



# European Inspection Management



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# Chapter 1

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## Overview

### Topics:

- [About European Inspection Management](#)

## About European Inspection Management

In Germany, inspections of pressure-containing assets are regulated by the industrial safety regulation (**BetrSichV**). The aim of this regulation is to guarantee the protection of employees' health and safety when using work equipment. With this module, GE Digital APM will provide a solution to help categorize the inspection activities according to Government Regulation based on pressure, volume, and fluid characteristics. According to this categorization, Compliance Management module of GE Digital APM can recommend applicable inspection task types along with recommended interval based on each asset type. This module will also help you identify the certification requirements of Inspectors. For example, ZÜS (Approved Inspection Body) and bP (Qualified Person) based on the criticality of the asset.

This functionality is fully integrated with Compliance Management module and Inspection Management module.

# Chapter 2

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## Configuration

### Topics:

- [About Configuring European Inspection Management](#)
- [Create Fluid Records](#)
- [Add Fluid Data](#)
- [Assign Assets to European Compliance Strategy Template](#)
- [Create Inspection Summary Reference Records](#)

## About Configuring European Inspection Management

As an administrator, you must configure the following before an Inspector uses the data to create an inspection plan for an asset:


- [Create Fluid Records](#)
- [Add Fluid Data](#)
- [Assign Assets to European Compliance Strategy Template](#)

## Create Fluid Records

### About This Task

To create process fluid data in Fluid Data family, the fluid name must exist in the Integrity Fluid Name System Code Table. For more information on System Code Tables, refer to the System Codes and Tables documentation.

### Procedure

1. [Access the System Codes and Tables page.](#)
2. From the System Tables section, select **Integrity Fluid Name**.  
The details of the Integrity Fluid Name table appears.
3. In the **System Code** subsection, select .  
The **Create System Code** window appears.
4. In the **ID** box, enter the ID for the fluid.  
**Note:** The ID must be unique and must not be greater than 50 characters in length.
5. In the **Description** box, provide a description for the fluid.  
**Note:** The description must not exceed 255 characters in length.
6. Select one or more of the following options:
  - **Default:** Select the check box if you want this fluid to be the default fluid for the Integrity Fluid Name System Code Table.
  - **Active:** Select the check box if you want the System Code to be active.
7. Select **Save**.  
The new fluid is added and appears in the **System Code** subsection.

### Next Steps

After you create the System Code for a fluid, do the following.

- Log out of the application and log back in, as the newly added fluid may not appear in the Fluid Data datasheet due to caching.
- [Add Fluid Data to the fluid record.](#)



# Add Fluid Data

## Before You Begin

Ensure that the fluid, for which you want to add the fluid properties, is created in the Integrity Fluid Name System Code Table. For more information, refer to the [Create Fluid Records](#) on page 4 topic.

## About This Task

Now, you must add fluid properties for the new fluid added using Record Manager. For more information on Record Manager, refer to the Record Manager documentation. Based on the properties that you define, a group is assigned to the fluid. For more information on the fluid group assignment, refer to [Table F of Annexure - 1](#).


## Procedure

1. Using Record Manager, create a record in the Fluid Data family.  
The Fluid Data datasheet appears.

The screenshot shows the 'Record Manager' interface. At the top, there is a navigation bar with icons for home, a tree view, and a 'Record Manager' tab. Below the navigation bar, the 'Datasheet ID' is set to 'Fluid Data'. To the right, the 'Site' is 'Roanoke, VA'. The main form area is titled 'New Record' and contains several input fields: 'Name' (a dropdown menu), 'Description' (a text input field), 'Type' (a dropdown menu), 'Category' (a dropdown menu), 'Flash Point' (a numeric input field), 'Maximum Permissible Temperature' (a numeric input field), and 'Group' (a dropdown menu).

2. Enter values in the [available fields](#).  
Based on the values, a group is assigned to the fluid.

**Note:** If required, you can change the default group assigned to the fluid.

3. Select .  
The fluid properties are added to the fluid record.

# Assign Assets to European Compliance Strategy Template

## About This Task

GE Digital APM provides eight Compliance Strategy Templates for the European Inspection Compliance. Each Compliance Strategy Template is linked to a policy that enables recommendation generation based on certain guidelines. You can assign assets to the European Inspection Compliance Strategy Templates. After the assets are linked to the compliance strategy templates, Inspection Plans can be created by the MI Compliance Analyst or the MI Compliance Approver. When the Inspection Plan creation is initiated, the policy selected in the Compliance Strategy Template is executed against the assets that are linked to the

template. Creating Inspection plans for assets also generates recommendations according to the guidelines specified in the policy. When an asset is linked to multiple Compliance Strategy Templates, the policy for each template executes, and the generated recommendations are linked to the Inspection Plan and the asset.

## Procedure

1. Access the administrative features of Compliance Management.

The **Compliance Strategy Templates** page appears, displaying all the available Compliance Strategy Templates.

|                          | CATEGORY | NAME             | DESCRIPTION   | POLICY                  |
|--------------------------|----------|------------------|---|-------------------------|
| <input type="checkbox"/> | API      | API 570 FL       |   | API 570 Compliance - FL |
| <input type="checkbox"/> | API 653  | API 653 Strategy |   | API 653 Compliance      |
| <input type="checkbox"/> | API510   | API 510 Strategy |   | API 510 Compliance      |
| <input type="checkbox"/> | API510   | API 510 FL       |   | API 510 Compliance - FL |
| <input type="checkbox"/> | API570   | API 570          |   | API 570 Compliance      |
| <input type="checkbox"/> | API574   | API 574 Strategy |   | API RP 574 Compliance   |
| <input type="checkbox"/> | EU       | EU_PIPE_FL       | Template for Piping for Functional Location                 | EU_PIPE_FLOC            |
| <input type="checkbox"/> | EU       | EU_PIPE_EQ       | Template for Piping Equipment                               | EU_PIPE_EQPT            |
| <input type="checkbox"/> | EU       | EU_SB_FL         | Template for Steam Boiler for Functional Location           | EU_SB_FLOC              |
| <input type="checkbox"/> | EU       | EU_SPV_FL        | Template for Simple Pressure Vessel for Functional Location | EU_SPV_FLOC             |
| <input type="checkbox"/> | EU       | EU_PV_EQ         | Template for Pressure Vessel Equipment                      | EU_PV_EQPT              |
| <input type="checkbox"/> | EU       | EU_SPV_EQ        | Template for Simple Pressure Vessel Equipment               | EU_SPV_EQPT             |
| <input type="checkbox"/> | EU       | EU_PV_FL         | Template for Pressure Vessel for Functional Location        | EU_PV_FLOC              |
| <input type="checkbox"/> | EU       | EU_SB_EQ         | Template for Steam Boiler Equipment                         | EU_SB_EQPT              |

2. Select one of the following Compliance Strategy Templates:

- **EU\_PIPE\_FL**: Template for Piping for Functional Location
- **EU\_PIPE\_EQ**: Template for Piping Equipment
- **EU\_SB\_FL**: Template for Steam Boiler for Functional Location
- **EU\_SPV\_FL**: Template for Simple Pressure Vessel for Functional Location
- **EU\_PV\_EQ**: Template for Pressure Vessel Equipment
- **EU\_SPV\_EQ**: Template for Simple Pressure Vessel Equipment
- **EU\_PV\_FL**: Template for Pressure Vessel for Functional Location
- **EU\_SB\_EQ**: Template for Steam Boiler Equipment

The Compliance Strategy Template datasheet appears, displaying the **Template Details** section.

EU\_PIPE\_FL

**Template Details** Assets Policy Mapping

Datasheet ID: Compliance Strategy Template

Category: EU

Policy: EU\_PIPE\_FLOC

Asset Lookup Query: Public\Meridium\Modules\Inspection\Compliance\EU Regulation\Queries\EU\_Available\_Assets\_

Description: Template for Piping for Functional Location

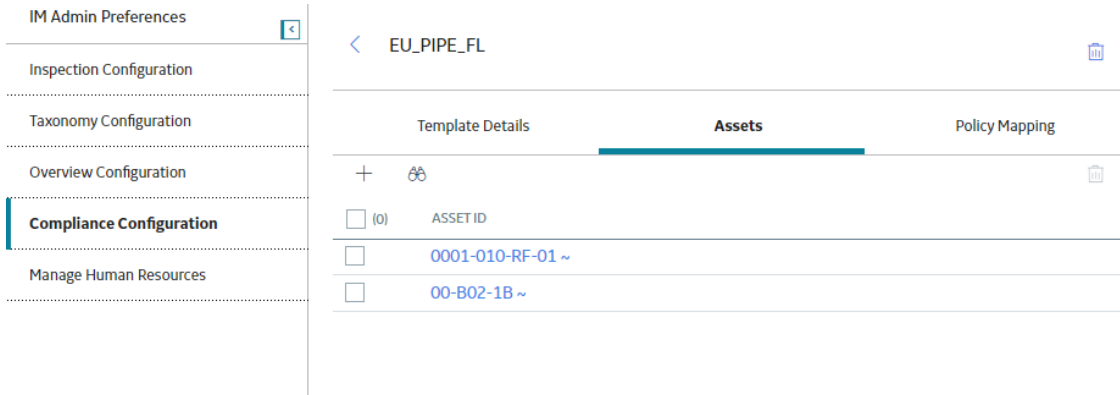
Name: EU\_PIPE\_FL

Policy Link: View Policy


Asset Family: Functional Location

3. Select the **Assets** tab.

The **Assets** section appears, displaying a list of assets associated with the selected Compliance Strategy Template.



4. In the **Assets** section, select , and then select one of the options listed in the following table:

| Options                      | Subsequent steps to be performed   |
|------------------------------|--|
| <b>Add Assets via Query</b>  | <p>a. In the <b>Add Assets to &lt;Asset ID&gt;</b> window, next to each query that you want to use to search for assets to add to the Compliance Strategy Template, select the check box, and then select <b>Next</b>.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>After you select the first query and assets, the query that you selected is stored in the Asset Lookup Query field of the Compliance Strategy Template record. Subsequent uses of the Add Asset via Query tool will use the previously selected query by default. Additionally, the results of this query are used in the <b>Assets without Templates</b> section of the <b>Compliance Management Overview</b> page. To use a different query in the Add Asset via Query tool, select <b>Previous</b>, and then select a query from the catalog.</li> <li>When you use a query to select assets, one of the output fields of the query must be the entity key for an asset. The field in the query must be named ASSET_ENTY_KEY.</li> <li>If you have already added assets to the Compliance Strategy Template, you can filter the query results using a WHERE parameter; the entity key of the template must be TEMP_ENTY_KEY.</li> </ul> <p>The <b>Select Assets</b> section appears, displaying the results of the query that you selected.</p> <p>b. In the <b>Select Assets</b> section, next to each asset that you want to add, select the check box.</p> <p>c. Select <b>Finish</b>.</p> |
| <b>Add Assets via Finder</b> | <p>a. In the <b>Hierarchy Finder</b> window, navigate to the asset that you want to add.</p> <p>b. Next to each asset that you want to add to the Compliance Strategy Template, select the .</p>  |

**Options**      **Subsequent steps to be performed**

### Hierarchy Finder

Filter

Home > 0001-010... Line 10

0001-010-RF-01 ~

▶ 0001-010-RF-01 ~ RFID enabled Packaging Line 10

00-B ~ +

00-B01 ~

00-B01-1 ~

0001-010-RF-01 ~ ✕ | 00-B01-2 ~ ✕

Cancel
OK

The selected assets appear in the **Hierarchy Finder** window.

c. Select **OK**.

The selected assets appear in the **Assets** section.

**Important:**

- When you select assets to add, you must select assets that are in the same family as the defined asset family for the template. Additionally, you cannot add the same asset more than once.
- When you are adding assets to the Compliance Strategy Template, the assets listed in the Hierarchy Finder and the queries listed are site filtered.

**Tip:** If one or more assets cannot be added to the Compliance Strategy Template, an error message will appear. You can select the error to view a list of assets that were not successfully added to the template.

# Create Inspection Summary Reference Records

## About This Task


Inspection Summary Reference records are used to auto populate Inspection Summary field value for Inspection Event record using data from Inspection Summary Reference records. Inspection Summary Reference records can be added using Record Manager.

## Procedure

1. [Access Record Manager](#), select **Inspection Summary Reference** from the list. The Inspection Summary Reference datasheet appears.

The screenshot shows the 'Record Manager' interface. At the top, there is a navigation bar with icons for home, a tree view, and a search icon. Below the navigation bar, the 'Record Manager' title is visible. The main area is titled 'New Record' and contains a form for creating a new record. The form has the following fields:

- Datasheet ID:** A dropdown menu with 'Inspection Summary Reference' selected.
- Site:** A location pin icon followed by the text 'Roanoke, VA'.
- Inspection Category:** A dropdown menu with 'Test Certificate by ZUS' selected.
- Inspection Instruction:** A dropdown menu with 'Inspection Report' selected.
- Inspection Summary:** A text area containing the text: 'Carry out inspection of an asset as per ZUS certification. Compliance shall be ensured for the selected task. Perform Inspection activities defined in Inspection task and ensure complete coverage.'

2. In the datasheet, select or enter appropriate values in the [available fields](#).
3. Select . The Inspection Summary Reference record is created.

# Chapter

# 3

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## Workflow

### Topics:

- [European Inspection Management Workflow](#)
- [Identify an Asset](#)
- [View or Modify Asset Technical Data](#)
- [Apply Suggested Compliance Strategy Templates for an Asset](#)
- [Create an Inspection Plan from the Compliance Management Overview Page](#)
- [Approve an Inspection Plan](#)
- [Implement an Inspection Plan](#)
- [Manage Inspection Tasks](#)
- [Reschedule an Inspection Task](#)
- [Manage Inspection Events](#)

# European Inspection Management Workflow

## About This Task

This workflow provides the basic, high-level steps for using European Inspection Management. The steps and links provided in the workflow do not necessarily reference every possible procedure.

## Procedure

1. [Identify an Asset](#)
2. [View or Modify Asset Technical Data](#)
3. [Apply the Suggested Compliance Strategy templates for an Asset](#)
4. [Create an Inspection Plan](#)
5. [Approve an Inspection Plan](#)
6. [Implement an Inspection Plan](#)
7. [Manage Inspection Tasks](#) on page 24
8. [Reschedule an Inspection Task](#) on page 26
9. [Manage Inspection Events](#) on page 28

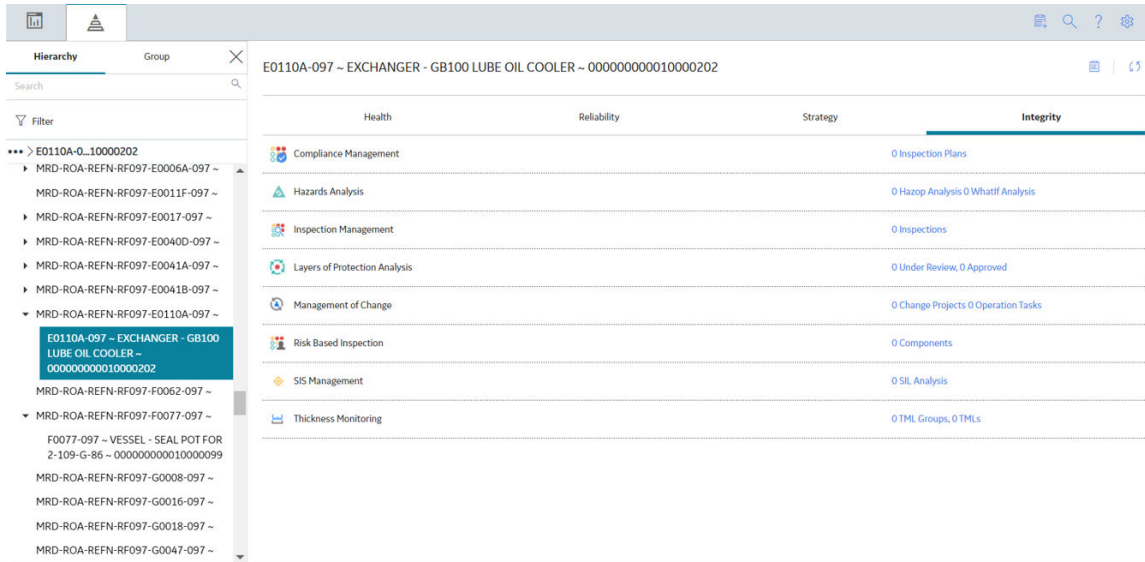
## Identify an Asset

This topic describes how to identify the certification requirements for the inspectors based on the criticality of the assets.

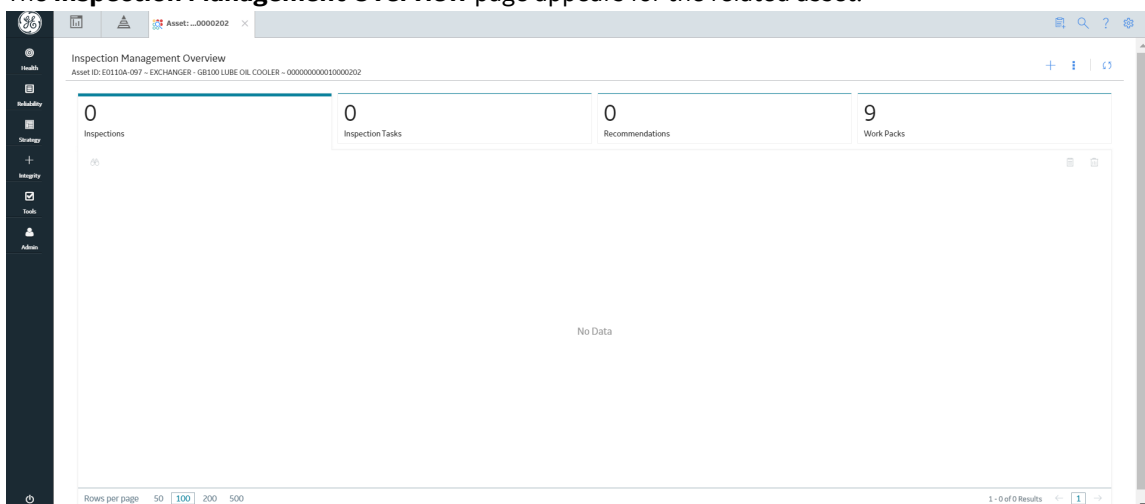
## Procedure

1. [Access the \*\*Assets\*\* page.](#)  
The Asset Hierarchy appears in the **Assets** page.
2. In the **Hierarchy** section, in the Search box, enter the Asset ID for which you want to create or edit Asset Technical Data, and then press Enter.  
The asset appears in the **Hierarchy** section.
3. Select the Integrity tab, and then select **Inspection Assets** for Inspection Management to view and edit the Inspection Management Overview page for the related asset.

**Note:** For better workflow walkthrough, we are using asset E0110A-097 from Asset Hierarchy as an example. The steps in the below workflow are based on the E0110A-097 asset.




4. In the **Integrity** tab, no inspections appear for the selected asset. The image shows, 0 Inspection.
5. Select the link on the **0 Inspections**.  
The **Inspection Management Overview** page appears for the related asset.



## View or Modify Asset Technical Data

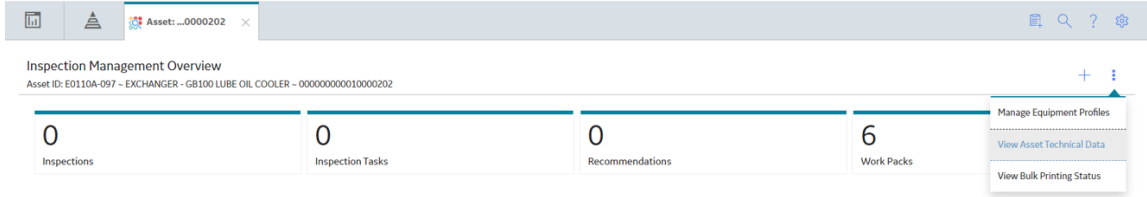
This topic describes how to view or modify the Asset Technical Data to determine the certification requirements of the inspectors based on the criticality of the assets.

### Procedure

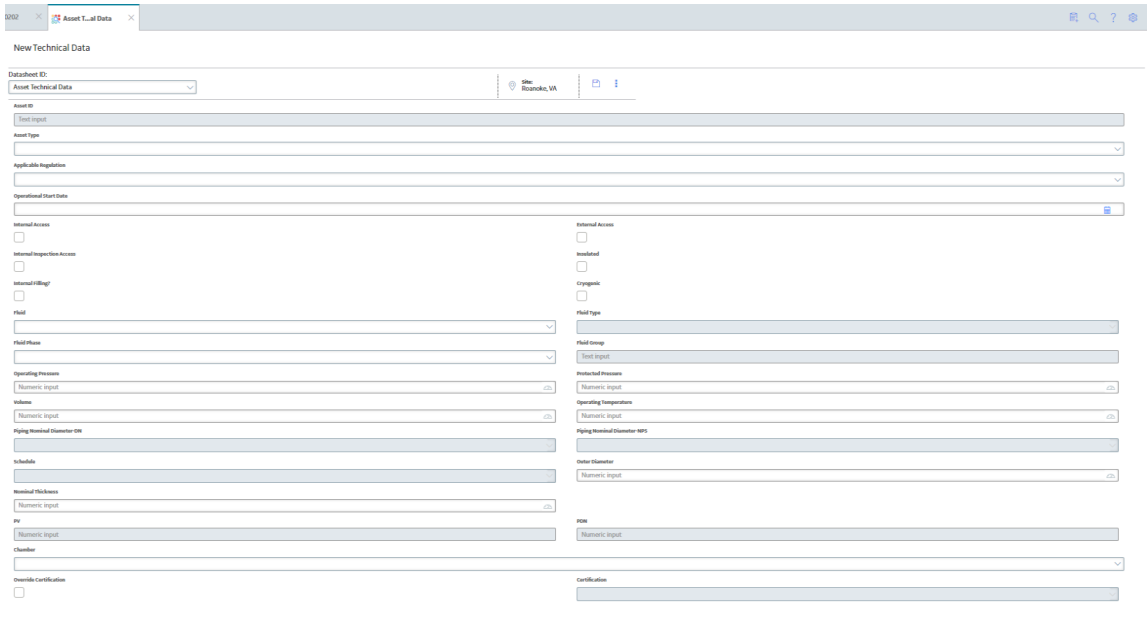
1. Access the **Inspection Management Overview** page.
2. Select  and then select **View Asset Technical Data**.  
The Asset Technical Data pane appears, displaying the assets and the related families for Asset Technical Data and NR13 Technical Data.

**Note:** All the families for an asset are displayed in the **Has Technical Data** relationship family.





3. To modify a record for Asset Technical Data or NR13 Technical Data, select the related asset from the Technical Data pane.
4. To add a new Asset Technical Data datasheet, select **+**, and then select the Asset Technical Data from the list displayed. A blank Asset Technical Data datasheet for the selected asset appears.



5. As needed, enter values in the available fields. Based on the fields entered in the datasheet, the certification field is calculated.

### Example

#### Example: Identify certification requirement for a Pressure Vessel

In this example, two records in Asset Technical Data family are created for the Shell Chamber and the Tube Chamber for the Pressure Vessel asset.

| Field                                   | Value for Shell Chamber  | Value for Tube Chamber  |
|---|--|---|
| Chamber                                 | Shell  | Tube  |
| Fluid                                   | C1   | C2  |
| Fluid Group                             | 1  | 2   |
| Fluid Phase                             | Gas  | Liquid  |
| Protected Pressure (P)                  | 50 [Bar]   | 30 [Bar]  |
| Volume (V)                              | 1200 [Litre]   | 500 [Litre]   |
| Outer Diameter (DN)                     | This field is blank as values for this field are used for the certification calculation of Asset Type is Piping. | This field is blank as values for this field are used for the certification calculation of Asset Type Piping. |
| PV (Protected Pressure*Volume)          | 6000 [Bar.Litre]   | 15000 [Bar.Litre]   |
| PDN (Protected Pressure*Outer Diameter) | This field is disabled as the Asset Type is Pressure Vessel.   | This field is disabled as the Asset Type is Pressure Vessel.  |
| Certification                           | ZUS  | BP  |

**Note:**

- For Shell Chamber, refer to [Reference Table 4](#) for the certificate calculation.
- For Tube Chamber, refer to [Reference Table 5](#) for the certification calculation.

Certification calculation for Asset type Pressure Vessel for a Shell chamber:

2022 x Asset T...al Data x

Pressure Vessel - Shell chamber

Datasheet ID: Asset Technical Data

Asset ID: 00000000010000202

Asset Type: Pressure Vessel

Applicable Regulation: European Inspection Regulation

Operational Start Date: 06/04/2019 17:58:37

Chamber: Shell chamber

Override Certification:

Certification: ZUS (ZUS)

Internal Access:

External Access:

Internal Inspection Access:

Insulated:

Internal Filling?:

Cryogenic:

Fluid: C1 (C1)

Fluid Type: Combustible

Fluid Phase: Gas

Field Group: 1

Operating Pressure: 2 (BAR(G))

Protected Pressure: 50 (BAR(G))

Volume: 1,200 (LBers)

Operating Temperature: Numeric input

Piping Nominal Diameter DN:

Piping Nominal Diameter NPS:

Schedule:

Outer Diameter: Numeric input

Nominal Thickness: Numeric input

PW: 59,999.99

PON: Numeric input

Certification calculation for Asset type Pressure Vessel for a Tube chamber:

Pressure Vessel - Tube

Datasheet ID: Asset Technical Data

Asset ID: 00000000010000202

Asset Type: Pressure Vessel

Applicable Regulation: European Inspection Regulation

Operational Start Date: 08/08/2015 00:25:14

Chamber: Tube

Override Certification:

Certification: ZUS (ZUS)

Internal Access:

External Access:

Internal Inspection Access:

Insulated:

Internal Filling?:

Compsite:

Fluid: HCL (HCL)

Fluid Type: Combustible

Fluid Phase: Liquid

Field Group: 1

Operating Pressure: 480 (BAR[G])

Protected Pressure: 520 (BAR[G])

Volume: 30 (Liters)

Operating Temperature: 240 (Degrees Celsius)

Piping Nominal Diameter DN:

Piping Nominal Diameter NPS:

Schedule:

Outer Diameter: Numeric input

Nominal Thickness: Numeric input

PV: 15,600

PDN: Numeric input

**Example: Identify certification requirement for a Simple Pressure Vessel**

In this example, a single record is created for the Simple Pressure Vessel asset.

| Field                                   | Value  |
|---|--|
| Fluid                                   | C2   |
| Fluid Group                             | 2  |
| Fluid Phase                             | Gas  |
| Protected Pressure (P)                  | 20 [Bar]   |
| Volume (V)                              | 400 [Litre]  |
| Outer Diameter (DN)                     | This field is blank as values for this field is used for the certification calculation of Asset Type Piping. |
| PV (Protected Pressure*Volume)          | 8000 [Bar.Litre]   |
| PDN (Protected Pressure*Outer Diameter) | This field is disabled as the Asset Type is Simple Pressure Vessel.  |
| Certification                           | ZUS  |

**Note:** For Simple Pressure Vessel, refer to [Reference Table 7](#) for certificate calculation.

Datasheet ID: Asset Technical Data

Site: Roanoke, VA

Asset ID: Text input

Asset Type: Simple Pressure Vessel

Applicable Regulation: European Inspection Regulation

Operational Start Date: [Calendar icon]

Chamber: [Dropdown]

Override Certification:

Certification: ZUS (ZUS)

Internal Access:

External Access:

Internal Inspection Access:

Insulated:

Internal Filling?:

Cryogenic:

Fluid: C2 (C2)

Field Type: Flammable

Fluid Phase: Gas

Field Group: 2

Operating Pressure: 12 (BAR(G))

Protected Pressure: 20 (BAR(G))

Volume: 400 (Liters)

Operating Temperature: 60 (Degrees Celsius)

Piping Nominal Diameter-DN: [Dropdown]

Piping Nominal Diameter-NPS: [Dropdown]

Schedule: [Dropdown]

Outer Diameter: [Numeric input]

Nominal Thickness: [Numeric input]

PV: 8,000

PDN: [Numeric input]

### Example: Identify certification requirement for Piping

In this example, a single record is created for the Piping asset.

| Field                                   | Value   |
|---|---|
| Fluid                                   | C3  |
| Fluid Group                             | 2   |
| Fluid Phase                             | Gas   |
| Protected Pressure (P)                  | 12 [Bar]  |
| Volume (V)                              | This field is blank as values for this field is used for the certification calculation of Asset Type Pressure Vessel, Simple Pressure Vessel, and Steam Boiler. |
| Outer Diameter (DN)                     | 114.3 [mm]  |
| PV (Protected Pressure*Volume)          | This field is disabled as the Asset Type is Piping.   |
| PDN (Protected Pressure*Outer Diameter) | 1371.6 [Bar.mm]   |
| Certification                           | bP  |

**Note:** For Piping, refer to [Reference Table 9](#) for certificate calculation.

Datashet ID: Asset Technical Data

Asset ID: Test Input

Asset Type: Piping

Applicable Regulation: European Inspection Regulation

Operational Start Date: [Empty]

Override Certification:

Internal Access:

Internal Inspection Access:

Internal Filling?:

Field: C3 (C3)

Fluid Phase: Gas

Operating Pressure: 7.5 (BARIG)

Volume: [Numeric Input]

Piping Nominal Diameter DN: 100

Schedule: 80 100

Nominal Thickness: 8.56 (Millimeters)

PV: [Numeric Input]

Chamber: [Empty]

Certification: SP (BP)

External Access:

Insulated:

Cryogenic:

Fluid Type: Combustible

Fluid Group: 2

Protected Pressure: 12 (BARIG)

Operating Temperature: 80 (Degrees Celsius)

Piping Nominal Diameter NPS: 4

Outer Diameter: 114.3 (Millimeters)

PDI: 3,371.6

**Example: Identify certification requirement for a Steam Boiler**

In this example, a single record is created for the Steam Boiler asset.

| Field                                   | Value  |
|---|--|
| Fluid                                   | Test   |
| Fluid Group                             | 1  |
| Fluid Phase                             | Liquid   |
| Protected Pressure (P)                  | 35 [Bar]   |
| Volume (V)                              | 100 [Litre]  |
| Outer Diameter (DN)                     | This field is blank as values for this field is used for the certification calculation of Asset Type Piping. |
| PV (Protected Pressure*Volume)          | 3500 [Bar.Litre]   |
| PDN (Protected Pressure*Outer Diameter) | This field is disabled as the Asset Type is Steam Boiler.  |
| Certification                           | ZUS  |

**Note:** For Steam Boiler, refer to [Reference Table 9](#) for certificate calculation.

Steam Boiler -

Datasheet ID: Asset Technical Data

Asset ID: 00000000010000202

Asset Type: Steam Boiler

Applicable Regulation: European Inspection Regulation

Operational Start Date: 06/18/2019 17:12:40

Chamber:

Override Certification:

Internal Access:

Internal Inspection Access:

Internal Filling?:

Fluid: ACID (ACID)

Fluid Phase: Liquid

Operating Pressure: 30 (BARIG)

Volume: 100 (Liters)

Piping Nominal Diameter-DM:

Schedule:

Nominal Thickness: Numeric Input

PV: 3,500

Certification: ZUS (ZUS)

External Access:

Insulated:

Cryogenic:

Fluid Type: Flammable

Fluid Group: 1

Protective Pressure: 35 (BARIG)

Operating Temperature: 250 (Degrees Celsius)

Piping Nominal Diameter-NPS:

Outer Diameter: Numeric Input

PON: Numeric Input

A.S.0.0.0 (200704030) | btrautoapm.meridium.com | V4050000\_TEST\_MON\_S0L3

## Next Steps

After you have entered all the details, Save the Asset Technical Data for an asset. You can create multiple Asset Technical Data for an asset. The steps above are based on Asset Type Pressure Vessel with a Shell Chamber selection.

## Apply Suggested Compliance Strategy Templates for an Asset


Users can get suggested Compliance Strategy Templates for assets that are in the **Assets without Templates** section of the **Compliance Management Overview** page. This section contains assets that do not have linked Compliance Strategy Templates, but match queries attached to Compliance Strategy Templates.

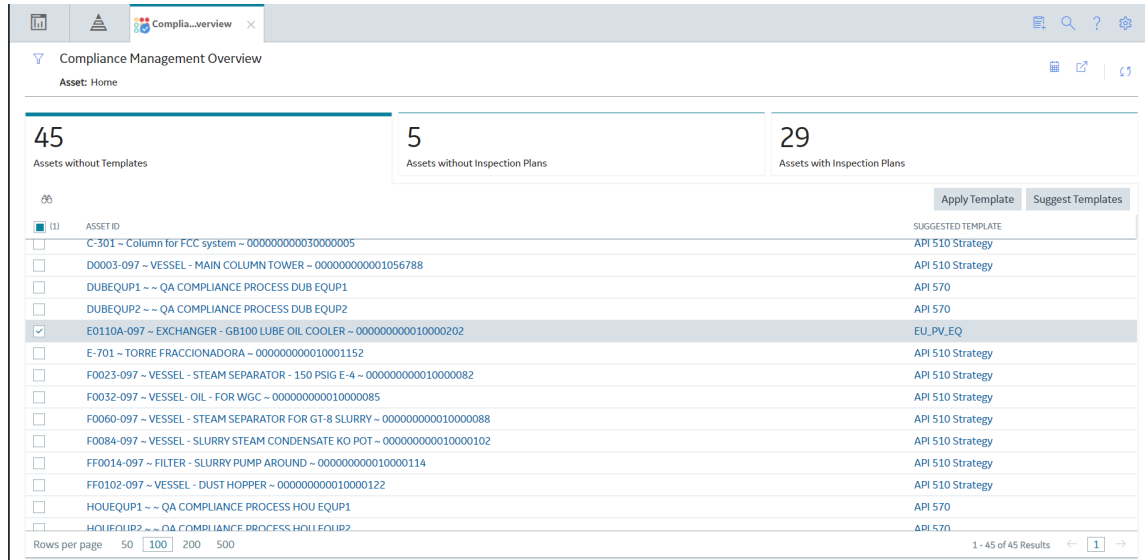
### Before You Begin

#### Procedure

1. Access the **Compliance Management Overview** page, and then select the **Assets without Templates** tab.  
The **Assets without Templates** section appears.
2. Select **Suggest Templates**.  
A window appears, stating that the current Suggested Compliance Template records will be deleted if you proceed.
3. Select **Yes**.

The Suggest Templates process executes. A scheduled job is created.

- Optional:** If you want to view the status of the job, select . The **Schedule Logs** page appears, displaying a list of all the operations in GE Digital APM that are in progress, along with the percentages of completion. You can also access a list of operations that have been successful or have failed.
- After selecting Suggested Template, refresh the page.
- Select the check boxes next to the Asset IDs, and then select **Apply Template**.



The **Confirm Apply Template** window appears asking you to confirm if you want to apply the suggested templates to the selected assets.

- Select **Yes**. The templates are applied to the selected assets, and the assets appear in the **Assets without Inspection Plans** section of the **Compliance Management Overview** page.

## Results

**Note:** For European Inspection Compliance, GE Digital APM has 8 Compliance Strategy Templates that are available for use. When assets are added, the query is added to the Compliance Strategy Template record and is saved for later use. If a Compliance Strategy Template does not have a query attached to the record, it is excluded from the Suggest Templates job. Additionally, if an asset does not match a query that is attached to a Compliance Strategy Template, it will not receive a suggested Compliance Strategy Template.

# Create an Inspection Plan from the Compliance Management Overview Page

You can create an Inspection Plan for assets that are linked to Compliance Strategy Templates.

## Before You Begin

The assets must have one or more Compliance Strategy Templates linked to them.

## Procedure

- Access Compliance Management, and then select the **Assets without Inspection Plans** tab.



The **Assets without Inspection Plans** section appears, displaying a list of available assets based on the current filter.

2. In the Assets section, select the check boxes against the rows containing the asset to create an Inspection Plan.


The selected assets are highlighted.

3. Select **Create Inspection Plans**.

The screenshot shows the 'Compliance Management Overview' page for 'Asset: Home'. It features three summary cards: '44 Assets without Templates', '6 Assets without Inspection Plans', and '29 Assets with Inspection Plans'. A 'Create Inspection Plans' button is visible in the top right of the table area. Below the cards is a table with columns for 'ASSET ID' and 'COMPLIANCE STRATEGY TEMPLATES'. The table contains six rows, with the last row selected. The table footer shows 'Rows per page' set to 100 and '1 - 6 of 6 Results'.

| ASSET ID   | COMPLIANCE STRATEGY TEMPLATES |
|--|-------------------------------|
| <input type="checkbox"/> testprocess2 ~ ~ QA COMPLIANCE PROCESS EQUIP2                                 | 1                             |
| <input type="checkbox"/> testprocess4 ~ ~ QA COMPLIANCE PROCESS EQUIP4                                 | 1                             |
| <input type="checkbox"/> testUtility3 ~ ~ QA COMPLIANCE UTILITY EQUIP3                                 | 1                             |
| <input type="checkbox"/> testUtility4 ~ ~ QA COMPLIANCE UTILITY EQUIP4                                 | 1                             |
| <input type="checkbox"/> ~ ~ QA COMPLIANCE EQUIPS-PV   | 1                             |
| <input checked="" type="checkbox"/> EO110A-097 ~ EXCHANGER - GB100 LUBE OIL COOLER ~ 00000000010000202 | 1                             |

The job status appears in the page heading, displaying the progress of the Inspection Plan creation.

**Note:** When the process is complete, you can select  to access the **Schedule Logs** page.

## Approve an Inspection Plan

### Procedure

1. Access the Inspection Plan that you want to approve.
2. Once an Inspection Plan is created for an asset, the asset along with other assets appears in **Assets with Inspection Plans** tab.

Compliance Management Overview

Asset: Home

Complete

44 Assets without Templates

5 Assets without Inspection Plans

30 Assets with Inspection Plans

Update Compliance Recommendations

| INSPECTION PLAN  |
|--|
| <input type="checkbox"/> -- QA EQUIP COMP BULK CREATE NEW 05   |
| <input type="checkbox"/> bulkAction1 -- QA COMPLIANCE BULK CREATE RBI                                  |
| <input checked="" type="checkbox"/> E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 00000000010000202 |
| <input type="checkbox"/> F0077-097 - VESSEL - SEAL POT FOR 2-109-G-86 - 000000000010000099             |
| <input type="checkbox"/> testaction1 -- QA COMPLIANCE SUPERSEDE ACTION                                 |
| <input type="checkbox"/> testaction2 -- QA COMPLIANCE NOT REQ ACTION                                   |
| <input type="checkbox"/> testaction3 -- QA COMPLIANCE DELETE ACTION                                    |
| <input type="checkbox"/> testaction4 -- QA COMPLIANCE UNLINK ACTION                                    |
| <input type="checkbox"/> testaction5 -- QA COMPLIANCE IMPLEMENT ACTION                                 |
| <input type="checkbox"/> testfunction1 -- QA COMPLIANCE BUTTON FUNC                                    |
| <input type="checkbox"/> testfunction2 -- QA COMPLIANCE APPROVAL                                       |
| <input type="checkbox"/> testfunction3 -- QA COMPLIANCE NO REC   |
| <input type="checkbox"/> testfunction4 -- QA COMPLIANCE APPROVED BUTTON                                |

Rows per page 50 100 200 500

1 - 30 of 30 Results

- Select the asset.  
The **Inspection Plan** page appears for the selected asset.

Inspection Plan

E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 0...

Proposed Not Assigned

| RECOMMENDATION ID | STATE    | SOURCE   | RECOMMENDATION HEADLINE   | DAMAGE MECHANISM                           | TASK TYPE                            |
|-------------------|----------|----------|---|--|--------------------------------------|
| REC-11167         | Proposed | EU_PV_EQ | EXTERNAL VISUAL - NON-INSULATED ASSET-Criticality Calculator External Corrosion | Criticality Calculator External Corrosi... | EXTERNAL VISUAL - NON-INSULATED ASSE |
| REC-11168         | Proposed | EU_PV_EQ | INTERNAL VISUAL INSPECTION-Criticality Calculator Internal Corrosion            | Criticality Calculator Internal Corrosion  | INTERNAL VISUAL INSPECTION           |
| REC-11169         | Proposed | EU_PV_EQ | STRENGTH TEST-  |  | STRENGTH TEST                        |

Rows per page 10 25 50 100

1 - 3 of 3 Results

Existing Tasks

No Data

Rows per page 10 25 50 100

0 - 0 of 0 Results

- Select **Proposed**, followed by **Approve** and then **Done**.  
A message appears, stating that the Inspection Plan has been approved.

**Note:**

- The inspection plan is promoted as a strategy in ASM. You can view the strategy in ASM by selecting **Open Strategy**.
- After you approve an Inspection Plan, you cannot delete, supersede, or designate recommendations as Not Required. You must first move them to the Modified state.
- While the Inspection Plan is being modified, you cannot delete, supersede, or designate recommendations as Not Required.

# Implement an Inspection Plan

## Before You Begin

- Ensure that the **Implement Recommended Actions to Tasks in ASM** setting is set to False in the **Inspection Configuration** section of the **IM Admin Preferences** page.
- You must have an Inspection Plan that is in the Approved state.

## About This Task

This task describes how to implement an Inspection Plan to an Inspection Task. When you implement an Inspection Plan, all the Compliance Recommendations associated with the Inspection Plan are implemented to an Inspection Tasks.

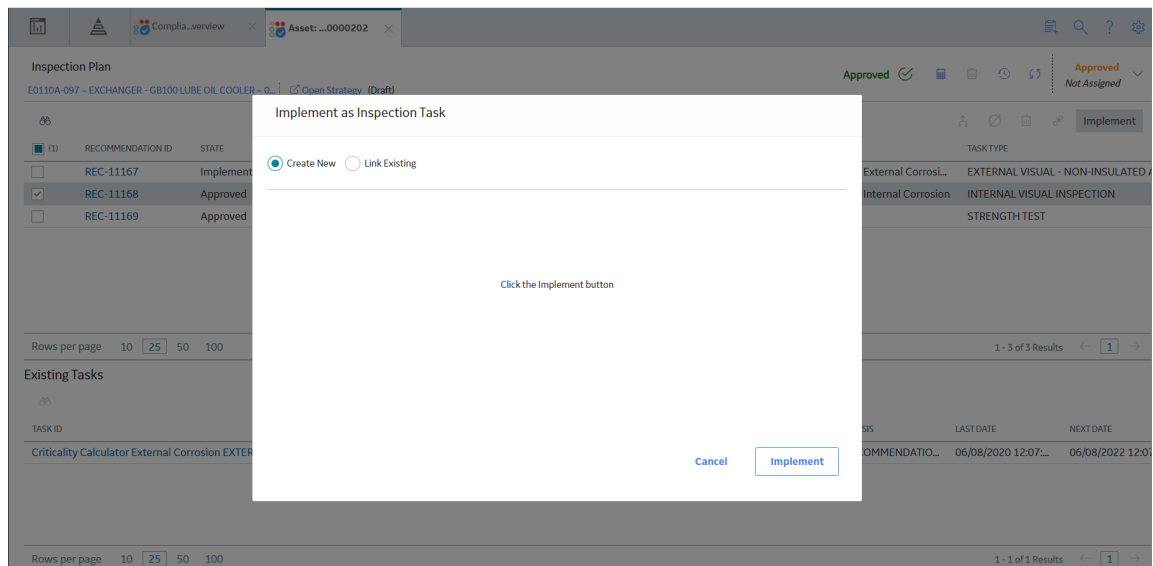
## Procedure

1. You can view if the state of the Inspection Plan from the top-right corner of the page.
2. Select the check box against the recommendation that you want to implement and select **Implement** from the top-right corner of the page.

**Note:** You can perform only one implementation at a time. Select a recommendation using the check box to implement. Bulk implemented is not allowed. For more information on Recommendation Details, see Recommendation ID.

The **Implement as Inspection Task** dialog appears

3. You can implement as a new task or link it to an existing task.  
Here, we are implementing all the three tasks as a new task.



4. As needed, modify the details for the Recommended Actions that you selected.
5. All the three recommendations of the asset have been implemented as new task and are visible in **Existing Tasks** section of the page.  
The Inspection Plan page appears.

Inspection Plan  
E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 0... | Open Strategy (Draft)

Approved Not Assigned

| <input type="checkbox"/> | REC | RECOMMENDATION ID | STATE       | SOURCE   | RECOMMENDATION HEADLINE   | DAMAGE MECHANISM                          | TASK TYPE                             | INTERVAL    | NONRECURRING?            |
|--------------------------|-----|-------------------|-------------|----------|---|---|---------------------------------------|-------------|--------------------------|
| <input type="checkbox"/> |     | REC-11217         | Implemented | EU_PV_EQ | EXTERNAL VISUAL - NON-INSULATED ASSET-Criticality Calculator External Corrosion | Criticality Calculator External Corrosion | EXTERNAL VISUAL - NON-INSULATED ASSET | 36(Months)  | <input type="checkbox"/> |
| <input type="checkbox"/> |     | REC-11218         | Implemented | EU_PV_EQ | INTERNAL VISUAL INSPECTION-Criticality Calculator Internal Corrosion            | Criticality Calculator Internal Corrosion | INTERNAL VISUAL INSPECTION            | 60(Months)  | <input type="checkbox"/> |
| <input type="checkbox"/> |     | REC-11219         | Implemented | EU_PV_EQ | STRENGTH TEST-  |   | STRENGTH TEST                         | 120(Months) | <input type="checkbox"/> |

Rows per page: 10 | 25 | 50 | 100 | 1 - 3 of 3 Results

Existing Tasks

| TASK ID   | TASK TYPE                             | DESIRED INTERVAL | DESIRED INTERVAL BASIS    | LAST DATE           | NEXT DATE           |
|---|---------------------------------------|------------------|---------------------------|---------------------|---------------------|
| STRENGTH TEST   | STRENGTH TEST                         | 120              | COMPLIANCE RECOMMENDATION | 07/23/2020 11:35:18 | 07/23/2030 11:35:18 |
| Criticality Calculator External Corrosion EXTERNAL VISUAL - NON-INSULATED ASSET | EXTERNAL VISUAL - NON-INSULATED ASSET | 36               | COMPLIANCE RECOMMENDATION | 07/23/2020 11:31:54 | 07/23/2023 11:31:54 |
| Criticality Calculator Internal Corrosion INTERNAL VISUAL INSPECTION            | INTERNAL VISUAL INSPECTION            | 60               | COMPLIANCE RECOMMENDATION | 07/23/2020 11:34:44 | 07/23/2025 11:34:44 |

Rows per page: 10 | 25 | 50 | 100 | 1 - 3 of 3 Results

## Manage Inspection Tasks

### Before You Begin

Ensure that you have implemented an Inspection Plan. For more information on Implementing an Inspection Task, refer to the [Implement an Inspection Plan](#) on page 23 topic.

### About This Task

This topic describes how to create and manage a European Inspection Task. The European Inspection Task is introduced to the Inspection Task family to manage the European Inspection tasks, according to the Compliance regulation.

### Procedure

1. Select any one task from the **Task ID** column in Inspection Plan. The **Inspection Task** datasheet appears.
2. Select the **European Inspection Task** datasheet from the **Datasheet ID** drop-down list. The European Inspection Task record appears for the asset.
3. As needed, enter values in the [available fields](#) of the datasheet.

Task ID: Criticality Calculator External Corrosion EXTERNAL VISUAL - NON-INSULATED ASSET  
 Asset ID: E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 00000000010000202

Generate Report Define Scope

Manage Task

Datasheet ID:  
European Inspection Task

Site: EAM-001

### TASK DETAILS

Task Type: EXTERNAL VISUAL - NON-INSULATED ASSET Task ID: Criticality Calculator External Corrosion EXTERNAL VISUAL - NON-INSULATED ASSET

Task Description: Text area

Task Details: Check condition of outside surface of the vessel, insulation, painting, coating systems, supports and associated structure. Check for leakage, hot spots, vibration, allowance for expansion, bulging, out of roundness and general alignment of the vessel on its supports. Carry out thickness measurements at TMI locations.

Task Assigned To: Text input

Applicable Regulation: European Inspection Regulation Certification: ZUS (ZUS)

Inspection Document Type: Text input

### TASK SCHEDULING

Last Date: 07/23/2020 11:31:54 Desired Interval: 36 Desired Interval UOM: Months (MON)

Next Date: 07/23/2023 11:31:54 Desired Interval Basis: Compliance Recommendation

Previous Next Date: 07/23/2020 11:31:54 Task Rescheduling Basis: Next Date Based on Last Date

Compliance Window: 3 (Months) Compliance Min Date: 04/01/2023 11:31:54 Compliance Max Date: 10/31/2023 11:31:54

Inspection Documentation Window: 1 (Month) Inspection Documentation Completion Date: 11/23/2023 11:31:54

### TASK ATTRIBUTES

Modifiable:  Override Interval:  Deletable:  Rescheduling:

### EAM DETAILS

Maintenance Item: Text input Maintenance Plant: Text input

Maintenance Plan: Text input Operation Number: Text input

Work Order Number: Text input Work Order Type: PM01

EAM Reference Creation Date: Text input EAM Reference Last Changed Date: Text input

EAM Reference Last Date: Text input EAM Reference Next Date: Text input

For more information on the Mappings, refer to the [European Technical Data and Compliance Recommendation Mappings](#) on page 49 topic. The following fields are available as part of the Inspection Event.

| Field                   | Value  | Source                    |
|-------------------------|--|---------------------------|
| Applicable Regulation   | If the inspection is a European Inspection, then you need to select European Inspection Regulation. The values in this field are populated from the MI_INTGY_REGULATION system code table. | Compliance Recommendation |
| Certification           | The values in this field are populated from the MI_COMPLIANCE_STANDARDS system code table. By default, it shows ZUS and BP.  | Compliance Recommendation |
| Previous Next Date      | This field is populated automatically by the GE Digital APM system. This field stores the Next Date before the rescheduling occurs. This field is always disabled.                         | European Inspection       |
| Task Rescheduling Basis | This field captures the information based on how the Next Date field is calculated. The field can be calculated either by the Completion Date or the Previous Next Date.                   | European Inspection       |

| Field                           | Value  | Source                  |
|---------------------------------|--|-------------------------|
| Compliance Window               | This field stores the information about the duration of compliance in months.                    | European Admin Settings |
| Inspection Documentation Window | This field stores information about the duration in months for documenting an inspection report. | European Admin Settings |
| Compliance Min Date             | The earliest date on which an inspection may be performed.                                       | European Inspection     |
| Compliance Max Date             | The time between the Last Date and the Max Date.   | European Inspection     |

**Note:**

- The **Applicable Regulation** and **Certification** field values are mapped from the related Compliance Recommendation record from which the Inspection Task was created.
- The **Applicable Regulation** value is set to **European Inspection Regulation** and the **Certification** field value is set to ZUS, then the Inspectors with respective certification or Inspection Administrators will be able to select the Modifiable Task field. If the Certification field value is set to ZUS, certification for the inspector will not be checked to select the modifiable task attribute.
- Value in the fields **Compliance Window** and **Inspection Documentation Window in European Inspection Task datasheet** are auto populated from [European Admin Settings](#). These values must be pre-defined at a Site Level.
- If the Certification field value is set, then Modifiable field will set to false before updating the Inspection Task.

## Reschedule an Inspection Task

You can reschedule an Inspection Task after completing an Inspection Event. For an Inspection Task that have the **Applicable Regulation** set to European Inspection Regulation, the **Next Date** is updated in an Inspection Task based on the following two scenarios:

- **Scenario 1: For Completion Date before Compliance Min Date**
  - **Next Date** field on Inspection Task is set based on the value in the **Completion Date + Desired Interval**.
  - **Task Rescheduling Basis** field on Inspection Task will be updated to **Next Date** based on **Last Date**.
- **Scenario 2: For Completion Date after Compliance Min Date**
  - **Next Date** field on Inspection Task is set based on the value in the **Previous Next Date + Desired Interval**.
  - **Task Rescheduling Basis** field on Inspection Task will be updated to **Next Date** based on **Next Date**.

The above two scenarios are explained in a form of an example. The following table is used as an example to calculate the Next Date of an Inspection Task Details before any rescheduling.

| Field     | Last Date (mm/dd/yyyy)   | Desired Interval (Months) | Next Date (mm/dd/yyyy)  | Compliance Window (Months)      | Compliance Min Date (mm/dd/yyyy)  | Compliance Max Date (mm/dd/yyyy)   |
|-----------|--|---------------------------|---|---------------------------------|---|--|
| Value     | 02-12-2019   | 36                        | 02-12-2022  | 3                               | 11-01-2021  | 05-31-2022   |
| Behaviour | This is the date in the Inspection Task which will be same as Completion date in Inspection Event. This is a Modifiable field. |                           | The Next Date is updated based on the Last Date + Desired Interval. | Predefined in EU Admin Settings | The date is updated to the First Date of Month for <b>Next Date - Compliance Window</b> | The date is updated to the Last Date of Month for <b>Next Date + Compliance Window</b> |

**TASK SCHEDULING**

Last Date: 02/12/2019 11:31:54

Next Date: 02/12/2022 11:31:54

Previous Next Date: 12/02/2022 11:31:54

Compliance Window: 3 (Months)

Inspection Documentation Window: 1 (Months)

Desired Interval: 36

Desired Interval UOM: Months (MCN)

Desired Interval Basis: Compliance Recommendation

Task Rescheduling Basis: Next Date Based on Last Date

Compliance Min Date: 11/01/2021 11:31:54

Compliance Max Date: 05/31/2022 11:31:54

Inspection Documentation Completion Date: 06/12/2022 11:31:54

Using the above example, rescheduling will be done in the following two scenarios.

- **Scenario 1:** Completion Date in Inspection Event is before the Compliance Min Date in the Inspection Task. **Next Date = Last Date + Desired interval**

| Field     | Compliance Min Date (mm/dd/yyyy)        | Completion Date in Inspection Event (mm/dd/yyyy) | Last Date (mm/dd/yyyy)      | Previous Next Date (mm/dd/yyyy)            | Desired Interval (Months) | Next Date (mm/dd/yyyy)                             | Task Rescheduling Basis      | Compliance Window (Months) | Compliance Min Date (mm/dd/yyyy)       | Compliance Max Date (mm/dd/yyyy)       |
|-----------|---|--|-----------------------------|--|---------------------------|--|------------------------------|----------------------------|--|--|
| Value     | 11-01-2021                              | 03-20-2020                                       | 03-20-2020                  | 02-12-2022                                 | 36                        | 03-20-2023   | Next Date Based on Last Date | 3                          | 12-01-2022                             | 06-30-2023                             |
| Behaviour | Compliance Min Date Before Rescheduling | As Provided by the user.                         | Same as the Completion Date | This was the Next date before Rescheduling |                           | Date obtained by adding 36 Months to the Last Date |                              |                            | Compliance Min Date After Rescheduling | Compliance Max Date After Rescheduling |

**TASK SCHEDULING**

Last Date: 03/20/2020 11:31:54

Next Date: 03/20/2023 11:31:54

Previous Next Date: 02/20/2023 11:31:54

Compliance Window: 3 (Months)

Inspection Documentation Window: 1 (Months)

Desired Interval: 36

Desired Interval UOM: Months (MCN)

Desired Interval Basis: Compliance Recommendation

Task Rescheduling Basis: Next Date Based on Last Date

Compliance Min Date: 12/01/2022 11:31:54

Compliance Max Date: 06/30/2023 11:31:54

Inspection Documentation Completion Date: 07/20/2023 11:31:54

- **Scenario 2:** Completion Date in Inspection Event is after the Compliance Min Date in Inspection Task. **Next Date = Previous Next date + Desired interval**

| Field    | Compliance Min Date (mm/dd/yyyy)     | Completion Date in Inspection Event (mm/dd/yyyy) | Last Date (mm/dd/yyyy)  | Previous Next Date (mm/dd/yyyy) | Desired Interval (Months) | Next Date (mm/dd/yyyy)                                      | Task Rescheduling Basis               | Compliance Window (Months) | Compliance Min Date (mm/dd/yyyy)       | Compliance Max Date (mm/dd/yyyy)       |
|----------|--------------------------------------|--|-------------------------|---------------------------------|---------------------------|---|---------------------------------------|----------------------------|--|--|
| Value    | 12-01-2022                           | 05-24-2023                                       | 05-25-2023              | 03-20-2023                      | 36                        | 03-20-2026  | Next Date Based on Previous Next Date | 3                          | 12-01-2025                             | 06-30-2026                             |
| Behavior | Compliance Min Date from Scenario -1 | As Provided by User                              | Same as Completion Date | Next Date from Scenario -1      |                           | Date obtained by adding 36 Months to the Previous Next Date |                                       |                            | Compliance Min Date After Rescheduling | Compliance Max Date After Rescheduling |

**TASK SCHEDULING**

|   |   |  |
|---|---|--|
| Last Date<br>05/25/2023 11:31:54              | Desired Interval<br>36  | Desired Interval UOM<br>Months (MON)       |
| Next Date<br>03/20/2026 11:31:54              | Desired Interval Basis<br>Compliance Recommendation             |  |
| Previous Next Date<br>03/20/2023 11:31:54     | Task Rescheduling Basis<br>Next Date Based on Last Date         |  |
| Compliance Window<br>3 (Months)               | Compliance Min Date<br>12/01/2025 11:31:54                      | Compliance Max Date<br>06/30/2026 11:31:54 |
| Inspection Documentation Window<br>1 (Months) | Inspection Documentation Completion Date<br>05/24/2023 11:31:54 |  |

## Manage Inspection Events

### About This Task

This task describes how to create and manage an Inspection Event. The European Inspection Report is added to the Full Inspection family to manage an Inspection event for an Asset.

### Procedure

1. Access the [Inspection Management Overview](#) page and select an asset for which you want to create an Inspection Event.
2. Select **+**, and then select **Create Inspection**. The **Create Inspection** window appears.
3. In the **Inspection Event** box, select the Inspection Event.
4. In the **Inspection Tasks** box, select the Inspection Tasks.



## Create Inspection

---

Inspection Event

Full Inspection

Inspection Tasks

STRENGTH TEST | Criticality Calculator External Corrosion EXTERNAL VISUAL - NON-INSUI

Cancel

Create

### Note:

- You can create an Inspection without selecting any value in the **Inspection Tasks** box.
  - You can select either a single Inspection Task or multiple Inspection Tasks using the check box.
5. Select **Create**.  
The **Inspection Details** workspace appears, displaying the **Full Visual Inspection** datasheet.
  6. Select **EU Inspection Report** from the drop-down list.  
The EU Inspection Report datasheet appears.

Asset: ...000202 Full In...SP-2227

Full Inspection: INSP-2227  
Asset ID: E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 00000000010000202

Inspection Data Inspection Confidence Evaluation Team Members

Inspection Details Save

Datasheet ID: EU Inspection Report Site: EAM-001

Inspection Reference: INSP-2227 Equipment Technical Number: E0110A-097

Asset ID: E0110A-097 - EXCHANGER - GB100 LUBE OIL COOLER - 00000000010000202 Asset ID Link: [Open Asset Datasheet.](#)

Functional Location ID: MRD-ROA-REFN-RFO97-E0110A-097 - Functional Location ID Link: [Open Service Datasheet](#)

Applicable Regulation: European Inspection Regulation Certification: ZUS (ZUS)

Inspection Document Category: Test Certificate by ZUS

Inspection Instruction:

Inspection Summary:

Commencement Date: 07/24/2020 17:11:10 Completion Date: 07/24/2020 17:11:10

Tasks Addressed: STRENGTH TEST STRENGTH TEST | Criticality Calculator External Corrosion EXTERNAL VISUAL - NON-INSULATED ASSET EXTERNAL VISUAL - NON-INSULATED ASSET | Criticality Calculator Internal Corrosion INTERNAL VISUAL INSPECTION INTERNAL VISUAL INSPECT

Inspection Task Complete:

Reason for Inspection:  Equipment Operating State:

Inspection Document Status: Draft (DRAFT)

Inspection Report Owner:

Inspection Lock:

Reviewers Name:

Reviewers Comments:

Final Inspection Lock:

For more information on the Mappings, refer to the [Inspection Task and Inspection Event Mappings](#) on page 49 topic. The following fields are available as part of the Inspection Event.

| Field                        | Value   | Source              |
|------------------------------|---|---------------------|
| Applicable Regulation        | If the inspection is a European Inspection, then you need to select European Inspection Regulation. The values in this field are populated from the MI_INTGY_REGULATION system code table.          | Inspection Task     |
| Certification                | The values in this field are populated from the MI_COMPLIANCE_STANDARDS system code table. By default, it shows ZUS and BP.   | Inspection Task     |
| Inspection Document Category | The field populates the following values: <ul style="list-style-type: none"> <li>Test Certificate by ZUS</li> <li>Test Record by Company Inspector</li> <li>Test Report by Subcontractor</li> </ul> | European Inspection |
| Inspection Instruction       | This field stores a list of instructions for an inspector. The list is populated in a drop-down list box.   | European Inspection |

**Note:**

- **Inspection Report Owner** field will display all the users who satisfy following conditions:
    - If the value in the Certification field is ZUS:
      - The Inspector role with a valid matching Certification can perform inspection.
      - The Team Member with a valid matching Certification can perform inspection.
    - If the Certification field does not have a value:
      - The inspector role can perform the inspection.
      - The Team member can perform the inspection.
  - **Reviewer Name** field will display all the users who satisfy following conditions:
    - If the Certification field has a value:
      - The Inspector Supervisor role with a valid matching Certification can perform the inspection.
      - The Team Member with a valid matching Certification can perform the inspection.
  - If the certification field has a value, then the check boxes **Inspection Lock** and **Inspection Task Complete** can be selected by either the Inspector or any Team Member provided they have the respective certification.
  - If the **Application Regulation** is European Inspection Regulation, **Certification** is **ZUS** then **Inspection Document Category** is set to Test Certificate by ZUS and disabled. If the Certification is not ZUS, then the **Inspection Document Category** field would be enabled.
  - An **Inspection Summary** appears based on the **Inspection Document Category** and **Inspection Instructions** selected. Select the values based on the [available fields](#).
7. In the datasheet, enter values in the [available fields](#).
  8. An Inspection is created for an asset in a European Inspection Report an asset.

# Chapter 4

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## Reference

### Topics:

- [General Reference](#)
- [Data Models](#)
- [Annexure-1](#)
- [Family Field Descriptions](#)
- [Field Mappings](#)
- [Policies](#)
- [System Code Tables](#)
- [Queries](#)

## General Reference

### Security Groups

The following table provides a list of the baseline family-level privileges that exist for the Security Groups:

| Security Group                        | Privileges to the Fluid Data Family | Privileges to the Asset Technical Data Family | Privileges to the Compliance Recommendation Mapping Family | Privileges to the Inspection Summary Reference Family | Privileges to the European Admin Settings Family |
|---------------------------------------|-------------------------------------|---|--|---|--|
| MI RBI Administrator                  | View, Update, Insert, Delete        | View, Update, Insert, Delete                  | View, Update, Insert, Delete                               |   |  |
| MI RBI Analyst                        | View, Update, Insert, Delete        | View, Update, Insert, Delete                  | View, Update, Insert, Delete                               |   |  |
| MI Thickness Monitoring Viewer        | View                                | View  | View   |   |  |
| MI RBI Viewer                         | View                                | View  | View   | View  | View   |
| MI Thickness Monitoring User          | View                                | View  | View   |   |  |
| MI Thickness Monitoring Inspector     | View                                | View  | View   | View  | View   |
| MI Thickness Monitoring Administrator | View, Update, Insert, Delete        | View, Update, Insert, Delete                  | View, Update, Insert, Delete                               |   |  |
| MI Inspection                         | View, Update, Insert, Delete        | View, Update, Insert, Delete                  | View, Update, Insert, Delete                               | View, Update, Insert, Delete                          | View, Update, Insert, Delete                     |
| MI Inspection Viewer                  | View                                | View  | View   | View  | View   |

## Compliance Strategy Templates

The following table lists the Compliance Strategy Templates for the European Inspection Management:

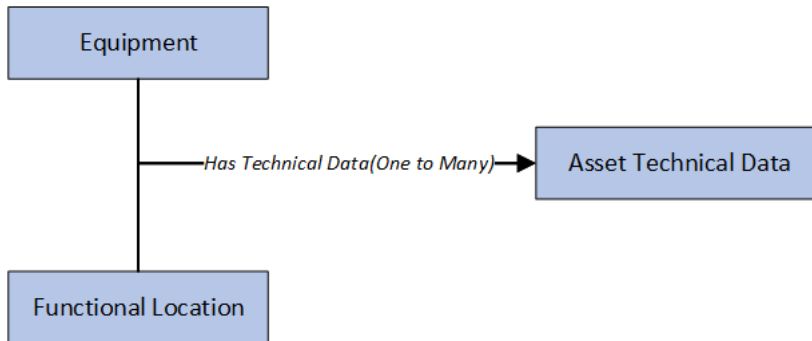
| Compliance Strategy Template | Asset Type             | Policy       | Family              | Query   |
|------------------------------|------------------------|--------------|---------------------|---|
| EU_PIPE_FL                   | Piping                 | EU_PIPE_FLOC | Functional Location | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_Pi<br>ping_FLOC      |
| EU_PIPE_EQ                   | Piping                 | EU_PIPE_EQPT | Equipment           | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_Pi<br>ping_EQP       |
| EU_SB_FL                     | Steam Boiler           | EU_SB_FLOC   | Functional Location | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_S<br>teamBoiler_FLOC |
| EU_SB_EQ                     | Steam Boiler           | EU_SB_EQPT   | Equipment           | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_S<br>teamBoiler_EQP  |
| EU_SPV_FL                    | Simple Pressure Vessel | EU_SPV_FLOC  | Functional Location | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_S<br>PV_FLOC         |
| EU_SPV_EQ                    | Simple Pressure Vessel | EU_SPV_EQPT  | Equipment           | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_S<br>PV_EQP          |

| Compliance Strategy Template | Asset Type      | Policy     | Family              | Query  |
|------------------------------|-----------------|------------|---------------------|--|
| EU_PV_FL                     | Pressure Vessel | EU_PV_FLOC | Functional Location | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_P<br>ressureVessel_FLOC |
| EU_PV_EQ                     | Pressure Vessel | EU_PV_EQPT | Equipment           | Public\Meridium<br>\Modules\Inspection<br>\Compliance\EU<br>Regulation\Queries<br>\EU_Available_Assets_P<br>ressureVessel_EQP  |

## Data Models

### Data Model

The following diagram shows how the families are related within the European Inspection Management Data Models.



**Note:** In the diagram, boxes represent entity families and arrows represent relationship families that are configured in the baseline database.

#### Has Technical Data Relationship

This relationship family is used to link Asset Technical Data to an Equipment or Functional Location.

## Annexure-1

### Table F: Fluid Group Table

The following table lists the specific conditions for the different fluid categories used for European Inspection Management:

| Fluid Category                      | Conditions     |  | Fluid Group |
|-------------------------------------|----------------|--|-------------|
| Explosive                           | Not Applicable | Not Applicable                                 | 1           |
| Flammable Category 1                | Not Applicable | Not Applicable                                 | 1           |
| Flammable Category 2                | Not Applicable | Not Applicable                                 | 1           |
| Flammable Category 3                | TB > FP        | FP ≤ 55 degree Celsius (131 degree Fahrenheit) | 1           |
| Pyrophoric                          | Not Applicable | Not Applicable                                 | 1           |
| Acute Toxic Category 1              | Not Applicable | Not Applicable                                 | 1           |
| Acute Toxic Category 2              | Not Applicable | Not Applicable                                 | 1           |
| Oxidising                           | Not Applicable | Not Applicable                                 | 1           |
| Corrosive                           | Not Applicable | Not Applicable                                 | 2           |
| Flammable Category 3                | TB ≤ FP        | Not Applicable                                 | 2           |
| Others                              | Not Applicable | Not Applicable                                 | 2           |
| * TB : Max. Permissible Temperature |                |  |             |
| * FP : Flash Point                  |                |  |             |

### Table R: Reference Table Chart

The following table lists the reference table charts for the equipment categories:

| Asset Type             | Physical State | Fluid Group  | Table |
|------------------------|----------------|--------------|-------|
| Boiler                 | Not Relevant   | Not Relevant | 2     |
| Pressure Vessel        | Gas            | 1            | 3     |
| Pressure Vessel        | Gas            | 2            | 4     |
| Pressure Vessel        | Liquid         | 1            | 5     |
| Pressure Vessel        | Liquid         | 2            | 6     |
| Simple Pressure Vessel | Gas            | 2            | 7     |
| Piping                 | Gas            | 1            | 8     |
| Piping                 | Gas            | 2            | 9     |



| Asset Type | Physical State | Fluid Group | Table |
|------------|----------------|-------------|-------|
| Piping     | Liquid         | 1           | 10    |
| Piping     | Liquid         | 2           | 11    |

### Table - 1: Inspection Interval for Asset Types

The following table lists the Inspection interval for the asset types used for European Inspection Management:

| Asset Type   | External Examination | Internal Examination | Strength Test |
|--|----------------------|----------------------|---------------|
| Steam Boiler in <a href="#">Table 2</a>  | 1 Year               | 3 Years              | 9 Years       |
| Pressure Vessel in <a href="#">Table 3</a> , <a href="#">Table 4</a> , <a href="#">Table 5</a> , and <a href="#">Table 6</a> | 2 Years              | 5 Years              | 10 Years      |
| Simple Pressure Vessel in <a href="#">Table 7</a>  | Not Applicable       | 5 Years              | 10 Years      |
| Piping in <a href="#">Table 8</a> , <a href="#">Table 9</a> , <a href="#">Table 10</a> , and <a href="#">Table 11</a>        | 5 Years              | Not Applicable       | 5 Years       |

### Table - 2: Boiler Equipment Category

The following table lists the test responsibilities for the Boiler equipment category:

| V [Litre] | PS [Bar]      | PS.V [Bar-Litre]  | Non-Recurring Inspection | Recurring Inspection |
|-----------|---------------|-------------------|--------------------------|----------------------|
| >2        | 0.5 < PS ≤ 32 | ≤ 200             | bP                       | bP                   |
| ≤ 1000    | 0.5 < PS ≤ 32 | 200 < PS.V ≤ 1000 | ZÜS                      | bP                   |
| > 1000    | 0.5 < PS ≤ 32 | Not Applicable    | ZÜS                      | ZÜS                  |
| ≤ 1000    | 0.5 < PS ≤ 32 | > 1000            | ZÜS                      | ZÜS                  |
| > 2       | > 32          | Not Applicable    | ZÜS                      | ZÜS                  |

### Table - 3: Pressure Vessels with Gas for the Fluid Group - 1

The following table lists the test responsibilities for the pressure vessels with gas for the Fluid Group - 1:

| V [Litre]   | PS [Bar]        | PS.V [Bar-Litre]  | Non-Recurring Inspection | Recurring Inspection |
|-------------|-----------------|-------------------|--------------------------|----------------------|
| 1 < V ≤ 200 | > 0.5           | 25 < PS.V ≤ 200   | bP                       | bP                   |
| > 200       | 0.5 < PS ≤ 1    | Not Applicable    | bP                       | bP                   |
| ≤ 1         | 200 < PS ≤ 1000 | Not Applicable    | ZÜS                      | bP                   |
| > 1         | > 1             | 200 < PS.V ≤ 1000 | ZÜS                      | bP                   |
| ≤ 1         | > 1000          | Not Applicable    | ZÜS                      | ZÜS                  |
| > 1         | > 1             | > 1000            | ZÜS                      | ZÜS                  |

## Table - 4: Pressure Vessels with Gas for Fluid Group - 2

The following table lists the test responsibilities for the pressure vessels with gas for Fluid Group - 2:

| V [Litre] | PS [Bar]  | PS.V [Bar-Litre] | Non-Recurring Inspection | Recurring Inspection |
|-----------|-----------|------------------|--------------------------|----------------------|
| 1<V<=200  | >0.5      | 50<PS.V<=200     | bP                       | bP                   |
| >200      | 0.5<PS<=1 | Not Applicable   | bP                       | bP                   |
| >1        | >1        | 200<PS.V<=1000   | ZÜS                      | bP                   |
| <=1       | >1000     | Not Applicable   | ZÜS                      | ZÜS                  |
| >1        | >1        | >1000            | Not Applicable           | Not Applicable       |

## Table - 5: Pressure Vessels with Liquids for Fluid Group - 1

The following table lists the test responsibilities for the pressure vessels with liquids for Fluid Group - 1:

| V [Litre]      | PS [Bar]   | PS.V [Bar-Litre] | Non-Recurring Inspection | Recurring Inspection |
|----------------|------------|------------------|--------------------------|----------------------|
| Not Applicable | 0.5<PS<=10 | >200             | bP                       | bP                   |
| <=1            | >500       | <=1000           | bP                       | bP                   |
| <=1            | >500       | 1000<PS.V<=10000 | ZÜS                      | bP                   |
| >1             | >500       | <=10000          | ZÜS                      | bP                   |
| >1             | 10<PS<=500 | >200             | ZÜS                      | bP                   |
| Not Applicable | >500       | >10000           | ZÜS                      | ZÜS                  |

## Table - 6: Pressure Vessels with Liquids for Fluid Group - 2

The following table lists the test responsibilities for the pressure vessels with liquids for Fluid Group - 2:

| V [Litre]      | PS [Bar]   | PS.V [Bar-Litre] | Non-Recurring Inspection | Recurring Inspection |
|----------------|------------|------------------|--------------------------|----------------------|
| <=1            | >1000      | <=1000           | bP                       | bP                   |
| <=10           | >1000      | 1000<PS.V<=10000 | ZÜS                      | bP                   |
| Not Applicable | 10<PS<=500 | >10000           | ZÜS                      | bP                   |
| Not Applicable | >500       | >10000           | ZÜS                      | ZÜS                  |

## Table - 7: Simple Pressure Vessels

The following table lists the test responsibilities for Simple Pressure Vessels:

| V [Litre]      | PS [Bar]           | PS.V [Bar-Litre]         | Non-Recurring Inspection | Recurring Inspection |
|----------------|--------------------|--------------------------|--------------------------|----------------------|
| Not Applicable | $0.5 < PS \leq 30$ | $50 < PS.V \leq 200$     | bP                       | bP                   |
| Not Applicable | $0.5 < PS \leq 1$  | $200 < PS.V \leq 10000$  | bP                       | bP                   |
| Not Applicable | $1 < PS \leq 30$   | $200 < PS.V \leq 1000$   | ZÜS                      | bP                   |
| Not Applicable | $1 < PS \leq 30$   | $1000 < PS.V \leq 10000$ | ZÜS                      | ZÜS                  |

## Table - 8: Piping with Gases for Fluid Group Table - 1

The following table lists the test responsibilities for Piping with gases for Fluid Group - 1:

| Sl. No. | DN[Millimeter] | PS[Bar] | PS.DN[Bar-mm] | Non-Recurring Inspection | Recurring Inspection |
|---------|----------------|---------|---------------|--------------------------|----------------------|
| 1       | >25            | >0.5    | $\leq 2000$   | bP                       | bP                   |
| 2       | >25            | >0.5    | >2000         | ZÜS                      | ZÜS                  |

## Table - 9: Piping with Gases for Fluid Group Table- 2

The following table lists the test responsibilities for Piping with gases for Fluid Group - 2:

| DN[Millimeter] | PS[Bar] | PS.DN[Bar-mm]            | Non-Recurring Inspection | Recurring Inspection |
|----------------|---------|--------------------------|--------------------------|----------------------|
| >32            | >0.5    | $1000 < PS.DN \leq 2000$ | bP                       | bP                   |
| >32            | >0.5    | >2000                    | ZÜS                      | ZÜS                  |

## Table - 10: Piping with liquids for Fluid Group Table - 1

The following table lists the test responsibilities for Piping with liquids for Fluid Group - 1:

| DN[Millimeter] | PS[Bar] | PS.DN[Bar-mm] | Non-Recurring Inspection | Recurring Inspection |
|----------------|---------|---------------|--------------------------|----------------------|
| >25            | >0.5    | >2000         | ZÜS                      | ZÜS                  |

## Table - 11: Piping with liquids for Fluid Group Table - 2

The following table lists the test responsibilities for Piping with liquids for Fluid Group - 2:

| DN[Millimeter] | PS[Bar] | PS.DN[Bar-mm] | Non-Recurring Inspection | Recurring Inspection |
|----------------|---------|---------------|--------------------------|----------------------|
| >200           | >10     | >5000         | ZÜS                      | ZÜS                  |

## Family Field Descriptions

### Asset Technical Data

Asset Technical Data datasheet stores asset-related information required for certification calculation.


The table below provides an alphabetical list and description of the fields that exist for Asset Technical Data. The information in the table reflects the type and behavior of these fields. This list is not comprehensive.

**Note:** You can access the Asset Technical Data datasheet for any asset using the Search (🔍) button.

| Field                 | Data Type       | Description  | Behavior and Usage   |
|-----------------------|-----------------|--|--|
| Applicable Regulation | Character (255) | Stores the regulation type that is applicable to an asset. | <p>This field is populated with a list of regulations to be linked to an asset. This field is populated with a description of system codes stored in <a href="#">MI_INTGY_REGULATION system code table</a>.</p> <p>For European Inspection Management, Applicable Regulation is listed as an European Inspection Regulation.</p> <p>This field is required to calculate certification requirements for the asset of the following types:</p> <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Steam Boiler</li> <li>• Piping</li> </ul> |
| Asset ID              | Character (255) | Stores the ID of an asset.                                 | This field is populated with the Equipment Record ID or with the Functional Location ID.   |

| Field           | Data Type       | Description   | Behavior and Usage  |
|-----------------|-----------------|---|---|
| Asset Type      | Character (255) | Stores the type of asset.   | <p>This field is populated with descriptions of the system codes that are stored in the <a href="#">MI_INTGY_ASSET_TYPE system code table</a>. This field is required to calculate certification requirements for the asset of the following types:</p> <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Steam Boiler</li> <li>• Piping</li> </ul> |
| Certification   | Character (255) | Stores the certification value.   | <p>The values in this field are populated from a drop-down list box and contains a list of system codes that exist in the <a href="#">MI_COMPLIANCE_STANDARDS</a> system code table. In baseline, the Certification field populates the values which are referenced by <a href="#">MI_INTGY_REGULATION</a> system code table. By default, it shows ZUS and BP.</p>                                      |
| Chamber         | Character (255) | Stores information about the type of chamber.                               | <p>This field contains a list of system codes that exist in the <a href="#">MI_CHAMBER system code table</a>. You can choose from the baseline values. The values in this field are populated from a drop-down list box. Refer to the <a href="#">System Code Table</a> for details regarding the type of chamber.</p>  |
| Cryogenic       | Boolean         | Mentions whether the asset is operated under cryogenic conditions.          | <p>This field records additional information regarding the asset. Select the checkbox if the asset operates under the cryogenic conditions.</p>   |
| External Access | Boolean         | Mentions whether the physical access for the asset is available externally. | <p>This field records additional information regarding the asset. Select the checkbox if external access is available for the asset inspection.</p>   |

| Field                      | Data Type       | Description   | Behavior and Usage   |
|----------------------------|-----------------|---|--|
| Fluid                      | Character (255) | Specifies the name of the fluid which is stored within an asset.                  | This field is required to calculate certification requirements for the asset of the following types: <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Piping</li> </ul> |
| Fluid Group                | Character (255) | Stores the fluid group.   | This field is populated automatically when you select a fluid. The Fluid Group is Group 1 or Group 2.  |
| Fluid Phase                | Character (255) | Specifies the fluid phase.  | This field is populated with relevant values from a drop-down list box when you select a fluid. The values in this field exist in the <a href="#">system code table</a> . The Fluid Phase is liquid or gas.                  |
| Fluid Type                 | Character (255) | Stores the fluid type.  | This field is populated automatically when you select a fluid. The Fluid Type is Flammable or Combustible.   |
| Insulated                  | Boolean         | Mentions whether the asset is insulated.  | This field can be used to record additional information about the asset. Select the check box if the asset is insulated.   |
| Internal Access            | Boolean         | Mentions whether internal access is available for an asset.                       | This field can be used to record additional information about the asset. Select the check box if internal access is available to inspect an asset.   |
| Internal Filling           | Boolean         | Mentions whether the fluid is filled internally.                                  | This field can be used to record additional information about the asset. Select the check box if the asset is filled internally.   |
| Internal Inspection Access | Boolean         | Mentions whether an asset is inspected internally.                                | This field can be used to record additional information about the asset. Select the check box if there is access available to inspect an asset internally.   |
| Nominal Thickness          | Numeric         | Specifies the manufactured or the estimated thickness used as a base measurement. | This field is populated automatically based on a specified piping nominal diameter value and schedule.   |

| Field                  | Data Type | Description   | Behavior and Usage  |
|------------------------|-----------|---|---|
| Operating Pressure     | Numeric   | Specifies the pressure of an asset during normal operation. It is measured in pounds per square inch gauge. | The value for this field can be specified manually using the datasheet.   |
| Operating Temperature  | Numeric   | Specifies the temperature of an asset during a normal operation. It is measured in degrees Fahrenheit.      | The value for this field can be specified manually using the datasheet.   |
| Operational Start Date | Date      | Mentions the operational start date for an asset.   | Select  for the Operation start date.  |
| Outer Diameter         | Numeric   | Specifies the diameter of a piping asset from the outer wall surface. It is measured in inches.             | This field is populated automatically based on a specified Piping Nominal Diameter value and Schedule.<br><br>This field is required to calculate certification requirements for the Asset Type Piping. |
| Override Certification | Boolean   | Specifies whether the calculated certification is to be overridden.   | If you select the Override Certification checkbox, you can override the certification field, and then select the value for the Override Certification field from a drop-down list box.                  |
| PDN                    | Numeric   | Mentions the value of Protected Pressure x Outer Diameter. It is measured in inches.                        | This field is populated automatically from the multiplication of Protected Pressure and Outer Diameter.   |

| Field                         | Data Type | Description   | Behavior and Usage  |
|-------------------------------|-----------|---|---|
| Piping Nominal Diameter - DN  | Numeric   | Specifies a nominal diameter for piping. It is measured in inches.  | <p>This field populates Piping Nominal Diameter as per ISO specifications. The values in Piping Nominal Diameter field is populated by a drop-down list box. This field will be disabled if Piping is not selected as the Asset Type. When a value is selected for the Piping Nominal Diameter - NPS or the Piping Nominal Diameter - DN fields:</p> <ul style="list-style-type: none"> <li>• A list of possible values are generated for the Schedule field.</li> <li>• After a value is selected for the Schedule field, the Pipe Properties reference table populates the Nominal Thickness and the Outside Diameter fields.</li> </ul>                  |
| Piping Nominal Diameter - NPS | Numeric   | Specifies a nominal pipe size for piping. It is measured in inches. | <p>The field populates Piping Nominal Diameter according to the ASME specifications. The values in the Piping Nominal Diameter field will be populated by a drop-down list box. This field will be disabled if Piping is not selected as the Asset Type. When a value is selected for the Piping Nominal Diameter - NPS or the Piping Nominal Diameter - DN fields:</p> <ul style="list-style-type: none"> <li>• A list of possible values is generated for the Schedule field</li> <li>• After a value is selected for the Schedule field, the Pipe Properties reference table populates the Nominal Thickness and the Outside Diameter fields.</li> </ul> |



| Field              | Data Type       | Description  | Behavior and Usage   |
|--------------------|-----------------|--|--|
| Protected Pressure | Numeric         | Stores the protected pressure of the asset. It is measured in pounds per square inch gauge.        | Value for this field can be specified manually using the datasheet. This field is required to calculate certification requirements for the asset of the following types: <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Steam Boiler</li> <li>• Piping</li> </ul>   |
| PV                 | Numeric         | Mentions the value of Protected Pressure x Volume. It is measured in pounds per square inch gauge. | This field is populated automatically from the multiplication of Protected Pressure and Volume.  |
| Schedule           | Character (255) | Specifies the schedule number corresponding to the wall thickness of the pipe.                     | When a value is selected for either the Piping Nominal Diameter - NPS or the Piping Nominal Diameter - DN fields, a list of possible values is generated for the Schedule field in a drop-down list box. This field will be disabled and blank if Asset Type is not selected as Piping.  |
| Volume             | Numeric         | Specifies the amount of fluid stored within an asset. It is measured in Gallons.                   | The value for this field can be specified manually using the datasheet. Value for this field can be specified manually using the datasheet. This field is required to calculate certification requirements for the asset of the following types: <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Steam Boiler</li> </ul> |

## Fluid Data

Fluid Data datasheet stores fluid-related information required for the certification calculation.

The table below provides an alphabetical list and description of the fields that exist for Fluid Data. The information in the table reflects the baseline state and behavior of these fields. This list is not comprehensive.

| Field                           | Data Type       | Description  | Behavior and Usage  |
|---------------------------------|-----------------|--|---|
| Category                        | Character (255) | Stores the fluid category list according to <a href="#">Table - F</a> .                        | This field contains a list of system codes which exist in the <a href="#">MI_INTGY_FLUID_CTGY system code table</a> . The values in this field are populated from a drop-down list box.                       |
| Description                     | Character (255) | Stores the fluid description.  | This field is populated automatically from the selected fluid name.   |
| Flash Point                     | Numeric         | Stores the flash point of the fluid.   | The value for this field can be specified manually using the datasheet.   |
| Group                           | Character (255) | Specifies the fluid group according to <a href="#">Table - F</a> .                             | This field is populated automatically according to the rules in <a href="#">Table - F</a> . This field contains a list of system codes that exist in <a href="#">MI_INTGY_FLUID_GROUP system code table</a> . |
| Maximum Permissible Temperature | Numeric         | Stores the maximum permissible temperature of the fluid. It is measured in degrees Fahrenheit. | Specify the value for this field manually using the datasheet.  |
| Name                            | Character (255) | Stores the name of the fluid.  | This field contains a list of system codes that exist in the <a href="#">MI_INTGY_FLUID_NAME system code table</a> . You can choose from the baseline values, populated from a drop-down list box.            |
| Type                            | Character (255) | Stores the type of fluid.  | This field contains a list of system codes that exist in the <a href="#">FLUID TYPES system code table</a> . The fluid type is Combustible or Flammable.  |

## Compliance Recommendation Mapping

The Compliance Recommendation Mapping family stores details related to Compliance Recommendations Mapping.

The table below provides an alphabetical list and description of the fields that exist for the Compliance Recommendation Mapping family. The information in the table reflects the baseline state and behavior of these fields. This list is not comprehensive.

| Field         | Data Type       | Description   | Behavior and Usage   |
|---------------|-----------------|---|--|
| Reference     | Character (255) | Specifies the reference to the system code.                 | This field stores the references of a mapping record which exist in the <a href="#">MI_MAPPING_REFERENCE system code table</a> . |
| Source Family | Character (255) | Stores the ID of the family from which it is mapped.        | This field contains the ID of the source family from which it is mapped.   |
| Source Field  | Character (255) | Stores the ID of the field from which it is mapped.         | This field contains the ID of the source field from which it is mapped.  |
| Target Family | Character (255) | Stores the ID of the target family from which it is mapped. | This field contains the target ID of the family to which it is mapped.   |
| Target Field  | Character (255) | Stores the ID of the target field from which it is mapped.  | This field contains the target ID of the family to which it is mapped.   |

## Inspection Summary Reference

The Inspection Summary Reference family stores inspection related information required for generating an Inspection Summary Reference record.

The table below provides an alphabetical list and description of the fields that exist for Inspection Summary Reference. The information in the table reflects the type and behavior of these fields. This list is not comprehensive.

| Field                  | Data Type | Description   | Behavior and Usage  |
|------------------------|-----------|---|---|
| Inspection Category    | Character | Stores the Inspection Category required for generating a report for the EU Inspection Report datasheet. | This field is populated with a list of inspection categories to be linked to an asset. This field is populated with the description of system codes stored in the <a href="#">MI_EN_DOC_CTGY</a> system code table. |
| Inspection Instruction | Character | Stores Inspection Instruction required for generating a report for the EU Inspection Report datasheet.  | This field is populated with a list of Inspection instructions to be linked to an asset. This field is populated with the description of system codes stored in the <a href="#">EU_INSP_INST</a> system code table. |
| Inspection Summary     | Text      | Stores the summary of observations that the Inspector enters for a European Inspection Event.           | In the EU Inspection report, based on the values selected in the Inspection Category and Inspection Instruction boxes, the summary will be auto populated with the value entered in this field.                     |

## European Admin Settings

The European Admin Settings family stores site-specific Compliance related information required for generating a European inspection task.

The table below provides an alphabetical list and description of the fields that exist for European Admin Settings. The information in the table reflects the type and behavior of these fields. This list is not comprehensive.

| Field                 | Data Type       | Description   | Behavior and Usage  |
|-----------------------|-----------------|---|---|
| Site                  | Character (255) | User defines the site that should have the values specified in Compliance Window and Inspection Documentation Window when a new Inspection Task is created for an asset belonging to the site. The user can access only those sites that he has the access. | This field contains a list of sites that are available to the user, setting up the European Admin Settings. This is a required field.<br><br><b>Note:</b> After a record is created for a site, you cannot create another record for the same site. |
| Applicable Regulation | Character (255) | Stores the regulation type that is applicable to a task.  | This field is populated with a list of regulations to be linked to a task. This field is populated with a description of system codes stored in <a href="#">MI_INTGY_REGULATION</a> system code table. This field is always disabled.               |

| Field                           | Data Type | Description  | Behavior and Usage   |
|---------------------------------|-----------|--|--|
| Compliance Window               | Numeric   | Stores the value for Compliance Window in months.                                    | This field stores the duration in months and is copied to the Inspection Task when a new Inspection Task is created. The value for this field is specified manually. |
| Inspection Documentation Window | Numeric   | Stores the value for Inspection Documentation Window. The UOM is measured in Months. | This field stores the duration in months is copied to the Inspection Task when a new Inspection Task is created. The value for this field is specified manually.     |

## Field Mappings

### European Technical Data and Compliance Recommendation Mappings

When you create an Inspection Plan for an Asset that has related Asset Technical Data, following field values are mapped to the Compliance Recommendation from the Asset Technical Data family.

The following table lists the Compliance Recommendations fields that are populated automatically from these sources.

| Family | Asset Technical Data  | Compliance Recommendation |
|--------|-----------------------|---------------------------|
| Fields | Chamber               | Chamber                   |
|        | Certification         | Certification             |
|        | Applicable Regulation | Applicable Regulation     |

The following table lists the mappings from Compliance Recommendation to the Inspection Task.

| Family | Compliance Recommendation | Inspection Task       |
|--------|---------------------------|-----------------------|
| Fields | Certification             | Certification         |
|        | Applicable Regulation     | Applicable Regulation |

### Inspection Task and Inspection Event Mappings

When you generate an Inspection Report from an Inspection Task, following field values are mapped to the Inspection Event family from the Inspection Task family.

The following table lists the Inspection Event fields that are populated automatically.

| Family | Inspection Task       | Inspection Event      |
|--------|-----------------------|-----------------------|
| Fields | Certification         | Certification         |
|        | Applicable Regulation | Applicable Regulation |

## Policies

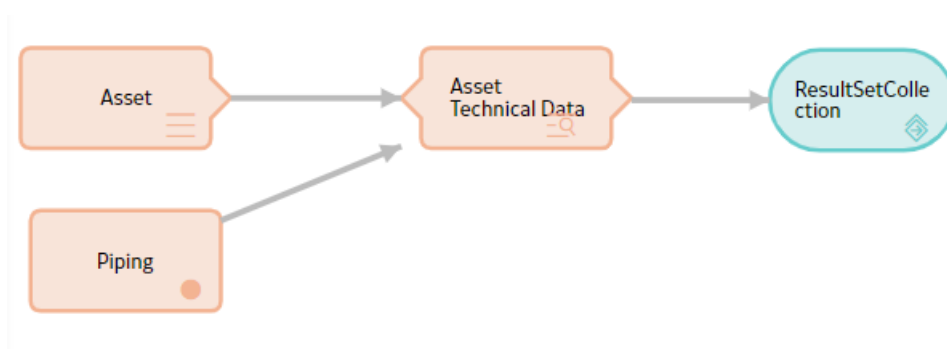
### Policies

GE Digital APM provides eight Policies for the European Inspection Compliance. You can use these Policies in the Compliance Strategy Templates to generate the Compliance Recommendations in intervals specified in the Inspection Requirements for European Regulation. The following table lists the names of the Policies along with the IDs of the corresponding Compliance Strategies:

| Policy Name  | Description  | Compliance Strategy ID  |
|--------------|--|---|
| EU_PIPE_EQPT | Generates European Compliance Recommendations for Piping with respect to the Asset family.                               | <ul style="list-style-type: none"> <li>EU_PIPE_EV_STRAT_008</li> <li>EU_PIPE_IV_STRAT_004</li> <li>EU_PIPE_STR_STRAT_012</li> </ul> |
| EU_PIPE_FLOC | Generates European Compliance Recommendations for Piping with respect to the Functional Location family.                 | <ul style="list-style-type: none"> <li>EU_PIPE_EV_STRAT_008</li> <li>EU_PIPE_IV_STRAT_004</li> <li>EU_PIPE_STR_STRAT_012</li> </ul> |
| EU_PV_EQPT   | Generates European Compliance Recommendations for Pressure Vessel with respect to the Asset family.                      | <ul style="list-style-type: none"> <li>EU_PV_EV_STRAT_005</li> <li>EU_PV_IV_STRAT_001</li> <li>EU_PV_STR_STRAT_009</li> </ul>       |
| EU_PV_FLOC   | Generates European Compliance Recommendations for Pressure Vessel with respect to the Functional Location.               | <ul style="list-style-type: none"> <li>EU_PV_EV_STRAT_005</li> <li>EU_PV_IV_STRAT_001</li> <li>EU_PV_STR_STRAT_009</li> </ul>       |
| EU_SB_EQPT   | Generates European Compliance Recommendations for Steam Boiler with respect to the Asset family.                         | <ul style="list-style-type: none"> <li>EU_SB_EV_STRAT_007</li> <li>EU_SB_IV_STRAT_003</li> <li>EU_SB_STR_STRAT_011</li> </ul>       |
| EU_SB_FLOC   | Generates European Compliance Recommendations for Steam Boiler with respect to the Functional Location family.           | <ul style="list-style-type: none"> <li>EU_SB_EV_STRAT_007</li> <li>EU_SB_IV_STRAT_003</li> <li>EU_SB_STR_STRAT_011</li> </ul>       |
| EU_SPV_EQPT  | Generates European Compliance Recommendations for Simple Pressure Vessel with respect to the Asset family.               | <ul style="list-style-type: none"> <li>EU_SPV_EV_STRAT_006</li> <li>EU_SPV_IV_STRAT_002</li> <li>EU_SPV_STR_STRAT_010</li> </ul>    |
| EU_SPV_FLOC  | Generates European Compliance Recommendations for Simple Pressure Vessel with respect to the Functional Location family. | <ul style="list-style-type: none"> <li>EU_SPV_EV_STRAT_006</li> <li>EU_SPV_IV_STRAT_002</li> <li>EU_SPV_STR_STRAT_010</li> </ul>    |

#### EU\_PIPE\_EQPT

This Policy is used in the Compliance Strategies to generate European Compliance Recommendations for Piping with respect to the Asset family. The following image illustrates the model of the EU\_PIPE\_EQPT policy:



This policy uses two input nodes:

- Asset: This is an entity node which represents the Equipment family.
- Piping: This is a constant node of string `Piping`.

The node, Asset Technical Data Filter is a Query node that runs the [EU\\_Piping\\_Filter\\_EQ query](#). The Asset Technical Data Filter node uses the Entity Key of the Asset represented by the Asset node and the string represented by the Piping node as prompts for the EU\_Piping\_Filter\_EQ query. When the Policy is executed, it generates a result set that contains the following information:

- The Entity Key of the Asset Technical Data related to the Asset represented by the Asset node.
- The Family ID of Asset Technical Data related to the Asset represented by the Asset node.
- The Strategy ID used to generate the Compliance Recommendation.

The policy then uses this information in the result set to generate the Compliance Recommendations and map the data to it, using the Compliance Recommendation Mapping family.

## System Code Tables

### European Inspection Management System Code Tables

The following table lists the System Code Tables for European Inspection Management:

| System Table ID            | System Table Description | System Code ID         | System Code Description          | Behavior and Usage   |
|----------------------------|--------------------------|------------------------|----------------------------------|--|
| MI_COMPLIANCE_STAN<br>DARD | Compliance Standard      | API 510                | API 510                          | This system code table stores the certification value. The values in this field are populated from a drop-down list box. |
|                            |                          | API 653                | API 653                          |  |
|                            |                          | NBIC                   | NBIC                             |  |
|                            |                          | API 650                | API 650                          |  |
|                            |                          | ASTM 1137              | ASTM 1137                        |  |
|                            |                          | DIN 43760              | DIN 43760                        |  |
|                            |                          | API 570                | API 570                          |  |
|                            |                          | TC-1A MT II            | ASNT TC-1A MT Level II           |  |
|                            |                          | TC-1A PT II            | ASNT TC-1A PT Level II           |  |
|                            |                          | TC-1A RT II            | ASNT TC-1A RT Level II           |  |
|                            |                          | TC-1A UT Thickness II  | ASNT TC-1A UT Thickness          |  |
|                            |                          | TC-1A UT Shearwave II  | ASNT TC-1A UT Shearwave Level II |  |
|                            |                          | ZUS                    | ZUS                              |  |
| BP                         | bP                       |                        |                                  |  |
| MI_INTGY_FLUID_CTGY        | Integrity Fluid Category | Explosive              | Explosive                        | This system code table stores the fluid category list. The values in this field are populated from a drop-down list box. |
|                            |                          | Flammable Category 1   | Flammable Category 1             |  |
|                            |                          | Flammable Category 2   | Flammable Category 2             |  |
|                            |                          | Flammable Category 3   | Flammable Category 3             |  |
|                            |                          | Pyrophoric             | Pyrophoric                       |  |
|                            |                          | Acute Toxic Category 1 | Acute Toxic Category 1           |  |
|                            |                          | Acute Toxic Category 2 | Acute Toxic Category 2           |  |
|                            |                          | Oxidising              | Oxidising                        |  |
|                            |                          | Corrosive              | Corrosive                        |  |
|                            |                          | Others                 | Others                           |  |



| System Table ID          | System Table Description         | System Code ID                 | System Code Description                          | Behavior and Usage   |
|--------------------------|----------------------------------|--------------------------------|--|--|
| NR13_FLAMMABLE           | NR13_FLAMMABLE                   | C                              | Combustible                                      | This system code table stores the type of fluid. The fluid type is either Combustible or Flammable.  |
|                          |                                  | I                              | Flammable  |  |
| FLUID TYPES              | Fluid Types                      | Gas                            | Gas  | This system code table stores the type of fluid. The fluid type is either Gas or Liquid.   |
|                          |                                  | Liquid                         | Liquid   |  |
| MI_INTGY_ASSET_TYPE      | Integrity Asset Type             | Steam Boiler                   | Steam Boiler                                     | This system code table is required to calculate certification requirements for the asset of the following types: <ul style="list-style-type: none"> <li>• Pressure Vessel</li> <li>• Simple Pressure Vessel</li> <li>• Steam Boiler</li> <li>• Piping</li> </ul> |
|                          |                                  | Pressure Vessel                | Pressure Vessel                                  |  |
|                          |                                  | Simple Pressure Vessel         | Simple Pressure Vessel                           |  |
|                          |                                  | Piping                         | Piping   |  |
| MI_INTGY_REGULATION      | Integrity Inspection Regulations | European Inspection Regulation | European Inspection Regulation                   | This system code table is populated with a list of European Inspection regulations to be linked to a task. This field is always disabled.  |
| MI_MAPPING_REFEREN<br>CE | MI Mapping Reference             | ATD - CR                       | Asset Technical Data - Compliance Recommendation | This system code table stores the references of a Compliance Recommendation Mapping record   |
| MI_INTGY_FLUID_NAME      | Integrity Fluid Name             |                                |  | This system code table stores a list of fluid names. You can choose from the baseline values, populated from a drop-down list box  |
| MI_INTGY_FLUID_GROU<br>P | Integrity Fluid Group            | 1                              | 1  | This system code table specifies the fluid group according to <a href="#">Table - F</a> .  |
|                          |                                  | 2                              | 2  |  |

| System Table ID | System Table Description | System Code ID | System Code Description | Behavior and Usage  |
|-----------------|--------------------------|----------------|-------------------------|---|
| MI_CHAMBER      | Chamber                  | AHRS           | Half pipe jacket        | This system code table information about the type of chamber. The values in this field are populated from a drop-down list box. |
|                 |                          | AR             | Jacket                  |   |
|                 |                          | AVRS           | Full pipe jacket        |   |
|                 |                          | DISK           | Disk                    |   |
|                 |                          | FARM           | Loading arm             |   |
|                 |                          | GASK           | Gasket                  |   |
|                 |                          | GAUG           | Gauge                   |   |
|                 |                          | GSMT           | Total object            |   |
|                 |                          | HEAD2          | Head2                   |   |
|                 |                          | HEAD           | Head1                   |   |
|                 |                          | IR             | Interior                |   |
|                 |                          | IVRS           | Interior coil           |   |
|                 |                          | JAC2           | Jacket 2 chamber        |   |
|                 |                          | JAC3           | Jacket 3 chamber        |   |
|                 |                          | JACK           | Jacket 1 chamber        |   |
|                 |                          | NOZZ           | Nozzles                 |   |
|                 |                          | PRDR           | Hot chamber             |   |
|                 |                          | RDDR           | Tube chamber            |   |
|                 |                          | RUDR           | Shell chamber           |   |
|                 |                          | SHEE           | Sheet                   |   |
|                 |                          | SHEL           | Shell                   |   |
|                 |                          | SLTG           | Hose                    |   |
| SORA            | Miscellaneous chamber    |                |                         |   |
| SRVR            | Cold chamber             |                |                         |   |
| TUBE            | Tube                     |                |                         |   |
| TUSH            | Tubesheet                |                |                         |   |

| System Table ID | System Table Description         | System Code ID       | System Code Description  | Behavior and Usage  |
|-----------------|----------------------------------|----------------------|--|---|
| EU_INSP_INST    | European Inspection Instructions | AwSV-RT              | AwSV - Recurrent Test  | This system code table stores the value selected in the Inspection Instruction. The values in this field are populated from a drop-down list box. |
|                 |                                  | AwSV-BEF-COM-SC      | AwSV Test Before Commissioning - After a Significant Change    |   |
|                 |                                  | AwSV-BEF-COM-BR      | AwSV Test Before Commissioning - Before Restarting             |   |
|                 |                                  | AwSV-BEF-COM_FT      | AwSV Test Before Commissioning - For The First Time            |   |
|                 |                                  | AwSV-Decom           | AwSV Test When Decommissioned                                  |   |
|                 |                                  | D-CHK-BEF-STRT-UP-RI | D -Check Before Start-Up - After a Change Requiring Inspection |   |
|                 |                                  | D-CHK-BEF-STRT-UP-FT | D -Check Before Start-Up - For The First Time                  |   |
|                 |                                  | D-RI-PS              | D -Repeated Inspection -Checking the Pressure System           |   |
|                 |                                  | D-RT-Internal        | D -Repeated Test - Internal Test                               |   |
|                 |                                  | D-RI-OTST            | D -Repeated Test - Outside Test and Strength Test              |   |
|                 |                                  | D-PI-External        | D-Periodic Inspection - External Inspection                    |   |
|                 |                                  | D-PI-ST              | D-Periodic Inspection- Strength Test                           |   |
|                 |                                  | EX-BEF-COM-FT        | EX Test Before Commissioning - For The First Time              |   |
|                 |                                  | EX-BEF-COM-RI        | EX Test Before Start-Up After a Change Requiring Inspection    |   |
|                 |                                  | EX-PI-5.1            | EX-Periodic Inspection -5.1                                    |   |
|                 |                                  | EX-PI-5.3            | EX-Periodic Inspection -5.3                                    |   |
|                 |                                  | EX-RT-5.2            | EX-Recurrent Test -5.2   |   |
| INSP-REPORT     | Inspection Report                |                      |  |   |
| RESUME          | Resume                           |                      |  |   |

| System Table ID        | System Table Description | System Code ID                   | System Code Description               | Behavior and Usage  |
|------------------------|--------------------------|----------------------------------|---------------------------------------|---|
| MI_EN_DOC_CTGY         | Inspection               | Test Certificate by ZUS          | Test Certificate by ZUS               | This system code table stores the value selected in the Inspection Document Category. The values in this field are populated from a drop-down list box.   |
|                        |                          | Test Record by Company Inspector | Test Record by Company Inspector      |   |
|                        |                          | Test Report by Subcontractor     | Test Report by subcontractor          |   |
| MI_EU_TASK_RESCHED ULE | Inspection               | NXT_DT_BASED_ON_CO MPL_DATE      | Next Date Based on Completion Date    | This system code table captures the information based on how the Next Date field is calculated. The field can be calculated either by the Completion Date or the Previous Next Date. This field is always disabled. |
|                        |                          | NXT_DT_BASED_ON_PR EV_NXT_DT     | Next Date Based on Previous Next Date |   |

## Queries

### Queries

The following table lists the queries for European Inspection Management:

| Name of the Query                       | Query Description  |
|---|--|
| EU_Available_Assets_Piping_EQP          | Retrieves all the piping equipment available for linking to a Compliance Strategy Template.                            |
| EU_Available_Assets_Piping_FLOC         | Retrieves all the piping functional locations available for linking to a Compliance Strategy Template.                 |
| EU_Available_Assets_PressureVessel_EQP  | Retrieves all the pressure vessel equipment available for linking to a Compliance Strategy Template.                   |
| EU_Available_Assets_PressureVessel_FLOC | Retrieves all the pressure vessel functional locations available for linking to a Compliance Strategy Template.        |
| EU_Available_Assets_SPV_EQP             | Retrieves all the simple pressure vessel equipment available for linking to a Compliance Strategy Template.            |
| EU_Available_Assets_SPV_FLOC            | Retrieves all the simple pressure vessel functional locations available for linking to a Compliance Strategy Template. |
| EU_Available_Assets_SteamBoiler_EQP     | Retrieves all the steam boiler equipment available for linking to a Compliance Strategy Template.                      |
| EU_Available_Assets_SteamBoiler_FLOC    | Retrieves all the steam boiler functional locations available for linking to a Compliance Strategy Template.           |

| Name of the Query                 | Query Description   |
|-----------------------------------|---|
| EU_Piping_Filter_EQ               | Retrieves all the asset technical data records related to a piping equipment.                           |
| EU_Piping_Filter_FL               | Retrieves all the asset technical data records related to a piping functional location.                 |
| EU_PressureVessel_Filter_EQ       | Retrieves all the asset technical data records related to a pressure vessel equipment.                  |
| EU_PressureVessel_Filter_FL       | Retrieves all the asset technical data records related to a pressure vessel functional location.        |
| EU_SimplePressureVessel_Filter_EQ | Retrieves all the asset technical data records related to a simple pressure vessel equipment.           |
| EU_SimplePressureVessel_Filter_FL | Retrieves all the asset technical data records related to a simple pressure vessel functional location. |
| EU_SteamBoiler_Filter_EQ          | Retrieves all the asset technical data records related to a steam boiler equipment.                     |
| EU_SteamBoiler_Filter_FL          | Retrieves all the asset technical data records related to a steam boiler functional location.           |

# Chapter 5

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## Admin

### Topics:

- [Create European Admin Settings](#)
- [Delete a European Admin Settings Record](#)

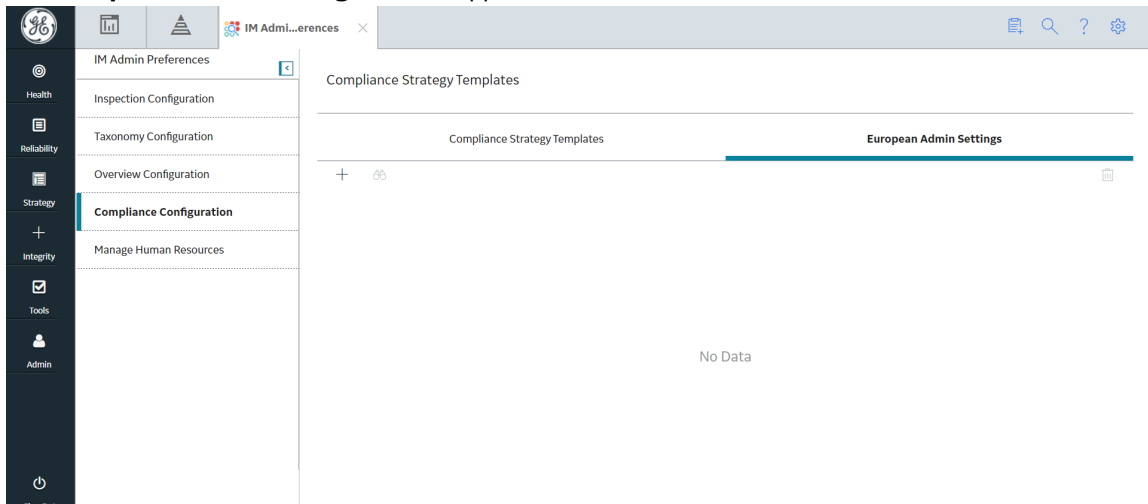
# Create European Admin Settings



## About This Task

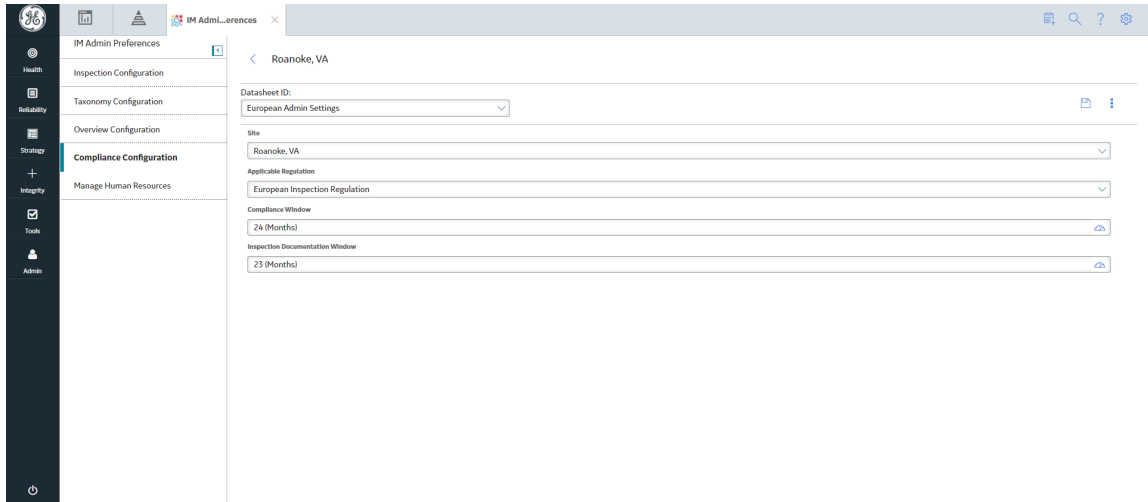
The European Admin Settings family stores site-specific Compliance related information which is mapped to a newly created Inspection Task for the site.


## Procedure

1. In the module navigate menu select **Admin > Application Settings > Inspection Management**.  
The **IM Admin Preferences** page appears.
2. Select **Compliance Configuration**.  
The **Compliance Strategy Templates** workspace appears.
3. Select the **European Admin Settings** tab.  
The **European Admin Settings** section appears.



4. Select .  
The **New European Admin Settings** workspace appears, displaying the European Admin Settings datasheet.
  5. In the datasheet, enter values in the [available fields](#).
  6. Select .
- A new site-specific record is created in the **European Admin Settings** datasheet.



**Note:** To print the record, select , and then select **Print**. The records is printed in the PDF format and downloaded to the default download directory.


## Delete a European Admin Settings Record

### About This Task

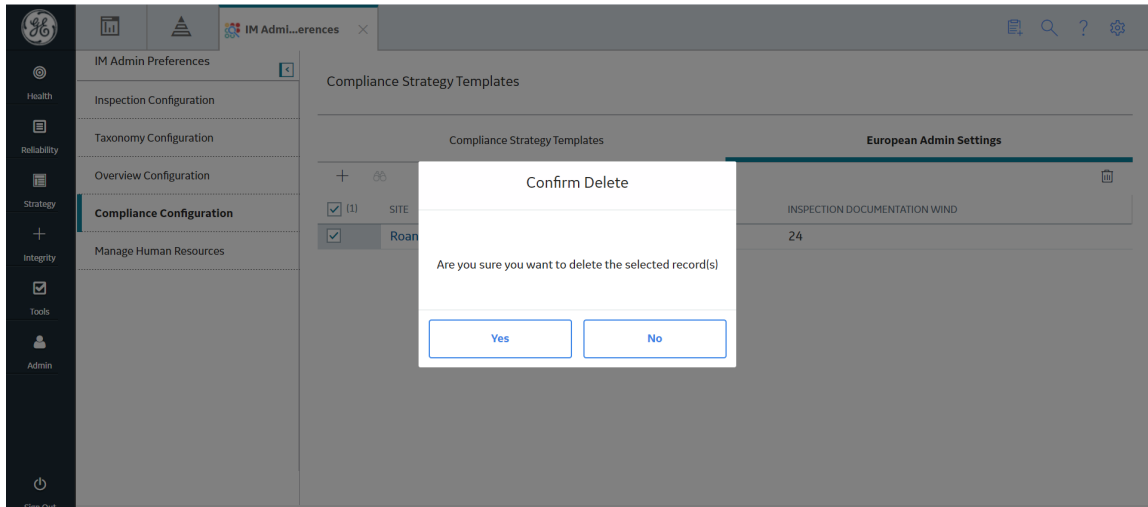
You can delete a site-specific record stored in the European Admin Settings list.

**Note:** When you delete an existing record from the European Admin Settings list that is already mapped to an European Inspection Task, the Inspection task will not be impacted by this change.

### Procedure

1. In the module navigate menu select **Admin > Application Settings > Inspection Management**. The **IM Admin Preferences** page appears.
2. Select **Compliance Configuration**. The **Compliance Strategy Templates** workspace appears.
3. Select the **European Admin Settings** tab. The **European Admin Settings** section appears, displaying the list of available records in the **European Admin Settings** tab.
4. Select the check box next to the record you want to delete and then, select . A window appears, asking you to confirm that you want to delete the record.





5. Select **Yes**.  
The record is deleted.