Release Notes

Contents

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Chapter

1

Overview

Topics:

- About Release Notes

About Release Notes

The APM Release Notes describe changes in the latest product. If you are using customized database content, the behavior that you see in your system may differ from what is described here. From Q1 2020, you can view the release notes sorted by quarter, and then by release dates. After you filter release notes by a release date, you can access the release notes for all the modules contributing to the release. You can view the modules that are released on a selected date in the **On this page** list. The following types of Release Notes are included, as applicable, for each release:

- **New Features and Enhancements**: A list of new features and improvements that are being introduced in each module in the release.
- **Resolved Issues**: A list of issues that existed in previous versions of APM that have been resolved in the release.
- **Obsolete Features**: A list of features that are now obsolete as a result of changes made in the release.
- **Known Issues and Limitations:** A list of issues that exist in the latest version of APM.
- **Deferred Features**: A list of functionally equivalent features that are not included in the release, but are planned for a future release.

Chapter
2

End-of-Life Features

Topics:

End-of-Life Features in V5.2.0.0.0

- **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.

Upcoming End-of-Life Features

- **Life Cycle Cost Analysis:** As part of continuous improvement process, Life Cycle Cost Analysis will reach end of life and will be no longer available with the Q3 2025 release.
- **Pipeline Integrity Management:** As part of continuous improvement process and lack of adoption, RBI Pipeline analysis along with pipeline specific damage mechanism and consequence models on Criticality RBI Pipeline Segment will reach end of life and will be no longer available with the Q3 2025 release.
- **Thickness Monitoring Dataloggers:** The existing TM Datalogger GE DMS2 and Olympus (Panametrics) 37DL Plus Ultrasonic Thickness Gage will reach end of life and will be no longer available with the Q2 2025 release. We recommend all customers to use the rest of the existing dataloggers, i.e., GE DMS Go, GE DMS Go+, Olympus (Panametrics) 38DL Plus Ultrasonic Thickness Gage, and Olympus Epoch 650.

Chapter

3

APM Release Notes for V5.2.X

Topics:

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V5.2.0.0.0

360 View

This topic provides a list of product changes released for this module in this version.

Table 7: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, if you configured Associated Pages for a family in the asset hierarchy to appear on a submenu, those options were not displayed when you selected **More Options** ( ) in the **Hierarchy** section of the 360 View. This issue has been resolved.	571069
Previously, in a 360 View, you could define two tabs with the same name, resulting in failure to load the 360 View. This issue has been resolved. Now, an error message appears if you attempt to configure a tab with a duplicate name.	171559

Action Management

This topic provides a list of product changes released for this module in this version.

Table 8: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, the **Strategy Actions** section has been enhanced to provide additional filtering options. The new filtering options enable the user to filter on various Action fields and the type and disposition of the related implementations.	83424

Table 9: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when viewing a Recommendation in the **Recommendations** pane and then navigating to a different tab within APM and returning to the Recommendation, an error occurred. This issue has been resolved.	630913
Previously, the All Performance Recommendations query was incorrect, resulting in duplicate records in some scenarios. This query is used to retrieve Recommended Actions for Performance Recommendations in the **Recommended Actions** pane in the **Action Management Overview** page. This issue has been resolved.	572240

Asset Criticality Analysis

This topic provides a list of product changes released for this module in this version.

Table 10: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
As an administrative user, you can now specify custom Remote Function Calls (RFCs) into SAP, which allows you to update records beyond the ABC Indicator. In addition, a mapping Policy has been created, which you can modify to include additional source information to send to SAP. To facilitate this enhancement, a new section named **SAP Criticality Assessment Interface** has been added to the **ACA Administrator** page, which allows you to configure the settings for the Function Module name and the Criticality Table Policy.	267091

Table 11: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, if the **Require a specific user to be assigned to a state** check box was selected for the Active State on the Asset Strategy Template family, an error occurred when attempting to apply an Asset Template as a Master when using the Send To > Asset Strategy functionality within ACA. This issue has been resolved. Now, this state configuration can be selected and no error will occur when applying an Asset Strategy Template from ACA.	641578

APM Connect

This topic provides a list of product changes released for this module in this version.

Table 12: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when creating or updating the APM Connect Work Order Generation Schedule, the start date was converted to the time zone of the current user. As a result, the date on which the Work Order was generated was altered. This issue has been resolved. Now, the start date was saved based on the time zone specified in the schedule definition.	559341

APM Mobile Application

This topic provides a list of product changes released for this module in this version.

Table 13: Obsolete Features

The following features are no longer available.

Description	Tracking ID
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.	599569

Asset Health Manager

This topic provides a list of product changes released for this module in this version.

Table 14: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Performance has been enhanced while loading the **Asset Health Manager Overview** page. To facilitate this enhancement, the Health Overview - Status by Asset query in the `Public \Meridium\Modules\AHI\Queries` folder has been modified.	587134

Table 15: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the **Asset Health Summary** page, Asset Groups were displayed with incorrect data. This issue has been resolved.	587134

Asset Hierarchy

This topic provides a list of product changes released for this module in this version.

Table 16: Obsolete Features

The following features are no longer available.

Description	Tracking ID
To prevent performance and usability issues, you can no longer configure the Asset Hierarchy to use a Long Text field as the display field. If your Asset Hierarchy configuration includes a Long Text field as the display field, the configuration will continue to apply. When you update the configuration, the display field will be set to Entity ID by default, and you can choose any other field that is not Long Text.	569967

Asset Strategy Implementation

This topic provides a list of product changes released for this module in this version.

Table 17: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when importing Maintenance Plans from SAP into an ASI Package, there were performance issues. This issue has been resolved.	618981

Asset Strategy Management

This topic provides a list of product changes released for this module in this version.

Table 18: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
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. To facilitate this enhancement: • 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.	559300

Table 19: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, the Delete button (🗑) was not displayed properly in the **Bulk Risks and Actions** workspace for an Asset Strategy or an Asset Strategy Template. This issue has been resolved. Now, the Delete button (🗑) is displayed in the **Status** column in the **Bulk Risks and Actions** workspace.	624158
Previously, in the **Risk Analysis** workspace for a Controlled Strategy, the Risk Profile graph did not display the same date as the Master Template. This issue has been resolved. Now, the Risk Profile graph displays the same data that is available in the corresponding Master Template.	615228

Description	Tracking ID
Previously, when utilizing the **Show Financial Impact** configuration option on the Risk Matrix, the Unmitigated Financial Impact values were displayed as zero instead of appearing blank. This issue has been resolved. Now, each categorical value for Unmitigated Financial Impact will appear blank instead of zero by default.	593414
Previously, when you attempted to save changes in bulk in the **Risks and Actions** workspace, if there was a field validation error, it was not identified until you closed the window. In addition, your changes were not saved. This issue has been resolved. Now, the validation error appears before closing the window so that you can fix the error and save your changes.	583479

Asset Strategy Optimization

This topic provides a list of product changes released for this module in this version.

Table 20: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you attempted to optimize an asset strategy in Asset Strategy Management, and if the date is not in the UTC timezone in PostgreSQL, an error occurred. This issue has been resolved.	637904

Calibration Management

This topic provides a list of product changes released for this module in this version.

Table 21: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **Calibration Management Overview** page, the number on the **Calibration Queue** tab now reflects the count of Calibration Queue records in the results grid. Additionally, when you apply a custom date range filter on the Calibration Tasks in the **Calibration Queue** section, the number on the **Calibration Queue** tab is updated to show the filtered record count.	631042
When you change the state of a Calibration Event from **In Progress** to **Pending Review**, the Calibration Result and Test Equipment datasheets are now available in read-only format.	622024
A new Data Loader, **Calibration Management - Functional Test**, has been added to the Data Loader templates. This Data Loader can be used to load Functional Test Calibration data.	615670

Table 22: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the Manual Templates workspace, the pagination was displayed incorrectly. This issue has been resolved.	608085

Deferral

This topic provides a list of product changes released for this module in this version.

Table 23: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID

Time sensitive records can now be deferred using Deferral records in APM. Support for Deferrals has been added for Inspection Tasks. To facilitate this enhancement, the following changes have been made:
 	
• A new page **Deferral Configuration** has been added in the **Application Settings**. In the **Deferral Configuration** page, you can define fields that represent the **Planned Date** and **Deferred Date** from the source family and any site-specific maximums for the number of deferrals.
• The following fields have been added to Inspection Task for tracking an approved Deferral:
  ◦ Original Next Date
  ◦ Deferred Next Date Basis
  ◦ Is Deferred
• Deferral records can be created from the header of the **Inspection Task** page.
• When Deferral Configuration is enabled, the **Related Records** tab of **Inspection Task** page now includes a section for Deferral History, which displays the historical Deferral records for an Inspection Task. Deferral records can be deleted and reviewed from this section.
• A new Data Loader, **Defer Inspection Tasks** has been added to the in-built Data Loader templates. This Data Loader can be used to create, edit, and link Deferral records to Inspection Tasks.
	83746

A new page, **Manage Deferrals**, has been added, enabling bulk management of deferrals. You can manage the state of a deferral or delete a deferral.	577694

Failure Modes and Effects Analysis

This topic provides a list of product changes released for this module in this version.

Table 24: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve performance, the export function from within an Analysis has been converted to a background job.	597994

Table 25: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you accessed or consolidated Recommendations in an FMEA Analysis, there were performance issues. This issue has been resolved.	619124
Previously, when a validation error occurred on a FMEA Recommendation, it was not displayed properly in the user interface but was captured in the background. This issue has been resolved.	588272
Previously, when applying a template from within an RCM or FMEA Template, the correct Asset Finder was not displayed when looking up Assets. This issue has been resolved.	587820

Family Management

This topic provides a list of product changes released for this module in this version.

Table 26: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
When defining a field behaviour, you can now configure a Query Finder to be displayed in a datasheet. In addition to defining the display value and database value in the field where you have configured the Query Finder, you can specify values in the query to be populated in other fields in the record when a value is selected in the field.	582923

Table 27: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when State Fields were referenced in the field behaviour, disabling State Management did not delete all state fields. This issue has been resolved. Now, you cannot disable State Management, when state fields are being referenced in Field Behaviors and an error message appears.	638478
Previously, when you attempted to create a field with the data type set as Numeric or Double, if you did not select a value in the UOM drop-down list box, an error occurred, and you could not create the field. This issue has been resolved.	574772
Previously, for a child family that inherited the state management from the parent family, if you disabled and re-enabled the state management, duplicate records of the child family were created. This issue has been resolved.	294470

Table 28: Known Issues and Limitations

The following known issues and limitations exist.

Description	Tracking ID
In the Family Management workspace, when you update family properties for a family, you must reindex the family in Search Configuration. Additionally, when you add any new Family, you must run full Search Index Rebuild.	690013

Family Policies

This topic provides a list of product changes released for this module in this version.

Table 29: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve user experience for Execution History, the copy functionality on the Execution History result table is enabled.	598700
A warning message now appears when a trigger in Family Policies does not contain the Current Entity or Current Relationship node in designer mode.	238939
You can now view the latest date and time when the policy model was updated for a family policy. To facilitate this enhancement, a new field, Model Change Date, is added in the family policy.	150934

Table 30: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, updating DB records with UTC time failed when you used the Convert Type node to convert EPOC time into UTC time. This issue has been resolved.	606618

Foundation

This topic provides a list of product changes released for this module in this version.

Table 31: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, you can now open a maximum of 20 tabs in APM. **Note:** The memory used by APM will increase when you open more tabs. To align with this change, the minimum recommended memory for the APM Client is increased to 16GB for desktops and laptops.	556065
The data is now serialized and deserialized using JSONSerializer instead of BinaryFormatter.	540033

Generation Availability Analysis

This topic provides a list of product changes released for this module in this version.

Table 32: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In addition to NERC, you can now create the events of the following types for CEA: • Maintenance Outage Extension (PEMO) • Planned Outage Extension (PEPO) To facilitate this enhancement, the two event types have been added in the **Event Types** section in the **GAA Administrator** page.	618967
In addition to NERC, you can now create Performance Reports for CEA. To facilitate this enhancement, in the **Configurations** section in the **GAA Administrator** page, you can now specify the units reporting to CEA for which you want to create Performance Reports and records.	618962

General Dashboards

This topic provides a list of product changes released for this module in this version.

Table 33: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
A third-party component used for rendering graphs and dashboards has been upgraded. This upgrade introduces several UI enhancements, such as rounded corners in bar charts. For the complete list of UI changes, refer to the KBA 000070624.	634528

Graphs

This topic provides a list of product changes released for this module in this version.

Table 34: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
A third-party component used for rendering graphs and dashboards has been upgraded. This upgrade introduces several UI enhancements, such as rounded corners in bar charts. For the complete list of UI changes, refer to the KBA 000070624.	634528

Table 35: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, if the values displayed in a Graph had a unit of measure (UOM) conversion applied, the values were displayed in the base UOM instead of the expected UOM according to the user's culture and UOM settings. This issue has been resolved.	627214
Previously, when you added a series to the right axis in a Graph, the configuration was not retained, and the series appeared on the left axis when you reopened the Graph from the Catalog. This issue has been resolved.	587853

Hazards Analysis

This topic provides a list of product changes released for this module in this version.

Table 36: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, the **HAZOP** and **What If** sections in the **HAzards Analysis Overview** page did not display all the HAZOP and What If Analyses, respectively. This issue has been resolved. To facilitate this fix, the following queries have been modified: • `Public\Meridium\Modules\Hazards Analysis\Queries \HAZOP_ANALYSIS_ASSET_OVERVIEW` • `Public\Meridium\Modules\Hazards Analysis\Queries \WHATIF_ANALYSIS_ASSET_OVERVIEW`	686047

Import and Export

This topic provides a list of product changes released for this module in this version.

Table 37: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you attempted to import any package, the import log file was deleted before being published, and an error occurred. This issue has been resolved.	635124
Previously, when you attempted to import multiple families, if each family included a field with the same Field ID and different field behaviors, only the field behavior from the first family was imported. The field behaviors from the other families were not imported. This issue has been resolved.	615163
Previously, when you attempted to import the Associated Pages, all the bulk families were not imported. This issue has been resolved.	545455
Previously, when you attempted to import Records and Links-CGU, the relationships were not imported. This issue has been resolved.	247638

Inspection Field Data Collection

This topic provides a list of product changes released for this module in this version.

Table 38: Obsolete Features

The following features are no longer available.

Description	Tracking ID
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.	559649

Inspection Management

This topic provides a list of product changes released for this module in this version.

Table 39: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The Generate Report option is disabled for inspection tasks that are in Rejected or Completed state.	632332
Now when you create an inspection, the last archived Asset Correction Analysis associated with the asset is automatically linked. **Note:** The linking will happen only if the last archived Asset Correction Analysis is not linked to any inspection of same inspection type.	585052
To improve performance while loading large Inspection Recommendations records, the following queries have been optimized: • Public\Meridium\Modules\Inspection\Overview Queries\Open Inspection Recommendations for Unit • Public\Meridium\Modules\Inspection\Overview Queries\Open Inspection Recommendations for Unit (State Management)	578889
A new page, **Manage Deferrals**, has been added, enabling bulk management of deferrals. You can manage the state of a deferral or delete a deferral.	577694
You can now save result grid column preferences. To facilitate this enhancement, advanced settings are enabled for result grids for sub-inspections in **Inspection Detail** workspace.	573422
In the **NR13 Full Inspection** Report and in the **NR13 General Inspection** Report, a new section named **Task Details** has been added, and in the **NR13 Technical Data** section, a new field named **Fluid Name** has been added.	553350

Description	Tracking ID
State Management is now supported for the Inspection Task family. Most states and operations are reserved and will be transitioned automatically when you complete an Inspection Task. However, if needed, you can also manually transition an Inspection to the Rejected state. In addition, non-recurring Inspection Tasks that have been completed are automatically moved to the Completed state. To facilitate this enhancement, the following queries have been modified to filter out tasks that are in the Completed and Rejected states: • Public\Meridium\Modules\Inspection\Overview Queries\All Tasks for Date Range • Public\Meridium\Modules\Inspection\Overview Queries\All Tasks for Unit • Public\Meridium\Modules\Inspection\Work Pack Queries\Available Tasks for Work Pack • Public\Meridium\Modules\Inspection\Compliance\Queries\Inspection Tasks Available to Implement • Public\Meridium\Modules\Inspection\Compliance\Queries\Link Existing Task to Recommended Action • Public\Meridium\Modules\SAP Integration Interfaces\Queries\Get Tasks for Work Order Generation • Public\Meridium\Modules\Asset Strategy\Queries\Inspection Task Link Existing Query	281496
Inspection Management and Thickness Monitoring are now integrated with the following features: • You can now link TMLs to an Inspection Task using data loader. • You can now export Inspection Tasks and the linked TMLs. • You can now import Thickness Measurements for TMLs associated with an Inspection Task. When these measurements are imported, a General Inspection is created automatically for the Inspection Task and the Thickness Measurements are linked to the Inspection.	281099
The inspection task picklist displayed in the Task Addressed field of the Inspection datasheet and during the creation of an inspection, will not display the task which are in the Completed or Rejected state.	280550
To improve usability of the archiving feature in Thickness Monitoring, the following fields have been added to the Asset Corrosion Analysis family: • Archived Date: By default, this field is not displayed in a datasheet. You can manually add it to a datasheet or run a query to check the value. • Archived By: This field is displayed in the **Review Archived Analyses** page and the Asset Corrosion Analyses datasheet.	243214

Table 40: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you set the state assignee for an inspection and tried to update a value in the datasheet, an error occurred. This issue has been resolved.	645446
Previously, if you configured the status-to-state mapping for an Inspection, and if you mapped the Approved status to the Approved state, the Final Inspection Lock and Inspection Lock fields were set to False. This issue has been resolved.	616659

Description	Tracking ID
Previously, if state management was disabled for the Inspection Recommendation family, an error occurred when you accessed the **Recommended Actions** pane. This issue has been resolved. Now, regardless of whether state management is enabled, the Recommendations appear in the **Recommended Actions** pane.	587770
Previously, if you updated the Desired Interval, the **Max Interval** field was not updated if the following conditions were satisfied: • The Consider TM Remaining Life check box was selected. • The Desired Interval was greater than Max Interval. This issue has been resolved.	568201

Integrity Mobile Application

This topic provides a list of product changes released for this module in this version.

Table 41: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you disabled or removed related families from an inspection family, and also disabled the ability to download inspection recommendations, you were able to check out the inspection but the sync failed. This issue has been resolved.	603624
Previously, on an iOS device, when you attempted to log in to the Integrity Mobile app, if Microsoft Azure Application Proxy was used for authentication, the app closed, and you could not log in. This issue has been resolved.	559635

Job Monitoring Dashboard

This topic provides a list of product changes released for this module in this version.

Table 42: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, if you created a yearly schedule, the next execution dates were calculated incorrectly from 1970. This issue has been resolved. Now, the next execution dates are calculated from the year mentioned in the start date.	576213

Layers of Protection Analysis

This topic provides a list of product changes released for this module in this version.

Table 43: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, you could not copy a LOPA if the Initiating Event belonged to a site other than the global site. This issue has been resolved. Now, you can copy a LOPA if the Initiating Event belongs to the default site of the logged-in user or the global site.	583394

Life Cycle Cost Analysis

This topic provides a list of product changes released for this module in this version.

Table 44: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the **Analysis Summary** workspace, in the **Summary** section, when you selected the **Show Data** button, you could not scroll through the content in the table because the page did not contain a scroll bar. This issue has been resolved. Now, a vertical scroll bar has been added to enable you to scroll through the table contents.	577380

Management of Change

This topic provides a list of product changes released for this module in this version.

Table 45: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you open an MOC Change Project and navigate to the **Definition** section before the summary section loaded, an error occurred. This issue has been resolved.	637435

Metrics and Scorecards

This topic provides a list of product changes released for this module in this version.

Table 46: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the **Metrics and Scorecard Overview** page, the timezone was applied incorrectly on KPIs for the **Schedule Next Run Data** and **Schedule Last Run Date** fields. This issue has been resolved. Now, the date value appears based on the user timezone.	609349

Policy Designer

This topic provides a list of product changes released for this module in this version.

Table 47: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now add the logged-in user details as API Node credentials. To facilitate this enhancement, a new check box, **Add me**, has been added in the **API Node User Details** section.	632378
A new node, Sort is added under Calculations node. You can now sort collection.	607044
To improve user experience for Execution History, the copy functionality on the Execution History result table is enabled.	598700
You can now fetch multiple records from a collection and return these records to the successor node. To facilitate this enhancement, a new option, **Add to output collection**, has been added to the **Last Node**. You can specify the number of records to fetch in the **Last n records** box.	228073

Table 48: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when an Action was implemented as a Policy Instance, if you attempted to open the Policy from Action Management, the Policy was unresponsive. This issue occurred only for policies that were never accessed from Policy Designer. This issue has been resolved.	671002
Previously, the Reason mentioned in the Cancel Transaction node was not displayed correctly in records created via Record Manager or workflow. This issue has been resolved.	614785
Previously, updating DB records with UTC time failed when you used the Convert Type node to convert EPOC time into UTC time. This issue has been resolved.	606618
Previously, for an execution history record, when you attempted to perform validation or view display results at the node level, the **Calculated Date** was incorrectly displayed at the node level. This issue has been resolved.	584161

Production Loss Analysis

This topic provides a list of product changes released for this module in this version.

Table 49: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you ran a formatted query that was created for PLA Family (Production Event) and the query had join condition, the query timed out. This issue has been resolved.	615215
Previously, if you configured the Production Event datasheet to use a Master Detail form, an error occurred when you attempted to save a new event. This issue has been resolved.	574307
Previously, in the **PLA Administrator** page, in the **Codes** workspace, you could not delete multiple Event Codes from the **Event Codes** section at the same time. This issue has been resolved.	570370

Queries

This topic provides a list of product changes released for this module in this version.

Table 50: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance the performance of Query Editor and APM, the Query Editor will no longer re-execute a query when you switch between the Query Editor and other pages. To execute the query again, select the Run button ( ) again.	599523
The Prompt ID field in the **Expression Builder** window is now a mandatory field. This ensures that query prompts are identifiable when there are multiple prompts. You cannot proceed to the next step in the **Expression Builder** if the Prompt ID is not specified.	281358

Record Manager

This topic provides a list of product changes released for this module in this version.

Table 51: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, now, when you use the !datasheet-dialog URL to open a new or an existing record in a pop-up window, you can add parameters to specify the values in the fields.	597764
The performance of Record Manager when loading a record with many related records has been improved. As a result of this enhancement, related record information may not be available in the record explorer for a short time after the datasheet for the current record is displayed.	571253
To enhance usability, you can now hide the Site and State field columns in Bulk Data Forms and Master Detail Forms.	247190
To enhance usability, your preference for column sort order in Bulk Data Forms and Master Detail Forms is now saved. To facilitate this enhancement, you can now choose column sorting in the Table Settings window.	247178

Table 52: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when a new state was added to a family, and state assignment was done, an error occurred. This has been resolved. **Note:** For existing records, user assignments will not be possible for a new state that needs data fix and for which no assignment has been saved. However, post the first assignment, user assignment will be feasible for a new state.	652301
Previously, when a family contained multi-valued date field , an error appeared while creating a record. This has been resolved. Now, a record is created without any error.	632279
Previously, in a bulk data form or master detail form, if you entered a value in a column that had sorting applied, the value appeared in multiple rows in the grid. This issue has been resolved.	618491
Previously, on the **State Assignment** window, you could search for users with only lowercase names. This issue has been resolved. Now search of users is case insensitive.	576118
Previously, in a field configured with a picklist containing more than 1000 items, when you selected an item from the picklist and then saved the record, you could no longer scroll or search the picklist to select an item that was not initially displayed. This issue has been resolved.	569388
Previously, if you selected a large number of Sites, Roles, or Groups when configuring a Reference Document Server Credential, an error occurred when you attempted to save the record. This issue has been resolved. To facilitate this fix, the length of the Sites, Roles and Groups fields have been increased to 4000 characters.	85421
Previously, if the stored file associated with a Reference Document record was not found in the database, you were logged out of APM when you selected the link to the file. This issue has been resolved.	562654

Table 53: Obsolete Features

The following features are no longer available.

Description	Tracking ID
In the Bulk Data Form, the following changes have been made: • The unformatted PDF print capability, which you could access using the print button has been removed. • The **Formatted Print** button has been removed. Now, you can use the print button to print formatted PDFs. Now, the print button with the formatted PDF print capability is the only print option available.	541339

Reliability Analytics

This topic provides a list of product changes released for this module in this version.

Table 54: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
A new data loader, Spares Data Loader, has been added to load spare parts for an analysis.	565755
The **Spare Level plot** section for a spare, has been added with a new graph option, **Risk Reduction Plot**. This feature enables you to determine the optimal holding level of the spare part by illustrating the balance between costs and risks, thereby supporting more informed decision-making on optimum holding level.	142427

Table 55: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
When you copied a System Scenario in a System Reliability Analysis, the Resources were not copied. This issue has been resolved.	608109

Reliability Centered Maintenance

This topic provides a list of product changes released for this module in this version.

Table 56: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve performance, the export function from within an Analysis has been converted to a background job.	597994

Table 57: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you accessed or consolidated Recommendations in an RCM Analysis, there were performance issues. This issue has been resolved.	619124
Previously, if two or more assets had the same Equipment Technical Number, an error occurred. This issue has been resolved.	547378
Previously, when applying a template from within an RCM or FMEA Template, the correct Asset Finder was not being displayed when looking up Assets. This issue has been resolved. Now, the Asset Finder is displayed when applying a template from within an RCM or FMEA Template.	587820

Risk Based Inspection

This topic provides a list of product changes released for this module in this version.

RBI 580 and RBI 581

Table 58: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **RBI Inspection Plan** workspace, when implementing Inspection Tasks from RBI Recommendations or Inspection Plan Detail records, the **Task Details** field is now prepended with the current date in UTC format.	619283

To enhance performance in loading the **Risk Based Inspection Overview** workspace, the following catalog items have been updated:
 	
• `Public\Meridium\Modules\Risk Based Inspection \Queries`
 	
  ◦ Analyses Ready For Evergreening - 580
  ◦ Current Risk
  ◦ Current Risk Overview
  ◦ Past Risk
  ◦ Past Risk Overview
  ◦ Asset Corrosion Analysis More Current Than All Analyses
  ◦ Asset Corrosion Analysis More Current Than Analyses
  ◦ Inspections More Current Than All Analysis
  ◦ Inspections More Current than Analyses
 	
• `Public\Meridium\Modules\Risk Based Inspection - 581\Queries`
 	
  ◦ Asset Corrosion Analysis More Current Than RBI 581 Analyses
  ◦ Inspections More Current Than RBI 581 Analysis
 	
• `Public\Meridium\Modules\Risk Based Inspection\ Overview Graphs`
 	
  ◦ Current Risk Summary by Asset
 	
• `Public\Meridium\Modules\Mechanical Integrity \Dashboards`
 	
  ◦ RBI Overview Dashboard
 	
Note: Current Risk and **Current Risk Overview** sections in the **RBI Overview Dashboard** page will only display the data from the past 10 years.
	• 597981
	• 576189
	• 576188

You can now customize field mappings for implementing Inspection Tasks from RBI Recommendations. To facilitate this enhancement, the field mappings for RBI Recommendation to Inspection Task have been moved to Policy Manager and a new policy **RecommendationToInspectionTaskMapping** has been added.	551016

Description	Tracking ID
You can now customize field mappings for implementing Inspection Tasks from RBI Inspection Plan Details. To facilitate this enhancement, the field mappings for Inspection Plan Details to Inspection Task have been moved to Policy Manager and a new policy **InspectionPlanDetailToInspectionTaskMapping** has been added.	551015
A component filter is now added to the filter options on the RBI Tree. When you apply this filter, only the components belonging to the selected component families are displayed in the tree. **Note:** The description of the following system codes have been updated in the MI RBI COMPONENT FAMILIES System Code Table: • MI_CCRBICCS description is now Cylindrical Shell • MI_CCRBICEB description is now Exchanger Bundle • MI_CCRBICEH description is now Exchanger Header • MI_CCRBICET description is now Exchanger Tube • MI_CCRBICPI description is now Piping • MI_CCRBIPCC description is now Pump Compressor Casing • MI_CCRBICTB description is now Tank Bottom • MI_RBIPIPESEGM description is now Pipeline Segment • MI_CCPRDRLV description is now Relief Valve • MI_CCPRDRPD description is now Rupture Disk While creating a new component, updated system code descriptions will be displayed in the Component Family picklist.	365668

Table 59: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, the Asset ID field in RBI Recommendations was not updated when applying an RBI Analysis to another Asset with Copy Recommendations set to true and the **Generate Recommendations in Created State** admin preference set to true. This issue has been resolved. The Asset ID field will now be updated with the Asset ID of the new parent Asset.	645845
Previously, when you updated Degradation Mechanism or Consequence Evaluation and then attempted to update the related RBI Analysis datasheet, an error occurred. This issue has been resolved.	651801
Previously, when you saved an RBI Component datasheet, the **Asset Info Summary** button () was not visible. This issue has been resolved.	573078

RBI 581

Table 60: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Performing an RBI 581 Risk Analysis on an RBI 581 HE Bundle Damage Evaluation is now supported. 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. To facilitate this enhancement, the following changes have been made: • A new Potential Degradation Mechanism record named 581-HE Bundle Damage has been added. • Fields specific to the HE Bundle have been added to the RBI 581 Risk Analysis, RBI 581 Consequence Evaluation, RBI Degradation Mechanism, and Bundle Inspection families. • The Risk Based Inspection module has been integrated with the Reliability Analysis module; you can link a Reliability Distribution Analysis for POF calculation. • A new policy named RBI 581 HE Bundle Damage Inspection Recommendation has been created to generate Inspection Strategies for the newly added damage mechanism. **Note:** You cannot use RBI 581 HE Bundle Damage Evaluation along with other degradation mechanisms to perform HE Bundle calculation on an RBI 581 Risk Analysis. Optimal bundle replacement frequency is not supported as part of this feature. **Important:** This is a new damage mechanism model. You may review the Heat-Exchanger Bundle Components and assign this PDM if applicable and run an RBI 581 Risk Analysis.	583456
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. The following new fields have been added to the Damage Mechanism to capture the planning results: • Inspection Will Mitigate • Risk Summary ID • Risk Summary Description • Target Inspection Date To enable this feature, select the **Inspection Planning by Degradation Mechanism** check box in the **RBI Admin Preferences** page. When this feature is enabled, the Target Inspection Date field on each Damage Mechanism is updated as follows: • Populated independently of the analysis target inspection date. • Used to populate the Target Completion Date on Recommended Actions (RBI Recommendations) and Inspection Plan Detail records. • Displayed in the **RBI 581 Analysis** workspace in the **Damage Mechanism** section result grid. • Displayed in the RBI Asset workspace in the **Degradation Mechanism Risk Overview** section. **Important:** If this option is enabled, this will impact the Target Inspection Date and Risk Results for each damage mechanism. You will have to re-run all the respective analyses.	532769

Table 61: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in Inventory Groups section, when you attempted to search for the inventory group in the Process Units tree, then the associated components that could be linked to the inventory group were not displayed. This issue has been resolved.	562572
Previously, if you set **Evaluate all RBI 581 Risk Targets** preference to true, then in **Risk Results** tab of RBI 581 Analyses, the **Target Inspection Date (without Plan)** was displayed incorrectly. This issue has been resolved. Now, the column is populated with the value calculated for the Target Inspection Date for the Driving Risk. **Important:** If **Evaluate all RBI 581 Risk Targets** preference is set true, then you will have to re-run all analysis that are impacted by Target Inspection Date.	559686

Root Cause Analysis

This topic provides a list of product changes released for this module in this version.

Table 62: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, when you added a secondary event in the Event Timeline, the timeline date range did not expand automatically to display the additional events. This issue has been resolved.	357879

Rounds Designer

This topic provides a list of product changes released for this module in this version.

Table 63: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, if you updated a system code to a drop-down list box associated with the Completion Status on the Lubrication Requirement, the system code values did not appear in the drop-down list box. This issue has been resolved.	519468

Rounds Pro

This topic provides a list of product changes released for this module in this version.

Table 64: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
When creating a conditional step, you can now select an asset different from the asset associated with the primary step. To facilitate this enhancement, in the **ASSET** box in a conditional step, when you select the Asset Hierarchy button (🖧), a list of assets appears, containing the global assets and all the assets that belong to the same site as the asset associated with the primary step.	584419
The NFC feature is now supported in Rounds Pro. You can now scan NFC tags using the Rounds Pro mobile app and use it in conjunction with the Scan to Unlock feature.	577657
The Scan to Unlock feature is now supported in Rounds Pro. When you access the Rounds Pro mobile app, Steps remain locked until you scan the corresponding barcode or NFC tag using the Rounds Pro mobile app.	569679
You can now unlock multiple Steps with the same Scan ID at the same time. When you scan the NFC tag or barcode using the Rounds Pro mobile app, a list of all the matching Steps appears. You can unlock a single Step by selecting the Step; or you can unlock all the matching Steps by selecting **Unlock all Matching Steps**.	569690
In a Step view, you can now access the schedule name and summary. To facilitate this enhancement, the Has Schedule field has been replaced with a new field named Schedule Name, which displays the schedule name as a link. When you select the link, the schedule name and summary appear.	550967
You can now add a conditional step from an asset that is different from the parent asset. You can create routes at system level, which combine multiple assets. To facilitate this enhancement, a new field, **Asset**, has been added to Conditional Steps.	546958
The field size for the following fields has been increased from 50 characters to 255 characters: • Step Name (MI_STP_ID_C) • Template Name (MI_STP_TMP_ID_C)	546028
To avoid creation of excessive Health Indicators, it is no longer mandatory to create Health Indicators to define limits for a Step.	523131
Using the Legacy Migration Tool, you can now migrate Step Schedules as well from Legacy Rounds to Rounds Pro.	281233
You can now associate a Measurement Step with a Rounds Pro Schedule. Additionally, you can define schedules at the step level.	281173

Table 65: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, using the Rounds Pro Step Data Loader, you could create Steps with invalid limit definitions. This issue has been resolved. Now, the limits that you enter in the data loader workbook are validated; if the limits are not in order, an error occurs, and the Step is not created.	617205
Previously, when you deleted a step associated with an asset, the asset was not removed and continued to be listed under **Assigned Assets** in the **Step Templates** section. This issue has been resolved.	573501

Description	Tracking ID
Previously, if limits were defined for a Measurement Location, the Legacy Migration Tool created Health Indicators even if the **Include as Health Indicator Source** check box was cleared. This issue has been resolved. Now, in this scenario, the Health Indicators are not created although the limits and messages are updated.	551232
Previously, when you attempted to implement a strategy action as a Rounds Pro Step from the **Implement Actions** section of the **Strategy Details** workspace, the steps that were marked for deletion were also listed in the **Implement Action as Step(s)** window. This issue has been resolved.	355666

Rounds Pro Mobile

This topic provides a list of product changes released for this module in this version.

Table 66: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The NFC feature is now supported in the Rounds Pro mobile app. You can now scan NFC tags using the Rounds Pro mobile app and use it in conjunction with the Scan to Unlock feature.	577657
The Scan to Unlock feature is now supported in the Rounds Pro mobile app. When you access the Rounds Pro mobile app, Steps remain locked until you scan the corresponding barcode or NFC tag.	569679
You can now unlock multiple steps with the same Scan ID at the same time. When you scan the NFC tag or barcode using the Rounds Pro mobile app, a list of all the matching steps appears. You can unlock a single step by selecting the step; or you can unlock all the matching steps by selecting **Unlock all Matching Steps**.	569690

Security Manager

This topic provides a list of product changes released for this module in this version.

Table 67: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, for a security user photo, you could upload any file types. This issue has been resolved. Now, you can upload images in JPG, JPEG, or PNG file types.	607954

SIS Management

This topic provides a list of product changes released for this module in this version.

Table 68: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, a query accessed via hyperlink now includes breadcrumbs navigation feature. When you select the hyperlink, Protective Instrument Loop diagram appears, and the breadcrumbs include the Instrument Function and SIL analysis associated to the Loop. You must provide the following URL in the query to open the loop: `#asset-safety/sis/sil/verification/{enty_key}`	620793
To improve usability, a SIS administrator can now view all SIS Proof Test Templates in Application Settings for SIS Management. You can manage the complete lifecycle of the SIS Proof Test Templates and link approved templates to Instrumented Functions.	609304
If the **Manual Entry** check box is not selected in a Protective Instrument Device, the **SERH Library Version** box is now disabled.	588227
When importing an Exida project file, the list of SIF Tags is now displayed in the result grid. You can select all SIF Tags using the **Result grid select all** option.	588224
The following datasheets now include the Exida DLL version: • Protective Instrument Device (Sensor) • Protective Instrument Device (Final Element) • Protective Instrument Loop Logic Solver Channel	588214
You can now create an Instrumented System by linking an SIL analysis to represent a safety instrumented system. This gives you the ability to see instrumented systems along with all associated data, including SIL levels, proof test tasks, and proof test events.	239293

Table 69: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the SIS Revision History page, the LOPA Assessment Revision details were not listed. This issue has been resolved.	597451

Thickness Monitoring

This topic provides a list of product changes released for this module in this version.

Table 70: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now select PDF Reference Documents with up to six pages as the Thickness Monitoring Schematic Image. To facilitate this enhancement, up to the first six pages of a PDF Reference Document are converted into Schematic Images for use in the Thickness Monitoring Schematic view. If the document has multiple pages, a page control is displayed in the Schematic view to allow switching between pages.	628936
The ATEX-compliant Olympus Epoch 650 datalogger is now supported in Thickness Monitoring. To use this datalogger with APM, you must install the latest version of the GE Devices Service.	569983

Description	Tracking ID
If you are assigned to MI Thickness Monitoring Viewer group and have active license for Mechanical Integrity 2D Visualization then you can only view the schematic for the assets.	564084
In **NR13 Full Inspection** Report and in **NR13 General Inspection** Report, a new section **Task Details** has been added, and in **NR13 Technical Data** section, a new field, **Fluid Name** has been added.	553350
To improve usability, in the **Thickness Monitoring Overview** page, the **Export TM Data** and **Datalogger** options have now been moved under the **Actions** button.	545546
Inspection Management and Thickness Monitoring are now integrated with the following features: • You can now link TMLs to an Inspection Task using data loader. • You can now export Inspection Tasks and the linked TMLs. • You can now import Thickness Measurements for TMLs associated with an Inspection Task. When these measurements are imported, a General Inspection is created automatically for the Inspection Task and the Thickness Measurements are linked to the Inspection.	281099
In the **Measurement Data Entry** workspace, you can not view the Inspection Tasks which are in Completed or Rejected state.	280550
To improve usability of the archiving feature in Thickness Monitoring, the following new fields have been added to the Asset Corrosion Analysis family: • Archived Date: By default, this field is not displayed in a datasheet. You can manually add it to a datasheet or run a query to check the value. • Archived By: This field is displayed in the Review Archived Analyses page and Asset Corrosion Analyses datasheet.	243214

Table 71: Resolved Issues

The following issues, which existed in one or more previous versions, have been resolved.

Description	Tracking ID
Previously, in the TMLs section, if you attempted to add a Between filter on a Date column, you could not use the calendar picker to select the second date value. This issue has been resolved.	569041
Previously, in TM Quick View table if you froze the columns preferences and reopened the page, then the page did not contain a scroll bar. This issue has been resolved.	565660
Previously, on an iOS device, when you attempted to log in to the Integrity Mobile app, if Microsoft Azure Application Proxy was used for authentication, the app closed and you could not log in. This issue has been resolved.	559635

Workflow Solutions

This topic provides a list of product changes released for this module in this version.

Table 72: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
A new accelerator workflow, Asset Health & Maintenance (AHMA) has been introduced. This workflow provides capabilities to evaluates 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. Further, the Health Indicators are used to classify an asset as, Normal, Warning, or Alert.	533775
In Asset Health & Maintenance workflow, the following inputs sources are supported: • Field data • Rounds Legacy • Time Series • Alerts • Cases	533775
In Equipment Health Workflow, CP1 and CP2 are now replaced by AHI Tree Diagram.	562635

Table 73: Obsolete Features

The following features are no longer available.

Description	Tracking ID
The Sharp Workflow will no longer be used to evaluate the overall health condition of asset. You can now use the Asset Health & Maintenance (AHMA) Workflow.	533775