APM Classic Release Notes

Contents

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Chapter

1

GE Digital APM Release Notes

Topics:

V4.3.0.7.0 Release Notes

Action Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 1: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, in the **Recommended Actions** section, the email address value entered in the From field in the **Email Settings** page is now used when you configure a Recommended Action to send an alert.	US296242
To maintain consistency, in the **Recommendations** pane, State Management is now controlled by the same functionality as other GE Digital APM modules.	US283474

Table 2: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting had a culture other than English, and you accessed the **Recommendation Filters** window, the States were not translated to the language based on your culture setting. This issue has been resolved.	DE96432
Previously, if your database contained a large number of actions, and you navigated to the **Strategy Actions** workspace, the process sometimes timed out. This issue has been resolved.	DE93594
Previously, in the **Recommended Actions** tab, if you selected the Filter button ( ), the list of possible options was not properly localized. This issue has been resolved.	DE93359
Previously, in the **Recommended Actions** pane, the state of Recommended Actions was not properly localized. This issue has been resolved.	DE89662

APM Connect

This topic provides a list of product changes released for this module on the dates listed below.

V4.3.0.7.0

Table 3: Enhancements

The following enhancements and new features have been added.

Description	Tracking ID
The Automatic Data Loader now provides a way to change the processing order of the directories.	US312179

Table 4: Resolved Issues

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

Description	Tracking ID
Previously, EAM or data loader jobs would occasionally end without updating the status correctly. This issue has been resolved.	• DE97417 • US318351

APM Mobile Application

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 5: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The GE Digital APM mobile application now supports iOS 12 devices.	US290963
The GE Digital APM mobile application now supports Single Sign-On (SSO) for devices with Android, Windows, and iOS operating systems. This feature enables you to log in to the GE Digital APM mobile application using the SSO login page of your organization.	US186119

Table 6: Resolved Issues

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

Description	Tracking ID
Previously, when you uninstalled the GE Digital APM mobile application from a Windows device, the uninstall script attempted to remove the application package from the WindowsApps folder. As a result of client or security restrictions, this sometimes caused the app package to be corrupted, and the uninstallation only partially succeeded. This issue has been resolved.	DE88027
Previously, the GE Digital APM mobile application sometimes appeared as unavailable on a Windows device. This issue has been resolved.	DE88027

Asset Criticality Analysis

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 7: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To maintain consistency in the <Asset Name> page, Asset Criticality Analysis has been moved to the **Strategy** section.	US325270
To enhance usability in the **Assessment** workspace, the Assess button ( ) has been updated to .	US318204
To enhance usability when loading checklist records, the Asset Criticality Analysis (ACA Checklist) Data Loader has been added.	US316936
To enhance usability, in the **Assessment** workspace, you can select multiple assets contained within a single analysis for assessment.	US316803
To enhance usability, a new relationship family, Asset Criticality Analysis Has Assets, has been added.	US310611
To enhance usability, in the **Assessment** workspace, an **Add Asset** button has been added.	US310611
To enhance usability, a new column, **Criticality**, has been added to the **Analyses** section of the **Asset Criticality Overview** page.	US309200
To enhance usability in the **Assessment** workspace, functionality to export an analysis has been added.	US302496
From the **ACA Overview** page, you can now link assets to a new or existing ACA Analysis, Asset Strategy, FMEA Analysis, RBI Asset View, RCM Analysis, or System Strategy. To facilitate this enhancement, a **Send To** button has been added in the **Assets** section.	• US301725 • US299992
To enhance usability, the performance of the Asset Criticality Analysis (ACA) Data Loader has been improved.	US300817
To enhance usability in the **Analysis Details** section, functionality to access Reference Documents has been added.	US300551
To enhance usability in the **Assessment** workspace, you can now simultaneously assess multiple assets in an analysis.	• US300471 • US316803
To enhance usability, in the **Assessment** workspace, you can now add assets to and unlink assets from an analysis.	US300392
To enhance usability in the **Analysis Details** page, the **Assessment** section now contains a table that displays all assets associated with the selected analysis.	US300152
To enhance usability, in the **Analysis Details** page, in the **Assessment** section, the **Asset Criticality Distribution** chart has been added.	US300151
To aid in efficiency, the State Configuration workflow that is defined for the ACA family has been simplified.	US300148
To enhance usability, in the **Asset Criticality Overview** page, the **Analyses** section has been redesigned.	US300143
To enhance usability, in the **Asset Criticality Overview** page, the new **Assets** section replaces the **My Analyses** section, which has been deprecated.	US299979
To enhance usability, a new chart, Assets Assessed, has been added to the **Overview** page. The Assets Assessed chart displays a breakdown of the numbers of pieces of equipment that are ranked based on criticality.	• US299973 • US317769

Description	Tracking ID
To enhance usability in the **Analysis Details** page, the maximum Criticality value is now displayed in the page header.	US299694
To enhance usability, AMS Asset integration has been added to populate the Assessment field in Criticality records.	US294959

Table 8: Resolved Issues

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

Description	Tracking ID
Previously, if you attempted to update the criticality indicator values in SAP to reflect the criticality value that you determined in GE Digital APM and the connection failed, the incorrect error message appeared. This issue has been resolved.	DE89715
Previously, in the **Risk** section of the **Analysis Summary** page, if you accessed an analysis whose associated Risk Matrix record had the **Use Aliases?** check box selected, the Total Risk value on the risk assessment appeared as a numeric value instead of an alias value.	DE89669
Previously, if you attempted to use the Asset Criticality Analysis (ACA) Data Loader to load a file containing more than 1,000 assets using an Oracle database, an error occurred. This issue has been resolved.	DE86971

Table 9: Obsolete Features

As of this release, the following items are no longer available.

Description	Tracking ID
All administrative Asset Criticality Analysis functions, previously accessed via the **Application Settings** page, have been deprecated.	US300819
AMS Asset integration is no longer supported by the Risk Assessment family, as it is now used by the Criticality family.	US294959

Asset Health Manager

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 10: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **AHM Admin** page, in the **Health Indicator Source Management** workspace, the **Include All Matching** and **Exclude All Matching** buttons have been removed. These buttons have been replaced by the **Resync Health Indicators** button, which you can use to resync health indicators if the list of health indicator sources becomes out of sync with the actual list of available health indicators.	• US327899 • US272011
To enable more efficient navigation of health indicator sources, the **Status** and **Do not automatically create health indicator** columns have been removed from the **Health Indicator Source Management** workspace in the **AHM Admin** page. These two columns have been replaced by one new column, **Included**, which displays a check mark when a health indicator source is used to create health indicators and which appears empty when a source is not used to create health indicators. To facilitate this enhancement, a new field, Include as Health Indicator Source Field, has been added to the Health Indicator Mapping family. In addition, a new field, Include as Health Indicator Source, has replaced the Do Not Automatically Create Health Indicator field in the following families: • Checkpoint • Checkpoint Template • Measurement Location • Measurement Location Template	• US305616 • US305290

Table 11: Resolved Issues

The following issues that existed in one or more previous releases have been resolved.

Description	Tracking ID
If Home was selected in the Asset Hierarchy, when you attempted to access the **Health Summary** page, the page could take a long time to load, and, in some cases, the page failed to load.	DE100129
Previously, if you loaded a large number of assets into a database, the **Health Indicator Status by Asset** graph loaded very slowly or, in some cases, timed out and did not load at all. This issue has been resolved. Now, the performance of the **Health Indicator Status by Asset** graph is significantly improved.	DE93292

Asset Hierarchy

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 12: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **Hierarchy** section, for the following scenarios, a message appears at the bottom of the hierarchy, indicating that there are too many records available in the hierarchy, and you can use the search or filter option to find the required equipment or functional location. • If more than or equal to 500 top-level records are available in the hierarchy. • If more than or equal to 500 child equipment or functional locations are available for a parent functional location. • If you search for an equipment or a functional location, and the search results contain 500 or more equipment or functional locations.	US322281

Table 13: Resolved Issues

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

Description	Tracking ID
Previously, while accessing the data for an asset in the **<Asset Name>** workspace, if you navigated away from the workspace and then attempted to access the data for the asset, an error occurred. This issue has been resolved.	DE92693
Previously, if you specified filter criteria and selected an asset to view the data in the **<Asset Name>** workspace, when you navigated away from the workspace, and then attempted to access the data in the **<Asset Name>** workspace, the filter criteria that you specified was cleared. This issue has been resolved.	DE92877

Asset Strategy Implementation

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 14: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Previously, in the **ASI Overview** page, you could create multiple ASI Packages with the same value in the Package ID field. Now, when creating ASI Packages, the value in the Package ID field must be unique.	US303572

Table 15: Resolved Issues

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

Description	Tracking ID
Previously, in the **ASI Package** page, if you selected the Add button (+), the list of possible Work Management Items (WMIs) that you could add to the parent ASI Package was not properly localized.	DE89198

Asset Strategy Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 16: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, the Criticality Value button (▲) has been updated to ■.	US318204
A new query, Asset Strategy Action Revisions Query, has been added to the Catalog folder \ \Public\Meridium\Modules\Asset Strategy Management\Management\Queries. The Asset Strategy Action Revisions Query is used by the **ASM Implement Actions** workspace to allow customizations of columns representing fields from the Action family.	US307521
To enhance usability, in the **ASM Overview** page, you can now export one or more Asset Strategy Templates.	US294957
To enhance usability, in the **ASM Overview** page, you can now export one or more Asset Strategies.	US291223
To enhance usability, in the **Implement Actions** section, you can now apply updates to Actions that are implemented by EAM Plan or EAM Plan Details records.	US165018
To enhance integration, in the **ASM Overview** page, you can now create Actions from an EAM Plan.	US164318
To enhance integration, in the **ASM Overview** page, you can now link Actions to an EAM Plan.	US164312

Table 17: Resolved Issues

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

Description	Tracking ID
Previously, when applying a template in ASM, an error may have occurred which caused one or more Actions to not be linked to Risks. This issue has been resolved.	DE103599

Calibration Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: V4.3.0.7.0

Table 18: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now perform a manual calibration on tasks with Fluke 74X templates. To facilitate this enhancement, in the **Calibration Queue** section, the **Manual Calibration** button is enabled for tasks whose device type is Fluke 74X.	US306467
You can now use Kilopascal (KPA) and Megapascal (MPA) as units of measurement (UOM) in a calibration template while performing calibration on the Fluke device. To facilitate this enhancement, KPA and MPA UOMs are now available for you to add to the CALIBRATION UOM PRESSURE reference table by selecting the MI_CALIBRATION_REFERENCES system code table.	US298314

Description	Tracking ID
To enhance usability, the Calibration Data Loader worksheets have been renamed as follows:	US294225

Old Worksheet Name	New Worksheet Name
MI_TESTEQUIP	Test Equipment
MI_TST_EQUIP_HIST	Test Equipment History
MI_SGCY0000	Standard Gas Cylinder
MI_SGCM0000	Standard Gas Component
PROF_TEMPLATES	Profile Template
MI_CAL_PROF	Calibration Profile
MI_TMCAAN00	Analog Template
MI_TMCADSCT	Discrete Template
MI_TMCASCAN	Single Component Template
MI_TMCAMCAN	Multi Component Template
MI_TDCAAN00	Single Comp Temp Detail
MI_TASKCALB	Calibration Task
MI_EVENTS	Calibration Event
MI_RESULTS	Calibration Result
MI_RECCLBN	Calibration Recommendation

Note: Data Loaders with old worksheet names will also be supported.

Description	Tracking ID
The Calibration Management module now supports calibration of Functional Location and custom asset. You can now map any of the fields of the Equipment, Functional Location, or custom asset family as an asset ID, which is used to construct the Applied Template ID and in the data loader to find the asset. To facilitate this enhancement, the following changes have been made: • A new workspace, **Asset ID Configuration**, has been added to the **Calibration Admin Preferences** page, where you can create, update, or delete an Asset ID Configuration record. • A new family, Calibration Asset Configuration, has been created. • Equipment and Functional Location families are configured as baseline and are available in the Asset ID Configuration. • New catalog queries, Asset ID Configuration List Query, Calibration Asset ID Query, and Calibration_Device_Result, have been created. • Functional Location mapping is added to all the existing Device Mappings. • SSRS Reports, Graphs, and the existing catalog queries are updated to include Functional Location. • Data Loaders are modified to support Functional Location or custom asset. In the Calibration Data Loader worksheets, the following changes have been made:	F40674

Worksheet Name	Old Field ID	Old Field Caption	New Field ID	New Field Caption
Analog Template, Discrete Template, Single Component Template, Multi Component Template	MI_TMCA0000_ASSET_KEY_N	Asset Key	ASSET_ID	Asset ID
Analog Template, Discrete Template, Single Component Template, Multi Component Template	MI_TMCA0000_ASSET_FAM_KEY_N	Asset Family Key	ASSET_FAMILY_ID	Asset Family ID
Calibration Task	MI_TASK_RELAT_ENTIT_ID_CHR	Asset ID	ASSET_ID	Asset ID
Calibration Event	MI_EVENT_ASSET_KEY_N	Asset Key	ASSET_ID	Asset ID
Calibration Recommendation	MI_RECCLBN_EQUIP_KEY_C	Asset Key	ASSET_ID	Asset ID

Table 19: Resolved Issues

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

Description	Tracking ID
Previously, in the **Channel/Modules** section, when you tried to access the Protective Instrument Loop Logic Solver Channel for a Protective Instrument Loop or a PIL Template, a blank datasheet appeared. This issue has been resolved.	DE103480
Previously, when you accessed a localized version of the Calibration Management module, the following issues occurred: • After you received data from the CMX calibrator, in the **Calibration Results** section, the values saved in the Overall AF Error Max and Overall AL Error Max fields were incorrect. For example, suppose you had logged in as a German user, and the reading in the CMX device was 12.5. In that case, instead of 12,5, you received 125. • When you sent data to the Fluke or Druck calibrator, the data was sent successfully, but an error message appeared in the calibrator, specifying that the value was out of range. • If you attempted to receive data from the calibrator, you received the data, but rows in the **Download Calibration Checklists** section appeared blank. These issues have been resolved.	• DE102233 • DE101992 • DE101579
Previously, if the Task ID field in a Calibration Task contained a slash (/) character, and you attempted to perform an automated calibration using a CMX device or a manual calibration, an error occurred. This issue has been resolved.	DE101587
Previously, when CalibrationDataModelUpgradeUtility was run to upgrade to V4.2.0.0 or later, an error occurred. This issue has been resolved.	DE101561
Previously, if you sent calibration data to a GE Druck calibrator and performed only the as-found calibration, you could not receive data from the calibrator. This issue has been resolved.	DE101348
Previously, in the **Calibration Queue** section in the **Calibration Management Overview** page, if you filtered for a specific asset, although the number in the **Calibration Queue** tab was updated with the number of records for the new asset, the list of records in this section remained the same. This issue has been resolved.	DE100627
Previously, in the Calibration Data Loader, for each Recommendation that you wanted to create in a batch, only the first Recommendation was created. Due to this, multiple records were created for the first Recommendation in the batch, and no records were created for the rest of the Recommendations. This issue has been resolved.	DE94856
Previously, in the **Calibration Admin Preferences** page, in the **Default Configurations** workspace, when you did not select a value in the **Input Damping Setting**, **Output Damping Setting**, or **Input Min Max Mode** drop-down list box, and then tried to add a calibration template, an error occurred. The issue occurred because these fields were being populated by the MI_DAMPING_TYPE system code table, which did not match the default values provided in the Input Damping Setting, Output Damping Setting, or Input Min Max Mode fields in the Calibration Setup Defaults record. This issue has been resolved. Now, the fields are populated by the MI_STATUS system code table instead of the MI_DAMPING_TYPE system code table.	DE93938
Previously, in the Calibration Data Loader, in the MI_EVENTS worksheet, when you added a Cylinder ID column with a cylinder ID value, and then attempted to import data for a Calibration, Multi-Component Analyzer event, an error occurred. This issue has been resolved.	DE91121

Description	Tracking ID
Previously, if you sent data to a Fluke calibrator using a template with the following settings, the output UOM was set to mV: • The input UOM was set to mA. • The **Manual Entered Output Values** and **Custom Output Values** check boxes were selected. Due to this, the output value in the calibrator was recorded in mV. This issue has been resolved.	DE91098
Previously, in the **Download Calibration Checklists** section of the **Receive From Device** window, after receiving data from the GE Druck calibrator, the following issues existed: • In the **Data** subsection, the status of the records received was incorrectly displayed as zero. • In the **Log** subsection, the progress of the records received was incorrectly displayed as zero. These issues have been resolved.	DE82718

Table 20: Obsolete Features

As of this release, the following items are no longer available.

Description	Tracking ID
The MI_DAMPING_TYPE system code table is no longer used in Calibration Management. This is because the values in the system code table did not match with the values in the baseline default configuration.	DE93938

Compliance Management

This topic provides a list of product changes released for this module on the dates listed below.

V4.3.0.7.0

Table 21: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The Compliance Management module has been introduced in V4.3.0.7.0. You can use this module to create Inspection Plans that adhere to inspection requirements set by regulatory bodies, corporate guidelines, or industry best practices.	F38782

APM Data Extraction

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 22: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
APM Data Extraction service has been introduced in this release. This service has been implemented based on OData v4.01 specification. Using this service, you can expose your APM database, enabling entities to be accessed using an Open Data interface. Reporting and Business Intelligence tools using OData requests can read this exposed data with the help of simple queries, enabling you to visualize and analyze the data.	F40154

Table 23: Known Issues

The following issues are unresolved in this release.

Description	Tracking ID
Data filters are not supported in Unit of Measurement (UOM) fields.	DE103033
Data formatting options such as time zone conversions, currency formats, and number formats are not supported.	DE102126

Data Loaders UDLP V2.6.0

This topic provides a list of product changes released for this module on the dates listed below.

V4.3.0.7.0

Table 24: Resolved Issues

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

Description	Tracking ID
Previously, when a request from a data loader job running in the database timed out, the job status incorrectly appeared as `Dataloader Enqueued`. Now, the job status correctly appears as `Cancelled`.	DE91700

Data Permissions

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 25: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **Assign Users** window, you can now search for a Security User using the User ID of the Security User.	US291131

Table 26: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to search for a family, the search results displayed only the families whose names started with the exact string that you specified in the search criteria. This issue has been resolved. Now, you can search for all the families whose names contain the string that you specify in the search criteria.	DE87016

eLog

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 27: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID

To define your work routine, you can now perform the following tasks:
 	
• Sign in to a Shift.
• Create log entries for the Shift.
• Add comments to the log entries.
• Create Primary Events for the log entries.
• Complete assignments for the Shift.
• Submit the assignments for review.
• Approve or reject the assignments.
• Resubmit the assignments for review.
• Access the sign-in and sign-out logs for the Shift.
• Sign out of the Shift.
• End the session of a Team Member.
 	
To facilitate this enhancement, the following changes have been made:
 	
• In the **eLog Overview** page, the following sections have been introduced:
  ◦ **All Log Entries**
  ◦ **Sign-in/Sign-out Logs**
  ◦ **STATUS OF ASSIGNMENTS**
  ◦ **LOG ENTRIES BY TYPE**
  ◦ **TOP 5 SHIFTS WITH HIGHEST NUMBER OF LOG ENTRIES**
• The **Shift Summary** page has been introduced.
• The following families have been created:
  ◦ eLog Entry, which contains the following subfamilies:
    ◦ eLog General Entry
    ◦ eLog Generation Event
  ◦ eLog Entry Comment
  ◦ eLog Login
• The MI_ELOG_ENTRY_STATUS System Code Table has been created.
	• US322403
	• US316724
	• US316276
	• US314262
	• US308158
	• US293274
	• US293273
	• US292312
	• US292108
	• US279846

Description	Tracking ID
You can now manage settings for the eLog module using the **eLog Administration** page. To facilitate this enhancement, the eLog module has been added to the Application Settings. In addition, the following changes have been made: • The following families have been created: 　◦ Data Entry Form Definition 　◦ Data Entry Form Field 　◦ eLog Entry Type Color 　◦ eLog Role Configuration 　◦ eLog Template • The following System Code Tables have been created: 　◦ MI_ELOG_ROLES 　◦ MI_ELOG_TEMPLATE_GEN_ON 　◦ MI_ELOG_TEMPLATE_PRIORITY 　◦ MI_ELOG_TEMPLATE_TYPE 　◦ MI_ELOG_TYPE 　◦ MI_ELOGTYPE_COLOR 　◦ MI_FF_TYPE	• US312351 • US311141 • US295161 • US291851 • US281062
You can now access, create, and delete a Shift. To facilitate this enhancement, the **Shifts** section is added to the **eLog Administration** page. In addition, the following fields have been added to the Shift family: • Description • End Date • End Time • Functional Location • Start Date • Start Time • Teams	US281062
In the Shift Records topic, the following fields have now been included: • Description • End Date • End Time • Functional Location • Start Date • Start Time • Teams In addition, the Shift ID field has been named the Shift Name field.	US281062

Table 28: Obsolete Features

As of this release, the following items are no longer available.

Description	Tracking ID
The Log Entry family and its subfamilies have been replaced with a new family, eLog Entry.	US311105
In the `Graphs` folder, the Log Entries by Type item has been deprecated.	US311105
In the `Queries` folder, the following items have been deprecated: • All Shift in eLog • List of Log Entries • List of Log Entries for Calendar • List of My Log Entries • Log Entries By Type • Report - All Log Entry Types • Report - Log Entry, Shift Transition	US311105
The following System Code Tables have been deprecated: • MI_LOG_CAUSE • MI_LOG_DURATION_UNITS • MI_LOG_IMPACTS • MI_LOG_INJURY_SEVERITY • MI_LOG_MITIGATINGS • MI_LOG_UTILITY_TYPE	US311105

Family Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 29: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
When you attempt to update the existing records for a given family with the modified record ID, now, a new job, UpdateTemplateIDJob, is created in the **Schedule Logs** page to update the existing records. This enhancement significantly improves the performance of the system while updating the records in bulk.	US299142
The first report that you associate with a family becomes the default report for the family.	US293868
You can now hide a datasheet belonging to a family that you do not want to appear for the corresponding records. To facilitate this functionality, the **Hide** check box has been added to the **Datasheet Information** window of the **Datasheet Builder** page.	US290738

Table 30: Resolved Issues

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

Description	Tracking ID
Previously, if a newly created field had been added to a datasheet belonging to the Checklist Findings family, and you attempted to access a checklist category for an inspection belonging to a checklist inspection family, an error message appeared, indicating that the datasheet failed to load. This issue has been resolved.	DE101578
Previously, in the **Manage ID Template** window, while entering a delimiter for a field in the **Delimiter** box, if you entered a space, the space did not appear in the **New ID Template** value in the following scenarios: • Space is the only character in the entered value. • Space is the first or last character in the entered value. This issue has been resolved.	DE92913

Failure Modes and Effects Analysis

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 31: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, in the **Analysis Details** pane, the following lists are now sorted alphabetically: • Assets • Failure Effects • Failure Modes	US302942
To enhance usability, in the **Analysis Details** page, the number of associated records now appears as a count in the following sections: • Linked Assets • Reference Documents • Reports • Team Members	US301505
To avoid timeout issues, in the **Analysis Details** workspace, Asset Strategy Management promotion is now a background operation.	US291070
To maintain consistency, in the **Recommendations** pane, State Management is now controlled by the same functionality as other GE Digital APM modules.	US283474
To enhance usability, in the **Analysis Details** page, in the **Decision Logic** section of the **Failure Effect** workspace, the decision logic workflow has been condensed and simplified.	US274365

Table 32: Resolved Issues

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

Description	Tracking ID
To avoid timeout issues, in the **Analysis Details** workspace, Asset Strategy Management promotion is now a background operation.	DE97426
Previously, in the **Import Data** section, when you attempted to execute the Failure Modes and Effects Analysis (FMEA) Data Loader, an error could appear in the log. This issue has been resolved.	DE95839

Family Policies

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 33: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve the performance of the Predix Time Series node, the default number of readings that the Predix Time Series node retrieves from a Time Series data source has been reduced from 500000 to 10000.	US327520
The Edit Entity node now updates records from a collection of values irrespective of the name of the collection column containing the entity keys. To facilitate this enhancement, the **Entity Key Column** drop-down list box has been added to the **Properties** window for the Edit Entity node where you can specify the collection column containing the entity keys.	US314481
The minimum time interval that you can configure to run a job that deletes the execution history logs from the database is now increased to one hour. **Note:** If you had specified the time interval value for the job in minutes, the specified value is rounded up to the nearest value in hours, and the updated value appears in the **Execution History Settings** workspace. However, the job will continue to run at the time intervals that you had specified until you save the modified settings for the job.	US311726
You can now access the execution details of a sub policy from the calling policy. To facilitate this enhancement, the **View Execution Details** link, which can be used to view the policy model and execution details of the sub policy in a separate window, has been added to the **Node Execution Details** window for the Sub Policy node.	US306756
You can now configure a policy to apply an asset strategy template to an asset or asset strategy. To facilitate this enhancement, the Apply Strategy Template node has been added to the **Actions** section of the toolbar in the **Design** workspace.	US298658
You can now convert the output value of a node to another data type. To facilitate this enhancement, the Convert Type node has been added to the **Calculations** section of the toolbar in the **Design** workspace.	US297271
In the **Properties** window for the Create Alert and Query Alerts nodes, the Asset UUID field has been renamed Asset Unique ID.	• DE90491 • DE90280

Table 34: Resolved Issues

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

Description	Tracking ID
Previously, if Microsoft Message Queuing (MSMQ) stopped responding or could not be accessed, the Policy Trigger Service and Policy Execution Service failed to automatically reconnect with MSMQ even after it became available again. This issue has been resolved.	US307302
Previously, the collection of values returned by a sub policy was incorrectly mapped to the columns of the collection output of the corresponding Sub Policy node in the calling policy. This issue has been resolved.	DE102425
Previously, if you mapped the collection output of a node to a Last node that was not its immediate successor node in the policy model, and then mapped the output of the Last node to an Is Null node, the input mappings of the Is Null node were not retained. This issue occurred when you saved and then reloaded the policy. This issue has been resolved.	DE101761
Previously, if the user account impersonated by the Policy Execution Service was locked out of a data source, and the Policy Execution Service received an execution request from the same data source, the service kept attempting to log in to the data source using the impersonated user account and did not process the requests from the other data sources. This issue has been resolved. Now, if the Policy Execution Service fails to log in to a data source using the impersonated user account, the service attempts to log in to the data source at the intervals configured in the `Meridium.Policies.ExecutionService.exe.config` file, and processes the execution requests from the other data sources between the successive login attempts.	DE101149
Previously, if you configured a Case node or Is Null node to pass a time stamp value to an Add Value to Health Indicator node, the validation and execution of the Add Value to Health Indicator node failed, and an error message appeared in the **Execution Details** window indicating that the date is not in Coordinated Universal Time (UTC). This issue has been resolved.	DE98447
Previously, if you validated or executed a policy that contained a Math node with an invalid mathematical expression, an incorrect error message appeared, indicating an R Server connection issue. This issue has been resolved.	DE98244
Previously, if you executed a policy that contained an Edit Entity node from another GE Digital APM module, an incorrect value was updated in the record mapped to the node. This issue occurred if your user account was configured with Metric Unit of Measure (UOM) preferences, and the base UOM configured for the field updated by the policy was not a Metric unit. This issue has been resolved.	DE98240
Previously, duplicate policies for the same family and trigger could exist in the GE Digital APM database. In this scenario, you could not delete the duplicated policy. This issue has been resolved.	DE95827
Previously, when you executed a policy that contained a Create Relationship node and a Create Entity node configured to create multiple records, the subsequent relationships were not created after the creation of the relationship between the first combination of records. This issue occurred if you specified one of the following inputs for the Create Relationship node: • Duplicate predecessor entity keys and the output of the Create Entity node as the successor entity key. • The collection output of a Create Entity node as the predecessor or successor entity key. This issue has been resolved.	• DE94996 • DE94795
Previously, if a policy contained a Math node with a variadic function, and the variables of the variadic function represented the columns of a collection, the validation and execution of the policy failed. This issue has been resolved.	DE94085

Description	Tracking ID
Previously, when you attempted to access a policy containing a large number of nodes, one of the following issues occurred: • The policy took a long time to load. • The policy did not load. This issue has been resolved.	DE93538
Previously, when you attempted to access an imported policy that contained a Create Entity node for a family that did not exist in the GE Digital APM database, the policy did not load. This issue has been resolved. Now, the policy loads regardless of the family is specified for the Create Entity node.	DE92631
Previously, if you mapped the time stamp output of a node to an input field of a successor node, and then executed the policy, in the **Execution Details** window for the successor node, the time stamp appeared in the time zone specified for your GE Digital APM user account instead of the policy time zone. This issue has been resolved.	DE91644
Previously, if you configured a policy with a Baseline Rule node for a family whose ID contained a space, the validation and execution of the policy failed. This issue has been resolved.	DE91542
Previously, if you did not update the memory cache after creating or deleting a family policy, the following issues occurred: • The newly created policy was not executed for the associated trigger. • The deleted policy was executed for the associated trigger. These issues have been resolved.	DE91303
Previously, if you executed a policy that was configured to perform an action on a recently added, modified, or deleted family or family field, the execution failed even though you could successfully validate the policy. This issue has been resolved.	DE91301
Previously, in the **Properties** window, if you attempted to map a column of a query result to an input field, the drop-down list box to specify the column of the query result did not appear for the following nodes: • Create Relationship • Delete Entity • Delete Relationship • Edit Entity • R Script This issue has been resolved.	DE90835
Previously, irrespective of the display language configured for your user account, the name of the Sub Policy node always appeared in US English. This issue has been resolved.	DE89416
Previously, in the **Properties** window for the Create Relationship node, if you specified duplicate predecessor or successor entity keys to create multiple one-to-one relationships, and then validated or executed the policy, a validation error occurred for the node. This issue has been resolved.	DE89330

Description	Tracking ID
Previously, when you attempted to access a policy, the policy did not load if it contained the following nodes: • A comparison node without an input value • Multiple Sub Policy nodes This issue has been resolved.	DE88744
Previously, in the toolbar of the **Design** workspace, nodes configured to be available only for specific licenses were available even if you did not have the corresponding licenses. This issue has been resolved.	DE87323

Table 35: Obsolete Features

As of this release, the following items are no longer available.

Description	Tracking ID
In the **Properties** window for the Create Alert node, the **Recurring** option has been removed from the **Field** drop-down list box.	DE91756

Foundation

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 36: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
GE Digital APM has been tested with Google Chrome versions 72 and 73.	US336340

Table 37: Resolved Issues

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

Description	Tracking ID
Previously, in the Role Data Loader Workbook, in the RoleGroup worksheet, the color coding incorrectly indicated that entering values in the RoleId and GroupId fields was optional. Now, the color coding correctly indicates that entering values in these fields is required.	DE83053

GE Analytics

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 38: Enhancements and New Features

The following enhancements and new features have been added.

Description	ID
GE Analytics now supports Enterprise Impact 18.2 Hotfix 1. **Note:**	US328964
GE Analytics now supports loading up to 62,000 tags and alerts from SmartSignal.	US307305

Table 39: Resolved Issues

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

Description	ID
Previously, the GE Analytics connector would intermittently update GE Enterprise TotalNodeHash without updating the actual nodes, which caused incorrect synchronization of the nodes in GE Digital APM. Now, TotalNodeHash is updated only if the corresponding nodes have been updated.	DE101495
Previously, tags deleted in GE System 1 were not deleted in GE Digital APM. Now, tags are deleted correctly.	DE93523
Previously, the synchronization process for newly added tags was not working without restarting both the Meridium GE Service and the AMQP Service. Now, the synchronization process initiates automatically.	DE88701

General Dashboards

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 40: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now export the contents of a dashboard to a PDF. When viewing a dashboard, you can now select the More Options button (⋮), and then select **Export to PDF**.	US290439

Generation Availability Analysis (GAA)

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 41: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can no longer create a log entry from an Event if you are not signed in to the Shift for which you want to create a log entry.	US316276

Graphs

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 42: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now export a graph to a PDF file. To facilitate this enhancement, the **Export to PDF** button ( ) has been added to the **Graph Result** workspace.	US297381
You can now define where the legend for a graph should appear in the **Graph Result** workspace. To facilitate this enhancement, in the graph settings pane, the **Show Legend** check box is now the **Legend** drop-down list box, where you can select a location for the legend or hide the legend.	US290781
For a numeric value in the tooltip of a graph, commas now appear as the thousands delimiter. To facilitate this enhancement, the format of the numeric value for a tooltip has been changed to match the format of the numeric value in the y-axis of the graph.	US283101

Table 43: Resolved Issues

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

Description	Tracking ID
Previously, for a pie chart with more than two pie slices, if the **State management enabled Family for captions** or **System code table for captions** option was selected in the **Dimension for Category** window, when you removed a row in the **Series** section of the **Settings** pane and saved the graph, multiple slices were removed from the graph. This issue has been resolved.	DE103948
Previously, for a pie chart with two pie slices, if the **State management enabled Family for captions** or **System code table for captions** option was selected in the **Dimension for Category** window, when you removed a row in the **Series** section of the **Settings** pane and saved the graph, an error message appeared. This issue has been resolved.	DE103809
Previously, after a database upgrade, when you attempted to access a graph based on a query that contained a family whose state management was enabled for captions, a spinner appeared, and the graph did not load. This issue can be resolved. For information on how to fix this issue, refer to KBA 6616.	DE101475
Previously, when you accessed a pie chart based on a query that contained family state IDs, the state IDs incorrectly appeared as graph labels. This issue has been resolved.	DE100709
Previously, if you created a graph using a Crosstab query and mapped fields containing site data to the vertical axis, the graph legend and tooltips contained values from the first field in the list, regardless of the site to which you are assigned. This issue has been resolved.	DE98265

Help System

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 44: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve visibility of large tables and images, an expand display button (【 】) has been added to the help system. You can select this button to remove the navigation menus on the sides of the page so that the content takes up the full width of the page.	N/A
To improve accessibility and navigability of reference documentation for URLs, all URLs topics have been combined into the following section in the documentation: **Basics** > **URLs** > **Reference**. **Note:** You can still also access the URLs topic for a module in the documentation for that module.	N/A

Table 45: Resolved Issues

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

Description	Tracking ID
Previously, the Access a Family Rule Project topic in the help system contained references to baseline family rule projects, although baseline rules are no longer part of the projects in the GE Digital APM Rules Library. This issue has been resolved. Now, references to the baseline family rule have been removed.	DE97347
Previously, when you accessed the help system via GE Digital APM using Internet Explorer, the help documentation appeared in an unexpected format and you were unable to return results via search. This issue has been resolved.	DE96121

Import and Export

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 46: Resolved Issues

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

Description	Tracking ID
Previously, if a policy that was scheduled to be executed was imported, when you updated the policy, a job to execute the policy was created in addition to the existing job that was created while importing the policy. This issue has been resolved.	DE98204
Previously, when you attempted to export a family that had a field with a list of valid values associated with an APM Query, and if the APM Query had a prompt configured for it, an error occurred. This issue has been resolved.	DE94684
Previously, if no rules were available in a rule library project, and you attempted to export the project, an error occurred and an incorrect message appeared in the error log. This issue has been resolved. Now, an appropriate error message appears in the error log, indicating that the rules are not available in the rule library project.	DE89799

Inspection Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 47: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now generate and download multiple Inspection Reports at a time. To facilitate this enhancement, the following changes have been made: • The **Bulk Print Report** option has been added to the **Underlying Open Inspections** section to print multiple inspection reports. This feature is also available in the **Inspection** section in the **Asset Overview** page. • The **View Bulk Printing Status** option has been added to the **Inspection Management Overview** page to view the status of the print job. On selecting this option, the **Downloads** page appears, displaying the status of all the print jobs.	US278869

Table 48: Resolved Issues

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

Description	Tracking ID
Previously, if you used State Management and downloaded an inspection in offline mode along with the Inspection History Report, the Inspection Recommendations did not appear in the Recommendation History section of the report. This issue has been resolved. To facilitate this fix, the MI_INSPHIST_RECINSP query has been modified to include the State column.	US292248
Previously, when you modified the queries in the **Underlying Inspection Tasks** and **Underlying Recommendations** sections in the **Inspection Management Overview** page, the counts in the Inspection Management tabs did not appear. This issue has been resolved. Now, you can add or delete columns from the Inspection Overview queries, but you cannot change the IDs of the query parameters.	DE105398
Previously, when you configured an Inspection record to use a master/detail datasheet, an error occurred when saving the **Detail** section of the datasheet. This issue has been resolved.	DE104166

Description	Tracking ID
Previously, if the Asset Hierarchy was configured to use the Equipment Has Equipment relationship, the Asset Hierarchy navigation links could not differentiate between a parent Equipment and a child Equipment. This issue has been resolved.	DE103536
Previously, when you added a Bundle Sub-Inspection, General Finding, or Pressure Test Sub-Inspection to a parent Inspection record, you were unable to navigate back to the parent record without saving the new related record. This issue has been resolved. Now, when you navigate back to the parent inspection without saving the related record, a message appears, asking you to confirm whether you want to save the unsaved changes.	DE103287
When you used a Samsung Galaxy Tab Active 3 with Android version 5.1.1 to create an Inspection, the **Inspection Tasks** drop-down list box did not appear within the visible portion of the window.	DE102573
Previously, when you created a non-recurring Inspection Task using the Inspection Management (IM) Assets or Inspection Management (IM) Functional Location data loader, an error message appeared in the log even though the Desired Interval cell was blank or contained the value 0. This issue has been resolved.	DE95976
Previously, when you saved a record in the **Inspection Confidence Evaluation** section and then attempted to navigate to any other section (such as the **Team Members** or **Inspection Data** sections) quickly, an error occurred. This issue has been resolved. **Note:** This issue occurred only if network connectivity was poor when using GE Digital APM.	DE93365
Previously, when you accessed an Inspection record and then attempted to navigate to any other page within GE Digital APM quickly, an error occurred. This issue has been resolved. **Note:** This issue occurred only if network connectivity was poor when using GE Digital APM.	DE93361
Previously, when you attempted to print a General Inspection Report or NR13 General Inspection Report with blank values in the Commencement Date or Completion Date fields, the report did not print. This issue has been resolved.	DE89775
Previously, when you attempted to select a value in the **Type of Inspection** drop-down list box that contained more than 50 characters, an error occurred, and the value was not selected. This issue has been resolved.	DE82361
Previously, when you attempted to create an inspection for equipment, the Inspection Tasks that were associated with the functional location of the equipment did not appear in the **Inspection Tasks** drop-down list box of the **Create Inspection** window. This issue has been resolved.	DE82621
Previously, when you created or updated an Inspection record using the Inspection Management (IM) Assets or Inspection Management (IM) Functional Location data loader without any value in the Final Inspection Lock column, the **Inspection Lock** check box was not selected even if you set the value as True in the data loader template. This issue has been resolved.	DE81521

Installation

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 49: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
GE Digital APM now supports Windows Server 2016.	US330336

Life Cycle Cost Analysis

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 50: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance accuracy in the **Cost Data** grid, when creating a new Resource for or adding an existing Resource to a Cost Element, the values in the **Year <Number>** columns (after the **Year 0** column) now reflect estimations based on inflation. The escalated inflation values in the **Year <Number>** columns are based on the Annual Escalation Rate field in the **Definitions** section.	US256920
To enhance usability, in the **Summary** section of the **Analysis Summary** workspace, the Total Cost chart has been added to the drop-down list box. The Total Cost chart displays a cumulative summary trend of the associated capital costs and operating costs for a scenario.	US254827

Table 51: Resolved Issues

The following issues that existed in one or more previous releases have been resolved.

Description	Tracking ID
Previously, in the **Scenario Definition** section of the **Analysis Summary** page, if you assigned an asset group to either the Primary Element Name or Secondary Element Name fields of the datasheet and then saved the analysis, if you navigated to the **LCC Overview** page and attempted to use the Asset Hierarchy to filter to the asset group you selected in the **Scenario Definition** section, the new analysis did not appear in the **LCC Analyses** section. This issue has been resolved.	DE93382
Previously, in the **LCC Overview** page, if you accessed an analysis by selecting an item from a chart in the **LCC Overview** page, the **Analysis Summary** page for that analysis appeared; however, one or more errors occurred. This issue has been resolved.	DE93217
Previously, in an **Operating Cost** row of the **Cost Data** grid, if you added a new Resource, and if the value in the **Cost Per Period** column for that new Resource was greater than 1000, the value that appeared in the **Cost Per Period** column was 1000 times less than the entered value. This issue has been resolved. Now, when you enter a value in the **Cost Per Period** column for a new Resource in the **Cost Data Grid**, the value in the **Cost Per Period** column appears as expected.	DE92991
Previously, if you selected to search for a specific LCC analysis, if you selected a result that was returned by the global search, the selected LCC analysis did not appear. This issue has been resolved. You can now use the button to search for and to navigate to a specific LCC analysis.	DE88780
Previously, after upgrading Life Cycle Cost Analysis (LCC) from a prior version of GE Digital APM, if you accessed the Cost Data Report from the **Analysis Summary** page, an error occurred. This issue has been resolved.	US285838

Maximo UDLP V2.6.0

This topic provides a list of product changes released for this module on the dates listed below.

Version: V4.3.0.7.0

Table 52: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
APM Connect now supports customized mappings for Maximo Notification Management.	US258012

Metrics and Scorecards

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 53: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve usability, GE Digital APM users can now map the event and asset criticality data available in their database to the standard event and asset criticality data defined for a work history cube using the corresponding families. To facilitate this enhancement, the following baseline families have been created in Family Management. You can run an update query for each of these families to modify and map the Event and Asset criticality data available in your database to the standard data available in GE Digital APM. • Event Type Dimension • Event Breakdown Dimension • Event Detection Method Dimension • Event Priority Dimension • Asset Criticality Dimension	US297906

Table 54: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting had a culture other than English and you accessed the following windows while creating a metric view or a Key Performance Indicator (KPI), the names of the windows were not translated to the appropriate language for your culture setting. • Add to Measures • Add to Rows • Add to Columns • Add to Slices • Select an APM Query from the catalog This issue has been resolved.	DE93383

Policy Designer

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 55: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now determine the quality of an OPC Tag reading accessed from the process historian. To facilitate this enhancement, the OPC Tag node has been modified to generate the DA Quality Is Good output value, which indicates the quality of readings.	US329392
To improve the performance of the Predix Time Series node, the default number of readings that the Predix Time Series node retrieves from a Time Series data source has been reduced from 500000 to 10000.	US327520

The following policies are now available as part of the baseline GE Digital APM:
 	
• DateAdd: To add a time interval value to a time stamp value. This policy is designed to be used as a sub policy, as an alternative for a date add function in a query or R script.
• DateDiff: To calculate the difference between time stamp values in terms of the following units of time:
 	
  ◦ Years
  ◦ Weeks
  ◦ Days
  ◦ Hours
  ◦ Minutes
 	
  This policy is designed to be used as a sub policy, as an alternative for a date difference function in a query or R script.
	• US314617
	• US314615

The Edit Entity node now updates records from a collection of values irrespective of the name of the collection column containing the entity keys. To facilitate this enhancement, the **Entity Key Column** drop-down list box has been added to the **Properties** window for the Edit Entity node where you can specify the collection column containing the entity keys.	US314481

Description	Tracking ID
The minimum time interval that you can configure to run a job that deletes the execution history logs from the database is now increased to one hour. **Note:** If you had specified the time interval value for the job in minutes, the specified value is rounded up to the nearest value in hours, and the updated value appears in the **Execution History Settings** workspace. However, the job will continue to run at the time intervals that you had specified until you save the modified settings for the job.	US311726
You can now view the execution result of a Sub Policy node in the execution summary of the policy. To facilitate this enhancement, the policy execution summary has been modified to display the number of times the Sub Policy node executed the associated sub policy.	US306760
You can now access the execution details of a sub policy from the calling policy. To facilitate this enhancement, the **View Execution Details** link, which can be used to view the policy model and execution details of the sub policy in a separate window, has been added to the **Node Execution Details** window for the Sub Policy node.	US306756
You can now configure a policy to apply an asset strategy template to an asset or asset strategy. To facilitate this enhancement, the Apply Strategy Template node has been added to the **Actions** section of the toolbar in the **Design** workspace.	US298658
You can now convert the output value of a node to another data type. To facilitate this enhancement, the Convert Type node has been added to the **Calculations** section of the toolbar in the **Design** workspace.	US297271
The R Scripts module now supports Machine Learning Server 9.2.1 in addition to R Server 8.0.0. To facilitate this enhancement, in the **Connections** page, the **R Server Version** drop-down list box has been added to enable you to select the version of your R Server.	US283973
When you deploy Policy Designer for the first time or upgrade to version 4.3.0.7.0, you must configure the Meridium Notification Service to enable the Policy Execution Service.	DE103226

Table 56: Resolved Issues

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

Description	Tracking ID
Previously, if multiple entities were associated with an entity ID that you specified in the Policy Instance Data Loader, no records associated with the entity ID were mapped to the instance. Now, in this scenario, if one of the records associated with the entity ID is linked to the primary record of the instance, the record that is linked to the primary record is mapped to the instance.	US311492
Previously, if Microsoft Message Queuing (MSMQ) stopped responding or could not be accessed, the Policy Trigger Service and Policy Execution Service failed to automatically reconnect with MSMQ even after it became available again. This issue has been resolved.	US307302
Previously, the collection of values returned by a sub policy was incorrectly mapped to the columns of the collection output of the corresponding Sub Policy node in the calling policy. This issue has been resolved.	DE102425

Description	Tracking ID
Previously, if you frequently switched between pages, workspaces, windows, or sections while using Policy Designer for a long period of time, the following issues occurred: • The **Design** workspace took a long time to load. • Operations in the **Design** workspace, such as moving a node, took a long time. • The internet browser intermittently stopped responding. These issues have been resolved.	DE102142
Previously, if you mapped the collection output of a node to a Last node that was not its immediate successor node in the policy model, and then mapped the output of the Last node to an Is Null node, the input mappings of the Is Null node were not retained. This issue occurred when you saved and then reloaded the policy. This issue has been resolved.	DE101761
Previously, if the user account impersonated by the Policy Execution Service was locked out of a data source, and the Policy Execution Service received an execution request from the same data source, the service kept attempting to log in to the data source using the impersonated user account and did not process the requests from the other data sources. This issue has been resolved. Now, if the Policy Execution Service fails to log in to a data source using the impersonated user account, the service attempts to log in to the data source at the intervals configured in the `Meridium.Policies.ExecutionService.exe. config` file, and processes the execution requests from the other data sources between the successive login attempts.	DE101149
Previously, after successfully processing data, the data loader log displayed a record count of 0. Now, the data loader log displays the correct record count.	DE100703
Previously, if you deleted the Input node that represented the primary record for an instance and saved the policy, when you specified the primary record for any instance using the Policy Instance Data Loader, the primary record was not mapped to the instance. This issue has been resolved.	DE99335
Previously, if you configured a Case node or Is Null node to pass a time stamp value to an Add Value to Health Indicator node, the validation and execution of the Add Value to Health Indicator node failed, and an error message appeared in the **Execution Details** window indicating that the date is not in Coordinated Universal Time (UTC). This issue has been resolved.	DE98447
Previously, if you validated or executed a policy that contained a Math node with an invalid mathematical expression, an incorrect error message appeared, indicating an R Server connection issue. This issue has been resolved.	DE98244
Previously, if you executed a policy that contained an Edit Entity node from another GE Digital APM module, an incorrect value was updated in the record mapped to the node. This issue occurred if your user account was configured with Metric Unit of Measure (UOM) preferences, and the base UOM configured for the field updated by the policy was not a Metric unit. This issue has been resolved.	DE98240
Previously, when you imported instances for multiple policies using the same Policy Instance Data Loader workbook, the following issues occurred: • The data loader was successfully imported without any error message. • The imported instances were incorrectly associated with the policies. These issues have been resolved. Now, in this scenario, the data loader is not imported and an error message appears in the data loader log, indicating that the instances could not be imported.	DE98002

Description	Tracking ID
Previously, if the deletion of an instance failed for any reason, the following issues occurred: • The instance was removed from the **Instances** section of the **Design** workspace. However, when you reloaded the policy, the instance reappeared in the **Instances** section. • No error message appeared. These issues have been resolved. Now, when you attempt to delete an instance, the following events occur: • If the deletion takes a long time, a spinner appears, indicating that the deletion is in progress. • If the instance is successfully deleted, confirmation message appears. • If the deletion fails, an appropriate error message appears.	DE96251
Previously, when you accessed the **Policy Designer Overview** page, the page did not load or took a long time to load. This issue occurred when the GE Digital APM database contained a large number of execution history records. This issue has been resolved. **Note:** If the issue persists, configure the **Policy Designer Overview** page to use the alternative query (Policy Overview – Policies Alternate Query) that has been added to the GE Digital APM Catalog. For more information on configuring the alternative query, contact Global Support Services.	DE95004
Previously, when you executed a policy that contained a Create Relationship node and a Create Entity node configured to create multiple records, the subsequent relationships were not created after the creation of the relationship between the first combination of records. This issue occurred if you specified one of the following inputs for the Create Relationship node: • Duplicate predecessor entity keys and the output of the Create Entity node as the successor entity key. • The collection output of a Create Entity node as the predecessor or successor entity key. This issue has been resolved.	• DE94996 • DE94795
Previously, if a policy contained a Math node with a variadic function, and the variables of the variadic function represented the columns of a collection, the validation and execution of the policy failed. This issue has been resolved.	DE94085
Previously, when you attempted to access a policy containing a large number of nodes, one of the following issues occurred: • The policy took a long time to load. • The policy did not load. This issue has been resolved.	DE93538
Previously, when you attempted to import policy instance data using the Policy Instance Data Loader, the data was not imported and an error message appeared in the data loader log, indicating that the Instance ID value exceeded the maximum character limit. This issue occurred if you assigned the first field sequence number for the Policy Instance family to a field with a maximum character limit less than the number of characters in the Instance ID specified in the data loader. This issue has been resolved. Now, in this scenario, the data is successfully imported.	DE93209
Previously, when you attempted to access an imported policy that contained a Create Entity node for a family that did not exist in the GE Digital APM database, the policy did not load. This issue has been resolved. Now, the policy loads regardless of the family is specified for the Create Entity node.	DE92631

Description	Tracking ID
Previously, if you mapped the time stamp output of a node to an input field of a successor node, and then executed the policy, in the **Execution Details** window for the successor node, the time stamp appeared in the time zone specified for your GE Digital APM user account instead of the policy time zone. This issue has been resolved.	DE91644
Previously, if you executed a policy that was configured to perform an action on a recently added, modified, or deleted family or family field, the execution failed even though you could successfully validate the policy. This issue has been resolved.	DE91301
Previously, if you mapped the output of an AMS Asset, GE Tag, Health Indicator, or OPC Tag node to a Comparison node, and then mapped the logical result of the Comparison node to an And or Or node, validation and execution of the policy failed. This issue has been resolved.	DE90937
Previously, if a policy was executed by a family-level rule or another GE Digital APM module multiple times within a short duration, the execution results for the Math and Text nodes were intermittently incorrect after the first execution. This issue has been resolved.	DE89726
Previously, irrespective of the display language configured for your user account, the text always appeared in US English for the following items: • Name of the Sub Policy node in policies. • Name of the policy instance data loader in the **Import Data** window of the **Data Loaders** page. This issue has been resolved.	DE89416
Previously, in the **Properties** window for the Create Relationship node, if you specified duplicate predecessor or successor entity keys to create multiple one-to-one relationships, and then validated or executed the policy, a validation error occurred for the node. This issue has been resolved.	DE89330
Previously, when you attempted to access a policy, the policy did not load if it contained the following nodes: • A comparison node without an input value • Multiple Sub Policy nodes This issue has been resolved.	DE88744
Previously, in the toolbar of the **Design** workspace, nodes configured to be available only for specific licenses were available even if you did not have the corresponding licenses. This issue has been resolved.	DE87323

Table 57: Obsolete Features

As of this release, the following items are no longer available.

Description	Tracking ID
In the **Properties** window for the Create Alert node, the **Recurring** option has been removed from the **Field** drop-down list box.	DE91756

Production Loss Analysis (PLA)

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 58: Resolved Issues

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

Description	Tracking ID
Previously, in the **Production Data** workspace, when you modified the value in the **Actual** column, the value in the Unit Key field of the Production Data record changed to 0. This issue has been resolved.	DE103340
Previously, after successfully processing data, the data loader log displayed a record count of 0. Now, the data loader log displays the correct record count. **Note:** • For each Product specified in the ProductionProfile worksheet in the Production Loss Analysis (PLA) 1-Admin Data Loader workbook, a Product record is created or updated along with the Production Profile record. Therefore, the record count in the data loader log will always be higher than the record count in the workbook. • For each Production Plan specified in the ProductionPlan worksheet in the Production Loss Analysis (PLA) 3-Plan Data Loader workbook, Production Data records are created based on the values in the Data Entry Frequency, Start Date, and End Date cells, along with the Production Plan record. Therefore, the record count in the data loader log may be different from the record count in the workbook.	DE100708
Previously, when you attempted to create a Production Profile, an error message appeared, stating that records were not found. This issue has been resolved.	DE92190
Previously, you could remove the mapping between an Event Code and a Production Unit if that Event Code was used in a Production Event. This issue has been resolved.	DE88958

Version: 4.3.0.6.6

Table 59: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to create a Production Profile, an error message appeared, stating that records were not found. This issue has been resolved.	DE98109

Process Data Integration (PDI)

Version: 4.3.0.7.0

Table 60: Resolved Issues

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

Description	Tracking ID
Previously, when you used the Tags to Assets Relationship Data Loader to associate a single OPC tag with multiple assets, only the last asset was associated with the tag. Now, all assets are associated with the OPC tag.	DE91962

Queries

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 61: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting was anything other than English and you ran a query with a field that was added twice with different aliases, if one of the fields was configured such that it did not appear in the query results, no values were displayed in the query results. This issue has been resolved.	DE103503
Previously, when you used the ORDER BY clause to sort a column in a query that contained the UNION operator or a SELECT DISTINCT statement and ran the query, an incorrect column was sorted in the query results. This issue occurred when the ORDER BY clause referenced an expression column by its alias. This issue has been resolved.	DE101497
Previously, when you ran a query that used the UNION operator as a formatted query, an error occurred, and the query did not return any results. This issue has been resolved.	DE101292
Previously, when you ran a query that used the UNION operator to combine the result set of two SELECT statements containing a WHERE clause, if the WHERE clause did not contain an AND operator, an error occurred, and the query did not return any results. This issue has been resolved.	DE100416
Previously, when you ran a formatted query with the limit results to top condition, the query did not return the expected results. This issue has been resolved.	DE99794
Previously, in the **Conditions** section of the **Design** workspace, when you hovered over a **Hyperlink**, **Criteria** or **Or** cell, a tooltip did not appear. This issue has been resolved.	DE94420
Previously, when you attempted to export a query result set to a dataset, only the first 100 records in the query result set were exported. This issue has been resolved.	DE93641

Description	Tracking ID
Previously, when you ran a query that joined a family to multiple sub-families and the relationship family caption contained a hyphen, an error occurred, and the query did not return any results. This issue has been resolved.	DE89510
Previously, when you accessed a Crosstab query in which a **Total** cell contained an aggregate function, incorrect values appeared in the **Field** and **Alias** cells. This issue has been resolved.	DE88704
Previously, when you exported the results of a formatted query that contained the ENTY_KEY and FMLY_KEY fields to a dataset, the **ENTY_KEY** and **FMLY_KEY** columns in the dataset were blank. This issue has been resolved.	DE88523
Previously, when you ran a formatted query where the same family was selected as the source and the related source, and the same field was selected from both sources, the related source field incorrectly displayed the source field value in the query results. This issue has been resolved.	DE88332
Previously, when you ran a formatted query to create left joins on two subqueries that pull data from the same family, the query did not return the expected results. This issue has been resolved.	DE88141
Previously, after selecting the **Limit Results to Top** check box and entering a value, if you ran an unformatted query and exported the query results to a Microsoft Excel file, the exported data in the file was different from the actual query results. This issue has been resolved.	DE79754

Record Manager

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 62: Resolved Issues

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

Description	Tracking ID
Previously, when a conditional alert for a record was scheduled to be executed at specified intervals, the alert was incorrectly executed at a different time than the time specified in the **Last Date Processed** box of the record. This issue has been resolved.	DE91635
Previously, if you had uploaded a reference document that had a file name with Chinese characters and then downloaded the same document using the Internet Explorer browser, the name of the downloaded document was incorrect. This issue has been resolved.	DE90473
Previously, while creating or modifying a record, the drop-down list boxes available in the datasheet were not highlighted with red borders, although a value was required for each drop-down list box. This issue has been resolved.	DE90469
Previously, if a query had a field displaying date and time, if you used the query as a data source for a record that belonged to the Conditional Alerts family and scheduled the conditional alert, the time for a specific date displayed in the query result did not match the corresponding time displayed in the email that was sent when the conditional alert was executed. This issue has been resolved.	DE87509

Description	Tracking ID
Previously, when you attempted to upload a reference document that had a file name with Russian characters, an error message appeared, indicating that the file type was not supported. This issue has been resolved. Now, you can upload a reference document with a Russian file name.	DE87014
Previously, in the **Record Explorer** page, when you attempted to access a record that had a large number (approximately 30000) of successor records that are associated with the same family, an error occurred. This issue has been resolved.	US316553

Reliability Analytics

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 63: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance accuracy in System Reliability analyses, the **Action Optimization** section has been added to the **Analysis Summary** page. The **Action Optimization** section allows you to optimize a group of actions associated with an analysis to determine the optimum interval at which to perform inspection or preventative maintenance. After you have found the optimal interval for an action, you can apply it to that action. When you do so, the value in the Interval field in the System Action record will be overwritten with the value that exists in the Optimal Interval field. After you apply the optimal interval, you can then run the simulation for the System Reliability Analysis to update the result based upon the optimized interval. To facilitate this enhancement, a new family, System Action Optimization, has been added to System Reliability.	F39608
To enhance usability, the System Reliability Data Loader has been added to Reliability Analytics. Using the System Reliability Data Loader, you can import the following types of primary and third-party data from a fixed-format Excel workbook into the System Reliability Data Model: • System Action records • System Analysis records • System Asset records • System Risk Assessment records • System Risk records • System Scenario records • System Subsystem records	US317337
In the **Simulation Results** workspace of the **Analysis Summary** page, you can now view charts in full-screen mode by selecting the Expand button ().	US312695
To enhance usability in Reliability Analytics, if you navigate away from an open page without saving your changes, the **Unsaved Changes** window now appears, prompting you to save.	US307526

Description	Tracking ID
To enhance analysis accuracy, when viewing the details of a Scenario in System Reliability, the following Distribution Types can now be selected for TTF and TTR Distributions in the **Risks** section and the **Show Risk/Mitigated Actions** grid: • Generalized Extreme Value Distribution • Gumbel Distribution • Triangular Distribution	US271178
To enhance analysis accuracy, when viewing the details of a Spare Application in a Spares Analysis, the following Distribution Types can now be selected in the **Update Distribution** section: • Generalized Extreme Value Distribution • Gumbel Distribution • Triangular Distribution	US271175

Table 64: Resolved Issues

The following issues that existed in one or more previous releases have been resolved.

Description	Tracking ID
Previously, in the **Simulation Results** workspace, if there were invalid values in the Simulation, a warning message appeared that overlapped the column headings in the **Simulation Results** workspace. This issue has been resolved. Now, if there are invalid values in the Simulation, the warning message that appears does not overlap the column headings.	DE104107
Previously, when using Internet Explorer, if you exported Simulation Results to a PDF, the resulting PDF did not contain any content. This issue has been resolved.	DE104091
Previously, in the **RA Overview** page, if you selected the **Spares Analysis** tab before the **RA Overview** page finished loading, no analyses appeared in the **Spares Analysis** section. This issue has been resolved.	DE101856
Previously, in the **Definition** section of a Spare Application, if you added an Application and with blank value in the **Application Name** box and then saved the Application, an error occurred. This issue has been resolved. Now, you cannot save an Application without entering a value in the **Application Name** box.	DE101854
Previously, in the **Diagram** section of the workspace for a Scenario in a System Reliability Analysis, if you selected an asset and then navigated to the **Actions** section, your selection was not retained and Actions that were not associated with the selected asset appeared in the **Actions** section. This issue has been resolved. Now, if you select an asset in the **Diagram** section and navigate to the **Actions** section, only the Actions associated with the selected asset appear.	DE100207
Previously, when creating a new Risk record in System Reliability, if you saved the new Risk record multiple times, a Risk record was created each time that you selected the **Save** button ( ). This issue has been resolved.	DE98759
Previously, in the **Risks** section of a System Reliability scenario, if you selected the link in a cell in either the **Planned Resource Usages** or the **Unplanned Resource Usages** column, the grid that appeared after selecting that link did not display the Fixed Cost and the Variable Cost fields, and you could not modify those fields in the datasheet. This issue has been resolved.	DE97078

Description	Tracking ID
Previously, in the **Resources** section of a System Reliability Analysis, if the value in either the **Fixed Cost** or the **Variable Cost** cell was greater than 1000, the value that actually appeared in that cell was improperly truncated. This issue has been resolved.	DE97077
Previously, in the **Assets** section of the **Reliability Distribution Data Editor** window of a new Reliability Distribution analysis: • The **Asset ID** and the **Installation Date** columns did not appear. • If you selected the Add button (), you could not add an asset to the Reliability Distribution. These issues have been resolved.	DE97069
Previously, in the Number of Iterations field in the **Definition** section of the **Analysis Summary** page, you could enter a value less than 400 and save the record. If you entered a value in the Number of Iterations field that was less than 400, if you then accessed the **Risks** workspace of a Scenario, an error occurred. This issue has been resolved. Now, in the **Definition** section of the **Analysis Summary** page, you cannot enter a value less than 400 in the Number of Iterations field.	DE96567
Previously, in the **Reliability Analytics** page, if you selected the **Spares Analyses** tab before the **Reliability Analytics** page finished loading, an error occurred. This issue has been resolved.	DE94260
Previously, when viewing the Reliability Distribution Analysis Report for an analysis for which a PM Optimization had been performed, the values entered for the Planned Cost and Unplanned Cost did not appear in the report. This issue has been resolved.	DE93870
Previously, in a Google Chrome browser, when creating a new Reliability Distribution in the **Reliability Distribution Builder** window by manually entering data, an error sometimes occurred, and the Asset ID field could not be modified. This issue has been resolved.	DE93728
Previously, when viewing plots in **Analysis Summary** page, if the value for the datapoint on the plot was less than one (for example, 0.01), the value plotted for the datapoint was incorrectly rounded to zero. This issue has been resolved. Now, datapoints with values less than one plotted in the **Analysis Summary** page appear as expected.	• DE92444 • DE92443
Previously, when creating a new Risk record in System Reliability, if you saved the new Risk record multiple times, a Risk record was created each time that you selected the **Save** button (). This issue has been resolved.	DE92376
Previously, in the **RA Overview** page, after creating a new System Reliability analysis, no message appeared indicating whether or not your new analysis was created successfully. This issue has been resolved.	DE88121

Reliability Centered Maintenance

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 65: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, in the **Analysis Details** pane, the following lists are now sorted alphabetically: • Assets • Failure Effects • Failure Modes	US302942
To enhance usability, in the **Analysis Details** page, the number of associated records now appears as a count in the following sections: • Linked Assets • Reference Documents • Reports • Team Members	US301505
To avoid timeout issues, in the **Analysis Details** workspace, Asset Strategy Management promotion is now a background operation.	US291070
To maintain consistency, in the **Recommendations** pane, State Management is now controlled by the same functionality as other GE Digital APM modules.	US283474
To enhance usability, in the **Analysis Details** page, in the **Decision Logic** section of the **Failure Effect** workspace, the decision logic workflow has been condensed and simplified.	US274365
To enhance usability and to allow you to incorporate related Failure Mode Asset ID values that make family records unique, you can now include the related Asset ID value of the Failure Mode family in the following worksheets of the Reliability Centered Maintenance (RCM) Data Loader: • Failure Effects Worksheet • Failure Modes Worksheet • Recommendations Worksheet	DE94412

Table 66: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting was anything other than English, and you accessed the following sections of the **Reliability Centered Maintenance** page, some of the column names were not translated to the language based on your culture setting. • Analyses • Risks • Recommended Actions This issue has been resolved.	• DE101699 • DE97040
To avoid timeout issues, in the **Analysis Details** workspace, Asset Strategy Management promotion is now a background operation.	DE97426
Previously, in the **Import Data** section, when you attempted to execute the Reliability Centered Maintenance (RCM) Data Loader, an error sometimes appeared in the log. This issue has been resolved.	DE95839

Report Configuration

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 67: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now print and export SSRS reports in bulk, and you can configure the following: • The path, constructed according to Universal Naming Convention (UNC) standards, where you want to store the printed reports. • The credentials that are required to access the machine in which the printed reports are stored. • The number of days after which the .zip file for the printed reports will be automatically deleted from the location where it is stored.	US305882

Risk Based Inspection

This topic provides a list of product changes released for this module on the dates listed below.

RBI 580 and RBI 581

Version: 4.3.0.7.0

Table 68: Enhancements and New Features

Note	Tracking ID(s)
To enhance usability, the datasheet content for the following families has been reorganized: • RBI 580 and RBI 581 Consequence Evaluation • RBI 580 and RBI 581 Degradation Mechanism Evaluation • RBI 580 and RBI 581 Risk Analysis • RBI Component Cylindrical Shell • RBI Component Exchanger Bundle • RBI Component Exchanger Header • RBI Component Exchanger Tube • RBI Component Piping • RBI Component PRD Relief Valve • RBI Component PRD Rupture Disk • RBI Component Pump Compressor Casing • RBI Component Tank Bottom • RBI Degradation Mechanism	• US326323 • US313293 • US313292 • US312832 • US312671 • US312669 • US312668 • US310210 • US310209 • US310208 • US310206 • US307738 • US303329 • US302445 • US229757
When viewing an analysis in the RBI module, you can now make changes to the analysis only if it is in the Created state. When you change the state of the analysis to any other state, the analysis and related records cannot be modified, and the **Save** button () is not available. **Note:** The following fields in the Degradation Mechanism family are no longer editable: • Mitigated Risk • Mitigated Financial Risk	US304996
You can now use a utility to generate Risk Assessment records for active RBI Criticality Analyses and RBI 581 Risk Analyses that do not have Risk Assessment records. Also, for the active RBI Criticality Analyses, the utility will calculate and set Half-Life for any related Ext. Corr. Deg. Mech Evaluations where the value is blank. After the utility is executed, the RBI 580 and RBI 581 analyses can be promoted to ASM, and RBI Recommendations can be generated for the active RBI 580 analyses with Ext. Corr. Deg. Mech Evaluations.	US272821

Note	Tracking ID(s)
To reflect the changes in Addendum-1 of API-581 3rd Edition, the Component Damage and Personal Injury Area calculations for Type-1 flammable fluids have been modified as follows: • The Consequence Area is determined based on the combination of Release Type and if the Operating Temperature is greater than the Auto Ignition Temperature. • The Blending and the Autoignition Temperature factors are not considered in the calculations for Type-1 flammable fluids.	US322083
You can now promote an Asset to Asset Strategy Management if all the RBI Components within the Asset contain an RBI Analysis in any of the following states: • Pending Approval • Approved • Implemented	US272476
You can now show or hide the analyses that are in the Archived state in the **Component Overview** page. To facilitate this enhancement, a new option, Hide Archived Analyses has been added to the **Component Overview** page.	F38674

Table 69: Resolved Issues

Note	Tracking ID(s)
Previously, when you were using a Risk Matrix other than Default or Standard Practice Risk Matrix, the categories defined in the MI_RISK_CATEGORY System Code Table had to be capitalized to correctly map RBI risk values. This issue has been resolved. Now, the values do not have to be capitalized.	DE103968
Previously, if the Asset Hierarchy was configured to use the Equipment Has Equipment relationship, the Asset Hierarchy navigation links could not differentiate between a parent Equipment and a child Equipment. This issue has been resolved.	DE103536
Previously, in an RBI Consequence Evaluation, in the **Design Details** section, the Consequence field was not translated. This issue has been resolved. Now, the Consequence field is populated by the MI_CONSEQUENCE_TYPES System Code Table, which is translated to the appropriate culture setting.	DE94112
Previously, when you attempted to select an RBI Component from the **Asset Details** page, an error occurred. This issue has been resolved.	DE90981
Previously, in an RBI Component or RBI Analysis, in the **Design Details** section, the Stress Lookup Table field was not translated. This issue has been resolved. Now, the Stress Lookup Table field is populated by the MI_STRESS_LOOKUP_TABLE System Code Table, which is translated to the appropriate culture setting.	DE90270
Previously, in an Oracle database, when you calculated multiple assets in bulk that had more than 500 collective analyses, a timeout error occurred. This issue has been resolved.	DE88531

Note	Tracking ID(s)
Previously, the allowable stress and flow stress values for a Pressure Vessel component were populated incorrectly if you used the following combination of values: • Stress Lookup Table: Pressure Vessels • Base Material Construction Code: ASME VIII DIV 1 • Base Material Code Year: 2010 • Base Material Spec: SA-387 • Base Material Grade: Class 1 or Class 2 (for example, 11-CL2) This issue has been resolved.	DE87370
Previously, if a component had an analysis in the Approved state and, in the same component, you changed the status of another analysis to make it active, the previously active analysis was not moved to the Archived state automatically. This issue has been resolved.	DE92905
Previously, if your culture setting had a culture other than English, and you accessed the **Risk Based Inspection Overview** page, the following elements were not translated to the language based on your culture setting: • Names of the widgets • Column names in the widgets This issue has been resolved.	US310483

Risk Based Inspection (RBI) 580

Version: 4.3.0.7.0
Table 70: Enhancements and New Features

Note	Tracking ID(s)
You can now configure the calculation of RBI Criticality Analysis as per your requirement without modifying the baseline rules. You can configure the calculation in one or more of the following steps:	F38674

- During analysis validation.
- During validation and calculation of consequence evaluation (CE).
- During validation and calculation of degradation mechanism evaluation (DME).
- During roll-up of CoF values to Degradation Mechanism (DM) records.
- During roll-up of PoF values to Analysis.

To facilitate this enhancement, following changes have been made:

- The **RBI 580 Flexible Calculation Preferences** workspace has been added in RBI Application Settings to configure the flexible calculation, validation, and output preferences.
- The **RBI Overview Preferences** workspace has been added in RBI Application Settings to configure the **RBI Component Overview**, **Corrosion Loop Overview**, **Asset Overview**, and **Process Unit Overview** pages.
- The **RBI Overview What-If Display Preference** option has been added to **RBI Overview Preferences** workspace to enable the display of most recent What-If analysis risk on each component in the Asset and Corrosion Loop overview tables.
- The **None** option has been added to the **RBI Overview Graph Preference** drop-down list box to disable the display of any type of graphs.
- The following families have been renamed:

Old Name	New Name
RBI Custom DM Evaluation Configuration	RBI Flexible Calculation Configuration
RBI Custom DM Evaluation Configuration Details	RBI Flexible Calculation Configuration Details
RBI Custom DM Validation Configuration	RBI Flexible Calculation Validation
RBI Custom DM Validation Configuration Details	RBI Flexible Calculation Validation Details

- Two new fields, Action and Policy Link, have been added to the following families:
  ◦ RBI Flexible Calculation Configuration
  ◦ RBI Flexible Calculation Validation
- The Degradation Mechanism Evaluation Methodology field has been renamed Action Family in the following families:
  ◦ RBI Flexible Calculation Configuration
  ◦ RBI Flexible Calculation Validation
- The following fields have been added to the RBI Consequence Evaluation family:
  ◦ Flexible Calculation Used
  ◦ Flexible Calculation Policies Used
- The following queries have been modified to add the Action field and remove the Analysis Family field:
  ◦ RBI Flexible Configurations
  ◦ RBI Flexible Validation Records

- The following System Code Tables have been added:
  ◦ MI_CONF_CALC_ACTIONS: Lists the flexible calculation actions.
  ◦ MI_CONF_VAL_ACTIONS: Lists the flexible validation actions.

Version: 4.3.0.7.0

Table 71: Resolved Issues

Note	Tracking ID(s)
Previously, when you calculated an RBI Criticality Analysis for a Heat Exchanger Bundle component, the following incorrect validations were performed: • The values in the Operating Pressure and Operating Temperature fields that were mapped from the shell side values on the RBI component were compared with the values in the Design Pressure and Design Temperature fields, respectively, which were mapped from the channel side values from the component. • The values in the Tube Operating Press Channel and Tube Operating Temp Channel fields were not compared with the design values. These issues have been resolved. Now, the following validations are performed: • The values in the Operating Pressure and Operating Temperature fields that are mapped to the shell side values on the RBI Component are not compared with the design values. • The values in the Tube Operating Press Channel and Tube Operating Temp Channel fields are compared with the values in the Design Pressure and Design Temperature fields, respectively.	DE94278
Previously, in an RBI Consequence Evaluation, the Consequence field was not translated. This issue has been resolved. The Consequence field now displays the system code description of the MI_CONSEQUENCE_TYPES system code table and is translated to the appropriate culture setting.	DE94112
Previously, in an RBI Component or RBI analysis, the Stress Lookup Table field was not translated. This issue has been resolved. Now, the Stress Lookup Table is populated with the MI_STRESS_LOOKUP_TABLE system code table description, which is translated to the appropriate culture setting.	DE90270
Previously, the information on the valid values for the Selected Corrosion Rate field was incorrect in the Data Loaders section of the Risk Based Inspection (RBI) 580 user documentation. This issue has been resolved.	DE98980

Risk Based Inspection (RBI) 581

Version: 4.3.0.7.0

Table 72: Enhancements and New Features

Note	Tracking ID(s)
The following RBI 581 DM calculations are no longer dependent on the R Server: • 581-Amine Corrosion • 581-Acid Sour Water Corrosion • 581-Alkaline Sour Water Corrosion • 581-Atmospheric Tank Bottom Corrosion • 581-Austenitic Component Cracking Under Insulation • 581-Cooling Water Corrosion • 581-High Temperature H2/H2S Corrosion • 581-High Temperature Oxidation • 581-High Temperature Sulfidic and Naphthenic Acid Corrosion • 581-Hydrochloric Acid Corrosion • 581-Hydrofluoric Acid Corrosion • 581-Piping Mechanical Fatigue • 581-Soil Side Corrosion • 581-Sulfuric Acid Corrosion The following policies have been modified, and R Server scripts have been removed: • RBI 581 Acid Sour Corrosion Rate • RBI 581 Alkaline Sour Water Corrosion Rate • RBI 581 AST Bottom Corrosion Rate • RBI 581 Calculate Susceptibility - Austenitic CUI • RBI 581 Cooling Water Corrosion Rate Estimation • RBI 581 Soil Side Corrosion Rate Calculation	• US304830 • US309020

Table 73: Resolved Issues

Note	Tracking ID(s)
Previously, the fluid type of the following representative fluids was incorrectly marked as Reactive instead of Flammable: • DEE • EG This issue has been resolved. Now, the fluid type of these fluids is marked as Flammable.	DE101410
Previously, in an RBI 581 Risk Analysis, if the time specified in the RBI Date field was later than the time specified in the Plan Date field, the Target Inspection Date field was updated incorrectly when you calculated the analysis. This issue has been resolved. **Note:** This issue was applicable to both the main RBI 581 Risk Analysis and the What-if Analysis.	DE83090

Table 74: Obsolete Features

Note	Tracking ID(s)
The following R Scripts have been removed from RBI 581 policies: • Determine Acid Sour Velocity Factor • Alkaline Sour Water Adjusted Corrosion Rate • Soil Side Corrosion Rate Calculations when Coating Present is NO • Soil Side Corrosion Rate Calculations • Determine Soil Multiply factor • Final Tank Bottom Corrosion Rate • Determine Final Corrosion Soil • Austenitic CUI Calculate Susceptibility • Calculate Cooling Water Corrosion Rate • Calculate Corrosion Rate Sea Water • Calculate RSI • Calculate Velocity Adj Factor Also, the RBI 581 Calculate Environmental Severity HIC-H2S policy has been deactivated.	• US304830 • US309020

Risk Matrix

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 75: Resolved Issues

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

Description	Tracking ID
Previously, if the **Not Applicable** check box was selected for a Risk Matrix category, the overall risk would not update until the Risk Matrix was saved. This issue has been resolved.	DE89701

Root Cause Analysis

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 76: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, a new analysis type, the 5 Whys Analysis, has been added to Root Cause Analysis. Using this analysis, you can ask a series of questions to determine how an issue was reached and the root cause of that issue. To facilitate this enhancement, five Why fields and five Reason fields have been added to the baseline RCA Event Records family and appear in the Event datasheet when viewing a 5 Whys Analysis.	F42438
To enhance usability, the Event Timeline has been added to the **Analysis Summary** page. Using this timeline, you can view Failure Events and plot them by their dates and times.	F39698
To enhance usability, 5 Whys Analyses now appear in the Comprehensive Analysis Report.	• US329110 • US325806
The **RCA Administrator** page has been enhanced. A new workspace, **Event Color Setting**, has been added. In the **Event Color Setting** workspace, you can select and map specific colors to event types in the Event Timeline.	US316991
The **RCA Administrator** page has been enhanced. A new workspace, **RCA Pages Setting**, has been added. In the **RCA Pages Setting** workspace, you can select the specific diagrams and process pages that you want to appear in the RCA module.	US316744
In the **Email Settings** workspace of the **RCA Administrator** page, you can now define the source email address for a user to receive alerts for Preserve records.	US315309
To enhance usability, in the **RCA Analysis Summary** page, in the **Overview** section, if you select the **Recommendations** chart, a list of recommendations for the selected analysis appears in the grid.	US279567
To enhance security, to update, insert, or delete an RCA Recommendation record, you must now be a member of either the MI PROACT Administrator Security Group or a member of the MI PROACT Team Member Security Group for the selected analysis. **Note:** All members of RCA Security Groups can view RCA Recommendation records.	US254542

Table 77: Resolved Issues

The following issues that existed in one or more previous releases have been resolved.

Description	Tracking ID
Previously, in the **Track** workspace, if you added a Tracking Item and then navigated to the **Analysis Summary** page, the **Track Item** chart was not updated with Tracking Item that you added. This issue has been resolved.	DE103448
Previously, when viewing the Logic Tree diagram in the Comprehensive Analysis Report, the diagram appears in multiple pages. This issue has been resolved. Now, the Logic Tree diagram appears in a single page in the Comprehensive Analysis Report.	DE103237
Previously, when viewing the Logic Tree Diagram, depending on the size of your screen, the **Auto Arrange** check box overlapped other elements in the **Manage Diagram** section. This issue has been resolved. To facilitate this fix, the Auto Arrange option has been moved to the More Options (⋮) menu.	DE101794
Previously, after successfully processing data, the data loader log displayed a record count of 0. Now, the data loader log displays the correct record count.	DE100707
Previously, in a Logic Tree Diagram, you could reposition the nodes even if the **Auto Arrange** check box was selected. This issue has been resolved. Now, if the **Auto Arrange** check box is selected, the nodes in the Logic Tree cannot be repositioned.	DE100121
Previously, in the **Analysis Summary** page for an RCA Analysis that had more than two linked Recommendation records, if you selected the **Recommendations** chart, the grid that appeared below the chart only included two Recommendations records because the grid did not include a vertical scroll bar. This issue has been resolved. Now, a vertical scroll bar appears, and all linked Recommendation records appear in the grid.	DE91498

Description	Tracking ID
Previously, in an RCA Logic Tree, if you enabled the Show Logic Gates option, an OR Logic Gate appeared below each node in the Logic Tree by default. This behavior occurred even if there was only one child node below the parent node. This issue has been resolved. Now, if you enable the Show Logic Gates option when there is only one child node below a parent node, the OR Logic Gate does not appear.	DE90271
Previously, in an RCA Logic Tree, if the Show Logic Gates option was enabled, and if you added a single child Hypothesis node under either a parent Hypothesis node or a Failure Mode node, the Logic Gate incorrectly appeared between the single child and the parent nodes. This issue has been resolved. Now, if the Show Logic Gates option is enabled and you add a single child Hypothesis node under either a parent Hypothesis node or a Failure Mode node, the Logic Gate does not appear between the single child and the parent nodes.	DE90090
Previously, when viewing reports in RCA, the Logic Tree Diagram contained in the report was often disjointed and spanned multiple pages. This issue has been resolved. Now, when viewing a Logic Tree Diagram within an RCA report, the Logic Tree Diagram appears on a single page.	DE90089
Previously, if you exported a Logic Tree diagram, the exported diagram did not load properly, and you could not save the exported diagram. This issue has been resolved.	DE89932
Previously, when viewing the **Logic Tree** workspace in a browser in full-screen mode, the text from the **Auto Arrange** check box overlapped the Properties button (). This issue has been resolved.	DE89929
Previously, when viewing an RCA Analysis, if you selected the **Event Diagram** tab, the Decision node was not available in the **Palette** section, and no other nodes could be dragged from the **Palette** section. This issue has been resolved. Now, if you access the **Event Diagram** tab from an existing RCA Analysis, all nodes appear and can be dragged from the **Palette** section as expected.	DE89734
Previously, in the **Create Verification** pane, if you selected a team member in the **Assigned To** drop-down list box, that team member did not receive email notifications when the assigned task was due or overdue because the scheduled email job was not properly executed. This issue has been resolved.	US291622

Rounds Data Collection

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 78: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The performance when uploading readings and marking Routes done has been improved.	F38995
To improve usability, when you access the **Rounds Data Collection Overview** page, Routes are no longer automatically filtered based on settings in the Asset Hierarchy. Additionally, the Edit Filters button () has been removed from the **Rounds Data Collection Overview** page.	US321122
To improve user experience, when you upload a large amount of data to the GE Digital APM database, the progress of the upload is displayed as a percentage.	US320799
To ensure Route information is updated before you begin data collection for Routes that have been enabled for offline access, data is now synchronized with the GE Digital APM database both when you initially enable offline access and when you access the **Rounds Data Collection Overview** page.	US315644

Description	Tracking ID
To improve usability, the page layout of the Rounds Data Collection module now switches between portrait and landscape modes when you rotate your device, regardless of the screen resolution of the device. This enables small screen devices, which use an adjusted page layout in portrait mode, to use the standard page layout in landscape mode.	US291178
To improve usability in areas where network connectivity is intermittent, you can now force the Rounds Data Collection module to behave as if your device is offline by selecting the **Disable Network Connection** check box in the following locations: • The menu accessed by the settings button ( ) in the large screen page layout • The **Device Settings** window in the small screen page layout	US290533
The next date for a Checkpoint is now updated when you mark the Route on which it appears done.	US290514
To improve usability, in the page for a Route, in the **Route Map** pane, the Asset ID is now displayed across two lines of text to avoid truncation.	US283079
To improve usability, you can now filter Lubrication Requirements on a Route by the specific Lubricant needed.	US278464

Table 79: Resolved Issues

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

Description	Tracking ID
Previously, in the **Rounds Data Collection Overview** page, if you marked a Route done without first taking any readings, one of two issues occurred: • The Route was not removed from the **Rounds Data Collection Overview** page, the option to mark the Route done was disabled, and a Route History record was not created until you took readings for the Route and navigated away from the workspace. • The Route was removed only after an excessive length of time, and a Route History record was created, but comments were not populated. These issues have been resolved.	DE100699
Previously, while using a handheld device to collect data for a route, the following issues occurred: • If you attempted to log in to GE Digital APM installed in the device for the first time, an error message appeared, indicating that you failed to log in to GE Digital APM. This issue occurred because the encrypted password did not match the password stored for the user in the device. • If you collected the route data, and then attempted to synchronize the device with GE Digital APM, the route data failed to synchronize with the corresponding route in GE Digital APM. This issue occurred because GE Digital APM was not able to authenticate the user credentials stored in the device as the encrypted password stored in the device did not match the password stored for the user in Active Directory. These issues have been resolved. Now, in these scenarios: • You can successfully log in to the device as the device uses the same password encryption method as GE Digital APM. • You can successfully synchronize the route data stored in the device with the corresponding route in GE Digital APM as the encrypted password stored in the device matches the encrypted password stored in the GE Digital APM database instead of the password stored in Active Directory.	DE100680
Previously, if you cleared the reading for the first Checkpoint on a Route after having closed and reopened that Route, that Checkpoint was removed from the **Route Map** pane until you closed and opened the Route again. This issue has been resolved.	DE99777
Previously, if you navigated away from and back to the workspace for a Route, and then closed the workspace for the Route after marking it done, the Route History record for the Route was deleted. This issue has been resolved.	DE99181
Previously, if you deleted readings while completing a Route, some readings could be deleted unintentionally. This issue has been resolved.	DE98984
Previously, while disconnected from a network, in the workspace for a Route for which offline access was enabled, if you marked the Route done after entering a comment, and then closed the workspace, you could still access the Route from the **Rounds Data Collection Overview** page, take readings for it, and mark it done. This issue has been resolved.	DE97409
Previously, if you entered a reading value that satisfied a condition of a checkpoint other than the first condition, successor conditional checkpoints did not appear as expected. This issue has been resolved.	DE96113
Previously, on small screen devices, there was no indicator that the device was disconnected from a network. This issue has been resolved. Now, an indicator is present when the device is disconnected from a network.	DE95458

Description	Tracking ID
Previously, if creating an Operator Rounds Recommendation in offline mode failed, multiple Operator Rounds Recommendation In Error records were created after you synchronized the Route. This issue has been resolved. Now, only one Operator Rounds Recommendation In Error record is created.	DE94304
Previously, deleted Recommendations reappeared in the **Recommendations** pane in a Route if you created a new Recommendation without first refreshing or closing and reopening the **Rounds Data Collection Overview** page. If you then saved a deleted recommendation in the **Recommendations** pane, it also reappeared in the **Recommendations** section in the **Rounds Data Collection Overview** page. These issues have been resolved.	DE94281
Previously, if you marked a Route done in the **Rounds Data Collection Overview** page while the workspace for that Route was open, when you navigated back to the workspace for that Route, the Route reappeared in the **Due Items** or **Overdue Items** section in the **Rounds Data Collection Overview** page. This issue has been resolved.	DE92165
Previously, while disconnected from a network, if you took readings on multiple devices for Routes with large numbers of readings, and then attempted to simultaneously upload the data to the GE Digital APM database on those devices after reconnecting to a network, an error occurred. This issue has been resolved.	DE91520
Previously, when you collected data offline for all checkpoints on a Route and then closed the Route without marking the Route done, the progress bar in the **Rounds Data Collection Overview** page erroneously displayed a value less than 100%. Additionally, if you then marked the Route done, the **Route History** section in the workspace for the Route in the Rounds Designer module displayed a value that was one fewer than the actual number of readings taken. This issue has been resolved.	DE90935
Previously, in the **Device Settings** window, if you set the device settings by selecting the **Use Default Settings** check box, and then signed out of and back in to the GE Digital APM mobile application, the **Use Default Settings** check box did not remain selected, and the device settings were reverted to their previous state. This issue has been resolved. Additionally, in the Rounds Designer module, if an administrator sets the default device settings, the settings will take effect only after you have signed out of and back in to the GE Digital APM mobile application.	DE89212
Previously, when you marked a Route done while offline and then went online, the Route disappeared from the device, as expected, and readings were uploaded to the server; however, if you went back offline before the sync interval was met, the device storage was not updated, and the Route appeared in the **Due** section despite not being due. This issue has been resolved.	DE89050
Previously, if you changed the GE Digital APM password for a user, and that user then performed a sync operation on a Windows Mobile device, the user was unable to sign in to the GE Digital APM mobile application on a Windows Mobile device with the new GE Digital APM password. This issue has been resolved.	DE88896
Previously, when you collected data for all Checkpoints on a Route and then closed the workspace for the Route without marking the Route done, the Route's progress bar in the **Rounds Data Collection Overview** page was not at 100%. Additionally, if you marked the Route done, the **Route History** section in the workspace for the Route in the Rounds Designer module was incorrect. This issue has been resolved.	DE88747
Previously, on a small screen device, the percentage of the Route that was complete did not appear above the progress bar in the **Rounds Data Collection Overview** page when you were online. This issue has been resolved.	DE88164

Description	Tracking ID
Previously, relevant geolocation data was not saved when you provided readings or recommendations, even if geolocation services were enabled. This issue has been resolved.	DE87574
Previously, on a mobile device, after you cleared Route data from local storage, Routes stored on your device resynchronized with the server, but, once the data was cleared, there was no indication that Routes were still synchronizing. As a result, if you went offline while the Routes were still synchronizing, you were unable to access any Routes that were not finished synchronizing. This issue has been resolved. Now, while Routes are synchronizing with the server, a spinner appears next to the Route names in the **Due Items** or **Overdue Items** section of the **Rounds Data Collection Overview** page, indicating that synchronization is in progress.	DE87172
Previously, a child conditional Checkpoint with a parent conditional Checkpoint appeared in the **Route Map** pane even if the necessary condition for the child conditional Checkpoint to appear was not satisfied. This issue has been resolved.	DE86998
Previously, in the **Rounds Data Collection Overview** page, if you were disconnected from a network, Routes for which offline access was enabled did not appear when they became due. This issue has been resolved.	DE86306
Previously, on small screen devices, in the **Rounds Data Collection Overview** page, in the **Assigned Routes** section, you could not view the full contents of the **Route ID** column. This issue has been resolved. Now, the **Route ID** column has been lengthened, and you can scroll horizontally to view its full contents.	DE85257

Rounds Designer

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 80: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve user experience, in the **Rounds Designer Overview** page, in the **Allowable Values** section, you can no longer delete allowable values.	US325981
To improve user experience, when you upload a large amount of data to the GE Digital APM database, the progress of the upload is displayed as a percentage.	US320799
To improve stability, the Rounds Designer module now detects and attempts to resolve issues related to mismatched Checkpoints on a Route, as well as provides details on such Checkpoints to enable further action as needed.	US315644

Description	Tracking ID
To enable more efficient navigation of health indicator sources, the **Status** and **Do not automatically create health indicator** columns have been removed from the **Health Indicator Source Management** workspace in the **AHM Admin** page. These two columns have been replaced by one new column, **Included**, which displays a check mark when a health indicator source is used to create health indicators and which appears empty when a source is not used to create health indicators. To facilitate this enhancement, a new field, Include as Health Indicator Source Field, has been added to the Health Indicator Mapping family. In addition, a new field, Include as Health Indicator Source, has replaced the Do Not Automatically Create Health Indicator field in the following families: • Checkpoint • Checkpoint Template • Measurement Location • Measurement Location Template	• US305616 • US305290
To improve the performance of uploading readings, the following fields have been removed from the ID Template in the Reading family: • Reading Value Character • Reading Value Numeric	US295428

Table 81: Resolved Issues

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

Description	Tracking ID
Previously, in the workspace for a Route, if you repeatedly navigated between the **Values** and **Route History** sections, an error occurred. This issue has been resolved.	DE102022
Previously, if you added a Lubrication Requirement to a Route and then added a Checkpoint Template, the workspace for the Lubrication Requirement appeared, as opposed to the workspace for the Checkpoint Template. This issue has been resolved.	DE98780
Previously, when loading records using the Route data loader, if you did not provide a specific load sequence for the Route records, when you imported records containing multiple conditional Checkpoints, and then opened the Route containing those conditional Checkpoints, the conditional Checkpoints did not appear in the same order in which they appeared in the data loader. This issue has been resolved. Now, conditional Checkpoints for which a load sequence has not been provided appear in a Route in the same order in which they appear in the data loader, as expected.	DE97625
Previously, in the Rounds Readings data loader workbook, if you entered a numeric value in the **Reading Value Character** column and then completed a data load, a null value was loaded to the Rounds Reading record. If you tried to correct this value by reloading the workbook with the numeric value in the correct column, the value was not updated. This issue has been resolved.	DE94293
Previously, when you attempted to import a Checkpoint with a related asset whose assigned site was Global via a Rounds Data Loader, an error occurred. This issue has been resolved.	DE94130

Description	Tracking ID
Previously, if you deleted a checkpoint that contained a successor conditional checkpoint, and then attempted to add the successor conditional checkpoint to a Route by selecting the Add button ( ), the conditional checkpoint did not appear in the **Existing ML / LR** window. This issue has been resolved.	DE93915
Previously, when you imported a Lubrication Requirement template, an error occurred. This issue has been resolved.	DE93007
Previously, in the workspace for a Route, if you selected a conditional Checkpoint in the pane and then attempted to add a new Checkpoint using a template, an error occurred. This issue has been resolved.	DE91821
Previously, when you attempted to apply a Template Group to a Route, if the site assigned to the Template Group differed from the site assigned to a Template within the Template Group, the page did not load. This issue has been resolved. Now, you can add a Template to a Template Group only if one of the following statements is true: • The same site is assigned to both the Template and the Template Group. • The site assigned to the Template is Global. For information on identifying already-created Template Groups that would cause the issue, refer to KBA 6583.	DE89348
Previously, if you added a Checkpoint to a Route and selected the associated Checkpoint node before saving the new Checkpoint, the page entered an indefinite loading state. This issue has been resolved.	DE85706
Previously, in the **Rounds Designer Overview** page, in the **Allowable Values** section, if you modified the name of a category and selected **Save**, an error occurred. This issue has been resolved. Now, you can no longer modify the name or allowable values of a category.	DE83485

R Scripts

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 82: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The R Scripts module now supports Machine Learning Server 9.2.1 in addition to R Server 8.0.0. To facilitate this enhancement, in the **Connections** page, the **R Server Version** drop-down list box has been added to enable you to select the version of your R Server.	US283973

Version: 4.3.0.6.6

Table 83: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The R Scripts module now supports Machine Learning Server 9.2.1 in addition to R Server 8.0.0. To facilitate this enhancement, in the **Connections** page, the **R Server Version** drop-down list box has been added to enable you to select the version of your R Server.	US314350

SAP and SAP PI UDLP V2.6.0

This topic provides a list of product changes released for this module on the dates listed below.

SAP and SAP PI - V4.3.0.7.0

Table 84: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The SAP Adapter now provides a Planned Work Adapter that enables you to plan maintenance work for assets.	US318099

Table 85: Resolved Issues

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

Description	Tracking ID
Previously, when using the Work Management adapter, after a confirmation record was created for an inspection, the Work Order Number field was not cleared from the Inspection record. Now, the Work Order Number field is cleared correctly.	DE105082
Previously, the SAP PI adapter incorrectly populated the Last Date and Next Date fields when the adapter created a Work Order record. Now, the SAP PI adapter no longer populates these fields.	DE102158
Previously, the documentation did not provide sufficient information about the ABAP package required to support migrating from V3.6 to V4.3 of GE Digital APM. Now the documentation correctly identifies the V3.6 ABAP package as 0.7, 360_600 Level 10.	DE101136
Previously, Work History records associated with Technical Objects displayed incorrect Site data. Now, the Site data displays correctly.	• DE100582 • DE100583
When you attempted to save an updated Inspection record, the record failed to save and the following error message was displayed: `Failed to save entity: "RFC_GET_STRUCTURE_DEFINITION"`	DE90036

Schedule Logs

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 86: Enhancements and New Features

Description	Tracking ID
In the **Description** column of the **Schedule Logs** page, you can now view the ID of a scheduled Strategy Macro.	US290782

Search

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 87: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Now, when you perform a global search, the records belonging to the Equipment and Functional Location families appear at the top in the search results.	US313364

Table 88: Resolved Issues

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

Description	Tracking ID
Previously, when you logged in to GE Digital APM as a Polish user and performed an advanced search on a family, the IDs that appeared in the Record ID column did not contain links. This issue has been resolved.	DE85104

Security Manager

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 89: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **Roles** page, the following Policy Security Groups have been added and assigned to the corresponding Foundation Security Roles. When the Policy Security Groups are associated with the corresponding Foundation Security Roles, the Security Users assigned to the Security Roles are granted all the privileges that have been granted to the Policy Security Groups. | Policy Security Group	Foundation Security Role
MI Policy Administrators	MI Foundation Admin
MI Policy Designer	MI Foundation Power
MI Policy User	MI Foundation User		US313359
You can now configure a default site, default culture setting, and default UOM conversion set for Security Users. To facilitate this functionality, the following drop-down list boxes have been added in the **User Defaults** page: • Default Site • Default Culture • Default UOM Conversion Set	US284289

Table 90: Resolved Issues

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

Description	Tracking ID
Previously, while using GE Digital APM with an Oracle database, you could create multiple Security Users with the same User ID if the letter case of the User ID was unique for each Security User record. Now, irrespective of the letter case, you can associate a User ID with only one Security User.	DE50675
Previously, in the **Security Users** page, when you searched for a user whose first name, last name, or user name included foreign language characters such as Russian, Chinese, or Spanish characters, the search results did not display any related information. This issue has been resolved.	DE91164
Previously, during an LDAP synchronization, if the PwdLastSet field was not present in a user record in Microsoft Active Directory, the user record was not synchronized with its corresponding record in GE Digital APM. This issue has been resolved. Now, if the PwdLastSet field is not present in a user record in Microsoft Active Directory: • The number of days after which the system password expires for the user is automatically set to 9999 days. • The user record is synchronized with its corresponding record in GE Digital APM.	DE94809
Previously, in the **Roles** page, when you attempted to remove a Security User assigned to a Security Role, an incorrect message appeared. This issue has been resolved.	DE98064

Single Sign-On

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 91: Resolved Issues

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

Description	Tracking ID
Previously, if SSO was configured for GE Digital APM, and you attempted to access a page using the corresponding GE Digital APM URL that is generated by the Hyperlink Utility tool, the GE Digital APM login page appeared instead of the SSO login page. This issue has been resolved.	DE92791

SIS Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: V4.3.0.7.0

Table 92: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The SIS Management module now uses the latest database version of the Exida Safety Equipment Reliability Handbook (SERH): version 2017.4.01.	US299935

Table 93: Resolved Issues

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

Description	Tracking ID
Previously, if you created a Protective Instrument Loop record, and immediately tried to modify the record, an error message appeared. This issue has been resolved.	DE89049
Previously, when you accessed GE Digital APM on a mobile device, and then attempted to download a Proof Test Task, a blank window appeared. This issue has been resolved. Now, in this scenario, the **Assign Template for Download** window appears, and the template for Offline Proof Test Task is downloaded successfully.	DE89021

State Management

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 94: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
In the **State Assignments** window, the following enhancements have been made: • In the **Assignee** column, the User ID for each Security User is displayed along with the first name and last name of the Security User. • You can now search for a Security User using the first name, last name, or User ID of the Security User to assign the user to a state.	US287182

System Requirements

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 95: Resolved Issues

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

Description	Tracking ID
Previously, while accessing the help content for the system requirements of SQL Server Analysis Services, the following issues were found in the **Software Requirements** section: • The software name was incorrect. • No information was available for the support of SQL Server Analysis Services 2016. These issues have been resolved.	DE101559

Teams

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 96: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
While assigning teams to a shift or a route, you can now access the details of a team in the **Teams** page and perform various operations, such as creating, modifying, or deleting a team. To facilitate this enhancement, a hyperlink has been added to the following windows for each team: • Assign to Team Members • Add Teams to Shift **Note:** This enhancement is applicable only to the Rounds and eLog modules.	US285276

Table 97: Resolved Issues

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

Description	Tracking ID
Previously, in the **eLog Administrator** page, the following issues occurred: • You could not access the details of the teams that were assigned to a shift. • While assigning teams to a shift in the **Add Teams to Shift** window, you could not remove a team from the list of added teams. These issues have been resolved.	DE92405

Thickness Monitoring

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 98: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Thickness Monitoring now supports TML Groups with linked child TML Groups. You can configure this feature in the TM Family Preferences.	US312372
The time required to load the **Analysis Overview** page for an asset has been reduced.	US312357
The Thickness Monitoring (TM) Equipment and Thickness Monitoring (TM) Functional Location Data Loaders have been enhanced to skip any blank cells when you create or update records using the data loaders.	US300470

Description	Tracking ID
To enhance the data loading process for large amounts of data and to prevent the failure of data load batches that take longer than five minutes, the Thickness Measurement (TM) Equipment data loader and the Thickness Measurement (TM) Functional Location data loader have been enhanced. To facilitate this enhancement and to prevent timeouts, the TM Equipment Data Loader and the TM Functional Location Data loader now split large amounts of data into the following transaction scopes: • Asset Level Data • TML Groups in 100-count batches • Thickness Measurement Locations in 100-count batches • Measurements in 250-count batches In addition to these default values, you can modify these transaction scopes if required.	US309806, DE98795
To prevent failure of TML batches that took longer than five minutes, the TML renewal functionality has been enhanced to perform the renewal job through a scheduler. Performing the job through a scheduler provides the following advantages: • You can renew a large number of TMLs without any timeout errors. • You can view the progress of the job in the **Renew TMLs** window. • You can close the **Renew TMLs** window without cancelling the job. • You can view the current and past job details from the scheduler.	US310307
To prevent failure of TML batches that took longer than five minutes, the TML nominal measurement creation functionality has been enhanced to perform the renewal job through a scheduler. Performing the job through a scheduler provides the following advantages: • You can create the nominal measurement for large number of TML records without any timeout error. • You can view the progress of the job in the **Nominal Measurements** window. • You can close the **Nominal Measurements** window without cancelling the job. • You can view the current and past job details from the scheduler.	US312370

Table 99: Resolved Issues

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

Description	Tracking ID
Previously, if the Asset Hierarchy was configured to use the Equipment Has Equipment relationship, the Asset Hierarchy navigation links could not differentiate between a parent Equipment and a child Equipment. This issue has been resolved.	DE103536
Previously, when you attempted to send TML data to a DMS Go, DMS Go+, and DMS2 datalogger devices, the data was not sent to the device if the logged in user culture was set to any culture other than English (United States). This issue has been resolved.	DE94734
Previously, in the **Receive From** section, if you received readings from the datalogger and then navigated away from the **Receive From** section, the readings were not retained. This issue has been resolved.	DE94438

Description	Tracking ID
Previously, if the number format of the user account that is used to run the Meridium Device Service is different from the number format of the English (United States) culture, when you received thickness measurement data from a TM Datalogger, the measurement values were incorrect. This issue has been resolved.	DE92138
Previously, the allowable stress value for a Pressure Vessel component was populated incorrectly if you used the following combination of values:: • Stress Lookup Table: Pressure Vessels • Base Material Construction Code: ASME VIII DIV 1 • Base Material Code Year: 2010 • Base Material Spec: SA-387 • Base Material Grade: Class 1 or Class 2 (for example, 11-CL2) This issue has been resolved.	DE87370

Units of Measure and Conversions

This topic provides a list of product changes released for this module on the dates listed below.

Version: 4.3.0.7.0

Table 100: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
A new destination Unit of Measure (UOM), Years (YR), has been added to the Months (MO) UOM to specify a conversion of time from months to years.	DE84965

APM Classic Deferred Features

This topic provides a list of features that were available in APM Classic V3.X but that are not yet available in the current version.

Version: 4.3.0.7.0

Table 101: Asset Health Manager

Note	Tracking ID(s)
Asset Hierarchy sorting and filtering based on health indicator status.	TFS86430

Table 102: Calibration Management

Note	Tracking ID(s)
Automated Calibration using Beamex and Meriam documenting process calibrators. **Note:** Automated calibration using Beamex documenting process calibrators, Beamex MC5 and Beamex MC6, is supported using Beamex Business Bridge (B3) Version 1 (1.2.0) software for Beamex CMX Calibration software.	• TFS61334 • TFS61319

Table 103: Configuration Manager

Note	Tracking ID(s)
Global number and date format.	TFS160148
Global Preferences- Background Colors.	TFS65297

Table 104: Generation Availability Analysis

Note	Tracking ID(s)
The following fields and related functionality form the Performance record: **Tab** / **Fields** **Unit Identification** • Capacity History Statistics Type • Zone • Refresh Incident Rollup **Unit Generation Performance** • Demonstrated Max Capacity (G) • Demonstrated Max Capacity (N) • Override Reserve Shutdown Hours • Sum of fuel BTUs • Heat Rate **Unit Starting Characteristics** • YTD attempted unit starts • YTD actual unit starts • YTD start reliability **Unit Primary Fuel Information** • EIA Fuel Reporting • Primary Quantity Burned Unit of Measure • Primary Fuel BTUs - Contract • Primary Fuel BTUs - Electrical Generation • Primary Fuel BTUs - Plant Heating and Cooling • Primary Fuel BTUs - Process Steam • Primary Fuel BTUs - Total **Unit Secondary Fuel Information** • EIA Fuel Reporting • Secondary Quantity Burned Unit of Measure • Secondary Fuel BTUs - Contract • Secondary Fuel BTUs - Electrical Generation • Secondary Fuel BTUs - Plant Heating and Cooling • Secondary Fuel BTUs - Process Steam • Secondary Fuel BTUs - Total	• TFS234410 • TFS234310
The following fields and related functionality from the GAA Plant and GAA Unit record: **Datasheet** / **Fields** **GAA Plant** • Date/Time Alternate Format • GADS Region • GADS Subregion **GAA Unit** • Demonstrated Maximum Gross Capacity • Demonstrated Maximum Net Capacity • Summer Net Capacity • Winter Net Capacity	TFS229627

Note	Tracking ID(s)
The following families in GAA: • Generation Forecast • Generation Fuel Annual Report • Generation Fuel Monthly Report • Generation Fuel Report • Generation Nameplate • Generation Nameplate Combined Cycle • Generation Nameplate Diesel • Generation Nameplate Fluidized Bed • Generation Nameplate Fossil Steam • Generation Nameplate Gas Turbine • Generation Nameplate Hydro • Generation Nameplate Miscellaneous • Generation Nameplate Nuclear • Generation Role • Generation Role Assignment • Generation Role Definition • Generation Role Field Configuration • Generation Unit Loading Profile • Generation Unit Starting Profile	• TFS184663 • TFS184661 • TFS184660 • TFS184659 • TFS184657 • TFS184656 • TFS184655 • TFS184653 • TFS184652 • TFS184646
The following Security Groups in GAA: • MI Generation Management Forecast • MI Generation Management Nameplate • MI Generation Management Security	• TFS184663 • TFS184661 • TFS184660 • TFS184659 • TFS184657 • TFS184656 • TFS184653 • TFS184652 • TFS184646

Table 105: GE Analytics

Note	Tracking ID(s)
KPIs for GE Analytics.	TFS162791

Table 106: Graphs

Note	Tracking ID(s)
Exporting to a PDF and printing graphs.	TFS81015

Table 107: Metrics and Scorecards

Note	Tracking ID(s)
Export/Import of KPI Schedules	TFS173886
GM (Generation Management) cube is deferred from V4.0.0.0. Any previously deployed GM (Generation Management) cube, which worked in V3.6 and earlier releases, will continue to work in V4.0.0.0 after upgrading the product. You will be able to use the existing GM cube and the support will continue.	TFS160446
Selecting columns to include in a Scorecard.	TFS70641

Table 108: Reliability Analytics

Note	Tracking ID(s)
Action optimization in System Reliability Analysis.	N/A

Table 109: Risk Based Inspection

Note	Tracking ID(s)
Creating a bulk What-If analysis.	TFS73475

Table 110: Rounds

Note	Tracking ID(s)
Selecting multiple nodes in the left pane in Route Management.	TFS173671
Ad hoc inspection of a single asset.	TFS160740
Offline access to the five most recent Recommendations in Rounds.	TFS153853
Support for Bluetooth-connected barcode scanners.	TFS124935
Unlinking a Measurement Location from a Measurement Location Template.	TFS61751
Accessing a list of recent Routes.	TFS61638

Table 111: Systems and Tags

Note	Tracking ID(s)
Viewing trends for multiple OPC Tags simultaneously (i.e., the Process Data Viewer feature in V3).	TFS62299

Table 112: Thickness Monitoring

Note	Tracking ID(s)
Corroded Area Measurements.	TFS101752
Dataset integration with dataloggers.	TFS83553
Exporting data to Excel via the TM Dataloggers interface.	N/A

V4.3.0.7.X Patch Release Notes

V4.3.0.7.25

This topic provides a list of product changes included in this patch.

APM Mobile Application

Table 337: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance security, if SSO is enabled, when you log out of the GE Digital APM mobile application, you are logged out of the third-party identity provider (IDP) application as well. Therefore, when you attempt to access the GE Digital APM mobile application the next time, you are first redirected to the IDP login page where you must enter your SSO credentials again to log in. To configure Single Sign-Out, refer to KBA 000039824.	US544189

Asset Strategy Implementation

Table 338: Resolved Issues

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

Description	Tracking ID
Previously, when you deleted an operation associated with an ASI maintenance package and the package was implemented, an error occurred. This issue has been resolved.	DE180441

SIS Management

Table 339: Resolved Issues

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

Description	Tracking ID
Previously, in a LOPA Assessment, if you attempted to change the value in the **Spurious Trip Limit (per yr)** box, after saving the record, the value was reverted to the default value of 0.01. This issue has been resolved.	DE179660

V4.3.0.7.24

This topic provides a list of product changes included in this patch.

APM Connect

Table 340: Resolved Issues

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

Description	Tracking ID
Previously, socket timeout exceptions occurred when connecting to the Postgres IR database. This issue has been resolved. The NPGSQL library has now been upgraded to remove the exceptions.	DE172262
Previously, when you attempted to run the work history job, there were performance issues, and timeout errors occurred. These issues have been resolved.	DE166063

Asset Criticality Analysis

Table 341: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to upload an ACA Analysis with more than 200 assets, the Data Loader timed out and an error occurred. This issue has been resolved.	DE171456
Previously, if you attempted to import an Asset Criticality Analysis record for an asset that did not exist in GE Digital APM, an incorrect error message appeared in the error log. This issue has been resolved. Now, an appropriate error message appears, indicating that the asset does not exist in GE Digital APM.	DE171048

Calibration Management

Table 342: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to open a Functional Test Template, an error occurred while loading the record from an Oracle data source. This issue has been resolved.	DE174093
Previously, when you created a Calibration Event record using a Calibration Template whose Detail records were in a random order, the associated Calibration Result records were sorted incorrectly. This issue has been resolved. Now, irrespective of the order of the Detail records, the Calibration Result records appear in the correct order based on the test sequence numbers.	DE169369

Family Policies

Table 343: Resolved Issues

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

Description	Tracking ID
Previously, in GE Digital APM systems that used R Server 8.0.0, when you attempted to execute R Scripts with input data frame that contained numeric or Boolean values in the first column, an error occurred. This issue has been resolved.	DE175272

Policy Designer

Table 344: Resolved Issues

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

Description	Tracking ID
Previously, in GE Digital APM systems that used R Server 8.0.0, when you attempted to execute R Scripts with input data frame that contained numeric or Boolean values in the first column, an error occurred. This issue has been resolved.	DE175272

Queries

Table 345: Resolved Issues

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

Description	Tracking ID
Previously, when you exported numeric values that contained a decimal from a German query, the number did not retain the decimal points. This issue has been resolved.	DE165416

Record Manager

Table 346: Resolved Issues

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

Description	Tracking ID
Previously, if the query associated with a Conditional Alert contained **GROUP BY** function, and you scheduled multiple Conditional Alerts, then all the alerts were not executed. This issue has been resolved.	DE175297
Previously, if you were not a Super User, and if you attempted to access an equipment record using the Equipment with Technical Characteristics Master Detail datasheet, an error occurred if no technical characteristics existed for the Equipment. This issue has been resolved.	DE167995
Previously, in a conditional alert record, if you selected the **Send Web Query Link** check box, and then scheduled the corresponding alert, the web query link in the alert message was incorrect when the alert was executed. This issue has been resolved. Now, in this scenario, the correct web query link appears, containing the GE Digital APM server and domain names.	DE165389

Reliability Analytics

Table 347: Resolved Issues

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

Description	Tracking ID
Previously, in Reliability Distribution Analysis, for an analysis that had the **I have Failures without Replacement (as good as old)** setting enabled, the value for the mean of TTF Distribution was labelled incorrectly as **MTBF** in the **Analysis Summary** workspace. This issue has been resolved. Now, when this setting is enabled, the mean of TTF Distribution is labelled as **Mean**.	DE173897
Previously in Spares Analysis, after you created a Spare Application and added Spare data, and then if you changed the **Application Name**, the entire Spare data was deleted. This issue has been resolved.	DE169545

Root Cause Analysis

Table 348: Resolved Issues

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

Description	Tracking ID
Previously, in RCA Verifications, when you entered more than 150 characters in the **Method** field, an error occurred, and the value was not updated. This issue has been resolved.	DE173569
Previously, when you viewed the Logic Tree diagram for an RCA in full-screen mode, with collapsed module navigation menu, and then if you switched back to the standard view, the Logic Tree diagram overlapped the other elements in the module navigation menu. This issue has been resolved.	DE172889
Previously, in an RCA recommendation, when you enabled the **State** to **Status** mappings, and completed the Recommendation from the **Recommendation Panel**, the **Implementation Date** and **Status field** values were not updated. This issue has been resolved.	DE153294

Security Manager

Table 349: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to perform LDAP synchronization, you were by default assigned to English (United States) culture. This issue has been resolved. Now, you are assigned to the default culture that is configured on the **User Defaults** page.	US518994
Previously, when you attempted to perform LDAP synchronization, if you unlinked an existing LDAP user from one LDAP domain, and linked the same user to another LDAP domain, then the user properties were not updated. This issue has been resolved.	US516648

SIS Management

Table 350: Resolved Issues

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

Description	Tracking ID
Previously, if the Hazards Analysis license was not active in GE Digital APM, when you attempted to add a team member to the team associated with a Safety Integrity Level (SIL) Analysis, an error occurred. This issue has been resolved.	DE170002
Previously, when you attempted to modify a Final Element associated with a Protective Instrument Loop, and you selected the `Remote Actuated Valve` value in the **Final Element** field in the **Element Details** page, the more options button (•••) in the **Actuator** field did not function as expected. This issue has been resolved.	DE169998
Previously, in SIS Management Protective Instrument Loop, the calculated results were not updated in the Sensor Group and the Final Element Group. This issue has been resolved.	DE169997

V4.3.0.7.23

This topic provides a list of product changes included in this patch.

APM Connect

Table 351: Resolved Issues

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

Description	Tracking ID
Previously, when the Work History Data Loader processed work history records in the GE Digital APM, the work history job failed due to multiple errors. This issue has been resolved.	DE162816

Asset Strategy Optimization

Table 352: Resolved Issues

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

Description	Tracking ID
Previously, in a Risk associated with a Scenario, if you modified the unit of time specified for the Time to Failure (TTF) or Time to Repair (TTR), and then saved the Risk, the modified value was not retained. This issue has been resolved.	DE159897

Calibration Management

Table 353: Resolved Issues

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

Description	Tracking ID
Previously, when you created a Functional Test Calibration template, you were unable to add more than 25 steps. This issue has been resolved. Now, you can add additional steps by creating calibration strategies.	DE162188
Previously, the performance of the GE Digital APM slowed down when you attempted to create a manual calibration in Calibration Management. This issue has been resolved.	DE162185

Inspection Management

Table 354: Resolved Issues

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

Description	Tracking ID
Previously, in the GE Digital APM mobile application, the Finding Summary and Inspection Summary fields in the Offline Forms had a restricted character limit and the text entered beyond that limit was not saved. This issue has been resolved.	DE162987

RBI 580

Table 355: Resolved Issues

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

Description	Tracking ID
Previously, when creating a What-If Analysis, the Long Term Avg. Corr. Rate, Short Term Avg. Corr. Rate, and Controlling Corrosion Rate fields in the Criticality Calculator Internal Corrosion Degradation Mechanism were not populated with the calculated values from the Thickness Monitoring module. This issue has been resolved.	DE160829

RBI 581

Table 356: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve usability, in the **Global Preferences** workspace of the **RBI Admin Preferences** page, Enable Release type calculation as per RFI-8388 is added. When this preference is selected, the Release Type calculation for RBI 581 Consequence Evaluations does not require the release mass to be greater than 10000 for the Release Type to be Instantaneous. This preference is not selected by default.	US492962

Table 357: Resolved Issues

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

Description	Tracking ID
Previously, when calculating an RBI 581 Risk Analysis on an RBI Component with a Criticality Item Type of Storage Tank, the Financial Risk –RBI Date, Financial Risk –With Plan and Financial Risk – Without Plan fields did not consider the AST Environmental Cost. This issue has been resolved. The Financial Risk fields are now calculated using the Total Financial Consequence field in the associated RBI 581 Consequence Evaluation, which includes the AST Environmental Cost.	DE164362

Reliability Analytics

Table 358: Resolved Issues

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

Description	Tracking ID
Previously, in the Reliability Analysis charts, when you hovered over the extrapolated line, the tooltip did not provide the correct data. This issue has been resolved.	DE162602
Previously, in Spares Analysis as a non English culture user, you were unable to see spares definition time units in your preferred local language. This issue has been resolved.	DE161115
Previously, in the Analysis Summary workspace of a Reliability Growth Analysis, in the Analysis Data menu, the **Reload** option did not appear and you could not reload the data of the Reliability Growth plots. This issue has been resolved.	DE159896

Root Cause Analysis

Table 359: Resolved Issues

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

Description	Tracking ID
Previously, when you assigned a custom datasheet to the RCA Analysis family and attempted to access the **Definition** section of the RCA analysis, an error occurred. This issue has been resolved.	DE160400
Previously, in the RCA Definition Datasheet, when you modified the data, an error occurred. This issue has been resolved.	DE160399
Previously, when you generate **RCA Comprehensive Analysis** report, the report was generated without Logic Tree and Event diagrams. This issue has been resolved.	DE159900
Previously, the values displayed in the Tile count in RCA Module Overview and the Asset View home page were inconsistent. This issue has been resolved.	DE159895

Security Manager

Table 360: Resolved Issues

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

Description	Tracking ID
Previously, in case of database authentication, if you were a newly created user and you attempted to change the password, an error occurred. This issue has been resolved.	DE162015

Thickness Monitoring

Table 361: Resolved Issues

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

Description	Tracking ID
Previously, if a secured user was associated with the Metric UOM Conversion Set, when viewing the **T-Min Calculator** page for an Asset, the minimum thickness value that appeared in the Current column was incorrect. This issue has been resolved.	DE163535

V4.3.0.7.22

This topic provides a list of product changes included in this patch.

Action Management

Table 362: Resolved Issues

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

Description	Tracking ID
Previously, there were performance issues in the Strategy Actions section. This issue has been resolved. For more information, refer to KBA 000037560.	DE159639

Installation

Table 363: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID

To improve security, you can now implement user authentication for ElasticSearch using the X-Pack security.
 	
Note: Ensure that you have ElasticSearch installed. After you install ElasticSearch, you can obtain (purchase and register) and install X-Pack. You must run the version of X-Pack that matches the version of ElasticSearch you are running.
 	
1. From the ElasticSearch installation folder, navigate to the `bin` folder (for example: `<ElasticSearch_installation_folder>\bin`) and then using **Command Prompt**, run the following command:
`elasticsearch-plugin install x-pack`
 	
2. At the command prompt, you are prompted 2 times to grant additional permissions. For each prompt, enter **Yes** to confirm.
 	
3. Change the elastic password using the following command:
`curl -X PUT "localhost:9200/_xpack/security/user/ elastic/_password?pretty" -H 'Content-Type: application/json' -d '{ \"password\": \"elasticpassword\" }' --user elastic:changeme -- basic xpack.security.authc.accept_default_password`
 	
4. On the GE Digital APM server, navigate to `C:\ProgramData\Meridium`, and then modify the `MeridiumAppSettings.xml` file to add the following value:
`<add key="elasticServicePassword" value="elasticpassword" />`
	US479593

Mobile Proof Testing

Table 364: Resolved Issues

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

Description	Tracking ID
Previously, if you closed the **Proof Test** tab, values in the fields including the **Step Sequence Number** were cleared. This issue has been resolved.	DE158711

Policy Designer

Table 365: Resolved Issues

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

Description	Tracking ID
Previously, if you executed a policy where a Close Event node followed an **Or** node, and a calculation or comparison node preceding the same **Or** node was not executed due to the policy logic, an error occurred and the policy event was not closed. This issue has been resolved.	DE159541

Production Loss Analysis

Table 366: Resolved Issues

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

Description	Tracking ID
Previously, when PLA users with different culture settings created Production Plan Records, through the PLA Data Loader, it regenerated an existing plan and overwriting the previous data contained in the plan. To avoid this, the previous change has been removed. Now, adding production data to an existing Production Plan can be done without overwriting data previously uploaded for an earlier production period.	DE159726

Reliability Analytics

Table 367: Resolved Issues

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

Description	Tracking ID
Previously, in Spares Analysis, some fields of the HTML Report were not translated to the language corresponding to your language setting. This issue has been resolved.	DE158816
Previously, in Spares Analysis, an error appeared when you tried to navigate quickly between pages. This issue has been resolved.	DE157416

Rounds Designer

Table 368: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve stability, the Rounds Designer module logic that detects, resolves, and reports issues related to mismatched Checkpoints on a Route has been improved.	DE158794

System Requirements

Table 369: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Previously, when you used Google Chrome version 91 to access GE Digital APM, the navigation menus containing scroll bars appeared in the wrong location when you accessed them multiple times. This issue has been resolved.	DE160343

V4.3.0.7.21

This topic provides a list of product changes included in this patch.

Metrics and Scorecards

Table 370: Resolved Issues

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

Description	Tracking ID
Previously, when you created a new metric view and applied the slice in Metrics View designer, the dimension member was not saved, and the data did not filter correctly. This issue has been resolved.	DE155373

Record Manager

Table 371: Resolved Issues

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

Description	Tracking ID
Previously, in a record, if an expandable text box contained alphanumeric text, when you expanded the box, you could not modify the text that appeared in the **Text Editor** window. This issue has been resolved.	DE156180

Reliability Analytics

Table 372: Resolved Issues

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

Description	Tracking ID
Previously, when you logged in to GE Digital APM as a Reliability User, the reload option was not available and you could not reload data from the chart pages for analyses based on a query or dataset. This issue has been resolved.	DE155217

Risk Based Inspection

Table 373: Resolved Issues

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

Description	Tracking ID
Previously, the RBI Corrosion Loop table in the **Unit Summary** workspace took a long time to load. This issue has been resolved. Now, performance improvements have been made to reduce the time to load the table.	DE155388

Risk Based Inspection (RBI) 581

Table 374: Resolved Issues

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

Description	Tracking ID
Previously, when calculating an RBI 581 Risk Analysis with a toxic mixture, if one of the following values was selected in the Toxic Model field, the Weighted Toxic Consequence Area field on the related RBI 581 Consequence Evaluation was calculated incorrectly using release mass: • ALCL3 • CO • EE • EO • HCl • Nitric Acid • NO2 • Phosgene • Propylene Oxide • TDI This issue has been resolved. Now, in this scenario, the Weighted Toxic Consequence Area field considers the release rate. For more information, refer to KBA 000037566.	DE155379

Thickness Monitoring

Table 375: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To enhance usability, the Thickness Measurement Location (TML) records that are sent to the Thickness Monitoring Dataloggers are now sorted by the value of the Inspection Sequence Number field. If no value is specified in the Inspection Sequence Number field, the TML records are sorted by TML IDs.	DE156294

V4.3.0.7.20

This topic provides a list of product changes included in this patch.

Asset Criticality Analysis

Table 376: Resolved Issues

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

Description	Tracking ID
Previously, when you accessed GE Digital APM using a Chrome browser, there was a performance issue while saving records through the datasheet. This issue has been resolved.	DE152558

Asset Strategy Implementation

Table 377: Resolved Issues

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

Description	Tracking ID
Previously, when you accessed GE Digital APM using a Chrome browser, there was a performance issue while saving records through the datasheet. This issue has been resolved.	DE152558

Asset Strategy Management

Table 378: Resolved Issues

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

Description	Tracking ID
Previously, when you accessed GE Digital APM using a Chrome browser, there was a performance issue while saving records through the datasheet. This issue has been resolved.	DE152558

Calibration Management

Table 379: Resolved Issues

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

Description	Tracking ID
Previously, when you select a value for the **Cylinder ID** field, the **Laboratory Number** field was not populated in the Multi-Component Identification datasheet. This issue has been resolved.	DE154266

Failure Modes and Effects Analysis

Table 380: Resolved Issues

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

Description	Tracking ID
Previously, when loading data though dataloader, financial details were not updated as per the dataloader worksheet. This issue has been resolved.	DE152675
Previously, when you accessed GE Digital APM using a Chrome browser, there was a performance issue while saving records through the datasheet. This issue has been resolved.	DE152558

Inspection Management

Table 381: Resolved Issues

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

Description	Tracking ID
Previously, if you logged in as a non-English user and managed the defined scope for an inspection task, the profile categories that were displayed were not translated properly. This issue has been resolved.	DE154386

Manage Translations

Table 382: Resolved Issues

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

Description	Tracking ID
Previously, if a graph, report, or dashboard contained in the GE Digital APM database was corrupted, when you attempted to export the untranslated metadata strings to a Microsoft Excel file, an error occurred. This issue has been resolved. Now, you can export the untranslated metadata strings successfully even if there is an error with the graph, report, or the dashboard.	DE153504

Policy Designer

Table 383: Resolved Issues

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

Description	Tracking ID
Previously, when you modified the language setting of the policy execution service user, the execution results and emails sent by the policies were not correctly translated. This issue has been resolved.	DE154294

Production Loss Analysis

Table 384: Resolved Issues

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

Description	Tracking ID
Previously, when PLA users with different culture settings created Production Plan Records for the same unit and start time using PLA Data Loader, you could create duplicate plans and no warning message appeared. This issue has been resolved.	DE154145

Queries

Table 385: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting was English, when you exported a query to an Excel file, the captions of the columns were blank. This issue has been resolved.	DE152902

Record Manager

Table 386: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to update a record with an external hyperlink in the **TEXT** field or saved the record with an external hyperlink, an error occurred, and the datasheet did not load. This issue has been resolved.	DE155113

Reliability Analytics

Table 387: Resolved Issues

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

Description	Tracking ID
Previously, when a Reliability Automation rule was executed on existing reliability growth records, it would create duplicate records instead of updating the existing one. This issue has been resolved.	DE153460

Reliability Centered Maintenance

Table 388: Resolved Issues

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

Description	Tracking ID
Previously, when loading data though dataloader, financial details were not updated as per the dataloader worksheet. This issue has been resolved.	DE152675
Previously, when you accessed GE Digital APM using a Chrome browser, there was a performance issue while saving records through the datasheet. This issue has been resolved.	DE152558

Root Cause Analysis

Table 389: Resolved Issues

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

Description	Tracking ID
Previously, in the **Gate Type** field of the **RCA Logic Tree** section, when you selected the **AND or OR** field, the fields were not translated based on the language setting of the user account. This issue has been resolved.	DE153295
Previously, if your language setting was not English, and you accessed the Event Timeline diagram for an analysis, the event types were not translated to the language corresponding to your language setting. This issue has been resolved.	DE151814

Rounds Data Collection

Table 390: Resolved Issues

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

Description	Tracking ID
Previously, the following issues were seen: • The **Mark Done** button on the application was not active as the application was unable to determine the online or offline status correctly. • There was loss of data in instances when the application did not store readings to the local storage. These issues have been resolved.	DE147290

State Management

Table 391: Resolved Issues

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

Description	Tracking ID
Previously, if your culture setting had a culture other than English, the **State Assignments** option was not translated to the language based on your culture setting. This issue has been resolved.	DE154715

V4.3.0.7.19

This topic provides a list of product changes included in this patch.

Asset Strategy Optimization

Table 392: Resolved Issues

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

Description	Tracking ID
Previously, if you promoted a Reliability Centered Maintenance (RCM) analysis or Failure Modes and Effects Analysis (FMEA) to a strategy, and then attempted to optimize the actions of the strategy, the optimization of the actions took longer than expected. This issue has been resolved.	DE150356

Production Loss Analysis

Table 393: Resolved Issues

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

Description	Tracking ID
Previously, screen failed to render on certain devices or zoom settings. This issue has been resolved. To reduce the risk of the screen failing to render on certain devices or zoom settings, the settings for PLA have been modified to accept small screen devices.	DE150060
Previously, even though Production Plan Records for the same unit and start time were available in multiple culture settings, you could create duplicate plans and no warning message appeared. This issue has been resolved for Time Based Plans that were not created as manual plans. **Note:** • This fix is not applicable to Manual Plans. • For Quantity-Based Plans (Sequential or Concurrent), duplicate check is additionally applied on Original Quantity. • For Quantity-Based Plans (only Concurrent), sequence of the product should be same when using data loader.	DE149759

Queries

Table 394: Resolved Issues

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

Description	Tracking ID
Previously, certain queries that contained parameter prompts and referenced other queries would unnecessarily recompute parameter values. This issue has been resolved. Now, parameter values are only recomputed when needed.	DE151796
Previously, when you attempted to select a query prompt value in the prompt filter, the prompt values intermittently took longer than expected to appear and there was no indication that the operation of loading the values was in progress. This issue has been resolved. Now, a spinner appears when the values are being loaded.	DE150574
Previously, when you exported a query using the CASTNUM and ROUND functions to an Excel file, the numeric values were exported as text. This issue has been resolved.	DE149973

RBI 581

Table 395: Resolved Issues

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

Description	Tracking ID
Previously, the Calculated T-min field on 581 Risk Analyses was calculated incorrectly when Geometry Type field value was Spherical Head or Hemispherical Head. This issue has been resolved. Now, the Calculated T-min field on 581 Risk Analyses is calculated using the updated formula. For more information about the formula, refer to KBA 000037009.	DE149233

Root Cause Analysis

Table 396: Resolved Issues

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

Description	Tracking ID
Previously, in RCA Recommendations, the fields did not appear in the language based on your language settings. This issue has been resolved.	DE148760
Previously, in the **Preserve Records** section for a Root Cause Analysis, some of the fields were not translated based on the Language setting for your user account. This issue has been resolved.	DE141652
Previously, in the **Team Members** section for a Root Cause Analysis, some of the fields were not translated based on the Language setting for your user account. This issue has been resolved.	DE137975

V4.3.0.7.18

This topic provides a list of product changes included in this patch.

Asset Hierarchy

Table 397: Resolved Issues

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

Description	Tracking ID
Previously, when you created an Asset Group based on a query, you could add a maximum of 25 assets to the group. This limitation has been removed. Now, you can add all the assets that are part of a query result.	DE147137

General Dashboard

Table 398: Resolved Issues

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

Description	Tracking ID
Previously, if a non-default filter was set to a Dashboard, if you navigated to a different page and returned to the Dashboard, the graphs on the Dashboard displayed incorrect results. This issue has been resolved.	DE145689

Queries

Table 399: Resolved Issues

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

Description	Tracking ID
Previously, when you exported a query to an Excel file, the alias for the exported column captions were displayed in the language in which the query was executed, regardless of your culture settings. This issue has been resolved. Now, in this scenario, the alias for the exported column captions are displayed in the language based on your culture setting.	DE148526

RBI 580

Table 400: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now calculate the RBI PRD Criticality Analyses in bulk from the **Assets** section of the following pages: • Risk Based Inspection Overview • Unit Summary • Corrosion Loop	US458084

RBI 581

Table 401: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The GE Digital APM application now calculates the Weighted Component Damage Consequence and Weighted Personnel Injury Consequence for any Toxic fluid which has a value in the following tables: • Personnel Injury Flammable Consequence Equation Constants table (Table 4.9/4.9M, API 581 3rd edition) • Component Damage Flammable Consequence Equation Constants table (Table 4.8/4.8M, API 581 3rd edition)	US449655
The RBI 581 Analyses now allow AST Shell calculations for Component Type field value set to Storage Tank. To facilitate this enhancement, the following fields in the RBI 581 Consequence Evaluation family are now enabled if the Component Type field is set to Storage Tank, regardless of the related RBI Component family: • Maximum Fill Height in AST • Fluid Percent Leaving Dike • Fluid Percent Onsite • Fluid Percent Offsite • Environmental Sensitivity • Tank Course Height In addition, the RBI 581 Analyses with the Component Type field set to Storage Tank Bottom are only valid if the related RBI Component family is Criticality RBI Component - Tank Bottom. **Note:** To calculate an RBI 581 Risk Analysis in the following scenarios, refer to KBA 000036239: • The Component Type field for the analysis is set to Storage Tank Bottom. • The RBI Component family associated with the analysis is a family other than Criticality RBI Component - Tank Bottom.	US449646

Table 402: Resolved Issues

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

Description	Tracking ID
Previously, for an RBI 581 Analysis with a related 581-Low Alloy Steel Embrittlement degradation mechanism, the Fracture Appearance Transition Temperature (FATT) field in 581-Low Alloy Steel Embrittlement Degradation Mechanism Evaluation was entered in Degrees Fahrenheit instead of Delta Fahrenheit. For a user with a Metric conversion set, this resulted in an incorrect Celsius value because the Unit of Measure for the field should be Delta Fahrenheit. As a result, the calculated value of the Damage Factor for the degradation mechanism was incorrect for a non-imperial user. To resolve this issue, follow the steps in KBA 000036913.	DE145877

Record Manager

Table 403: Resolved Issues

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

Description	Tracking ID
Previously, in the Document Path field, you could not specify the network path for a folder. This issue has been resolved.	US453636
Previously, in a record, when you attempted to access a Reference document in a folder with a special character in the folder name, an error occurred. This issue has been resolved.	DE148818
Previously, if you configured the Reference Document Server Credentials to access a distributed file system, when you attempted to link a reference document contained in the distributed file system to the reference document record an error occurred. This issue has been resolved.	DE146384

V4.3.0.7.17

This topic provides a list of product changes included in this patch.

APM Mobile Application

Table 404: Resolved Issues

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

Description	Tracking ID
Previously, in Rounds Data Collection, the offline recommendations data form did not display configured default values. This issue has been resolved and these values are now displayed on the form.	DE145136

Asset Strategy Implementation

Table 405: Resolved Issues

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

Description	Tracking ID
Previously, in the **ASI Value Helper** window, extra spaces in Functional Location IDs were not retained. Due to this, asset lookups in the SAP system failed. This issue has been resolved.	DE145380

Asset Strategy Management

Table 406: Resolved Issues

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

Description	Tracking ID
Previously, saving an action in a strategy took a long time. This issue has been resolved.	DE145371

Calibration Management

Table 407: Resolved Issues

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

Description	Tracking ID
Previously, in the Unit of Measure (UOME) system code and table, when you modified the UOM Code from upper case to lower case and attempted to create a Calibration Event record, an error occurred. This issue has been resolved.	DE145491

Inspection Management

Table 408: Resolved Issues

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

Description	Tracking ID
Previously, in certain cases, when you accessed the **Inspection Management Overview** page for an Asset and selected a tab, the corresponding section did not load, and displayed a blank space. This issue has been resolved.	DE143856

Record Manager

Table 409: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
You can now browse through the shared network to choose the file path and upload the reference document to GE Digital APM.	US295192

Table 410: Resolved Issues

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

Description	Tracking ID
Previously, when you tried to view the data through the result grid in the ASI workflow, the multiple spaces between the data (asset name) were reduced to a single white space. This issue has been resolved.	DE145174

Risk Based Inspection (RBI) 580

Table 411: Resolved Issues

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

Description	Tracking ID
Previously, when updating an RBI Component using the Risk Based Inspection (RBI) 580 Data Loader, if a cell in the RBI_Component worksheet was blank, the corresponding field in the RBI Component family was updated with a blank value in the GE Digital APM database. This issue has been resolved. Now, in this scenario, the value that previously existed in the field is retained.	DE144878
Previously, the Inventory was not calculated correctly for an RBI Component when the Initial Fluid Phase is Gas. This issue has been resolved.	DE144876

Risk Based Inspection (RBI) 581

Table 412: Resolved Issues

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

Description	Tracking ID
Previously, when updating an RBI Component using the Risk Based Inspection (RBI) 581 Data Loader, if a cell in the RBI_Component worksheet was blank, the corresponding field in the RBI Component family was updated with a blank value in the GE Digital APM database. This issue has been resolved. Now, in this scenario, the value that previously existed in the field is retained.	DE144878

Root Cause Analysis

Table 413: Resolved Issues

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

Description	Tracking ID
Previously, you could not save a Root Cause Analysis with the target completion date that had passed. This issue has been resolved.	DE144521
Previously, if State Management was enabled for a Root Cause Analysis and the analysis was in any state except Not Started, when you attempted to save the analysis as a template, an error message appeared. This issue has been resolved.	DE137971

Rounds Data Collection

Table 414: Resolved Issues

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

Description	Tracking ID
Previously, in Rounds Data Collection, the offline recommendations data form did not display configured default values. This issue has been resolved and these values are now displayed on the form.	DE145136

Security Manager

Table 415: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Security has been improved with advanced encryption in GE Digital APM.	DE144385

Thickness Monitoring

Table 416: Resolved Issues

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

Description	Tracking ID
Previously, in the **Thickness Monitoring Analysis Overview** page, when you attempted to perform bulk analysis for a large number of assets, the analysis operation failed due to the high usage of memory. In addition, some assets that required calculation did not appear in the **Assets Requiring a Calculation** section because the **Analysis Required** check box of the corresponding asset and Thickness Monitoring Location (TML) records could not be cleared. These issues have been resolved.	DE142963

V4.3.0.7.16

This topic provides a list of product changes included in this patch.

APM Mobile Application

Table 417: Resolved Issues

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

Description	Tracking ID
Previously, when you were assigned to a Route through a team and scanned a tag or barcode from the GE Digital APM mobile application, the scan was not recognized by the device. This issue has been resolved.	DE139957
Previously, in Rounds Data Collection, in the **Overdue Items** and **Due Items** sections, the value in the Due On or After fields was not refreshed as expected. This issue has been resolved.	DE139851

Asset Criticality Analysis

Table 418: Resolved Issues

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

Description	Tracking ID
Previously, if you accessed an Asset Criticality Analysis whose associated Risk Matrix record had the **Use Aliases?** check box selected, the Total Risk value on the risk assessment appeared as a numeric value instead of an alias value. This issue has been resolved.	DE140572

Asset Health Manager

Table 419: Resolved Issues

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

Description	Tracking ID
Previously, when you accessed the **Health Indicator Source Trend** page from Rounds Designer and modified the date range in the date filter, the date range changes were not applied. This issue has been resolved.	DE141418

Asset Strategy Management

Table 420: Resolved Issues

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

Description	Tracking ID
Previously, after deleting multiple actions, there was a performance issue while activating an ASM template. This issue has been resolved.	DE141603
Previously, if an asset strategy template controlled the strategies associated with a system strategy, when you accessed the **Risk Analysis** workspace for the system strategy, the number of actions that appeared was incorrect. This issue has been resolved.	DE140703

Calibration Management

Table 421: Resolved Issues

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

Description	Tracking ID
Previously, when you added assets to a Calibration Profile, the applied profile that was created was in the Development state; the Template State value was not copied from the Profile Template to the applied profile. This issue has been resolved.	DE139733

Foundation

Table 422: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
Previously, when you scheduled a recurring job in the scheduler with repeat intervals of more than 12 months using one of the following options, and then attempted to run the schedule, an error occurred. • **On selected day(s) of month** • **On selected day(s) of week** This issue has been resolved. Additionally, the scheduler workflow has been improved to run the jobs more efficiently. For example, if you schedule the workflow to run on the 31st day of every month, the scheduler service schedules the workflow on the last calendar day of every month.	DE140177

Inspection Management

Table 423: Resolved Issues

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

Description	Tracking ID
Previously, when there were multiple Taxonomy Classes or Types for the same category, Taxonomy Configurations were not correctly displayed in the **IM Admin Preferences** workspace. This issue has been resolved.	DE140670

Installation

Table 424: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
To improve security, you can now install the latest version of Redis on a Linux server. For more information on how to install Redis on a Linux server, refer to KBA 000036587.	US423311

Production Loss Analysis

Table 425: Resolved Issues

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

Description	Tracking ID
Previously, for a manual plan, in the **Plan Details** workspace, if you modified the date and time of the plan period, the time was changed to Coordinated Universal Time (UTC). This issue has been resolved.	DE140718
Previously, in the **Plan Details** workspace, when you attempted to modify the planned production amount for the product, an error occurred. This issue has been resolved.	DE139429
Previously, in the **Production Data** workspace, the value in the Over Accounted field was not rounded up or down according to the PLA Admin setting in the Production Profile. This issue has been resolved.	DE138710

Queries

Table 426: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
When you use Microsoft SQL Server 2016 to access GE Digital APM, the date and time values returned by the queries that contain the following functions now appear in the time zone configured for your user account. • DATEADD • MI_DateAdd • MI_DatePart • DATEDIF • DAY • MONTH • YEAR • LASTDATE To facilitate this enhancement, the **useSQL2016** parameter has been added in the `MeridiumAppSettings.xml` file. For more information on configuring the queries to return the date and time values in the time zone configured for your user account, refer to KBA 000036352.	DE140204

Table 427: Resolved Issues

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

Description	Tracking ID
Previously, when you exported a query that contained a date field to an Excel file, format of the date was incorrect in the Excel file. This issue has been resolved.	DE140064
Previously, when you ran GETDATE and GETUTCDATE query functions in formatted mode, the date and time values were converted to your timezone. This issue has been resolved. Now, the date and time values appear based on the GE Digital APM server settings.	DE140046
Previously, in a query, if a hyperlink was used to pass the query results, the field values that contained Cyrillic and Chinese characters were ignored. This issue has been resolved.	DE139748

Record Manager

Table 428: Resolved Issues

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

Description	Tracking ID
Previously, in a shared network, if you selected a hyperlink that was referenced to a document to be downloaded using Google Chrome or the Microsoft Edge browser, the file was downloaded with an invalid name and extension. This issue has been resolved.	DE140380
Previously, when you added the **Disabled** behavior to a multi-value character field of a family, and then accessed a record of the same family in Record Manager, the Disabled behavior of the field was not retained. This issue has been resolved.	DE139967

Reliability Analytics

Table 429: Resolved Issues

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

Description	Tracking ID
Previously, if a Spares Analysis contained multiple Spare Applications, the report for a Spare Application contained the data and failure distribution of the previously added Spare Application also. This issue has been resolved.	DE140148
Previously, when modifying the Description for a Spares Analysis, if you exceeded the maximum character limit specified for the **Description** box, and then attempted to save the changes, a spinner appeared, and there was no indication that the changes could not be saved as the maximum character limit was exceeded. This issue has been resolved. Now, in this scenario, an error message appears, indicating that you exceeded the maximum character limit specified for the **Description** box.	DE139971
Previously, in Reliability Analytics, if the data was entered manually through the data editor, when you accessed the data editor, the time did not appear based on your culture settings. This issue has been resolved.	DE138658
Previously, if you accessed Probability Distribution Analysis chart using Microsoft Edge browser, when you selected **Auto** as the Distribution Type, the plots in the chart disappeared. This issue has been resolved.	DE137855

Rounds Data Collection

Table 430: Resolved Issues

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

Description	Tracking ID
Previously, in Rounds Data Collection, in the **Overdue Items** and **Due Items** sections, the value in the Due On or After field was not refreshed as expected. This issue has been resolved.	DE139851

Risk Based Inspection

Table 431: Resolved Issues

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

Description	Tracking ID
Previously, the **Calculated T-min** field in the 581 Risk Analyses was incorrectly calculated when the **Geometry Type** field value was Piping. This issue has been resolved. Now, the **Calculated T-min** field is calculated using the formula from the reference ASME B31.3, 2014 Edition. For more information on the formula, refer to KBA 000036403.	DE139695
Previously, when the **Online Monitoring** field was set to Yes (Y) on the **581-Internal Component Lining Damage**, a Damage Mechanism Evaluation, the Online Monitoring Adjustment was incorrectly set as 0.01. This affected the calculated **Damage Factor** field. This issue has been resolved. Now, as per the API 581 3rd edition specification, the Online Monitoring Adjustment is set to 0.1 when the Online Monitoring field is set to Yes (Y) on the **581-Internal Component Lining Damage** a Damage Mechanism Evaluation.	DE139032

Root Cause Analysis

Table 432: Resolved Issues

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

Description	Tracking ID
Previously, if you used special characters in the description of an event, when you exported the RCA Event Timeline, the image was not exported. This issue has been resolved.	DE139970
Previously, in RCA **Event Timeline**, for two events with the same start date, their flags overlapped vertically, and the content could not be read in full page view. This issue has been resolved.	DE138955
Previously, when you selected Zoom to Fit button ( ) in the RCA Event diagram, the diagram was not center aligned and did not fit in the canvas. This issue has been resolved.	DE137859
Previously, if a Root Cause Analysis (RCA) was created from an RCA Template, you were not able to link an asset to the analysis. This issue has been resolved.	DE135458

SAP Adapters

Table 433: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
SAP Work History extraction interface has been enhanced to improve the performance of the synchronization process.	DE139313

Security Manager

Table 434: Resolved Issues

The following enhancements and new features have been added.

Description	Tracking ID
Previously, if you removed multiple Security Users from a Microsoft Active Directory Group, and then ran the LDAP synchronization process, the Security Users were not dissociated from the corresponding Security Role in GE Digital APM. This issue has been resolved.	DE142557

System Requirements

Table 435: Resolved Issues

The following enhancements and new features have been added.

Description	Tracking ID
Previously, if user authentication using SSO was enabled for GE Digital APM, when you attempted to access GE Digital APM using Google Chrome version 80 or a higher version, an error message appeared, and the login failed. This issue has been resolved.	DE141204

Thickness Monitoring

Table 436: Resolved Issues

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

Description	Tracking ID
Previously, when you attempted to link a TML Group to RBI Components from the Thickness Monitoring module, and the Source of Calculated Corrosion Rate field of the RBI Components in the Risk Based Inspection module contained the value Component, an error message appeared. This issue has been resolved.	DE140580
Previously, while saving data from a datalogger, the thickness measurement locations with similar identifications were updated with incorrect measurements. This issue has been resolved.	DE139139

V4.3.0.7.15

This topic provides a list of product changes included in this patch.

APM Mobile Application

Table 437: Resolved Issues

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

Description	Tracking ID
Previously, in Rounds Designer, if a set of checkpoints existed under a condition and one of the checkpoints was set to inactive, the subsequent checkpoints in the set did not appear in the GE Digital APM mobile application. This issue has been resolved.	DE422945

Asset Strategy Implementation

Table 438: Resolved Issues

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

Description	Tracking ID
To improve searchability, when importing task lists from SAP to GE Digital APM, you can now customize the search parameters that appear in the **Locate General Task List** window. To facilitate this enhancement, the **Task List Import Parameter** box has been added to the **Asset Strategy Implementation Preferences** workspace of the **Asset Strategy Implementation Admin** page.	DE138508

Foundation

Table 439: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
When you use Microsoft SQ Server 2016 to access GE Digital APM, the date and time values returned by the queries that contain the `MI_DatePart` and `DateName` functions now appear in the time zone configured for your user account. For more information on configuring the queries to return the date and time values in the time zone configured for your user account, refer to KBA 000036352. **Note:** If you enable this option, the execution results of policies using queries may be impacted if the time zone setting for the Impersonation User configured for the Policy Execution Service is not set to UTC.	US426539

Hazards Analysis

Table 440: Resolved Issues

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

Description	Tracking ID
Previously, if you accessed an unmitigated risk matrix for a Consequence associated with a hazards analysis, and then selected **Save** or **Cancel** without modifying any value in the **Unmitigated Risk Assessment** window, the values in the Mitigated Risk fields of the **Hazards Worksheet** section disappeared. This issue has been resolved.	DE136993

Risk Based Inspection

Table 441: Resolved Issues

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

Description	Tracking ID
Previously, release rate calculation in RBI 581 Consequence Evaluation was based on the value in the Release Fluid Phase field of the related RBI 581 Risk Analysis. This issue has been resolved. Now, the Release Rate calculation will be based on the Initial Fluid Phase field value in the RBI 581 Risk Analysis. In addition, for a user with unit of measurement conversion set assigned, Release Fluid Phase in the RBI 581 Risk Analysis was populated incorrectly for fluids where: • Initial Fluid Phase field value in the RBI 581 Risk Analysis family was set to Liquid. • Ambient Fluid Phase field value in the RBI 581 Risk Analysis family was set to Gas. • BoilPt field value in the RBI 581 Risk Analysis family was set between 80 degree to 176 degree Fahrenheit range. This issue has been resolved.	DE137630

Rounds Data Collection

Table 442: Resolved Issues

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

Description	Tracking ID
Previously, in Rounds Designer, when a set of checkpoints existed under a condition, and one of the checkpoints was set to inactive, the subsequent checkpoints in the set did not appear in the Rounds Data Collection. This issue has been resolved.	DE422945

V4.3.0.7.14

This topic provides a list of product changes included in this patch.

APM Mobile Application

Description	Tracking ID
Previously, when using Rounds Data Collection on an android device, a white space appeared and get locked when you tried going back to the **Rounds Data Collection Overview** page that has Due or Overdue list using the back-arrow key in the keypad. This issue has been resolved.	DE133281

Asset Hierarchy

Description	Tracking ID
Previously, if you were not an administrator and attempted to access the Asset Hierarchy, it took longer than expected to appear. This issue has been resolved. Now, when loading the Asset Hierarchy, the performance is improved.	DE135265

Asset Strategy Management

Table 443: Enhancement and New Feature

Description	Tracking ID
The following enhancements have been done to the **Controlled Strategies** section: • When activating Controlled Strategies with master template, the performance has been improved. **Note:** For more information about how to fix when strategy templates fail to activate, refer to KBA: https://digitalsupport.ge.com/communities/en_US/Article/Large-Asset-Strategy-Templates-Fail-to-Update • The performance of adding new controlled strategies for a template have been improved. The recommended maximum number of controlled strategies is 5000.	US413881

Table 444: Resolved Issues

Description	Tracking ID
Previously, in the **System and Unit Strategies** section, when you tried to access the **Review Strategy** tab, an error occurred. This issue has been resolved.	DE134350
Previously, if you applied an asset strategy template as a master to an asset or functional location, and then modified the values of the Probability and Consequence records associated with a risk category without affecting the risk rank of the risk category, the updated values did not appear in the Risk Matrix for the strategy controlled by the template. This issue has been resolved.	DE134146

Inspection Management

Description	Tracking ID
Previously, when you accessed the Integrity tab from the Asset Hierarchy page, the hyperlink for Inspection Management took longer to load, depending on the number of assets in the Asset Hierarchy page. This issue has been resolved.	DE132597

Metrics and Scorecards

Description	Tracking ID
Previously, after you upgraded the GE Digital APM database from V3 to V4, KPI Measurement records were created with certain empty fields. This issue has been resolved.	DE131497

Production Loss Analysis

Description	Tracking ID
Previously, when you created a plan using the Production Loss Analysis (PLA) 3-Plan data loader, the plan ID was generated with the US date format, irrespective of the culture setting of the logged in user. This issue has been resolved.	DE134550
Previously, when you tried creating a Template for PLA Plans, the dropdown menu for Template duration was not localized and appeared in English only. This issue has been resolved. Now, the dropdown menu appears as per the selected language according to your culture setting.	DE132770

RBI 580 and 581

Description	Tracking ID
Previously, when you accessed the **Integrity** tab from the **Asset Hierarchy** page, the hyperlink for Risk Based Inspection took longer to load, depending on the number of assets in the **Asset Hierarchy** page. This issue has been resolved.	DE132597

Record Manager

Description	Tracking ID
Previously, when you scheduled the Conditional Alerts, the Conditional Alert emails were not sent at specified intervals. This issue has been resolved. Now, in this scenario you can schedule the Conditional Alert and receive email as per schedule.	DE131694
Previously, when you scheduled multiple Conditional Alerts to be run at specified intervals, if a Conditional Alert executed with an error then all the alerts were not executed. This issue has been resolved.	DE121758

Root Cause Analysis

Table 445: Enhancement and New Feature

Description	Tracking ID
You can now configure the **Recommendations** chart in the **Overview** section of the **Analysis Summary** workspace to display the number of recommendations based on their status. To facilitate this enhancement, a new catalog query has been created that can be used by the **Recommendations** chart to display the data. For more information on importing the catalog query to your GE Digital APM database, contact the GE Support Service.	US412546

Table 446: Resolved Issues

Description	Tracking ID
Previously, when you accessed a large RCA Logic Tree, a timeout error occurred. This issue has been resolved. Now, the load time to open logic tree is significantly improved.	DE136750
Previously, if you were a member of the team associated with a Root Cause Analysis (RCA), you could change the state of the RCA from In Progress to Pending Approval only if you were assigned with the Principal Analyst role. This issue has been resolved. Now, irrespective of the team member role, you can change the state of the RCA if you are assigned to a security group or a security role that has privileges to change the states.	DE134640
Previously, in RCA Event Timeline, when Event Flags were closely associated in time, the view was not separated and did not appear correctly even after adjusting the zoom. This issue has been resolved.	DE134054
Previously, if you upgraded the GE Digital APM from V3 to V4, in the RCA Event Diagram, some Event Diagram nodes did not allow the existing text. This issue has been resolved.	DE133748
Previously, when you accessed the RCA Event Diagram for existing analyses, some icons did not appear in the **Palette** section. This issue has been resolved.	DE133700
Previously, in an RCA Logic Tree, even after specifying the hypothesis causes for Human, Physical, or Latent, when you returned to the design canvas, the red line was lost and reverted to black. This issue has been resolved.	DE132632

Security Manager

Table 447: Resolved Issues

Description	Tracking ID
Previously, if user account was locked in Microsoft Active Directory, then the user was also locked in GE Digital APM database. This issue has been resolved. Now, in this scenario the user will not be locked in GE Digital APM database, and after you unlock the users in Microsoft Active Directory, the users can access GE Digital APM.	DE131495

Thickness Monitoring

Description	Tracking ID
Previously, when you accessed the **Integrity** tab from the **Asset Hierarchy** page, the hyperlink for Thickness Monitoring took longer to load, depending on the number of assets in the **Asset Hierarchy** page. This issue has been resolved.	DE132597

V4.3.0.7.13

This topic provides a list of product changes included in this patch.

Action Management

Description	Tracking ID
Previously, when you attempted to send actions to ASI from Action Management, an error occurred. This issue has been resolved.	DE132292
Previously, when you performed state assignments for multiple recommendations in bulk, it was not assigned to all the selected recommendations. This issue has been resolved.	DE131762

Asset Strategy Management

Description	Tracking ID
Previously, in the **Risk Analysis** workspace, when using a risk matrix with Max Risk Rank enabled, the proposed risk rank was incorrectly calculated. This issue has been resolved.	DE131323
Previously, when using a risk matrix with a combination of non-financial category with a protection level and a financial category, an error occurred. This issue has been resolved.	DE130647

Family Management

Description	Tracking ID
Previously, in some cases, if you attempted to delete custom fields (i.e., non-baseline) in a family, an error occurred. This issue has been resolved.	DE129386

Policy Designer

Description	Tracking ID
Previously, the input values of a policy instance that were of string data type appeared incorrectly in the **Validation** workspace. This issue has been resolved.	DE132300

Production Loss Analysis

Description	Tracking ID
Previously, in PLA Loss Reconciliation datasheet, the Equivalent Downtime Hours field would fail to populate the value in the loss datasheet. This issue has been resolved.	DE132680
Previously, when you searched for Production Loss records using the global search box, and then attempted to open a loss record, an error message appeared. This issue has been resolved.	DE132676

Queries

Description	Tracking ID
Previously, if you specified a value near to zero in the search criteria, after UOM conversion it was rounded to 0. It was also applicable to non-zero values. For example, 10.0000000001 was rounded to 10. This issue has been resolved. Now, the value remains as specified. However, you may see exponential values (i.e., power of x).	DE131953
Previously, when a user ran the query and used GETDATE function, the time value displayed the time zone associated with the user who was logged in. This issue has been resolved. Now, a new UTC function is added to avoid date field conversion.	• DE131951 • DE129212

Reliability Analytics

Description	Tracking ID
Previously, when generating a comparison plot across several Reliability Growth Analyses (RGA) or Production Analyses, the colored chart lines indicating each source analysis were using the same shape symbol on the line. This was in conflict with the chart legend and was difficult for the user to differentiate by color. This issue has been resolved.	DE131883
Previously, in System Reliability, when adding Global Events, the field titles and check boxes were misaligned. This issue has been resolved.	DE131550
Previously, in Reliability Analytics, the charts from many of the diagrams did not contain the legends when they were printed or viewed in HTML format. This issue has been resolved. Now, all charts in the reports show the corresponding legends.	DE130663

Reports

Description	Tracking ID
Previously, while generating SQL Server Reporting Services (SSRS) report, when you selected the check box for multiple parameters, an error occurred. This issue has been resolved. Now you can generate reports with multiple parameters.	DE125461

Rounds Data Collection

Description	Tracking ID
Previously, when a route tried to load Rounds Data Collection (RDC) on an Android device, it failed due to the combination of the route size and structure, and an error "Uncaught RangeError: Invalid array length" appeared. In a few other cases, the route was unable to load, and the application would close. This issue has been resolved. Now, the app allows the route to load RDC without producing any error or crashing the device.	DE133373
Previously, in the GE Digital APM mobile application, GIS timeout settings were handled incorrectly which caused a delay in taking the readings, even when the timeout was set to zero. This issue has been resolved. Now, the timeouts are being recorded correctly when the GE Digital APM mobile application is either offline or online.	DE131628

Single Sign-On

Description	Tracking ID
Previously, when you attempted to log in to GE Digital APM through windows devices using Single Sign-On (SSO) authentication, an error occurred. This issue has been resolved. Now you can login through windows device using SSO authentication.	DE130604

System Requirements

Description	Tracking ID
Previously, if you accessed GE Digital APM using Chrome browser version 80 or higher, you may have experienced some issues. These issues have been resolved.	DE128759

Thickness Monitoring

Description	Tracking ID
Previously, the **TM Dataloggers** page could not load large amount of data while sending Thickness Measurement Locations (TMLs) to the datalogger. This issue has been resolved. Now, to avoid issues related to saving and analyzing large amount of TML data while receiving, the operation has been moved to scheduler.	DE131736
The performance of the **Analysis Overview** workspace and the **TMLs** section has been significantly improved. To facilitate this enhancement, the Based on field now appears as a hyperlink that allows you to access the Thickness Measurement Locations (TMLs) associated with the analyses in the **Based on** window.	DE130887
Previously, in the **TM Dataloggers** page, when you selected the check box in the header of the **Send To** or **Receive From** sections, only the TMLs available in the current page were selected and the TMLs in other pages were not selected. This behavior did not allow you to send or receive all the TMLs at a time. This issue has been resolved. Now, if you do not select any TML in the grid and select the **Send** (in the **Send To** section) or **Save** (in the **Receive From** section) button, all the TMLs are sent or received respectively.	DE130886

Units of Measurement

Description	Tracking ID
Previously, if you specified a value near to zero in the search criteria, after UOM conversion it was rounded to zero. It was also applicable to non-zero values. For example, 10.0000000001 was rounded to 10. This issue has been resolved. Now, the value remains as specified. However, you may see exponential values (i.e., power of x).	DE131953

V4.3.0.7.12

This topic provides a list of product changes included in this patch.

RBI 581

Description	Tracking ID
Previously, when calculating the mitigated risk on the plan date for External Cracking Degradation Mechanism Evaluation on an RBI 581 Risk Analysis, the age calculation did not consider the target inspection date. As a result, the Total Damage Factor With Plan field (RBI Degradation Mechanisms) contained incorrect values for the following damage mechanisms: • 581-Austenitic Component Atmospheric Cracking • 581-Austenitic Component Cracking Under Insulation This issue has been resolved.	DE128755

Reliability Analytics

Description	Tracking ID
Previously, if your language setting in GE Digital APM was not English, the options in the **Frequency of Alert After Due Date** drop-down list box of an RCA Verification contained unknown values. This issue has been resolved. Now, the list contains the translated values based on your language setting.	DE128989
Previously, when accessing a System Reliability Analysis in certain instances, an error message appeared, and the analysis failed to open. This issue has been resolved.	DE127871
Previously, in System Reliability, when adding nodes to a diagram, if a node was added before the previous change was saved, an error occurred. This issue has been resolved. Now, a spinner appears while the node is being added.	DE127548

Root Cause Analysis

Description	Tracking ID
Previously, when creating an RCA from a template, if the assigned name was not unique, the analysis details were not saved, and you were forced to restart the process. This issue has been resolved.	DE129784
Previously, if an RCA Analysis was created from a template, after adding a verification, the Analysis Definition appeared blank on the Definition datasheet. This issue has been resolved.	DE129507
Previously, in the **Root Cause Analysis** page, in the **My Analyses** section, when you attempted to publish an RCA analysis, an error occurred. This issue has been resolved.	DE128258
Previously, when viewing a Logic Tree diagram, if you specified the date of completion for a verification in the **Date Completed** box, and then saved the verification, the date of completion did not appear for the verification. This issue has been resolved.	DE125641

Rounds Designer

Description	Tracking ID
Previously, when the same scan code was populated on multiple checkpoints or routes, you were only routed to the first checkpoint. This issue has been resolved. Now, a window appears that provides a list of matching checkpoints and routes, and then directs you to the checkpoint or route selected. **Note:** • Scan IDs at the route level should not be duplicated on other Route records. • Scan IDs can be replicated on Routes and Measurement Locations. However, if the scan ID is replicated, a Route identified by the replicated scan ID should have at least one Measurement Location on that route with the same scan ID. If a same scan ID is used on both Routes and Measurement Locations, the scan selection window will only show the matching Measurement Locations. • If scanning while online, the scope of the scan will be all assigned routes. If scanning while offline, the scope of the scan will only be the routes that have been downloaded to the device.	DE128661

V4.3.0.7.11

This topic provides a list of product changes included in this patch.

Action Management

Description	Tracking ID
The performance of the **Strategy Actions** section in **Action Management** page has been improved. To facilitate this enhancement, the Strategy Actions catalog query at below location has been optimized: `Public\Meridium\Modules\Recommendation Manager\Queries \All Strategy Actions` For more information, refer to KBA: Management action functions in APM is timing out.	DE127212

Calibration Management

Description	Tracking ID
Previously, while creating a Calibration Event, if the mandatory fields were blank, an error occurred. This issue has been resolved.	DE125898
Previously, in the Calibration Event family, when you configured the Test Equipment ID field as a required field, and then attempted to save a Calibration Event record, an error occurred because the **Test Equipment** section of the record that contained the Test Equipment ID field was disabled. This issue has been resolved.	DE125897

Family Management

Description	Tracking ID
Previously, in Configuration Manager, when you attempted to enter or modify a value in the User help text field, the value was not saved. This issue has been resolved.	DE124701

Queries

Description	Tracking ID
Previously, the queries with a column comparison to a date constant that did not contain a time returned partial results, or no records were returned. This issue has been resolved.	DE125109

Root Cause Analysis

Description	Tracking ID
Previously, when creating an Event diagram, the links between nodes were not retained after you saved the Event diagram. This issue has been resolved.	DE124686
Previously, when creating an Event timeline in an RCA Analysis, the Event Flag spanned out of the canvas area. This issue has been resolved.	DE123975

Single Sign On

Description	Tracking ID
Previously, if you logged in with SSO and the session timed out, the event details were not logged during the time out. This issue has been resolved.	DE123917

V4.3.0.7.10

This topic provides a list of product changes included in this patch.

Asset Criticality Analysis

Description	Tracking ID
Previously, in the **Criticality Assessment** section, the total value for a category was incorrectly displayed as zero. However, the saved value was correct. This issue has been resolved.	DE125021

Asset Strategy Implementation

Description	Tracking ID
Previously, when you modified a Work Management Item Child Definition record, the icon for its parent item was not automatically refreshed. This issue has been resolved.	DE123030

Calibration Management

Description	Tracking ID
Previously, when you performed a manual square-root calibration, the RMS Error value was calculated incorrectly because the Input Measure AF and Input Measure AL values were not square-rooted. This issue has been resolved.	DE123000
Previously, in the Calibration Event family, if you set any field as a required field, and then tried to save the record, the record was not saved, and the page became unresponsive. This issue has been resolved.	DE121914

Family Management

Description	Tracking ID
Previously, when a datasheet was disabled, the Associated Pages ( ), Save ( ), and More options ( ) buttons were not visible on the datasheet. This issue has been resolved.	DE121252

Production Loss Analysis

Description	Tracking ID
Previously, using the Production Event data loader, you could not update the production event code under the related families. This issue has been resolved.	DE123937

Reliability Centered Maintenance

Description	Tracking ID
Previously, when you attempted to access an asset from the **Linked Assets** section of an analysis, an error occurred. This issue has been resolved.	DE121073

RBI 580

Description	Tracking ID
Previously, if an RBI Criticality Analysis contained a related Chloride Stress Corrosion Cracking (CI SCC) or Hydrogen Stress Cracking (HSC) - Hydrofluoric Acid Degradation Mechanism, the value in the output fields was calculated incorrectly. This issue has been resolved.	DE121799

RBI 581

Description	Tracking ID
Previously, when the UOM conversion set was assigned to you, while calculating an RBI 581 Risk Analysis, the Risk Category field was calculated incorrectly. In addition, the output fields were calculated incorrectly for any of the following conditions: • The component type was Storage Tank or Storage Tank Bottom. • The analysis contained a Brittle Fracture damage mechanism evaluation. This issue has been resolved.	DE121780
Previously, when you calculated an RBI 581 Risk Analysis on a Storage Tank component that had a toxic mixture, the calculation failed. This issue has been resolved.	DE121707

Rounds Designer

Table 448: Enhancement and New Feature

Description	Tracking ID
The Scan to Unlock feature is now available in the GE Digital APM Mobile application. This feature works with both Bar Codes and NFC RFID tags. To enable this feature for a checkpoint, populate the **Scan to Unlock?** check box and **Scan ID** field in Rounds Designer.	US378667

Table 449: Known Issues

Description	Tracking ID
When using the Scan to Unlock feature to unlock checkpoints, scanning different tags may trigger the interface to access checkpoints across multiple routes on the device. In the process of switching back and forth between routes, there is a possibility that when you scan a code for a checkpoint, the checkpoint will appear as unlocked, but the detail page does not open. Workaround: Press the back button on the device to navigate to the previous tab, and then re-scan the bar code or tag. The checkpoint will unlock and open for data entry.	US386702

Single Sign On

Table 450: Enhancement and New Feature

Description	Tracking ID
You can now use only the following URL to access GE Digital APM using SSO: `http://<SERVER_NAME>/meridium/index.html`	DE120256

Table 451: Resolved Issues

Description	Tracking ID
Previously, while using SSO, if you attempted to access GE Digital APM, an error message appeared, indicating that the server was not found. This issue has been resolved. Now, you can navigate to the SSO login page.	DE120256

Thickness Monitoring

Description	Tracking ID
Previously, when you performed the Minimum Thickness (T-Min) calculation for more than 400 thickness measurement locations from the **T-Min Calculator** workspace, an error occurred. This issue has been resolved. Now, a pagination has been introduced in the **T-Min Calculator** workspace to load 100 thickness measurement locations per page.	DE122077

V4.3.0.7.9

This topic provides a list of product changes included in this patch.

Asset Strategy Implementation

Description	Tracking ID
Previously, when a Work Management Item (WMI) was being updated, you could navigate to and access other sections of the associated ASI Package. This issue has been resolved. Now, in this scenario, you cannot access other sections of the associated ASI Package.	DE119903

Calibration Management

Description	Tracking ID
Previously, if you accessed GE Digital APM using an Active Directory account (LDAP user ID), performed an automated calibration, and then attempted to receive data into GE Digital APM, an error occurred. This issue has been resolved.	DE120971

Inspection Management

Description	Tracking ID
Previously, when accessing an Inspection that contained exactly 25 General Finding related records, when you scrolled through the General Findings in the left pane, the system performed an infinite scroll. This issue has been resolved.	DE120364

Policy Designer

Description	Tracking ID
Previously, if an entity that was specified as a trigger for automatic policy execution was modified more than once within a short time span (that is, less than one second), only one policy execution was triggered. This feature, which was implemented to prevent unintended duplicate policy executions, resulted in some intended policy executions being skipped. This issue has been resolved. Now, policy execution is triggered each time an entity is modified, except for policies that are triggered by new Readings added to a Measurement Location. **Note:** For policies that are triggered by new Readings added to a Measurement Location, duplicate policy executions are still prevented because the insertion of new Readings using the Rounds Data Collection module results in multiple entity updates.	US371381
You can now configure a policy to create an execution history log record for all the executions or only the executions that result in an error. For more information about how to enable the Execution History Log Error Only setting, refer to KBA: V4.3.0.7.9 – Policy Designer – How to Enable Execution History Log Error Only setting.	US358708

Reliability Analytics

Description	Tracking ID
Previously, in a Reliability Recommendation record, if you selected the **Create Work Request** check box, and then saved the record, the SAP Notification that was created did not contain the Equipment and Functional Location values associated with the record. This issue has been resolved.	DE119878

Risk Matrix

Description	Tracking ID
Previously, when calculating risk using a Risk Matrix, the values specified in the **Weight** boxes of the associated risk category records were not considered in the calculation. This issue has been resolved.	DE120519

Root Cause Analysis

Description	Tracking ID
Previously, in an RCA Recommendation record, if you selected the **Create Work Request** check box, and then saved the record, the SAP Notification that was created did not contain the Equipment and Functional Location values associated with the record. This issue has been resolved.	DE119877

Strategy Macros

Description	Tracking ID
Previously, if you did not have Administrator or Super User privileges and you attempted to execute strategy macros from an Associated Page URL, an error occurred. This issue has been resolved.	DE121359

Thickness Monitoring

Description	Tracking ID
Previously, if the measurements of a Thickness Measurement Location was at a high loss, and if you attempted to organize the Thickness Measurement Locations from the **Organize TMLs** workspace, an error occurred indicating that the calculation failed. This issue has been resolved.	DE120290

V4.3.0.7.8

This topic provides a list of product changes included in this patch.

Asset Criticality Analysis

Description	Tracking ID
In the **ACA Overview** page, the performance when loading the tile counts has been improved. For more information, refer to KBA: 4.3.0.7.x - ACA Module Dashboard is getting time out always.	US371236

Asset Strategy Implementation

Table 452: Enhancements and New Features

Description	Tracking ID

The performance of the **Manage Actions** section in the ASI Package page has been improved. To facilitate this enhancement, the **Manage Actions** section has been modified to use the following Catalog query:
 	
`Public\Meridium\Modules\Asset Strategy Management`
`\Implementation\Queries\Get Actions For Package`
 	
For more information, refer to KBA: 4.3.0.7.x – ASI – Unable to open some of the packages in ASI.
	US367849

Table 453: Resolved Issues

Description	Tracking ID
Previously, an Asset Strategy Implementation package with large number of plans took a long time to load. This issue has been resolved.	US367133
Previously, when you attempted to update linked Actions with the same action interval units, the Actions that were previously linked to the Work Management Item were no longer linked to the item. This issue has been resolved.	DE118995

Asset Strategy Management

Description	Tracking ID
To enhance usability, the performance when loading the **Risk Profile** chart has been improved.	US371656

Compliance Management

Description	Tracking ID
You can now manage API RBI Recommendations in the **Inspection Plan** page for the asset. The **Inspection Plan** page can now be configured to support viewing, managing, approving, and implementing API RBI Recommendations. **Note:** For information about how to configure API RBI Recommendations for the Inspection Plan, refer to KBA 000034663.	US372385

Inspection Management

Description	Tracking ID
Previously, the **Inspection Management Overview** page was filtered based on the asset hierarchy context, despite providing the unit key in the Uniform Resource Locator (URL). This issue has been resolved. Now, the **Inspection Management Overview** page is filtered based on the unit key you provide.	US372139

Policy Designer

Description	Tracking ID
Previously, while accessing GE Digital APM using Internet Explorer 11, when you accessed a policy that contained a Health Indicator node, the policy did not load or took a long time to load. This issue has been resolved.	DE117312

Production Loss Analysis

Description	Tracking ID
Previously, in the Production Event family, the Unit Key was stored in the Unit field. Due to this, when you ran a query for the Unit Name from the Production Event family, the Unit Key was returned. This issue has been resolved. For more information, refer to KBA: Configure Version 4 APM so that the Unit Name functionality works the same as in version 3.6 (for a v3 customer) or any v4 version prior to 4.3.0.7 (for a v4 customer) after upgrade.	DE118543

Reliability Analytics

Description	Tracking ID
Previously, while accessing GE Digital APM using Internet Explorer, the System Reliability diagram with large number of assets and/or subsystems took a long time to load. This issue has been resolved.	DE117867

RBI 580

Description	Tracking ID
Previously, for a Criticality RBI Component - Exchanger Bundle, when you copied an RBI Criticality Analysis or created a What-If Analysis from an RBI Criticality Analysis, and then calculated the analysis, the Final Phase and Final Phase Shell Side fields in the related Criticality Consequence Evaluation record were not populated. This issue has been resolved.	DE117518
Previously, if the **Override Minimum Required Thickness** check box was selected for an RBI Criticality Analysis, the value specified in the **Specified Tmin** box was not considered while calculating the Estimated Half-Life for the Criticality Calculator External Corrosion Degradation Mechanism Evaluation. This issue has been resolved.	DE117516

Root Cause Analysis

Description	Tracking ID
Previously, after assigning and saving a Hypothesis Verification in the RCA Logic Tree, if you changed the Team Member value in the **Assigned to** box, and then saved the record, the value in the **Assigned to** box was not retained. This issue has been resolved.	DE118375
Previously, while accessing GE Digital APM using Internet Explorer, the RCA Logic Tree with large number of nodes took a long time to load. This issue has been resolved.	DE117013

Schedule Logs

Description	Tracking ID
You can now run a background job on the last day of each month. To facilitate this enhancement, the **Last Day of Month Schedule** option has been introduced.	US367291

State Management

Description	Tracking ID
Previously, when you saved a datasheet after changing the state, an error message appeared. This issue has been resolved.	DE116448

V4.3.0.7.7

This topic provides a list of product changes included in this patch.

Action Management

Description	Tracking ID
Previously, in the General Recommendation datasheet, when the **Alert Assignee When Due** check box was selected for a record, alert email messages were not sent. This issue has been resolved.	DE116027

Asset Criticality Analysis

Description	Tracking ID
Previously, if a field in a checklist was updated by a policy, the corresponding entity was not updated with the latest field value. This issue has been resolved.	DE114440

Asset Hierarchy

Description	Tracking ID
Previously, in the **Hierarchy** section of the **Asset Finder** window, the Add icon (+) was intermittently disabled due to which you could not add an asset to an analysis. This issue has been resolved.	DE110477

Asset Strategy Implementation

Description	Tracking ID
Previously, if you implemented a strategy maintenance plan in SAP, the unit for scheduling period appeared incorrectly. This issue has been resolved.	DE115380

Calibration Management

Description	Tracking ID
Previously, after you upgraded the GE Digital APM database from V3 to V4, certain Calibration Events did not appear in the **Calibration Events** section. This issue has been resolved.	DE116429
Previously, after you upgraded the GE Digital APM database from V3 to V4, in the **Calibration Queue** section, the records that existed in the database before the upgrade did not appear, because the existing Calibration Templates were not directly linked to the Calibration Tasks. This issue has been resolved.	DE116427
Previously, after you upgraded the GE Digital APM database from V3 to V4, when you created a Calibration (Event) manually from a Calibration Task, saved the record, and then entered values for As Found or As Left in the **Calibration** section, the error percentages were not calculated. This issue has been resolved.	DE116426

Description	Tracking ID
Previously, after you upgraded the GE Digital APM database from V3 to V4, when you attempted to create a Calibration (Event) manually from a Calibration Task, an error message appeared. This issue has been resolved.	DE116421
Previously, when you added assets to a Calibration Profile, the Applied Profile that was thus created was in the Development state. The values in the Template State field was not copied to the Applied Profile from the Profile Template. This issue has been resolved.	DE116412

Failure Modes and Effects Analysis

Description	Tracking ID
Previously, when you attempted to promote a Recommendation that was created using the Failure Modes and Effects Analysis (FMEA) data loader, an error occurred. This issue has been resolved.	DE116212
Previously, you could not consolidate the Recommendations that were created using the Failure Modes and Effects Analysis (FMEA) data loader. This issue has been resolved.	DE116023

Manage Translations

Description	Tracking ID
Previously, when managing translations for a family field through the globe button ( ), in the window for the localization of the field, if you did not provide translation for all the languages, when you attempted to use the family in a query, an error occurred. This issue has been resolved.	DE115260

Inspection Management

Description	Tracking ID
Previously, when an inspection event was created for an asset for which the Inspection Profile records were defined and sequenced, and when the auto-generate findings for the selected inspection event family was enabled, the automatically created General Finding records were not arranged in the order of the values in the assigned Sequence field. This issue also existed in Inspection Field Data Collection when the inspection event was downloaded. The issue has been resolved. Now, when viewing an inspection event in Inspection Management or in Inspection Field Data Collection, the General Finding records are arranged in the order of the values in the assigned Sequence field. **Note:** If the Inspection Profile records do not contain a value in the Sequence field, or if the General Finding records have been manually created, the General Finding records are arranged in alphabetical order of the values in the Inspection Profile Item field.	DE115888
Previously, you could not print Inspection Reports in bulk if the Inspection ID contained special characters that were not supported by the Windows operating system in a file name. This issue has been resolved.	DE115279

Policy Designer

Description	Tracking ID
Previously, a policy that was configured to be triggered when an Entity was created or modified was intermittently not triggered when the trigger event occurred. This issue has been resolved.	• DE116926 • DE114823
Previously, an error message stating that the session had expired appeared periodically in the policy execution results. This issue has been resolved.	DE113039

Production Loss Analysis

Description	Tracking ID
Previously, the Event ID was automatically generated in the format <Event ID> ~ <Unique Sequence Number>. The format has been changed to <Unit Name> ~ <Headline> ~ <Unique Sequence Number>, so that you can add information from the Headline field.	DE116525
Previously, if you were assigned to the Production Loss Accounting Administrator Security Role and you attempted to remove the mapping between an Impact Code and an OEE Code, an error occurred if the mapping was used in a Production Loss record. This issue has been resolved.	DE115705
Previously, the State Management functionality was not activated even if you had enabled the State Management functionality. This issue has been resolved.	DE115597
Previously, if the values in the Product Name and Product Alias fields of a Production Profile were different in GE Digital APM or in the Production Loss Analysis (PLA) 1-Admin Data Loader, when you attempted to import Production Plans for the Production Profile using the Production Loss Analysis (PLA) 3-Plan Data Loader, the import job failed. This issue has been resolved.	DE115364
Previously, when reconciling production losses, you could not modify the estimated downtime value in the EDT field. This issue has been resolved.	DE115081
Previously, the list of active Products that appeared when creating or modifying Production Profiles, Plan Templates, and Production Plans were not sorted numerically. This issue has been resolved.	DE114902
Previously, when you attempted to create a Production Plan using a Plan Template, the Plan End Time was not automatically set based on the Plan Start Time. This issue has been resolved.	DE114901
Previously, when creating a Production Plan for a given Production Unit and start date, if another Production Plan already existed for the same Production Unit and start date, a warning message did not appear to indicate the possibility of creating a duplicate Production Plan. This issue has been resolved.	DE114900

Reliability Centered Maintenance

Description	Tracking ID
Previously, when you attempted to promote a Recommendation that was created using the Reliability Centered Maintenance (RCM) data loader, an error occurred. This issue has been resolved.	DE116212
Previously, you could not consolidate the Recommendations that were created using the Reliability Centered Maintenance (RCM) data loader. This issue has been resolved.	DE116023

Root Cause Analysis

Description	Tracking ID
Previously, if you had created a customized message using a custom rule, when you attempted to publish an RCA that was refrained from being published, the Internal Server Error message appeared, instead of the customized message. This issue has been resolved.	DE116153
Previously, when you attempted to link an asset to an Analysis, you could not find a list of Production Events associated with the Asset in the **Linked Events** section. This issue has been resolved. Now, you can find a list of events associated with the Asset and link them to the Analysis.	DE115273
Previously, when exporting the RCA Event Diagram to the SSRS Comprehensive Analysis Report, the resolution of large diagrams was poor when you zoomed in on them. This issue has been resolved.	DE113894

Rounds Data Collection

Description	Tracking ID
Previously, when you used the GE Digital APM mobile application to collect data, you could view a list of Routes that were not assigned to you. This issue has been resolved.	DE115280

Rounds Designer

Description	Tracking ID
Previously, while adding a reading for a Checkpoint with the character ML type and the allowable values defined, the **Reading Value Character** box appeared as a text box instead of a drop-down list box until the reading was created. When you attempted to modify the reading later, the **Reading Value Character** drop-down list box appeared with appropriate values. This issue has been resolved.	DE115524

Security Manager

Description	Tracking ID
Previously, you could access a Map query in the Maps tool only if you had one of the following privileges: • You were assigned to the MI Configuration Role Security Group. • You were a Super User. This issue has been resolved. Now, all the GE Digital APM users can access the Map queries in the Maps tool.	DE115905

Thickness Monitoring

Description	Tracking ID
To enhance the performance of the **Thickness Monitoring Analysis Overview** workspace, duplicate network calls have been removed.	DE115278
Previously, after collecting data using the DMS Go+ device, if the **Send** button was held for more than two seconds, the device would also store an A-Scan reading. In addition, the APM Thickness Monitoring Datalogger could not process the file containing an A-Scan or display the readings. These issues have been resolved. **Note:** GE Digital APM Thickness Monitoring does not store the A-Scan data stored on the device. You must upgrade Meridium Device Service application to the latest version.	DE114988

SAP Adapters

Description	Tracking ID
Previously, when using multiple culture extraction from SAP, the numbering format changed for some numbers, resulting in abnormally large numbers loading to GE Digital APM. This has been corrected.	DE115517

V4.3.0.7.6

This topic provides a list of product changes included in this patch.

Asset Strategy Management

Description	Tracking ID
Previously, the financial risk in the Risk Matrix was incorrectly calculated for users whose culture setting was not English. This issue has been resolved.	DE114328
Previously, in the **Strategy Details** page, in the **Risk Analysis** section, the **COST PROJECTION** chart was plotted with incorrect values for users whose culture setting was not English. This issue has been resolved.	DE113713

Data Loaders

Description	Tracking ID
Previously, when you attempted to import large analyses using the following data loaders, the operation exceeded the timeout period, causing the import process to fail. • Reliability Centered Maintenance (RCM) • Failure Modes and Effects Analysis (FMEA) This issue has been resolved.	DE113340

Queries

Description	Tracking ID
Previously, if conditions were defined for a query, and if you attempted to add a condition in the **Or** row of the **Conditions** section, an error occurred. This issue has been resolved.	DE112501

RBI 580 and RBI 581

Description	Tracking ID
Previously, when you applied a Criticality RBI Component – Cylindrical Shell component that contained the value Storage Tank in the **Component Type** box, an error message appeared. This issue has been resolved.	DE113179

RBI 581

Description	Tracking ID
Previously, the formula for calculating the Expected Metal Loss Fraction (Art) for components with or without cladding or weld overlay did not adhere to API RBI 3rd Edition Addendum 1. This issue has been resolved.	DE113180
Previously, irrespective of the Unit of Measure (UOM) Conversion Set configured for your user account, the Consequence of Failure and Risk Values on the RBI 581 ISO-Risk Plot appeared in imperial units. This issue has been resolved.	DE113033

Root Cause Analysis

Description	Tracking ID
Previously, if the user account of a Security User who was a member of the RCA team was inactive, the remaining members of the RCA team could not create a Recommendation. This issue has been resolved.	DE113568

Rounds Designer

Description	Tracking ID
Previously, when you used the Rounds Routes Data Loader to import Routes that contained Checkpoint Tasks, the schedules were not populated correctly. This issue has been resolved. **Note:** To fix this issue for Routes that were imported in a previous version, complete the data in the MI_CP_TASK0 worksheet, and then reimport the Routes.	DE113012

Thickness Monitoring

Description	Tracking ID
Previously, when you calculated an analysis for an asset, you could not perform any other operation while the calculation was in progress. This issue has been resolved. Now, you can close the window that displays the progress of calculation, and perform other operations while the calculation continues in the back end. You can view the calculation details from the scheduler window.	DE113183

Units of Measure and Conversions

Description	Tracking ID
Previously, in the UoM field, when you searched for a converted value, the search was applied on the original UoM data instead of the converted value in a query result. In addition, the issue data was not filtered correctly. This issue has been resolved. Now, the search on the UoM field works according to the User conversion set.	DE113353

V4.3.0.7.5

This topic provides a list of product changes included in this patch.

APM Connect

Table 454: Enhancements and New Features

Description	Tracking ID
APM Connect now supports UDLP V2.6.1. The data loader framework in UDLP V2.6.1 is compatible with GE Digital APM V4.3.0.7.5.	US354669
The automatic data loaders are now supported in APM Now. Using these data loaders, you can automatically import data into GE Digital APM.	US354406
The SAP Equipment and Functional Location technical characteristics are now supported for multiple language data extraction.	US351143

Table 455: Resolved Issues

Description	Tracking ID
Previously, when using automatic data loaders, if multiple records were imported at the same time, sometimes, a few records were skipped. This issue has been resolved.	DE111514
Previously, Apache Karaf crashed in the cloud environment because of the way the APM Connect data loader job handled the conversion of the .xlsx file to a .csv file. This issue has been resolved. Now, the .xlsx file is converted to a .csv file before it is sent to Apache Karaf.	DE111512
Previously, when using automatic data loaders, an error message appeared although the records were imported successfully. This issue has been resolved.	DE111339

Description	Tracking ID
Previously, the Planned Work and Work Management Interface integration did not allow filtering by Maintenance Plant. This has been resolved. You can now use Maintenance Plant as a filter for Planned Work and Work Management Interface.	DE110851
Previously, if the connection between the PDI service and the OPC servers was lost for longer than the restart wait time (as configured in the ServiceRestartDelay parameter in the PDI configuration file), the connection was not restored. This issue has been resolved.	DE110733

Family Policies

Description	Tracking ID
Previously, in the **Properties** window for a Create Entity node, if you specified values for more than two fields of the new entity, and then saved the policy, when you reloaded the policy, sometimes the values of only the first two fields were retained. This issue has been resolved.	DE111238
Previously, when you attempted to modify a record that triggered an After Update family policy containing a Baseline Rule node, and if the baseline rule configured for the Baseline Rule node updated the same record that triggered the policy, a time-out error occurred and the record was not modified. This issue has been resolved.	DE110458
Previously, when a vector output of an R Script returned only one value during the execution or validation of a policy, an error occurred. This issue has been resolved.	DE110279

Policy Designer

Description	Tracking ID
Previously, in the **Properties** window for a Create Entity node, if you specified values for more than two fields of the new entity, and then saved the policy, when you reloaded the policy, sometimes the values of only the first two fields were retained. This issue has been resolved.	DE111238
Previously, when a vector output of an R Script returned only one value during the execution or validation of a policy, an error occurred. This issue has been resolved.	DE110279

Reliability Analytics

Description	Tracking ID
Previously, in System Reliability, you could not run a simulation for a System Analysis with frequent failures in risks or with a value in the Last Failure field. An error message appeared, stating that the p parameter must contain a value between zero and one. This issue has been resolved.	DE110846

Rounds Data Collection

Description	Tracking ID
Previously, while using the GE Digital APM mobile application to collect data, you could not scan bar codes that were longer than 11 characters. This issue has been resolved. Now, you can scan bar codes that have a length of up to 20 characters.	DE110128

SAP and SAP PI UDLP V2.7.0

Description	Tracking ID
Previously, GE Digital APM created placeholder records for assets that did not exist when a Work History record was loaded. Now, the system does not create the placeholder records, but logs such records as 'Work History records need to be reprocessed'.	US347758
Previously, Maintenance Plan records without Task Lists or Operation Objects were not discontinued by the Work Management Adapter. Now, the adapter correctly discontinues the Maintenance Plan records.	DE105578
Previously, Inspection Task records with long text that exceeded 1,000 characters created long text in SAP with invalid characters in the format field. Now, the format field contains valid characters.	DE105547
Previously, the system incorrectly mapped MI_REC_TARGE_COMPL_DATE_DT entity to Target Completion Date in SAP. This resulted in failed creation of Notification records. Now, the system maps the MI_REC_TARGE_COMPL_DATE_DT entity to the correct date, resulting in the successful creation of a Notification record.	DE105459
Previously, SAP PI source files were not deleted from the shared folder. Now, the system deletes these files.	DE79645

V4.3.0.7.4

This topic provides a list of product changes included in this patch.

Activate Licenses

Description	Tracking ID
Previously, when you activated a license, you had to manually take the data source to which you applied the license offline, and then bring it back online. Now, after activating the license, you must log off from GE Digital APM and log in again.	DE109678

APM Data Extraction

Description	Tracking ID
Previously, when you tried to fetch navigation (relationship) property data using a property request call, the service returned an HTTP 404 error. This issue has been resolved.	DE109958

Asset Health Manager

Description	Tracking ID
Previously, in the **<Asset Name>** workspace, links for Asset Health Manager did not appear. Additionally, when you accessed the **Health Summary** page, the page loaded slowly, and error messages appeared. This issue has been resolved.	DE108371
Performance in the **Risks** section of the **Health Summary** page has been significantly improved.	US338922

Asset Strategy Implementation

Description	Tracking ID
To enhance performance and scalability, in ASI, the implement package operation has been converted to a job.	US348194
To enhance usability, in the **ASI Package** workspace, importing a task list is now a background operation.	US348193
To enhance usability, in the **ASI Overview** page, performance when loading large implementation packages has been improved.	US348192

Calibration Management

Description	Tracking ID
Previously, when CalibDeviceMappingsUpgradeUtility was run to upgrade to 4.3.0.0.0 or later for replacing the old Device Mapping IDs with the new Device Mapping IDs on all the existing templates, an error occurred. Due to this, you could not perform calibration on the old templates using Fluke calibrator. This issue has been resolved. **Note:** The upgrade was required only if you wanted to use the Fluke documenting process calibrator.	DE109864

Data Loaders

Description	Tracking ID
Previously, in a cloud environment, when you tried to load a .zip file containing .csv files using the Data Loader interface, the load intermittently failed with the message `access denied`. Now, the files load without errors.	DE109151

Failure Modes and Effects Analysis (FMEA)

Description	Tracking ID
Previously, the user experienced database errors when using FMEA data loaders under certain conditions. This issue has been resolved. Now, the incremental save feature has been added to these data loaders.	DE109688

Family Policies

Table 456: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The messages written in the server logs by the Policy Execution Service and Policy Trigger Service are now more specific to the logging levels.	US347947

Table 457: Resolved Issues

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

Description	Tracking ID
Previously, when the job configured to delete the execution history logs ran, the following issues intermittently occurred: • The old Execution History records were not deleted. • The policy execution transactions were reverted because the Execution History table of the database was locked by the job. This resulted in the execution failure of policies while the job was in progress. These issues have been resolved.	• DE106869 • DE101822

Inspection Management

Description	Tracking ID
A new Human Resource role, Contract Inspector, is now available. A Contract Inspector can modify the Inspection Document Status field in Inspection records to Pending Approval without being the user defined in the Inspection Report Owner field if they are a Team Member in the associated Inspection record.	US346807
Using the Inspection Management (IM) Assets and Inspection Management (IM) Functional Location data loaders, a Contract Inspector who is a Team Member in the associated Inspection record can now modify the Status field to Pending Approval without being the user defined in the Inspection Report Owner field.	US346807
If you are using Status to manage your Inspection Recommendation records and you are a Team Member in the associated Inspection record, you can now transition the Inspection Recommendation to the Pending Review status without being the user defined in the Author field.	US346807
Previously, the Inspection Lock field was disabled unless you were the Inspection Report Owner. This field is now enabled if you are a Team Member in the associated Inspection record.	US346807

Policy Designer

Table 458: Enhancements and New Features

The following enhancements and new features have been added.

Description	Tracking ID
The messages written in the server logs by the Policy Execution Service and Policy Trigger Service are now more specific to the logging levels.	US347947

Table 459: Resolved Issues

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

Description	Tracking ID
Previously, if you copied and renamed an Input node of the policy model, and then saved the policy, the following issues occurred until you reloaded the policy: • The renamed node did not appear in the instances associated with the policy. • All instances associated with the policy were deactivated due to which the policy was not executed. • The validation of the policy failed with an error message, indicating that you had not specified any record for the new Input node. These issues have been resolved.	DE109329
Previously, when the job configured to delete the execution history logs ran, the following issues intermittently occurred: • The old Execution History records were not deleted. • The policy execution transactions were reverted because the Execution History table of the database was locked by the job. This resulted in the execution failure of policies while the job was in progress. These issues have been resolved.	• DE106869 • DE101822

Risk Based Inspection (RBI) 580

Description	Tracking ID

Previously, in the Criticality Consequence Evaluation datasheet, two required fields for Heat Exchanger Bundles, Flammable Leak Type and Toxic Leak Type, did not have the Not Applicable (N/A) option in their respective drop-down list boxes. This issue has been resolved.
 	
Additionally, the following validation changes have been made:
 	
• The Flammable Leak Type field is required irrespective of the governing representative fluid type.
• The Toxic Leak Type field is required in the following scenarios:
  ◦ If the Governing or Leaking fluid is toxic.
  ◦ If the Governing or Leaking fluid contains a toxic mixture.
	DE109171

RBI 581

Description	Tracking ID
Previously, you could not create a Quantitative (581) analysis if the logged in user culture was Russian. This issue has been resolved.	DE109168

Reliability Analytics

Description	Tracking ID
Previously, in the **Failure Probability** workspace, if you selected **Future Probability** and then entered a value in the **Set Future Probability** window, the value in the **Future Failure Probability** column was not correctly updated. This issue has been resolved.	DE109848

Reliability Centered Maintenance (RCM)

Description	Tracking ID
Previously, the apply template builder took a long time to load when the template was complex. This issue has been resolved. Now, when creating an analysis from a template, the **Apply Template Builder** window loads more quickly.	DE109690
Previously, the user experienced database errors when using RCM data loaders under certain conditions. This issue has been resolved. Now, the incremental save feature has been added to these data loaders.	DE109688

Root Cause Analysis

Description	Tracking ID
Previously, when you created an RCA for a Production Event from the Production Loss Analysis (PLA) module, in the **Analysis Summary** workspace, in the **Linked Assets** section, the Causing Asset associated with the Production Event did not appear in the **Record ID** column. This issue has been resolved.	DE109585

Rounds Designer

Description	Tracking ID
Previously, when creating a Checkpoint condition, you could not enter a value in the **Select Value** box when an allowable value was not defined. This issue has been resolved.	DE108709

Rules

Description	Tracking ID
You can now compile only the family rules that you added or modified, instead of compiling all the family rules in a rules library project. To facilitate this enhancement, the data source ID is now used instead of GUID. This enhancement also resolves possible errors when compiling rules with references to other rule projects. **Note:** You must compile all the family rules only if you modify the data source ID.	US352396

V4.3.0.7.3

This topic provides a list of product changes included in this patch.

Asset Strategy Management

Description	Tracking ID
Previously, in the **Risks and Actions** page, if you attempted to consolidate RCM or FMEA actions, the process timed out.	DE108490

Calibration Management

Description	Tracking ID
Previously, in a calibrator, if you entered the name of a user who was not a member of the MI Calibration Administrator or MI Calibration User Security Group, and tried to receive data from a calibrator, although you received the data, instead of an error message, a blank screen appeared. This issue has been resolved.	DE108620
Previously, after receiving multiple records from a calibrator, if you did not save all the records that were received, the values for the saved records were always picked from the first record in the list. This issue has been resolved.	DE108612
Previously, if you sent data to a Fluke calibrator, and performed a calibration using a Calibration Template, Analog or Calibration Template, Discrete record with the input UOM set to Degrees Celsius (DEG C), an error occurred. This issue has been resolved.	DE108500

Rounds Data Collection

Description	Tracking ID
Previously, while disconnected from a network, if you created a recommendation for a Route, the time stamp of the recommendation displayed the time at which your device reconnected to a network, not the time at which the recommendation was created.	DE108482
Previously, if you created an Operator Rounds Recommendation record without the **Create Work Request?** check box selected, and then selected that check box later when updating the recommendation, the work request was entered into your SAP system, but the recommendation was not updated with the data of the work request.	DE108362

Rounds Designer

Description	Tracking ID
Previously, if you created a Route using the Rounds Route Data Loader, the Route sequence did not load as expected.	DE108351

V4.3.0.7.2

This topic provides a list of product changes included in this patch.

Asset Health Manager

Description	Tracking ID
Previously, because time stamp values for health indicator readings were truncated, health indicator readings were sometimes duplicated, and sometimes health indicators erroneously appeared to be out of sync. This issue has been resolved.	DE106890
Previously, in the **Health Summary** page, sometimes a No Status icon () erroneously appeared next to health indicators that had a valid status. This issue has been resolved.	DE106606
Previously, if you specified that you wanted to store zero readings in the GE Digital APM database, the PDI service stored a reading and then deleted it, which caused performance degradation. This issue has been resolved. Now, the PDI service no longer adds and deletes extraneous readings, and, as a result, database performance is significantly improved.	DE107755

Asset Hierarchy

Description	Tracking ID
Previously, in the **Group** section of the **Asset Finder** window, when you attempted to add a group of assets, an error occurred. This issue has been resolved.	DE107347

Catalog

Description	Tracking ID
Previously, after you upgraded an Oracle data source, certain custom folders did not appear in the catalog under **Public > Meridium**. This issue has been resolved.	DE106796

Family Policies

Description	Tracking ID
Previously, in the **Properties** window for a Math node, when you specified the names of some variables, an error message appeared in the notification bar, indicating a conflict between variable names, even when there was no apparent conflict in the specified names. This issue occurred when two variable names contained the same string and one of them contained an underscore or numeric value after the string. This issue has been resolved. Now, in these scenarios, the following events occur: • If one of the variable names contains an underscore after the string, no notification appears in the notification bar. • If one of the variable names contains a numeric value after the string and if there is a possibility of conflict between the variable names during the execution of the policy, a warning appears in the notification bar.	DE107317
Previously, in the **Properties** window for a Create Entity node, in the **Value** box, if you specified a value which is same as the default value of the corresponding field, the execution of the policy failed, and an error message appeared in the **Node Execution Details** window for the node, indicating that the index size is incorrect. This issue has been resolved.	DE106599

Graphs

Description	Tracking ID
Previously, hyperlinks in a heat map did not work as expected. This issue has been resolved.	DE106778

Policy Designer

Description	Tracking ID
Previously, when you started the Policy Execution Service or Policy Trigger Service, if the Microsoft Message Queuing (MSMQ) stopped responding or could not be accessed, the service failed to start. This issue has been resolved.	US341549
Previously, in the **Properties** window for a Math node, when you specified the names of some variables, an error message appeared in the notification bar, indicating a conflict between variable names, even when there was no apparent conflict in the specified names. This issue occurred when two variable names contained the same string and one of them contained an underscore or numeric value after the string. This issue has been resolved. Now, in these scenarios, the following events occur: • If one of the variable names contains an underscore after the string, no notification appears in the notification bar. • If one of the variable names contains a numeric value after the string and if there is a possibility of conflict between the variable names during the execution of the policy, a warning appears in the notification bar.	DE107317
Previously, in the **Properties** window for a Create Entity node, in the **Value** box, if you specified a value which is same as the default value of the corresponding field, the execution of the policy failed, and an error message appeared in the **Node Execution Details** window for the node, indicating that the index size is incorrect. This issue has been resolved.	DE106599

Reliability Analytics

Description	Tracking ID
Previously, when running a simulation on a complex analysis with a large number of buffer components in System Reliability, the simulation did not complete.	DE106782

Rounds Data Collection

Description	Tracking ID
Previously, when attempting to create an Operator Rounds Recommendation, if you selected the **Create EAM Work Request?** check box prior to saving the Recommendation, an error occurred, and the Recommendation record would not be created.	DE105520

Rounds Designer

Description	Tracking ID
Previously, if you attempted to use a data loader to add a checkpoint to a Route, the sequence of existing checkpoints on the Route was unintentionally modified.	DE106752
Previously, loading a small number of records using the Rounds Routes Data Loader would occasionally result in timeout errors.	DE106749
Previously, if you attempted to move a checkpoint node by dragging and dropping it into a heading, an error occurred.	DE106403

Schedule Logs

Description	Tracking ID
Previously, a policy was not executed as per schedule until you updated the policy, if the following changes had been made to the GE Digital APM database that contained the policy: • The GE Digital APM database had been restored and connected to another data source. • The GE Digital APM server associated with the GE Digital APM database had been restarted. This issue has been resolved.	DE102150

Thickness Monitoring

Description	Tracking ID
Previously, if you used the TM Equipment or TM Functional Location data loaders to load data that consisted only of measurements, the **Analysis Required** check box in the TML Corrosion Analysis datasheet was not selected, and the Calculate button ( ) did not turn orange. If you tried to calculate the analysis, the newly loaded measurements were not included in the calculation. This issue has been resolved. Now, when you load measurements, the **Analysis Required** check box is selected, and the Calculate button ( ) turns orange, indicating the analysis is ready to be calculated. When you calculate the analysis, the newly loaded measurements are included in the calculation. Also, the affected assets are available in the **Assets Requiring a Calculation** section of the **Thickness Monitoring Overview** page, ready for bulk calculation.	DE106600