



HONEYWELL FORGE OPERATIONS MANAGEMENT

RELEASE R242.1

Software Change Notice

DOS-R242.1-en-111A

December 2020

DISCLAIMER

This document contains Honeywell proprietary information.

Information contained herein is to be used solely for the purpose submitted, and no part of this document or its contents shall be reproduced, published, or disclosed to a third party without the express permission of Honeywell International Sàrl.

While this information is presented in good faith and believed to be accurate, Honeywell disclaims the implied warranties of merchantability and fitness for a purpose and makes no express warranties except as may be stated in its written agreement with and for its customer.

In no event is Honeywell liable to anyone for any direct, special, or consequential damages. The information and specifications in this document are subject to change without notice.

Copyright 2020- Honeywell International Sàrl

Table of contents

INTRODUCTION	5
Overview 5	
NEW FEATURES AND ENHANCEMENTS.....	6
Forge Operations Monitoring	6
Ability to change target's calculation type.....	6
Target suspension UI enhancements.....	6
Quick Reason Entry (QRE) UI enhancements.....	6
Suspend One sided limit Monitoring.....	6
Forge Operating Instructions	6
"Null" Limit support- Disabling limit monitoring.....	6
Forge Operations Logbook	6
In-line comment entry usability improvements.....	6
Auto refresh enhancement.....	6
Standing order UI enhancement.....	7
Task Snippet – Multi select and show comments	7
Forge Operations Task	7
Task work flow enhancements.....	7
Task template support.....	7
Task UI enhancements	7
Limit Repository.....	8
Blank Limits- NULL Values	8
Variable integrity check	8
LR enhancements.....	8
Common Honeywell Forge Operations Management Enhancements	8
Asset Integrity check.....	8
GENERAL INFORMATION.....	9
Upgrade paths supported:.....	9
Issues Addressed in this Release.....	9
Special Considerations	9
Documentation Updates/Additional Information.....	10
Documentation Updates.....	11
Help Center.....	11
Easy Access to Help Center.....	12
PDF Help Documents.....	12
Easy Access to the PDF Documents.....	14

Supported browser and Resolution	14
Recommended date and time settings.....	14
Recommendation for SQL Plugin Load Balancing	14
Security Considerations.....	15

Introduction

Overview

Honeywell's Forge Operations Management includes the Forge Operations Logbook, Forge Operations Monitoring applications, Limit Repository, Forge Operating Instructions, and Forge Operations Task.

Forge Operations Logbook helps personnel across the plant who work together to achieve greater operational reliability. The electronic log consolidates information from different sources to provide a consistent and up-to-date view of key process data, problems, operating plans, and shift log. A well-designed shift summary report is the basis for an effective and secure shift handover that is critical to the efficiency and safety of the operations.

Forge Operations Monitoring enables your operations team to keep the process in the safe and profitable best operating zone. Forge Operations Monitoring proactively monitors plant processes, ensuring that the operations safely stay within optimal production envelopes, and ensure the integrity of the operating windows. With tools designed to manage and control critical limits and process deviations, Forge Operations Monitoring boosts the reliability, safety, and efficiency of plant operations.

Forge Operations Tasks is an optional feature of Forge Operations Tasks which enables users (Operations planners, Supervisors, Operators, and so on) to manage the routine and ad hoc tasks that the members of the operations team are required to execute in each shift. Forge Operations Tasks also has a Meeting functionality that allows users to capture the notes and actions of operations meetings that can be tracked using Forge Operations Tasks.

Forge Operating Instructions is an optional feature of Forge Operations Monitoring. An Instruction applies to some part of a process plant - which may be the entire plant, a process unit, or a single piece of equipment. An instruction has start and end dates, some notes providing information, and target details (optional). Each target has a minimum, maximum, and/or focus values for the process data. For example, a target detail can define a minimum and maximum range for a temperature, or a desired (focus) production rate, or minimum product quality. The numerical targets such as low, high, and focus values are called Limits. These limits can be downloaded and can be used for monitoring using Forge Operations Monitoring.

Limit Repository, a software application delivered with Forge Operations Monitoring, is used to integrate the Forge Operations Management applications. Limit Repository provides a comprehensive view of limits from many applications, making it possible to see the limits together and in context, regardless of the source.

New Features and Enhancements

This general release of Honeywell Forge Operations Management R242.1 includes the following new features:

Forge Operations Monitoring

Ability to change target's calculation type

Application Administrators can change the target calculation type when the target is not in deviation.

Target suspension UI enhancements

- Suspension grid supports column selection, reordering and resizing. The page now supports user preference, auto refresh, filtering and sorting.
- Additional columns are added to grid for details of Suspension and revoke actions (When, Who, Remarks)

Quick Reason Entry (QRE) UI enhancements

- When user selects the reason in-line entry the UI visually hints there is a drop-down to search and select reason codes consistent to asset selection control.
- For multi-reason selection user must use pop-up detail analysis UI from action bar.

Suspend One sided limit Monitoring

Process targets configuration supports to switch off monitoring on one side of the limit by setting the limits blank (NULL).

Forge Operating Instructions

"Null" Limit support- Disabling limit monitoring

When planner decides not to monitor any side of a limit it is possible to download blank (NULL) limits from instructions.

Forge Operations Logbook

In-line comment entry usability improvements

All snippets which include In-line comment entry are enhanced to have better readability

Auto refresh enhancement

Auto Refresh occurs when the system is idle and not being interacted with. Users are not distracted during shift report update.

Standing order UI enhancement

- Standing Order UI readability is improved with introduction of "Show More / Show Less" toggle option for description field.
- UI layout enhancement for better usability and quick review of standing orders.

Task Snippet – Multi select and show comments

- Task snippet allows selection of multiple state filters in single snippet which helps in optimizing the snippets.
- Task snippet can optionally show the comments in shift report for quick reference without navigating away from shift report.

Forge Operations Task

Task work flow enhancements

Tasks support the following workflows:

- Pause & Resume with comments.
- Cancel with comments.

Task template support

- Ability to create templates and copy a task as template.
- Optionally include child assets' templates to view from parent level.
- Recurrence templates can be modified from next instance onwards.
- Tasks created from meetings also support templates selection.

Task UI enhancements

- Multiple tasks of same state can be selected to update in bulk.
- Additional columns are added to task summary UI with Description, Asset and Author
- Filter status added for cancelled, Paused tasks.
- Ability to Copy a task.
- Improved usability on task summary view with the introduction of bar chart in place of doughnut chart.
- Ability to AUTO-assign a task name upon creation.

Limit Repository

Blank Limits- NULL Values

LR now allows updating the Limit value as NULL (blank). Deviation monitoring suppresses processing for that limit.

Variable integrity check

- LR variables, limits and constraints now contain application references so that deletion is not allowed until de-referencing all the references.
- Quick way of viewing application references and shortcuts to navigate monitoring and instruction is available.
- Messages are shown for the user to be aware of the references.

LR enhancements

- Batching solution for LR-LR synchronization to handle heavy loads which avoids using off-line utilities during initial setup of LR.
- Tag mapping is supported to translate between process and business layers so that the limits are synchronized to right variables.
- Display name customization from LR settings for constraints, boundaries and operating limits to adapt to customer business process terms.
- Ability to set default boundaries for operating limits in limit type configuration saves explicit selection of boundaries per variable operating limit.
- LR console grid has been further enhanced to bring results faster.

Common Honeywell Forge Operations Management Enhancements

Asset Integrity check

From Operations management Asset configuration UI [Not CAM component Asset configuration UI] and excel clients, if user tries to delete an asset the asset references are checked from applications in Operations Management and user is stopped from deleting it unless it is dereferenced.

General Information

Upgrade paths supported:

- R240.X to R242.1
- R241.X to R242.1
- R230.X to R242.1

Issues Addressed in this Release

The following issues are addressed in R242.1 release.

Description	Application	PAR ID(s)/ RQUP
In DOM summary, Last Processed time few targets in DOS servers showing Future	Monitoring	1-B1NHTUF
The logbook template creation is throwing error "please contact system administrator"	Logbook	1-CWFGDCL
In DOS, Error while opening Task attachments	Tasks	1-CR486JF
Tasks -overlapping task view shows nothing	Tasks	1-CX9HO8H
Time of activity is giving wrong message for time control with now, comment not visible after post	Logbook	1-CV42QP1
Perform Submit action on Task Summary grid view will automatically go back to first page.	Task	1-9LQB47X
IE developer shows few files are missing when navigated across application pages	common	1-AIEO8VL
The shift/tag-based deviation split does not work	Monitoring	1-DEHHN6L
If we have activated instruction permission for the Operator still instruction Activation gets fail	Instruction	1-CA2F4F3
Cursor does not remain at one place in snippet while creating the logbook initially	Logbook	1-B62LH81

Special Considerations

The following table lists issues present in the R242.1 release.

Description	Workaround	PAR ID(s)
In Upgradation Scenarios, before installing Forge operations Logbook or Monitoring on Systems having Forge operations Monitoring release less than 241.2, steps given in workaround has to be followed before running installation.	<ol style="list-style-type: none"> 1. Open installation media of FOM or FOL. 2. Navigate to the location Software>PreinstallUtility. 3. Right-click the DeleteReg.bat file and select Run as administrator. 4. Restart the machine. 	RDOS-7475
In Three Server setup, inbound urls in Limit Repository's Application Reference pop-up of Variable and Constraints will not work.	<ol style="list-style-type: none"> 1. Go to Limit Repository>Administration >Settings page. 2. Select Webserver Machine Name setting. 3. Edit value and enter web server full name. 4. Click Save. 	RDOS- 7474
Wrong Virtual Boundaries values are shown in Limit Repository's Variable Limits page when View All Virtual Boundary option is selected.	For the fix, reach out to Honeywell support team.	1-DHPH3LF

Documentation Updates/Additional Information

The Honeywell Forge Operations Management R242.1 includes:

- Forge Operations Monitoring including the Limit Repository
- Forge Operations Logbook
- Forge Operations Tasks
- Forge Operating Instructions
- Limit Repository – LR Integration guide updates
- Honeywell Forge Operations Management Integration with Honeywell Connected Plant Portal
- Honeywell Forge Operations Management Install guide
- Security Consideration guide

Honeywell Forge Operations Management includes Forge Operations Monitoring, Forge Operations Logbook, Forge Operating Instructions, and Forge Operations Task. Forge Operations Monitoring and Forge Operations Logbook can be ordered separately or together. Forge Operations Monitoring can also be ordered with the optional Forge Operating Instructions. Forge Operations Logbook can be ordered with the optional Forge Operations Task.

Apart from the Forge Operations Monitoring media and the Forge Operations Logbook media, Forge Operating Instructions and Forge Operations Task are delivered on two separate installation media.

Limit Repository is also a separate media which can be used for Limit Repository deployments in level three.

Documentation Updates

Help Center

The following documentation of Honeywell Forge Operations Monitoring, Logbook, and Limit Repository are available as Help Center. Help Center is an HTML based online version of the user guide and configuration guide with optimized search capabilities.

The Help Centre is available as an MSI along with the install media. You can install the MSI to deploy the Help Center to your local machine.

You can open the respective Help Center at any point of time from the following applications:


- Monitoring
- Logbook
- Limit Repository

Documents	Description
Honeywell Forge Operations Monitoring Configuration Guide	Both these documents are merged into single Help center. NOTE:
Honeywell Forge Operations Monitoring User's Guide	<i>This Help Center contains the help information related to the Instruction application.</i>
Honeywell Forge Operations Logbook Configuration Guide	Both these documents are merged into single Help center. NOTE:
Honeywell Forge Operations Logbook User's Guide	This Help Center contains the help information related to the Task application.

Documents	Description
Honeywell Forge Operations Limit Repository User's Guide	This document is available as Help Center.

Easy Access to Help Center

To open the Help Center,

- In the application console page, on the top-right corner, click .
The respective application's Help Center opens.

PDF Help Documents

The following documentation of Honeywell Forge Operations applications are available in the PDF format.

Documents	Document ID	Description
Honeywell Forge Operations Localization Guide	DOS-LG-241.2	This guide describes the procedure on how to localize the Forge Operations applications to other language.
Honeywell Forge Operating Instructions Integration Guide	FOI-INT-242.1	This guide describes the WCF service available to the programmers for Operations Instruction application.
Honeywell Forge Operations Monitoring Installation Guide	Forge Operations Management-INS-242.1	This guide describes the procedure to install and upgrade Forge Operations Management and its components.
Honeywell Forge Operations Monitoring Configuration Guide	FOM-CFG-242.1	This guide explains the procedure to configure the Operations Monitoring application and Instructions application.
Honeywell Forge Operations Monitoring User's Guide	FOM-USR R242.1	This guide describes the procedure to use the Operations Monitoring application and Instruction application.
Honeywell Forge Operations Monitoring Integration Guide	DOM-INT-242.1	This guide describes the WCF services available to the programmers for Operations Monitoring application.
Honeywell Forge Operations Management Security Consideration Guide	HFOM-SC-242.1	This guide describes the security consideration information.
Honeywell Forge Operations Logbook Configuration Guide	DOL-CFG	This guide describes the procedure to configure the Honeywell Forge Operations Logbook application and Task application.
Honeywell Forge Operations Logbook User's Guide	DOL-USR	This guide describes the procedure to use the Operations Logbook application and Task application.
Honeywell Forge Operations Logbook Integration Guide	DOL-INT-242.1	This guide describes the WCF services available to the programmers of Honeywell Forge Operations Logbook application.

Documents	Document ID	Description
Honeywell Forge Operations Limit Repository Installation Guide	LR-INS-242.1	This guide describes the procedure to install the Limit Repository application and its components.
Honeywell Forge Operations Limit Repository User's Guide	FRGDOC-X665-en-2421A	This guide describes the procedure to configure and use the Limit Repository application and its components.
Honeywell Forge Operations Limit Repository Integration Guide	LR-INT-242.1	This guide describes the WCF services available to programmers for Limit Repository application.

Easy Access to the PDF Documents

To access the PDF documents, go to the following location:

- For Dynamo Operations Monitoring: Go to **DOMR242.1>Documents**
- For Dynamo Operations Logbook: Go to **DOLR242.1>Documents**
- For Limit Repository: Go to **LRR242.1>Documents**

Supported browser and Resolution

Microsoft Internet Explorer Version 11.0.95 (KB4466536) and Google Chrome 77.0 are qualified with the current release.

The user interface screens of Honeywell Forge Operations Management are best viewed with a screen resolution of 1280px x 960px or higher.

Recommended date and time settings

It is recommended to ensure server and client in same time zone and regional settings.

If client is different than server the client renders the data in whatever regional settings the client browsers are set. The reports generated will have the server-side settings as they are stored in servers.

Recommendation for SQL Plugin Load Balancing

In SQL Plugin connections, it is recommended not to have more than 25 queries per service instance. If there are more than 25 queries, it is advised to split the load between multiple service instances for improving the performance.

Security Considerations

For Security Consideration of Honeywell Forge Operations Management, see the Security Configuration guide.

Honeywell Process Solutions

2101 CityWest Blvd.
Houston, TX 77042
Honeywell House, Skimped Hill Lane
Bracknell, Berkshire, RG12 1EB

Building #1, 555 Huanke Road, Zhangjiang
Hi-Tech Park,
Pudong New Area, Shanghai, China 201203

www.honeywellprocess.com

<<DocumentID>>
December 2020
© 2020 Honeywell International Sàrl

Honeywell