

DynAMo Metrics & Reporting
R120.1
Software Change Notice

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Symbol Definitions

The following table lists those symbols used in this document to denote certain conditions.

Symbol	Definition
	ATTENTION: Identifies information that requires special consideration.
	TIP: Identifies advice or hints for the user, often in terms of performing a task.
	REFERENCE -EXTERNAL: Identifies an additional source of information outside of the bookset.
	REFERENCE - INTERNAL: Identifies an additional source of information within the bookset.
CAUTION	Indicates a situation which, if not avoided, may result in equipment or work (data) on the system being damaged or lost, or may result in the inability to properly operate the process.
	CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. CAUTION symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
	WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death. WARNING symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
	WARNING, Risk of electrical shock: Potential shock hazard where HAZARDOUS LIVE voltages greater than 30 Vrms, 42.4 Vpeak, or 60 VDC may be accessible.
	ESD HAZARD: Danger of an electro-static discharge to which equipment may be sensitive. Observe precautions for handling electrostatic sensitive devices.
	Protective Earth (PE) terminal: Provided for connection of the protective earth (green or green/yellow) supply system conductor.

Symbol	Definition
	<p>Functional earth terminal: Used for non-safety purposes such as noise immunity improvement. NOTE: This connection shall be bonded to Protective Earth at the source of supply in accordance with national local electrical code requirements.</p>
	<p>Earth Ground: Functional earth connection. NOTE: This connection shall be bonded to Protective Earth at the source of supply in accordance with national and local electrical code requirements.</p>
	<p>Chassis Ground: Identifies a connection to the chassis or frame of the equipment shall be bonded to Protective Earth at the source of supply in accordance with national and local electrical code requirements.</p>

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1 Introduction

1.1 About DynAMo Metrics & Reporting

Alarm systems are designed to help operators manage complex processes by warning them of conditions requiring attention. In reality, they do not always achieve this, because they are improperly designed, poorly documented, changed without adequate review or fail to provide enough information to the operator. An effective alarm system is a key part of a safe process; incorrectly designed and poorly functioning alarm systems can have serious consequences.

DynAMo Metrics & reporting application collects alarm and event data from various data sources, and presents the data in the form of intuitive reports to help you gain valuable insight into the plant's performance and issues in the Alarm systems. The application also helps you to visually compare the alarm metrics against industry standards, and identify the deviations quickly.

1.2 About this Document

This document describes the new features, resolved problems, known problems, and hardware and software requirements for DynAMo Metrics & Reporting R120.1. The installation and use of this software requires careful review and implementation of the installation procedures in the DynAMo Metrics & Reporting R120.1 Installation guide. You must read this entire document before installing and using DynAMo Metrics & Reporting R120.1.

1.3 Limitation

DynAMo Metrics & reporting Mobile interface doesn't work on safari browser in IOS 7.0 and IOS 8.0, this applicable for both iPhone and iPad. However on both the devices it works well on chrome browser.

1.4 Technical Assistance

1.4.1 World Wide Web

The following Honeywell web sites may be of interest to Process Solutions customers.

Honeywell Organization	WWW Address (URL)
Corporate	http://www.honeywell.com
Process Solutions	http://www.honeywell.com/ps

1.4.2 Telephone

Contact us by telephone at the numbers listed below.

Organization	Phone Number
United States Honeywell Process Solutions Support	1-800-822-7673

and Canada	Center	
Europe	Honeywell TAC-EMEA	+32-2 728-2704
Latin America	Honeywell International Inc. Sunrise, Florida U.S.A.	+1 954 845-2600
Pacific	Honeywell Global TAC - Pacific	+61-8-9362-9559
India	Honeywell Global TAC - India	+91-20-2682-2458
Korea	Honeywell Global TAC - Korea	+82-2-799-6317
People's Republic of China	Honeywell Global TAC - China	+86-10-8458-3280 ext. 361
Singapore	Honeywell Global TAC - South East Asia	+65-6580-3500
Taiwan	Honeywell Global TAC - Taiwan	+886-7-323-5900
Japan	Honeywell Global TAC - Japan	+81-3-5440-1303
Elsewhere	Call your nearest Honeywell office	

2 Contents of Release

Table 1 DynAMo Metrics & Reporting R120.1

Product	Model Number
DynAMo Metrics & Reporting R120.1	AS-DMRKIT-120

The models listed above include the following software and documentation components:

Table 2 DynAMo Metrics & Reporting R120.1 components.

Component	Part Number
DynAMo R120.1 - Metrics & Reporting Installation Media and User Documentation	51155971
DynAMo R120.1 - Metrics & Reporting Cross Domain Component	51155973

3 Release Overview

This chapter describes the new features introduced in DynAMo™ Metrics & Reporting R120.1.

3.1 New Features

Table 1 – Key DynAMo Metrics & Reporting R120.1 new features

Feature	Description
HTML5 based interface	The web interface has been rewritten completely in HTML5 to make it modern, slick and fluid. The web interface now doesn't depend on Java and Operations Insight.
Multi-level asset hierarchy	Support for the multi-level asset hierarchy beyond the fixed Plant, Area and Units has been introduced.
Operator Position based Metrics	The definition of the Operator positions has become seamless and more accurate. The metrics and KPIs are calculated based on the operator positions and assets as appropriate.
Shift Support	Users can define shifts and view the metrics based on shifts as well.
Simplified work processes	Simplified operations for viewing, saving and scheduling reports. Standard rules files for Honeywell Experion systems are shipped by default.
Smart Reports	Comes with a set of 'Smart Reports' that has the right combination of the related metrics and highly interactive widgets to quickly point out the issues.
PDF export	Reports can be exported in PDF format (in addition to Excel)
D&E / ACM Integration	When D&E / ACM is installed and configured, the alarm settings and the documentation can be quickly brought out for any Tag under analysis.
Reports Customization	Apart from the standard reports supplied by Honeywell, users can create entirely new reports using the available data widgets for the supported metrics. This can be done with the same interface without any additional reporting tools like Crystal Reports or SSRS.
Secure cross domain access	The Metrics and KPI data can be accessed securely across different networks (Process Control/Business) with the same user interface.
Mobile Notifications	Support for notifications on critical alarms/events when integrated with Honeywell Pulse mobile infrastructure.
New Event type support.	'Shelved' events can also be collected.
Support for localized events	Events localized from the DCS are supported.
APIs for Integration.	Chattering, Fleeting, Standing, Shelved, Suppressed and State alarms are exposed through APIs for integration (such as DynAMo Operations Logbook).

3.2 RQUPs Addressed

3.2.1 RQUP 2015-001449

Issue is that the customer is not happy with how the Alarm Performance Overview (APO) report is calculating the KPIs. The customer is requesting that the APO KPIs be calculated differently. As indicated earlier by development, this will be addressed in DynAMo M&R R120

3.2.2 RQUP 2015-001101

Customer has requested a custom operational insight report that shows the stale alarms in a selectable period. The customer's problem is that there is only a fixed time (one day) whereas a range is needed to be selected for example:

- between "start time" and "end time" what were the stale alarms for more than "no of hours"

3.3 Changes to existing functionality

1. Rules configuration requires some considerations in the asset mapping for supporting the multi-level hierarchy. The Plant, Area and Unit mapping has been removed and a generic 'Path' has been introduced.
2. The number of user defined fields in the Rules builder has been reduced from 10 to 8.
3. If the names of the custom field needs to be changed then it has to be done in the localization resource file.
4. User security is now fully managed in the Core System infrastructure. Some of the Operations Insight features like Profiles are not applicable.
5. Reports filters – The filter-set has been rationalized to a standard set and any 3 of the 8 custom fields can be added.
6. Time slicing option in the reports has been rationalized. Options are limited 10 mins, hours, weeks and months.
7. The column list in the report grids can't be persisted.
8. The dashboard has changed to show only the last 7 days' data.
9. The Task pane in the dashboard has been replaced by a generic 'Comments' feature. The tasks entered in the previous versions won't be available.
10. API scatter chart has been replaced with Alarm Performance Indicator view.
11. Metrics thresholds are managed only at the Site level instead of Plants and Units.

3.4 Retired functionalities

1. Web viewer has been removed. Live events can be viewed using the Live viewer.
2. API Scatter chart over time report has been removed.
3. Excel Add-in component has been removed. All reports now support exporting to Excel.

4. DB Backup and restore utility has been removed.
5. The 'Report link Manager' has been dropped. Equivalent functionality is provided by the new Custom reporting capability.
6. The default filters capability has been removed.
7. The user preference persistence for dashboard scope selection has been postponed for future release.
8. On the iPhone layout, the Analyze screen has been removed.

4 Software/Hardware Compatibility

Refer to the DynAMo Metrics & Reporting R120.1 installation guides for this information.

5 Documentation Updates/Additional Information

This chapter describes the documentation updates provided with DynAMo Metrics & Reporting R120.1.

Table 2 – DynAMo Metrics & Reporting R120.1 Documentation

Document	File Name
DynAMo Metrics & Reporting Software Change Notice	DynAMo_MetricsAndReporting_R120.1_SCN.pdf
DynAMo Metrics & Reporting Installation Guide	DynAMo Metrics & Reporting Installation Guide.pdf
DynAMo Metrics & Reporting Configuration and User Guide	Covered in the online help available with the product.

6 Problems Resolved

This section provides an overview of the problems resolved in this release.

PAR#	Description
39476	Parature # 1211-8330657 Error 500 configuring collector channel ODBC connection
42453	Dashboard Metrics threshold values are multiplied when we select multiple Areas in the scope

7 Installation and Migration

- The installer does not support upgrading the older versions directly. Uninstallation of the older releases is required before proceeding with the installation of DynAMo Metrics & Reporting 120.1.
- DynAMo Metrics & Reporting 120.1 uses a new database (& new schema). The migration utility that's supplied in this release enables creating the new database and migrate the event data from the earlier versions.
- Only the Event data would be migrated. Other configurations such as users, schedules, interlock configurations etc., are not migrated.
- Event data migration from Oracle databases is not supported.

For the complete steps and prerequisites on installation and migration, please refer the DynAMo Metrics & Reporting 120.1 Installation guide.

8 Known Issues

Based on information and data available at the time of publishing, this section describes known issues related to this release.

Description	PAR#	Workaround
Scope based security is not possible directly. This can be done using the data model permissions.	45301	This can be done using the data model permissions.
SOE report does not display all the event attributes (including the custom fields).	45302	
The PDF export of the reports and the scheduled reports would have only the default columns.	45304	
The migrated event comments do not show up in the SOE report.	45303	
Post uninstallation some manual cleanup may be required before reusing the same machine for installing DynAMo Metrics & Reporting 120.1	45305	
Scheduled reports ignore the configured Time slice option when duration option is explicitly configured in schedule.	45298	
When the application is installed in https mode, the installer does not set the 'Require SSL' option at the Core System level. This has to be done manually to prevent non https access.	45306	
INST_Unable to proceed installation, whenever Archiver and collector config files are pointed	44704	
In Alarm Assessment view, Only clicking the bar refreshes the grid but not the top metrics.	41910	
On selecting the future date, Stale considers the current alarm open till future date and reports it as stale.	44390	
Modifying the schedule is pushing the schedule to end of the list	44513	
User define fields, Filter1, Filter2, Filter3 label is not modifiable in the Rules Builder.	44617	Names are exposed in the resource file and can be modified.
Viewer doesn't support displaying localized events	42682	
Sometimes Restarting Archive interface/Analyzer service throws error " error 1053 service did not respond to start"	42695	Restart the machine or kill the archiverinterface service.exe/DynAMo Analyzer

Browser goes to un-responsive state in APO report when interval is selected as 10 minutes with 29 KPI selected.	44925	Reduce the number of KPI to view for ten minutes interval
In Alarm count view, Alarm count show by time chart for fails to show the X-axis label.	45030	Use grid to view the date.

9 Security-Related Issues

There are no outstanding security issues known at this time. For additional security related instructions, please refer to the DynAMo Metrics & Reporting 120.1 Installation guide.

10 Third-Party Software Components

Third-party components used
INFRAGISTICS.EXCEL.V5.3.DLL
INFRAGISTICS.WEBUI.MISC.V5.3.DLL
INFRAGISTICS.WEBUI.SHARED.V5.3.DLL
INFRAGISTICS.WEBUI.ULTRAWEBGRID.EXCELEXPORT.V5.3.DLL
INFRAGISTICS.WEBUI.ULTRAWEBGRID.V5.3.DLL
INFRAGISTICS.WEBUI.ULTRAWEBLISTBAR.V5.3.DLL
INFRAGISTICS.WEBUI.ULTRAWEBNAVIGATOR.V5.3.DLL
INFRAGISTICS.WEBUI.ULTRAWEBTOOLBAR.V5.3.DLL
INFRAGISTICS.WEBUI.WEBCOMBO.V5.3.DLL
INFRAGISTICS.WEBUI.WEBDATAINPUT.V5.3.DLL
INFRAGISTICS.WEBUI.WEBDATECHOOSER.V5.3.DLL
INFRAGISTICS.WEBUI.WEBSCHEDULE.V5.3.DLL
VSFLEX7.OCX
VSFLEX7L.OCX
VSFLEX7N.OCX
VSFLEX7U.OCX
ACTRPT2.DLL
ARVIEW2.OCX
PDFEXPT.DLL
DHTMLXGrid V25
AfalinaSoft Active XL Report version 4

Infragistics
UltraGrid 2
AfalinaSoft Active XL Report version 4
DHTMLXGrid V25
VBUnit v 3.06.02 Retail
WinHTTP
Kendo UI
EO PDF 2015
High Charts 2015

Open Source libraries used
Log4NET
Log4J
Jquery
Knockout JS
Bootstrap JS
jQuery UI 1.10.3
JQuery Plugin: Knockout.mapping plugin 2.0
Bootbox.js
Dotnetzip
Json.NET
Commons Logging
Java Architecture for XML Binding
Javabeans activation framework
JavaMail
Jax-ws
JAXB 2.x Commons
Jetty
Metro
MTJUnit
ORO
SAAJ
SAX
W3C DOM
winfoldersjava
WSDL4J