



GE VERNOVA

Asset Performance Management
On-Premises APM
V5.2.2.0.0

APM - What's New

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Chapter 1

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

What's New in V5.2.x

Topics:

- [V5.2.2.0.0](#)
- [V5.2.1.0.0](#)
- [V5.2.0.0.0](#)

V5.2.2.0.0

APM V5.2 Training Updates

Dive into the latest Asset Performance Management (APM) version 5.2 release with exclusive insights from our product experts. Join the [51000 APM V5.2.X Product Updates](#) self-paced eLearning course to explore overviews and demonstrations of recent enhancements and features. This course is your gateway to mastering the exciting innovations of APM V5.2, ensuring you're fully prepared to leverage its capabilities. Don't miss out on this opportunity to stay ahead with the newest advancements in APM!

This self-paced eLearning course is available through [EDGE](#), the learning management system for all APM training. To access this and other courses, you need an account. Click to [register for an account](#). ([Instructions](#)).

Software Support

- APM now supports Elasticsearch v8.17.x.

Visual Changes

- **Generation Availability Analysis:** New EIA fuel code fields have been added in the GAA Performance Fuel family, which are used to populate based on the corresponding GAA Unit Entity when you create a Performance record for a month and year for that GAA Unit.
- **Graphs:** You can now apply Point Padding, Show Label Outline, and Label Outline Color to heatmap graph types. To facilitate this enhancement, these options for the heatmap graph types have been added to the graph settings menu.
- **Inspection Management:** A new section named **Inspection Recommendations** has been added to the **Inspection Details** page, allowing you to view, search, delete, and supersede Inspection Recommendations. For more information, refer to Inspection Tasks and Recommendations.
- **Risk based Inspection:** Schematic View (2D visualization) has been added in RBI Corrosion Loops. This capability will allow you to:
 - Map the linked RBI Components
 - Visualize the risk of the Components using color coding
 - View risk information of the Components
 - Download the schematic image
 - Render industrial drawing formats to plot RBI Components.

For more information, refer to Schematic View.

- **Root Cause Analysis:** The RCA Event Timeline has been enhanced to provide a more intuitive way of creating and modifying Secondary Events by means a toggle button for Primary and Secondary events. For more information, refer to Add a Secondary Event to the RCA Timeline.
- **Rounds Pro:** Language Localization support has been introduced (that is, all text will appear in the logged-in user's language).

Features and Enhancements

- **Asset Strategy Management:**

- You can now apply an Asset Strategy Template using a new method, which allows you to apply both Risks and Actions from maximum two separate Asset Strategy Templates. In the Asset Strategies to which you apply the Template, you can also manually add additional Risks and Actions, thus resulting in an Asset Strategy that contains elements from a combination of sources.
- In the **Bulk Update Actions** page in a System Strategy, you can now modify multiple Actions in bulk, thus enhancing usability and efficiency.
- **Import and Export:** You can now import and export Advanced Visualization reports using the Import and Export tool. For instructions, refer to Import and Export Records and Links.
- **Inspection Management:**
 - Support for Deferrals has been extended to Inspection Recommendations. You can defer an Inspection Recommendation by accessing the Recommendation or by using the Inspection Management Data Loaders. For instructions, refer to Defer an Inspection Recommendation.
 - Using the Inspection Management Data Loaders, you can now create multiple Inspection Profiles of the same category, provided you enter a different Item Description for each Inspection Profile.
 - For Inspection Tasks and Inspection Recommendations, the date filter that you set is saved as a user preference, superseding the default admin preference.
- **Generation Availability Analysis (GAA):**
 - You can now generate Performance Records in bulk for CEA units, including All Events and excluding OMC records.
 - You can now download Performance Reports for CEA units in single or multiple files.
 - The Unit Types for CEA unit have been reviewed and adjusted to comply with the CEA Generation Manual 2019 document.
- **Record Manager:** In a bulk data form, you can now update multiple rows in bulk (up to 50 records at a time). In addition, the cascading drop-down list box values appear. After you select **Apply**, each row that you have updated is indicated by the text **Modified**, and the changes are saved after you select **Save**.
- **Risk Based Inspection (RBI) 581:**
 - You can now override the calculated SHE Consequence Area on the RBI 581 Consequence Evaluation. The User SHE Consequence Area will then be used to calculate SHE Risk on the related Damage Mechanisms and parent RBI 581 Risk Analysis. Additionally, the User SHE Consequence Area will be mapped to the ISO Risk Graph and Risk Matrix.
 - RBI 581 HE Bundle Damage Evaluation is now supported in the RBI 581 Data Loader and while exporting an RBI 581 Risk Analysis.
- **Rounds Pro:**
 - Lubrication management is now available in Rounds Pro. Also, you can use the migration tool to migrate Lubrication Management from legacy Rounds Designer to Rounds Pro. For more information, refer to About Lubricants.
 - The migration process has been simplified. You can now migrate legacy Readings to Rounds Pro Step Readings. Also, you can unlink Operator Rounds Recommendations from Legacy Rounds Checkpoints and link them to Rounds Pro Steps. For more information, refer to About Legacy Migration Tool.
- **SIS Management:**
 - You can now copy an Instrumented Functions within the same SIL Analysis. For instructions, refer to Copy an Instrumented Function.
 - You can link an Inspection Task to multiple Instrumented Functions linked to the same Asset.

- **Thickness Monitoring:** Sending and receiving data from the GE DMS Go/Go+ Datalogger is now captured in Datalogger History records. When sending data to the device, you must now specify the file name and user (captured as Measurement Taken By). Also, assets associated with TML Groups can now be sent as a single file, which allows you to skip between TMLs within a TML group. For instructions, refer to Send Data to a Datalogger and Receive Data from a Datalogger.

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Features and Enhancements

- **Calibration Management:** You can now configure the date filters used to display Calibration Tasks in the Calibration Queue section of the **Calibration Management Overview** page.
- **Policy Designer:** You can now mark **API Credentials** entries as Private. If marked as Private, only you can access by login in the Policy Designer API node.
- **Record Manager:** You can now export data from a Bulk Data Form or a Master Detail Form to an excel format.
- **RBI 581:**The **RBI 581 ISO-Risk Plot** now displays the SHE Risk Target and Financial Risk Target lines.
- **Rounds Pro:**
 - You can now update or delete a Rounds Pro Schedule.
 - Compliance Tracking System has been added. Using this, you can now analyse the readings, visualize the readings, and query the compliance history to identify the frequently missed readings.
- **Rounds Pro Mobile App:** Rounds Pro mobile app is now available in a language as per your profile settings.

Performance Improvements

- **Inspection Management:** Performance has been improved when loading data using either the **ui** or **Inspection Management (IM) Functional Location** data loader.
- **RBI 581:** Performance has been improved when loading the **Risk Based Inspection Overview** workspace.

V5.2.0.0.0

Visual Changes

- **Asset Strategy Management:** You can now link Actions and Health Indicators independently of the implementation of the Action. This enables you to simultaneously and independently perform the following tasks:
 - Link a mitigating action to an implementation that will drive the execution of the work.
 - Link an action to one or more Health Indicators to monitor the output of the Action or the associated Risk.

In addition, you can filter Actions based on whether they are implemented. This feature helps you filter Actions that require an implementation update or Actions that are out of sync with the associated EAM Plan.

To facilitate these enhancements:

- Changes have been made in the **Implement Actions** workspace both at the Asset Strategy and the System Strategy levels.
- Changes have been made in the **Strategy Actions** section in Action Management.
- A new many-to-many relationship family named Health Monitoring has been created between Action/Action Revision families and the Health Indicator family.

For more information, refer to Link Existing Health Indicators.

- **SIS Management:** Breadcrumbs have been added to the **SIL Verification** page to aid navigation and improve usability.
- **Thickness Monitoring:** 2D Visualization (Schematic View) has been enhanced to support PDF Reference Documents with up to six pages as the Thickness Monitoring Schematic Image. If the document contains multiple pages, a page control is displayed in the Schematic view to allow switching between pages.

Performance Improvements

- **Asset Health Manager:** Performance has been enhanced while loading the **Asset Health Manager Overview** page.
- **Inspection Management:** Performance has been enhanced while loading large Inspection Recommendations.
- **Record Manager:** Performance has been enhanced while loading a record with many related records.
- **Risk Based Inspection:** Performance has been enhanced while loading the **Risk Based Inspection Overview** page.

Features and Enhancements

- **Calibration Management:** A new Data Loader named Calibration Management - Functional Test has been added to the Data Loader templates. This Data Loader can be used to load Functional Test calibration data in bulk. For more information, refer to About the Calibration Data Loaders.
- **Deferral:** You can now formally request for a deferral of an Inspection Task by providing the required details such as the reason for the request and the proposed deferral date. For more information, refer to Overview of the Deferral Workflow. In addition, a new data loader named Defer Inspection Tasks has been added to create, modify, and link Deferral records to Inspection Tasks. For more information, refer to About the Defer Inspection Tasks Data Loader.
- **Foundation:** To enhance usability, you can now open a maximum of 20 tabs in APM.
- **Generation Availability Analysis:** In addition to NERC, you can now create the events of the following types for CEA:
 - Maintenance Outage Extension (PEMO)
 - Planned Outage Extension (PEPO)

In addition, you can also create Performance Reports for CEA. For more information, refer to About Regulatory Reports.

- **Inspection Management:**
 - State Management is now supported for the Inspection Task family. For more information, refer to Inspection Management State Management.
 - TML scoping of Inspection Tasks is now supported; you can now export and import Inspection Tasks using a Data Loader. You can also create Inspection Events

- automatically after importing Thickness Measurements. For more information, refer to About the Link TMLs to Inspection Data Loader.
- **Queries:** To enhance the performance of Query Editor and APM, the **View Query** and **Query Editor Results** pages will no longer re-execute a query when you switch between the query results and other tabs.
 - **RBI 580 and RBI 581:** You can now customize field mappings for implementing Inspection Tasks from RBI Recommendations and RBI Inspection Plan Details. For more information, refer to Modify the Recommendation to Inspection Task Field Mappings.
 - **RBI 581:**
 - You can now perform an RBI 581 Risk Analysis on an RBI 581 HE Bundle Damage Evaluation. Using this feature, you can calculate the financial risk and perform inspection planning for heat exchanger bundles as per API 581 3rd Edition, Risk Based Inspection Methodology Part 5-Special Equipment- Heat Exchanger Tube Bundles.
 - You can now perform Inspection Planning at individual Degradation Mechanism level in the RBI 581 module. You can determine the Target Inspection Date at the Damage Mechanism level, which provides a granular approach to Inspection Planning. The Target Inspection Date is also calculated at the analysis level based on the driving Degradation Mechanism. For more information, refer to About Inspection Planning.
- Important:** This feature includes calculation changes.
- **Reliability Analytics:** A new data loader named Spares Data Loader has been added to load spare parts for an analysis. For more information, refer to About the Spares Data Loader.
 - **Rounds Pro:**
 - You can scan the barcode of a Step to access and unlock the Step. In addition, you can unlock multiple Steps with the same Scan ID at the same time.
 - Scanning NFC tags is now supported in Rounds Pro on Android devices. For more information, refer to the Rounds Pro Mobile documentation.
 - Step scheduling is now supported in Rounds Pro. Rounds Pro schedules are stored in a new family and can be associated with one or more Measurement Steps. Updating the schedule reflects the changes in all the associated Steps.
 - You can add a conditional step from an asset that is different from the parent asset. You can create routes at the system level, which combine multiple assets. For more information, refer to Create a Step Condition.
 - **SIS Management:** A new page to view Instrumented Systems has been introduced. Using an Instrumented System, you can now view the hierarchy of a Safety Instrumented System and its critical information in one place, which includes Instrumented Functions, Proof Test Tasks, Protective Instrumented Loops, and its elements. For more information, refer to About Instrumented System.
 - **Thickness Monitoring:**
 - The ATEX-compliant Olympus Epoch 650 datalogger is now supported. For more information, refer to About Dataloggers in Thickness Monitoring (TM).
 - TML scoping of Inspection Tasks is now supported; you can now export and import Inspection Tasks using a Data Loader. You can also create Inspection Events automatically after importing Thickness Measurements. For more information, refer to About the Link TMLs to Inspection Data Loader.
 - **Workflow Solutions:** A new accelerator workflow named Asset Health & Maintenance (AHMA) has been introduced. This workflow provides capabilities to evaluate the overall health condition of asset, identify potential faults, and take corrective actions to prevent unplanned downtimes. Policies are created to calculate health indicators for assets. In

addition, the Health Indicators are used to classify an asset as Normal, Warning, or Alert. For more information, refer to About Asset Health and Maintenance Assessment Workflow.

End-of-Life Features

- **Foundation:** We no longer serialize and deserialize data using BinaryFormatter. Instead, we now use JsonSerializer. A new utility must be run before upgrading the APM database to V5.2.0.0.0.
- **Inspection Field Data Collection:** The Inspection Field Data Collection module is no longer available in the GE Digital APM Mobile application or with the APM web client. You can now use the Integrity Mobile application available for Android and iOS devices.
- **APM Mobile Application:** The GE Digital APM mobile application no longer supports Android versions 7,8, and 9. You must upgrade to a supported version to continue using the mobile application. For details on the compatible versions, see the APM System Requirements documentation.