



# APM - What's New



GE VERNOVA

# Contents

<b>Chapter 1: Overview</b>	<b>1</b>
About the What's New Document	2
<b>Chapter 2: What's New in V5.1.x</b>	<b>3</b>
5.1.4.0.0	4
5.1.3.0.0	4
5.1.2.0.0	5
5.1.1.0.0	7
5.1.0.0.0	8

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# Chapter 1

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## Overview

### Topics:

- [About the What's New Document](#)

## About the What's New Document

The What's New document describes the most important changes in each APM version. You can view the content sorted by the release number.

**Note:**

- The What's New document only contains the most important changes; for a list of all the changes in the release, refer to the Release Notes document.
- If you are using customized database content, the behavior that you see in your system may differ from that described here.

# Chapter 2

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## What's New in V5.1.x

### Topics:

- [5.1.4.0.0](#)
- [5.1.3.0.0](#)
- [5.1.2.0.0](#)
- [5.1.1.0.0](#)
- [5.1.0.0.0](#)

## 5.1.4.0.0

### What's New in 5.1.4.0.0

This release does not include any new features. However, it includes fixes for issues that existed in one or more previous releases, and have been resolved in V5.1.4.0.0. For details, refer to the Release Notes.

## 5.1.3.0.0

### Visual Changes

- **Inspection Management:** You can now view data related to an Inspection task (such as Task Execution and Confirmation). You can also configure additional related records. This will considerably reduce the number of clicks to view information related to the Inspection Task. For more information, refer to Access the Related Records of an Inspection Task.
- **Risk Based Inspection:**
  - You can now view the risk results of Damage Mechanisms for all RBI components associated with an asset. This will considerably reduce the number of clicks to understand the RBI risk for all RBI components related to an asset.
  - You can now navigate to the Asset Health Manager module for an asset from the **RBI Asset Overview** and **RBI Inspection Plan** workspaces using the new **Asset Health Manager** link in the Asset Info Summary.

### Performance Improvements

- **Asset Criticality Analysis:** Performance has been improved when adding an asset to an Asset Criticality Analysis because of using the Asset Finder functionality.
- **Asset Strategy Implementation:** Performance has been improved in the **Actions** section in the **ASI Overview** page.
- **Asset Strategy Management:** Performance has been improved in the following workflows:
  - Creating Actions and Risks
  - Activating an Asset Strategy or Asset Strategy Template
  - Creating an Asset Strategy (now uses the Asset Finder functionality)
  - Looking for Assets to apply a template (now uses the Asset Finder functionality)
- **Failure Modes and Effects Analysis:** Performance has been improved when adding an asset to an FMEA Analysis because of using the Asset Finder functionality.
- **Reliability Analytics:** When running a scenario in System Reliability, you can now set a simulation time limit. The simulation runs for the specified time limit before initiating a timeout.

### Features and Enhancements

- **360 View:** You can now specify a Graph or Query catalog item in the Content Path field of a 360 View Tab Config record, and the selected item will be displayed as a Graph, Query, or Map in the 360 View. For more information, refer to About Configuring 360 View Definitions.
- **Family Policies:**
  - You can now configure the Email node to send a plain text email.



- To enhance usability and simplify entity value comparison, a new input node named Previous Entity has been added in the Before Update family policy. For more information, refer to Previous Entity Nodes in Family Policies.
- You can now configure the behavior of a field to display the Asset Finder. For more information, refer to About Behaviour Section Fields.
- **Rounds Pro:** You can now create and update records in bulk using the new Rounds Pro Step Readings Data Loader. The Data Loader uses the baseline Rounds Pro data model to create Step Readings and link them with the other records used in Rounds Pro. Using the Data Loader, you can create and update Step Readings records for a Route Instance. For more information, refer to About the Rounds Pro Data Loaders.
- **Security Manager:** To enable exporting a query to a file and to support scheduled export a baseline Security Group, Security Group for Query Export has been assigned to the following Security Roles:
  - MI Foundation Admin
  - MI Foundation Power
  - MI Foundation User
- **Thickness Monitoring:** You can now define bands up to 36 and 48 positions to help visualize thickness measurement locations and its related corrosion analysis for larger diameter piping asset. You cannot, however, rotate or flip a piping component with such bands. For more information, refer to About Piping Rotation and Flip.

## 5.1.2.0.0

### Software Support

- Rules Editor now supports Microsoft Visual Studio 2022.

### Visual Changes

- To enhance usability, the following modules have been moved from INTEGRITY to a new section named SAFETY in the module navigation menu:
  - Hazards Analysis
  - Layers of Protection Analysis
  - Management of Change
  - Mobile Proof Testing
  - SIS Management
- To enhance usability, for an RBI analysis, the **Calculate** icon color now changes to orange if recalculation is required in the following scenarios:
  - Update any input fields in an RBI Analysis except Asset ID, Component, Component Description, Component Comments, Analysis ID, Analysis Type, Scenario ID, Scenario Reference date, and Functional Location.
  - Update any input fields in the related RBI Consequence except Consequence, Evaluation ID, and Comments. Update any input fields in an RBI Degradation Mechanism except Degradation Mechanism, Degradation Mechanism Description, and Deg Mech Comments.
  - Update any input fields in an RBI Degradation Mechanism Evaluation except Damage Mechanism, Damage Comments, and Probability Category Description.
  - Add or delete Degradation Mechanisms from the RBI Analysis.

This behavior is applicable to all RBI Analyses except RBI Pipeline Analysis.

## Features and Enhancements

- **APM Connect:** To enhance APM product solution, GE Vernova periodically updates the technology used within the supported software. As part of the APM Connect technology replacement, Talend has been replaced with Boomi as the integration tool. This change is aimed at enhancing the integration capabilities of APM Connect offering. The APM Connect versions impacted by this update are APM Connect Base version 3 and all APM Connect versions integrating with APM hosted on GE Vernova Cloud.
- **Rounds Pro:** You can now migrate data from Legacy Rounds to Rounds Pro. To facilitate this enhancement, a Migration Tool has been added to the Rounds Designer Admin user interface that enables you to seamlessly migrate existing Legacy Rounds data to Rounds Pro.
- **Asset Strategy Implementation:** To improve efficiency and to support creating and updating records in bulk, the Asset Strategy Implementation (ASI) Data Loader has been introduced. The Data Loader uses the baseline ASI data model to create records and link them to one another. Using the Data Loader, you can perform the following tasks:
  - Create and update Implementation Packages and Maintenance Packages containing all baseline Work Management Items (WMIs) in bulk.
  - Import custom WMIs that you have configured using the ASI Admin options.

In addition, you can now export Implementation Packages, Maintenance Plans, and MIs in bulk using the new Export ASI Package feature. You can also export any custom WMI families. You can then use the exported package as a template to the Asset Strategy Implementation (ASI) Data Loader.

To facilitate these new features, the following fields have been added in the ASI Admin options:

- **Lookup Fields For Data loader and Export:** Used to identify the records that you want to import using the Data Loader or export.
- **Exclude Fields From Export:** Used to provide the list of fields that you want to exclude while exporting a package.

The Data Loader, combined with the Export ASI Package feature, greatly enhances the efficiency in creating, updating, and exporting ASI data in bulk.

## End-of-Life Features

- Product support for following APM versions ended on December 31, 2023. Refer to GE Digital's product support policy (KBA 000043438) for more information.
  - 4.4
  - 4.3.1
  - 4.3.0.7
  - 4.3.0.6.9
  - 4.3
  - 4.2
- APM Connect Base 1.X and all versions of APM with APM Connect Base 2.X, except APM version 4.5, are End-of-Life (EOL) on or before December 31, 2023. For more details, refer to the GE Digital On-Premise Product Lifecycle Policy for APM and Platform Product Suites available in the customer portal. This change does not affect other areas of the APM product solution. The deadline to complete the technology replacement is December 13, 2024.

## 5.1.1.0.0

### Visual Changes

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### Features and Enhancements

- **Rounds Pro:**
  - The search and sort functionality has been enhanced on all the Rounds Pro pages (Route Master, Open Instances, Instance History, and Steps).
  - To simplify the data loading process, the Rounds Pro Step Data Loader now has two additional columns for the CMMS System and Equipment Technical Number fields.
  - To simplify the process of creating steps, the Allow Photos feature is now available in the Rounds Pro Step Template itself; you can specify whether capturing photos is allowed in the step template itself, which will be cascaded to the steps created using the template.
  - To assist in resolving login issues, the Rounds Pro mobile app now has additional error details on the login page.

## 5.1.0.0.0

### Software Support

- R Server 8.0.0 and Machine Learning Server are out of support by Microsoft and, as a result, will no longer be supported for use with APM. Now, the only supported option for R Script is RServe.

### Performance Improvements

- Creating Route Instance is much faster now, especially for route masters with plenty of reference documents.
- In the Rounds Pro mobile app, performance on loading the **My Routes** page has been improved.

### Features and Enhancements

- Compared to the ASI module in a previous version of On-Premises APM, the new version offers the following benefits:
  - **Improved performance and user experience:** You can complete time-sensitive workflows more efficiently.
  - **On-demand implementation:** You can send data requests as needed at various levels of the implementation package, which improves performance and quicker completion of tasks.
  - **On-demand data validation:** You can validate data on-demand before implementation to help reduce mistakes, ensure data quality, and enforce adherence to customer-specific master data standards.
  - **Simplified import and export capabilities:** You can configure custom import and export workflows without rules customization.
  - **Policy-based field mappings:** You can leverage out-of-the-box flexibility and control of field mappings without rules customization.
  - **Enhanced field search parameter configuration:** You can leverage out-of-the-box flexibility and control of field lookup parameters without rules customization.
- The 360 View module has been introduced. This module provides a new visualization capability for Asset Hierarchy. Depending on your role and the type and site of the selected asset, you can configure dashboards and other visualizations to be displayed. You can further personalize your 360 View pages, including saving your favorite assets, choosing your default view for a given asset type, and selecting your preferred role. For more information, refer to the 360 View documentation.
- A new Ingestion API has been provided to ingest a minimal set of records into the GE Digital APM families.
- Support for Korean language has been added.
- In Risk Based Inspection (RBI) 581, changes have been made as per API 581 Third Edition, Addendum 2. Some of the key changes include (but not limited to):
  - Impact of coating failure for External Cracking and External Damage Mechanisms
  - Age calculation for External Cracking and External Damage Mechanisms
  - Release type calculation for Consequence of Failure calculation

For a list of all the changes, refer to [Risk Based Inspection](#).

- The Integrity Mobile application now supports visualization of scope and ability to annotate PDF documents as per of field inspection.

- You can now upload reference documents to be stored in APM in bulk. To facilitate this enhancement, a new option, **Reference Document Bulk Upload**, has been added in the **Operations Manager** page under **Admin**.

## **End-of-Life Features**

- To support Asset Strategy Implementation (ASI) on cloud, rule-based customizations will no longer be valid (except the customizations for Package Builder, PRT Report Builder, and Object List Items Import). If you created rule-based customization in a previous version of APM, you must reconfigure them using the **Asset Strategy Implementation Admin** page.