basis. When the alert is returned from suppressed state an addition of site time zone offset hours is added to the current suppression time. This offset addition may result in displaying mismatch in Alert Timeline.</p> <p>Workaround: None.</p>

Issue No.	Issue - Description/Recovery/Workaround
RPDA-290	<p>Error: Additional deviations (also prediction alerts) are displayed due to the same tag name in different clusters of a site.</p> <p>Description: False deviations (alerts) are detected from the same tag name in the different clusters within the site.</p> <p>Workaround: First cluster-asset combination where the deviation (alert) appears is considered for plotting whereas values from other duplicate tags are ignored.</p>
RPDA-293	<p>Error: Benchmark & Deviation detected for parameters with deviation type as counter is represented in the Trend without benchmark band.</p> <p>Description: Rate of lag in parameters with deviation type as counters is considered to arrive at the benchmark value (deviations) which is of smaller value as against the actual counter value. Hence, the trend plot will miss the benchmark band when plotted against actual parameter value.</p> <p>Workaround: None.</p>
RPDA-302	<p>Error: 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.</p> <p>Description: If the parameter has minimal variation during the benchmark period, then fractional change around benchmarked value is also considered as deviation even though this deviation may not impact system performance.</p> <p>Workaround: Identify a benchmark period wherein the parameter value varies in permissible limit and fraction change in parameter is valuable to derive the deviation.</p>
RPDA-324	<p>Error: Model alert details contains duplicate data record.</p> <p>Description: Unique combination of Asset-Instance-Parameter is considered to the MACFLAP counts occurring in the network. However, alert detail would contain duplicate records as against unique occurrence causing mismatch between Event Count and Event Record displayed.</p> <p>Workaround: None.</p>
RPDA-328	<p>Error: Few PDA UI details takes more than 10 seconds with single or multiple users.</p> <p>Description: Response time for UI pages such as Alert List page and Alert Detail page may exceed the stipulated time when single or multiple user are accessing the portal simultaneously.</p> <p>Workaround: None.</p>

Issue No.	Issue - Description/Recovery/Workaround
RPDA-338	<p>Error: Models do not complete the analysis within the assigned duration and enters unknown state. Randomly, there could be schedule misses for the models.</p> <p>Description: PDA models are scheduled to run and conclude analysis. Occasionally at random sites, models enter unknown state without completing the cycle. Due to overlap data range considered for analysis the alerts would be detected later and deviation benchmark would be missed for the day without impact on performance.</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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For the purpose of submission, a security vulnerability is defined as a software defect or weakness that can be exploited to reduce the operational or security capabilities of the software.

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<https://honeywell.com/pages/vulnerabilityreporting.aspx>

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or

Contact your local Honeywell Process Solutions Customer Contact Center (CCC) or Honeywell Technical Assistance Center (TAC) listed in the “Support” section of this document.

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