



# APM - What's New



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# Chapter 1

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## Overview

### Topics:

- [About What's New](#)

## About What's New

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 V5.2.x

### Topics:

- [V5.2.0.0.0](#)

## 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.