



Maximo Interfaces

V3.6.0.0.0



Meridium APM Maximo Interfaces V3.6.0.0.0

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Table of Contents

<u>ABOUT THIS DOCUMENT</u>	<u>1</u>
<u>DOCUMENTATION CONVENTIONS</u>	<u>3</u>
<u>BASICS</u>	<u>5</u>
OVERVIEW OF THE MAXIMO INTERFACES _____	5
MAXIMO INTERFACES SYSTEM REQUIREMENTS _____	6
DATA STRUCTURE _____	7
MAXIMO INTERFACES DATA MODEL _____	7
ABOUT RECORDS INCLUDED IN THE DATA MODEL _____	10
About CMMS System Records _____	10
About CMMS Interface Records _____	10
About CMMS Mapping Records _____	11
About Interface Log Records _____	12
<u>INSTALLATION, UPGRADE, AND CONFIGURATION</u>	<u>13</u>
FIRST-TIME DEPLOYMENT WORKFLOW _____	13
UPGRADE WORKFLOW _____	15
UPGRADE WORKFLOW _____	15
UPGRADING THE MAXIMO INTERFACES FROM V3.5.1 TO V3.6.0.0.0 _____	15
UPGRADING THE MAXIMO INTERFACES FROM V3.5.0 SP1 LP TO V3.6.0.0.0 _____	15
UPGRADING THE MAXIMO INTERFACES FROM V3.5.0 TO V3.6.0.0.0 _____	15
INSTALLATION, UPGRADE, AND CONFIGURATION STEPS _____	18
DEPLOYING THE WEB SERVICES _____	18
MAXIMO INTERFACES SECURITY GROUPS _____	20
MODIFYING THE BASELINE CMMS SYSTEM RECORD _____	21
SPECIFYING WHETHER TO CREATE WORK ORDERS OR SERVICE REQUESTS FROM RECOMMENDATION RECORDS _____	22
SPECIFYING WHETHER TO EXTRACT WORK ORDERS OR SERVICE REQUESTS FROM MAXIMO_	23
CREATING A SCHEDULED ITEM TO EXTRACT ITEMS FROM MAXIMO _____	24

<u>USER INSTRUCTIONS</u>	<u>27</u>
WORK ORDER CREATION INTERFACE _____	27
REQUIREMENTS FOR CREATING MAXIMO WORK ORDERS _____	27
Scenario A: Recommendation Record Is not Linked to an Equipment or Functional Location Record _____	27
Scenario B: Recommendation Record IS Linked to an Equipment or Functional Location Record _____	28
SUPPORTED RECOMMENDATION FAMILIES _____	28
CREATING MAXIMO WORK ORDERS FROM RECOMMENDATION RECORDS _____	29
UPDATING MAXIMO WORK ORDERS FROM RECOMMENDATION RECORDS _____	30
SERVICE REQUEST CREATION INTERFACE _____	31
REQUIREMENTS FOR CREATING MAXIMO SERVICE REQUESTS _____	31
Scenario A: Recommendation Record Is not Linked to an Equipment or Functional Location Record _____	31
Scenario B: Recommendation Record IS Linked to an Equipment or Functional Location Record _____	32
SUPPORTED RECOMMENDATION FAMILIES _____	32
CREATING MAXIMO SERVICE REQUESTS FROM RECOMMENDATION RECORDS _____	33
UPDATING MAXIMO SERVICE REQUESTS FROM RECOMMENDATION RECORDS _____	34
EQUIPMENT EXTRACTION INTERFACE _____	35
USING THE FUNCTIONAL LOCATION EXTRACTION INTERFACE _____	35
WORK ORDER EXTRACTION INTERFACE _____	36
SERVICE REQUEST EXTRACTION INTERFACE _____	37
WORK ORDER DETAIL EXTRACTION INTERFACE _____	39
SERVICE REQUEST DETAIL EXTRACTION INTERFACE _____	39
<u>REFERENCE INFORMATION</u>	<u>41</u>
MAXIMO INTERFACES CATALOG FOLDER STRUCTURE _____	41
FAMILY FIELD DESCRIPTIONS _____	41
CMMS SYSTEM _____	41
CMMS INTERFACE _____	42
CMMS MAPPING _____	47
INTERFACE LOG _____	53
SYSTEM CODE TABLES USED BY THE MAXIMO INTERFACES _____	57

VALUES MAPPED BETWEEN MAXIMO AND MERIDIUM APM	58
MAXIMO --> MERIDIUM APM	58
Maximo Values Mapped to Equipment Records	58
Values Mapped From Maximo	58
Constant Values	60
Maximo Values Mapped to Functional Location Records	60
Values Mapped From Maximo	60
Constant Values	61
Maximo Work Order Fields Mapped to Work History Records	62
Values Mapped From Maximo	62
Constant Values	65
Maximo Service Request Fields Mapped to Work History Records	66
Values Mapped From Maximo	66
Constant Values	66
Maximo Work Order Fields Mapped to Work History Detail Records	67
Values Mapped From Maximo	67
Constant Values	68
Maximo Service Request Fields Mapped to Work History Detail Records	68
Values Mapped From Maximo	68
Constant Values	69
MERIDIUM APM --> MAXIMO	69
Recommendation Values Mapped to Work Orders	69
Values Mapped from a Meridium APM Field	69
Constant Values	70
Baseline Values Mapped to Service Requests	70
Values Mapped from a Meridium APM Field	71
Constant Values	71
GLOSSARY	71
CMMS INTERFACE RECORD	71
CMMS MAPPING RECORD	72
CMMS SYSTEM RECORD	72
EQUIPMENT EXTRACTION INTERFACE	72
FUNCTIONAL LOCATION EXTRACTION INTERFACE	72
INTERFACE LOG RECORD	72
SERVICE REQUEST CREATION INTERFACE	72
SERVICE REQUEST DETAIL EXTRACTION INTERFACE	73
SERVICE REQUEST EXTRACTION INTERFACE	73
WORK ORDER CREATION INTERFACE	73
WORK ORDER DETAIL EXTRACTION INTERFACE	73
WORK ORDER EXTRACTION INTERFACE	73

About This Document

This file is provided so that you can easily print the **Maximo Interfaces** section of the Meridium APM Help system. This document is not meant to be read electronically using the PDF. If you want to read the documentation electronically, you should use the Help system. This file is set up to facilitate double-sided printing and includes blank pages between sections so that each section will begin on an odd page and will be printed on the *front* of the page.

Because this file represents an excerpt from the Help system, parts of this document may seem incomplete outside of the Help system itself. When you read the documentation via the Help system, you will see links which serve as cross-references to other areas of the documentation. These cross-references are not available in this document.

To access the Meridium APM Help, in the Meridium APM Framework application, click the **Help** menu, and then click **Meridium APM Framework Help**.

Documentation Conventions

Throughout the documentation, we use various stylistic conventions that make it easier to interpret information and instructions. The following table provides a list and description of the conventions that are used throughout the Meridium APM documentation.

Convention	Description	Example
Bold	Identifies labels that appear on the screen. Identifies folder paths and file names when the folder path or file name is included in step-by-step instructions.	The Save As dialog box appears. Click Cancel . In the Catalog folder \\Public\Meridium\Modules\Core\Queries , open the query Field History Records .
\\	Identifies the beginning of a folder path.	The query is located in the following Catalog folder: \\Public\Meridium\Modules\Core\Queries .
Courier New	Identifies text that you must type.	Type root .
<>	Indicates that the data inside the angle brackets is variable.	Click Expand/Collapse <Record>'s Children , where <Record> is the ID of the selected record.

Convention	Description	Example
[]	Indicates that the data inside the square brackets is optional.	Type the following text: <Meridium APM Catalog Path>,[Query Parameters] ...where: <ul style="list-style-type: none">• <Meridium APM Catalog Path> is the Catalog path of the desired query.• [Query Prompt Value] is a value that you want to supply for a prompt in the query. If you do not pass in query prompt values, you will be prompted to supply them when you run the query.

Basics

Overview of the Maximo Interfaces

The *Maximo Interfaces* feature allows you to transfer data between your Maximo system and your Meridium APM system. The Maximo Interfaces feature includes the following interfaces:

- **Work Order Creation Interface:** Allows you to create and update Work Orders in your Maximo system using values in Recommendation records in your Meridium APM system.
- **Service Request Creation Interface:** Allows you to create and update Service Requests in your Maximo system using values in Recommendation records in your Meridium APM system.
- **Equipment Extraction Interface:** Allows you to extract data about assets from your Maximo system and import them into your Meridium APM system as Equipment records.
- **Functional Location Extraction Interface:** Allows you to extract data about locations from your Maximo system and import them into your Meridium APM system as Functional Location records.
- **Work Order Extraction Interface:** Allows you to extract Work Orders from your Maximo system and import them into your Meridium APM system as Work History records.
- **Service Request Extraction Interface:** Allows you to extract Service Requests from your Maximo system and import them into your Meridium APM system as Work History records.

Note: You cannot run the Work Order Extraction Interface and the Service Request Extraction Interface. You can run only one or the other.

- **Work Order Detail Extraction Interface:** Allows you to extract Work Order failure information from your Maximo system and import it into your Meridium APM system as Work History Detail records.

- **Service Request Detail Extraction Interface:** Allows you to extract Service Requests from your Maximo system and import it into your Meridium APM system as Work History Detail records.

Note: You cannot run the Work Order Detail Extraction Interface and the Service Request Detail Extraction Interface. You can run only one or the other.

The Maximo Interfaces cannot be used to extract items with dates *earlier than* January 1, 1970. For example, you cannot extract an asset with a Changed Date of December 21, 1969.

Maximo Interfaces System Requirements

The *Maximo Interfaces* feature allows you to integrate Meridium APM with your Maximo system. The *Maximo Interfaces* license is required to take advantage of Maximo Interfaces functionality. In addition, your system must contain the basic Meridium APM system architecture and the following additional components:

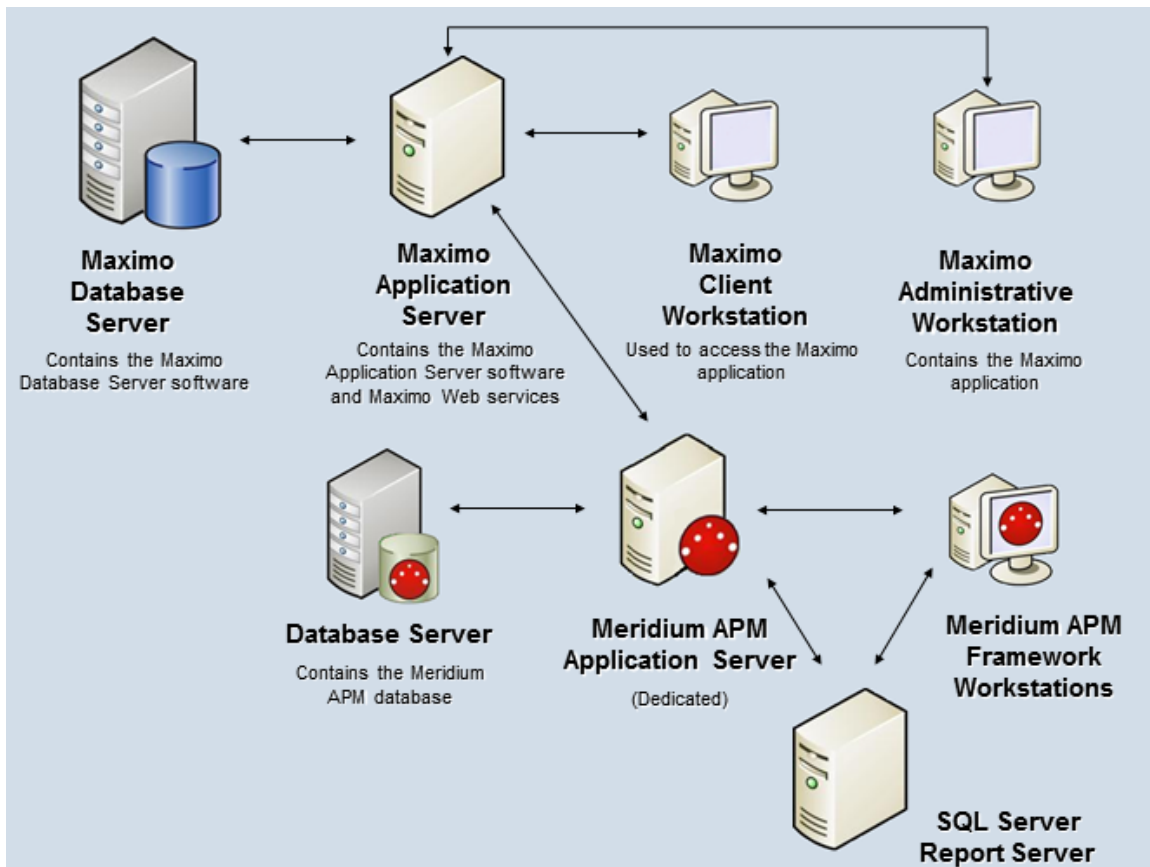
- **Maximo Application Server:** A Maximo Application Server machine that houses the Maximo Web Services and is running version 7.1 or 7.5.

Note: Before users begin using the Maximo Interfaces, the Maximo Application Server must contain the following Web Services, which must be deployed and defined as object structure services: MIASSET, MIOPERLOC, MIWO, MIWODETAIL, and MISR.

- **Maximo Database Server:** A database that houses the Maximo data model and data and is running a version that is supported by the Maximo Application Server. For details on requirements of the Maximo Database Server, see the Maximo documentation.
- **Maximo Client Workstation:** A computer that is used to access the Maximo application. For details on the requirements of the Maximo Client workstation, see the Maximo documentation.
- **Maximo Administrative Workstation:** A computer that contains the Maximo application. For details on the requirements of the Maximo Administrative workstation, see the Maximo documentation.

After you have installed and configured the basic Meridium APM application, you will need to perform some configuration steps for Maximo Interfaces.

The following image shows how the additional Maximo machines should be incorporated into the basic Meridium APM system architecture to support the Maximo Interfaces.



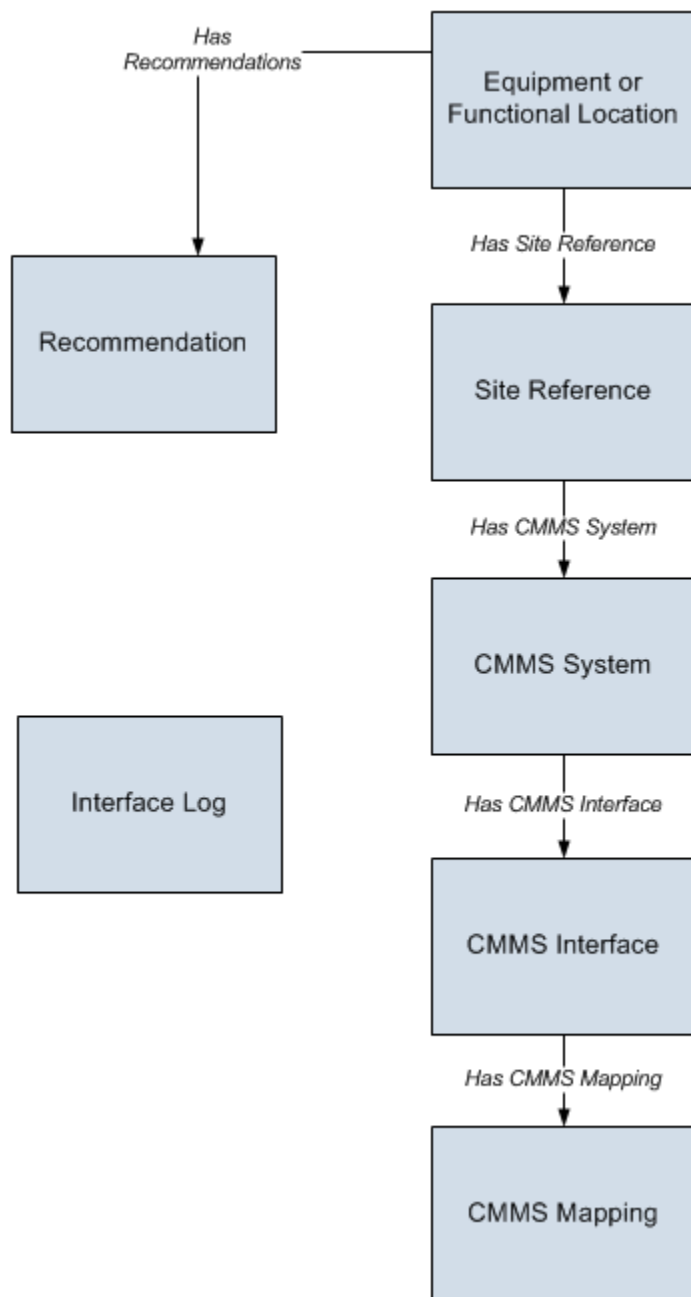
Data Structure

Maximo Interfaces Data Model

Like all Meridium APM modules, the Meridium APM Maximo Interfaces feature consists of entity families, relationship families, and business rules. When attempting to understand and make use of the Meridium APM Maximo Interfaces functionality, it can be helpful to visualize the Maximo Interfaces data model.

Because you should already be familiar with the concept of records and viewing records in the Meridium APM Record Manager, as you attempt to get your bearings in the Maximo Interfaces, it may be useful to remember that the Maximo Interfaces simply offers functionality that allows you to create and view records.

The following image illustrates how families used by the Maximo Interfaces feature are related to one another. In the following image, boxes represent entity families, and arrows represent relationship families that are configured in the baseline database.



In addition, you can link each Equipment or Functional Location record to a Site Reference record, which identifies the site to which that equipment or location belongs.

About Records Included in the Data Model

About CMMS System Records

CMMS System records are used to store identifying information about your Maximo system. The baseline Meridium APM database includes a CMMS System record that you can use as a starting point for identifying your Maximo system.

If you have more than one Maximo system, you will need to create additional CMMS System records to identify each system. You can use the Default field to indicate which system you want to use by default.

Each CMMS Interface record is linked to:

- One predecessor Site Reference record, which identifies the site that uses that Maximo system.
- One or more successor CMMS Interface records, which identify the interfaces that will be used to connect to this system.

Note: Data can be transferred to and from a Maximo system only if the CMMS System record is linked to the appropriate CMMS Interface record(s) and the Enabled check box on the CMMS System datasheet is selected.

If you delete a CMMS System record, all CMMS Interface records to which it is linked will also be deleted. In addition, any CMMS Mapping records that were linked to the deleted CMMS Interface records will also be deleted if they are not linked to other CMMS Interface records.

About CMMS Interface Records

Each interface that is included in the Maximo Interfaces is represented by a *CMMS Interface* record. CMMS Interface records are used to identify two main items:

- How the Meridium APM system will communicate with the Maximo system.
- Which interface the record supports, which indicates the type of Maximo data that will be created or extracted.

The Meridium APM database contains the following baseline CMMS Interface records that support the baseline interfaces:

- Equipment Extraction (EE)
- Functional Location Extraction (FLE)
- Work History (WH) - Service Request
- Work History (WH) - Work Order
- Work History Detail (WHD) - Service Request
- Work History Detail (WHD) - Work Order
- Work Request (WR) - Service Request
- Work Request (WR) - Work Order

You must *modify* the baseline CMMS Interface records to supply the appropriate connection information. In addition, if your system architecture includes more than one Maximo system, for each separate Maximo system, you will need to create the appropriate CMMS Interface records and link them to the CMMS System record that defines that Maximo system.

Each CMMS Interface record is linked to:

- One predecessor CMMS System record, which identifies the Maximo system that should be used when this interface is invoked.
- Multiple successor CMMS Mapping records, which identify how data will be mapped using this interface.

About CMMS Mapping Records

CMMS Mapping records are used to identify how values will be mapped and which values will be mapped between the Meridium APM system and the Maximo system. Each CMMS Mapping record is linked to one predecessor CMMS Interface record that identifies the interface that uses that mapping.

The baseline Meridium APM database contains multiple CMMS Mapping records, which are linked to the baseline CMMS Interface record that is used by the Maximo Interfaces.

You can accept the values in the baseline CMMS Mapping records, or you can modify them if you want to map the data differently.

About Interface Log Records

Each time an interface is run, an Interface Log record is created automatically to store information about the process, such as the status of the process (e.g., Completed with warnings), the date the interface was run, and the parameters that were used to run the interface.

If the value in an Interface Log record is *Completed with Warnings* or *Completed with Errors*, a Super User or a member of the MI CMMS Interfaces Administrator Security Group can review the warnings or errors and then change the status to *Completed with Warnings (Cleared)* or *Completed with Errors (Cleared)*.

Installation, Upgrade, and Configuration

First-Time Deployment Workflow

Deploying and configuring the Maximo Interfaces for the first time includes completing multiple steps, which are outlined in the table in this topic. The steps in this section of the documentation provide all the information that you need to deploy and configure the Maximo Interfaces on top of the basic Meridium APM system architecture.

Whether a step is required or optional is indicated in the **Required/Optional** cell. Steps are marked as *Required* if you must perform the step to take advantage of Maximo Interfaces functionality.

The person responsible for completing each task may vary within your organization. We recommend, however, that the steps be performed in relatively the same order in which they are listed in the table.

Step	Task	Required/Optional	Notes
1	Ensure that the Maximo system requirements have been met.	Required	None
2	Deploy the Maximo Web services on the Maximo Application Server.	Required	None
3	Assign the desired Security Users to the Maximo Interfaces Security Groups via the Configuration manager application.	Required	None
4	Modify the baseline CMMS System record to define your default Maximo system.	Required	None
5	Review the values in the baseline CMMS Interface records, and modify any values as necessary.	Optional	None

Step	Task	Required/Optional	Notes
6	Review the values in the baseline CMMS Mapping records, and modify any values as necessary.	Optional	None
7	In each CMMS Interface record representing an extraction interface, modify the value in the Connection String field so that it contains valid connection information.	Required	None
8	Specify whether you want users to create Work Orders or Service Requests from Meridium APM Recommendation records.	Required	This step is necessary only for the Work Order Creation and Service Request Creation Interfaces.
9	Specify whether you want users to extract Work Orders or Service Requests when creating Meridium APM Work History records.	Required	<p>This steps is necessary only for the following interfaces:</p> <ul style="list-style-type: none"> • Work Order Extraction • Work Order Detail Extraction • Service Request Extraction • Service Request Detail Extraction
10	Create a scheduled item in the Schedule Manager application that will cause the Meridium APM system to extract the items from the Maximo system on a pre-defined schedule.	Required	This step is necessary only for the extraction interfaces.

Upgrade Workflow

Upgrade Workflow

You can upgrade to V3.6.0.0.0 using the instructions that are provided in this section of the documentation. To access these instructions, click the starting version from which you are upgrading:

- V3.5.1
- V3.5.0 SP1 LP
- V3.5.0

Upgrading the Maximo Interfaces from V3.5.1 to V3.6.0.0.0

The Maximo Interfaces will be upgraded from V3.5.1 to V3.6.0.0.0 automatically when you upgrade the components in the basic Meridium APM system architecture.

Upgrading the Maximo Interfaces from V3.5.0 SP1 LP to V3.6.0.0.0

The Maximo Interfaces will be upgraded from V3.5.0 SP1 LP to V3.6.0.0.0 automatically when you upgrade the components in the basic Meridium APM system architecture.

Upgrading the Maximo Interfaces from V3.5.0 to V3.6.0.0.0

The following table lists the step that is required to upgrade and configure the Maximo Interfaces for V3.6.0.0.0. This step assumes that you have completed the steps for upgrading the components in the basic Meridium APM system architecture.

Step	Task	Required/Optional	Notes
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Step	Task	Required/Optional	Notes
1	<p>Run the following query to ensure that your database does not contain duplicate Work History records:</p> <pre> SELECT Count([MI_EVWKHIST].ENTY_KEY) "Total Number of Records", [MI_EVWKHIST].[MI_EVENT_ID] "Event ID", [MI_EVWKHIST].[MI_EVWKHIST_SAP_SYSTEM_C] "CMMS System" FROM [MI_EVWKHIST] GROUP BY [MI_EVWKHIST].[MI_EVENT_ID], [MI_EVWKHIST].[MI_EVWKHIST_SAP_SYSTEM_C] </pre>	Optional	<p>In V3.5.0, if you ran the Work Order Detail Extraction Interface <i>before</i> running the Work Order Extraction Interface, duplicate Work History records would be created to represent the same Maximo Work Order. The first Work History record would be created when you ran the Work Order Detail Extraction Interface, and a second, duplicate Work History record would be created when you ran the Work Order Extraction Interface. The first record</p>

Installation, Upgrade, and Configuration Steps

Deploying the Web Services

The following instructions explain how to deploy the *MIASSET* Web Service. You will need to repeat these instructions four additional times to deploy the following additional Web Services:

- MIOPERLOC
- MIWO
- MIWODETAIL
- MISR

Each of these additional Web Services will be created as a duplicate of an existing Maximo Web Service, as described below:


- **MIOPERLOC:** Create as a duplicate of MXOPERLOC
- **MIWO:** Create as a duplicate of MXWO
- **MIWODETAIL:** Create as a duplicate of MXWODETAIL
- **MISR:** Create as a duplicate of MXSR

In the following instructions, where you see *MXASSET*, you can replace it with one of the Maximo Web Services listed above. Where you see *MIASSET*, you can replace it with the corresponding Maximo Web Service listed above. For example, to deploy the Web Service used by the Functional Location Extraction Interface, in the following instructions, you would need to replace *MXASSET* with *MXOPERLOC*. Likewise, you would need to replace *MIASSET* with *MIOPERLOC*.

To deploy the Web Services:

1. In the Maximo application, on the **Go To** menu, point to **Integration**, and then click **Object Structures**.

The **List** tab appears.

2. In the **Object Structure** text box, type: **MXASSET**
3. Press **Enter**.
4. To the right of the **List** tab, click the **Object Structure** tab.
5. In the **Select Action** list, select **Duplicate Object Structure**.
6. In the **Object Structure** text box, type: **MIASSET**
7. Click the  button.
8. In the **Select Action** list, select **Exclude/Include Fields**.
9. On the **Persistent Fields** tab, include all fields *except* **LANGCODE** and **HASLD**.
10. On the **Non-Persistent Fields** tab, include all fields.
11. On the **Go To** menu, point to **Integration**, and then click **Web Services Library**.
12. In the **Select Action** list, point to **Create Web Service**, and then click **Create WS from Object Structure**.
13. In the list, to the left of the object structure with the name **MIASSET**, select the check box.
14. Click the **Create** button.

A message appears, indicating the schema will be regenerated for every operation in this service.

15. Click **OK**.

16. In the **Select Action** list, click **Deploy Web Service**.

The Web Service is deployed.

Maximo Interfaces Security Groups

Meridium APM provides the following baseline Security Groups for use with the Maximo Interfaces:

- MI CMMS Interface Administrator
- MI CMMS Interface User

The following table lists the family-level privileges that exist for these Security Groups.

Entity Families		
Family	MI CMMS Interface Administrator	MI CMMS Interface User
CMMS Interface	View, Update, Insert, Delete	View
CMMS Mapping	View, Update, Insert, Delete	View
CMMS System	View, Update, Insert, Delete	View
Equipment	View, Update, Insert, Delete	View
Functional Location	View, Update, Insert, Delete	View
Interface Log	View, Update, Insert, Delete	View
SAP System ¹	View, Update, Insert, Delete	View
Site Reference	View	View
Work History	View, Update, Insert, Delete	View, Update, Insert

Entity Families		
Work History Detail	View, Update, Insert, Delete	View, Update, Insert
Relationship Families		
Family	MI CMMS Interface Administrator	MI CMMS Interface User
Equipment Has Equipment	View, Update, Insert, Delete	View, Update, Insert
Functional Location Has Equipment	View, Update, Insert, Delete	View, Update, Insert
Functional Location Has Functional Location(s)	View, Update, Insert, Delete	View, Update, Insert
Has CMMS Interface	View, Update, Insert, Delete	View
Has CMMS Mapping	View, Update, Insert, Delete	View
Has CMMS System	View, Update, Insert, Delete	View
Has Event Detail	View, Update, Insert, Delete	View, Update, Insert
Has SAP System ¹	View, Update, Insert, Delete	View
Has Work History	View, Update, Insert, Delete	View, Update, Insert

1. The Maximo Interfaces workflows do not create records in the SAP System or Has SAP System family. These families are used by the SAP Interfaces feature. The Maximo Interfaces Security Groups require family-level privileges to these families because the SAP Interfaces and the Maximo Interfaces share some of the same rules. If these privileges do not exist, users will receive errors in the Meridium APM Framework when they try to create Work Requests from Recommendation records.

Modifying the Baseline CMMS System Record

To modify the baseline CMMS System record:

1. Using the Search Tool, perform a search on the CMMS System family.

- From the search results, open the baseline CMMS System record with the Record ID <YOUR MAXIMO SYSTEM NAME>.

The CMMS System record appears in the Record Manager.

Details	
	Value(s)
▶ Name	<YOUR MAXIMO SYSTEM NAME>
Description	<YOUR MAXIMO SYSTEM NAME DESCRIPTION>
Enabled	<input type="checkbox"/>
Is Default?	<input type="checkbox"/>
Type	Maximo

- In the **Name** cell, delete the text <YOUR MAXIMO SYSTEM NAME>, and type the name of your Maximo system.
- In the **Description** cell, delete the text <YOUR MAXIMO SYSTEM NAME DESCRIPTION>, and type a description of your Maximo system.
- Select the **Enabled** check box.
- If you want this Maximo system to be used by default when data is transferred from Meridium APM to Maximo, select the **Default** check box.

Note: Only *one* CMMS System record can be designated as the default record.

- On the **Common Tasks** menu, click the **Save** link.

The CMMS System record is saved.

Specifying Whether to Create Work Orders or Service Requests from Recommendation Records

When you select the **Create Work Request** check box in a Recommendation record and save the record, the Meridium APM system will attempt to create a Work Order or a Service Request in the Maximo system. To specify which one should be created, you will need to select the **Enabled** check box in one of the following CMMS Interface records:

- Work Request (WR) <Maximo System Name> Service Request
- Work Request (WR) <Maximo System Name> Work Order

If you want to create *Service Requests* from your Recommendation records, you will need to select the **Enabled** check box in the *Work Request (WR) <Maximo System Name> Service Request* record. Likewise, if you want to create *Work Orders* from your Recommendation records, you will need to select the **Enabled** check box in the *Work Request (WR) <Maximo System Name> Work Order* record.

Note: If you select the **Enabled** check box in both records, an error message will appear after you save the Recommendation record.

Specifying Whether to Extract Work Orders or Service Requests from Maximo

When you run the scheduled item that an administrative user created for the purpose of extracting Maximo Work Orders or Service Requests, the Meridium APM system will attempt to extract a Work Order or a Service Request from the Maximo system. To specify which one should be extracted, you will need to select the **Enabled** check box in one of the following CMMS Interface records:

- Work History (WH) <Maximo System Name> Service Request
- Work History (WH) <Maximo System Name> Work Order

If you want to extract *Service Requests* from Maximo, you will need to select the **Enabled** check box in the *Work History (WH) <Maximo System Name> Service Request* record. Likewise, if you want to extract *Work Orders* from Maximo, you will need to select the **Enabled** check box in the *Work History (WH) <Maximo System Name> Work Order* record.

Note: If you select the **Enabled** check box in both records, an error message will appear when you run the scheduled item.

Likewise, you can also extract failure information from Work Orders. To do so, you will need to make sure that the **Enabled** check box is selected in the *Work History Detail (WHD) <Maximo System Name> Work Order* record. If you are extracting Service Requests instead of Work Orders, although they do not contain failure information, you will also want to select the **Enabled** check box

in the *Work History Detail (WHD)* <Maximo System Name> *Service Request* record.

Creating a Scheduled Item to Extract Items from Maximo

Using the Maximo Interfaces, you can extract the following Maximo items from your Maximo system into your Meridium APM system:

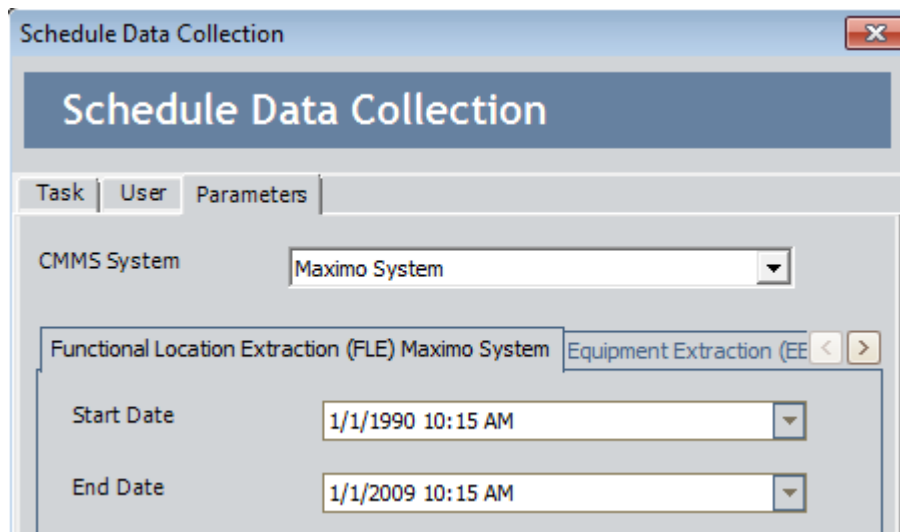
- Assets (will be used to create Equipment records in the Meridium APM system)
- Locations (will be used to create Functional Location records in the Meridium APM system)
- Work Orders and Service Requests (will be used to create Work History and Work History Detail records in the Meridium APM system)

To enable this functionality, an administrative user must create a scheduled item in the Schedule Manager that will cause Meridium APM to extract the items on a pre-defined schedule.

Use the following guidelines for creating a scheduled item that will extract items from Maximo:

- On the **Choose a Meridium APM Assembly** dialog box, select the file `Meridium.Integration.dll`.
- On the **Choose an Object Type** dialog box, select the file `Meridium.Integration.CMMS.DataCollection.DataCollectionTask`.
- On the **Task** tab, define a schedule that will execute the scheduled item on a recurring basis. The frequency by which you want to execute the scheduled item is up to you.
- On the **User** tab, specify a Security User who is either a Super User or a member of the MI CMMS Interface Administrator Security Group.
- On the **Parameters** tab:

- In the CMMS System list, select the Maximo system from which you want to extract data.
- On the Parameters tab, after you have selected the Maximo system from which you want to extract data, use each item-specific tab to define the range of creation or modification dates of the items that you want to extract. For example, if you want to extract Functional Locations that were created or changed on or after January 1, 1990 and on or before January 1, 2009, you would specify the dates on the **Functional Location Extraction (FLE) Maximo System** tab as shown in the following image:



If you define parameters on *all* tabs, the interfaces will be run in the following order:

- Functional Location Extraction
- Equipment Extraction
- Work Order and Service Request Extraction
- Work Order and Service Request Detail Extraction

Note: To determine which tabs appear on the **Parameters** tab, the Meridium APM system runs the **Interfaces Related to a System** query, which is stored in the Meridium APM Catalog. This query contains a prompt for a CMMS system name, and the value that you select in the **CMMS System** list on the **Parameters** tab is passed into the query prompt automatically. The query returns the CMMS Interface records that are linked to the CMMS System record whose Name field contains the value that you selected in the **CMMS System** list. For each CMMS Interface record that is returned by the query, a corresponding tab is displayed on the **Parameters** tab. By default, the query is configured to return all CMMS Interface records *except* the ones that contain the value *Work Request (WR)* in the Interface Type field.

User Instructions

Work Order Creation Interface

Requirements for Creating Maximo Work Orders

In order to create a Maximo Work Order from a Meridium APM Recommendation record, at a minimum, your database must contain a CMMS System record whose Enabled field contains the value *True*. The CMMS System record is used to define the connection information to your Maximo system. If the SAP Interfaces and the Maximo Interfaces licenses are both active, in addition to this requirement, certain additional conditions must be met regarding the SAP System and CMMS System records that exist in the database. The exact conditions that must be met depend on the following main factors:

- Whether or not the Recommendation record is linked to an Equipment or Functional Location record.
- Whether or not that Equipment or Functional Location record is linked to a Site Reference record.

The following scenarios describe the conditions that must exist in each of these cases.

-

Scenario A: Recommendation Record Is not Linked to an Equipment or Functional Location Record

In this scenario, you can create a Work Order successfully only if *both* of the following conditions are true:

- Either NO SAP System records exist or none of the existing SAP System records contain the value *True* in the Default SAP System field.

-and-

- A CMMS System record exists with the value *True* in the Is Default field.

-

Scenario B: Recommendation Record IS Linked to an Equipment or Functional Location Record

Option 1: The Equipment or Functional Location record IS linked to a Site Reference record

In this scenario, you can create a Work Order successfully only if NO SAP System records exist in the database. In addition, if the Site Reference record is linked to a CMMS System record, the Work Order will be created automatically in the Maximo system represented by that CMMS System, regardless of whether or not the Is Default field in that record contains the value *True*. If, however, the Site Reference record is not linked to a CMMS System record, the requirements in option 2 must be met.

Option 2: The Equipment or Functional Location record is not linked to a Site Reference record

In this scenario, you can create a Work Order successfully only if *both* of the following conditions are true:

- Either NO SAP System records exist or none of the existing SAP System records contain the value *True* in the Default SAP System field.

-and-

- A CMMS System record exists with the value *True* in the Is Default field.

Supported Recommendation Families

You can create Maximo Work Orders from Recommendation records belonging to any baseline Recommendation family *except* for the following families:

- Recommendation (i.e., the *root* Recommendation family)

- AMS Asset Recommendation
- RBI Recommendation
- RCMO Recommendation
- Risk Assessment Recommendation

Because you can create a Maximo Work Order from a Recommendation record belonging to one of many families, throughout the Maximo Interfaces documentation, we refer to this record as a *Meridium APM Recommendation record*.

Creating Maximo Work Orders from Recommendation Records

Note: The following instructions assume that the Create Work Request field exists on the baseline datasheets for the supported Recommendation families. This field exists on the default datasheets in the baseline Meridium APM database, so these instructions assume that they have not been removed by an administrative user.

To create a Maximo Work Order from a Recommendation record:

1. Create a new or open an existing Recommendation record.
2. Make sure that the Recommendation record is linked to the Equipment or Functional Location record that represents the equipment or location for which you want to create a Maximo Work Order.
3. Select the default datasheet (as it is defined via the Configuration Manager) for the Recommendation record. For example, if you are viewing an Inspection Recommendation record, because the Inspection Recommendation datasheet is configured as the default datasheet via the Configuration Manager, you would need to select this datasheet.
4. On the datasheet, enter values into the fields as desired to provide information about the recommended action.

Note: The value in the Target Completion Date field must be a date *other than* the current date.

5. On the datasheet, select the **Create Work Request?** check box.
6. On the **Common Tasks** menu, click the **Save** link.

The record is saved. In addition, the Meridium APM system:

- Creates a Work Order in the Maximo system and maps values to it using the CMMS Mapping records that exist in the database.
- Populates the Work Request Reference field with the ID of the corresponding Work Order. Note that after the Work Request Reference field is populated, the Create Work Request field becomes disabled.

Note: If a Work Order could not be created for any reason, a message appears, describing the problem. You will be unable to save the Recommendation record until you clear the **Create Work Request?** check box.

Updating Maximo Work Orders from Recommendation Records

To update a Maximo Work Order that was created from a Recommendation record:

1. Open the existing Recommendation record that was used to create a Maximo Work Order.
2. On the datasheet, modify any of the values that were originally mapped to the Work Order.

Note: The value in the Target Completion Date field must be a date *other than* the current date.

3. On the **Common Tasks** menu, click the **Save** link.

The Recommendation record is saved, and the Work Order is updated in the Maximo system.

Service Request Creation Interface

Requirements for Creating Maximo Service Requests

In order to create a Maximo Service Request from a Meridium APM Recommendation record, at a minimum, your database must contain a CMMS System record whose Enabled field contains the value *True*. The CMMS System record is used to define the connection information to your Maximo system. If the SAP Interfaces and the Maximo Interfaces licenses are both active, in addition to this requirement, certain additional conditions must be met regarding the SAP System and CMMS System records that exist in the database. The exact conditions that must be met depends on the following main factors:

- Whether or not the Recommendation record is linked to an Equipment or Functional Location record.
- Whether or not that Equipment or Functional Location record is linked to a Site Reference record.

The following scenarios describe the conditions that must exist in each of these cases.

Scenario A: Recommendation Record Is not Linked to an Equipment or Functional Location Record

In this scenario, you can create a Service Request successfully only if *both* of the following conditions are true:

- Either NO SAP System records exist or none of the existing SAP System records contain the value *True* in the Default SAP System field.
- and-
- A CMMS System record exists with the value *True* in the Is Default field.

Scenario B: Recommendation Record IS Linked to an Equipment or Functional Location Record

Option 1: The Equipment or Functional Location record IS linked to a Site Reference record

In this scenario, you can create a Service Request successfully only if NO SAP System records exist in the database. In addition, if the Site Reference record is linked to a CMMS System record, the Service Request will be created automatically in the Maximo system represented by that CMMS System, regardless of whether or not the Is Default field in that record contains the value *True*. If, however, the Site Reference record is not linked to a CMMS System record, the requirements in option 2 must be met.

Option 2: The Equipment or Functional Location record is not linked to a Site Reference record

In this scenario, you can create a Service Request successfully only if *both* of the following conditions are true:

- Either NO SAP System records exist or none of the existing SAP System records contain the value *True* in the Default SAP System field.
- and-
- A CMMS System record exists with the value *True* in the Is Default field.

Supported Recommendation Families

You can create Maximo Service Requests from Recommendation records belonging to any baseline Recommendation family *except* for the following families:

- Recommendation (i.e., the *root* Recommendation family)
- AMS Asset Recommendation

- RBI Recommendation
- RCMO Recommendation
- Risk Assessment Recommendation

Because you can create a Maximo Service Request from a Recommendation record belonging to one of many families, throughout the Maximo Interfaces documentation, we refer to this record as a *Meridium APM Recommendation record*.

Creating Maximo Service Requests from Recommendation Records

Note: The following instructions assume that the Create Work Request field exists on the baseline datasheets for the supported Recommendation families. This field exists on the default datasheets in the baseline Meridium APM database, so these instructions assume that they have not been removed by an administrative user.

To create a Maximo Service Request from a Recommendation record:

1. Create a new or open an existing Recommendation record.
2. Make sure that the Recommendation record is linked to the Equipment or Functional Location record that represents the equipment or location for which you want to create a Maximo Service Request.
3. Select the default datasheet (as it is defined via the Configuration Manager) for the Recommendation record. For example, if you are viewing an Inspection Recommendation record, because the Inspection Recommendation datasheet is configured as the default datasheet via the Configuration Manager, you would need to select this datasheet.
4. On the datasheet, enter values into the fields as desired to provide information about the recommended action.

Note: The value in the Target Completion Date field must be a date *other than* the current date.

5. On the datasheet, select the Create Work Request? check box.

6. On the **Common Tasks** menu, click the **Save** link.

The record is saved. In addition, the Meridium APM system:

- Creates a Service Request in the Maximo system and maps values to it using the CMMS Mapping records that exist in the database.
- Populates the Work Request Reference field with the ID of the corresponding Service Request. Note that after the Work Request Reference field is populated, the Create Work Request field becomes disabled.

Note: If a Work Order could not be created for any reason, a message appears, describing the problem. You will be unable to save the Recommendation record until you clear the **Create Work Request?** check box.

Updating Maximo Service Requests from Recommendation Records

To update a Maximo Service Request that was created from a Recommendation record:

1. Open the existing Recommendation record that was used to create a Maximo Service Request.
2. On the datasheet, modify any of the values that were originally mapped to the Service Request.

Note: The value in the Target Completion Date field must be a date *other than* the current date.

3. On the **Common Tasks** menu, click the **Save** link.

The Recommendation record is saved, and the Service Request is updated in the Maximo system.

Equipment Extraction Interface

The *Equipment Extraction Interface* allows you to extract data about assets from your Maximo system and import it into your Meridium APM system as Equipment records. To execute the Equipment Extraction Interface, an administrative user will create a scheduled item via the Meridium APM Schedule Manager. After the scheduled item is created, the Equipment Extraction Interface will run automatically according to the schedule that is defined in the scheduled item.

When the Equipment Extraction Interface is run, for each asset in the Maximo system that meets the criteria defined in the scheduled item, a corresponding Equipment record will be created in the Meridium APM database. In addition, if that Maximo asset has a parent asset or location, the Meridium APM Equipment record will be linked automatically to a parent record belonging to the Equipment family or the Functional Location family, as appropriate.

As a Meridium APM Framework user, after the Equipment Extraction Interface runs, you can use standard Meridium APM tools (e.g., Search Tool) to access the Equipment records that were created automatically. When you are viewing an Equipment record that was created as a result of the Equipment Extraction Interface, to see all the values that were mapped from the Maximo system, you can use the Equipment (Maximo) datasheet.

In addition, to see the status of any given execution of the Equipment Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Note: If an asset is deleted in the Maximo system after an Equipment record has already been created for it in the Meridium APM system, rerunning the Equipment Extraction Interface will not delete the Meridium APM Equipment record.

Using the Functional Location Extraction Interface

The *Functional Location Extraction Interface* allows you to extract data about locations from your Maximo system and import it into your Meridium APM system as Functional Location records. To execute the Functional Location

Extraction Interface, an administrative user will create a scheduled item via the Meridium APM Schedule Manager. After the scheduled item is created, the Functional Location Extraction Interface will run automatically according to the schedule that is defined in the scheduled item.

When the Functional Location Extraction Interface is run, for each location in the Maximo system that meets the criteria defined in the scheduled item, a corresponding Functional Location record will be created in the Meridium APM database. In addition, if that Maximo location has a parent asset or location, the Meridium APM Functional Location record will be linked automatically to a parent record belonging to the Equipment family or the Functional Location family, as appropriate.

Note: The Functional Location Extraction Interface will not extract locations of the type *COURIER* or *LABOR*.

As a Meridium APM Framework user, after the Functional Location Extraction Interface runs, you can use standard Meridium APM tools (e.g., Search Tool) to access the Functional Location records that were created automatically. When you are viewing a Functional Location record that was created as a result of the Functional Location Extraction Interface, to see all the values that were mapped from the Maximo system, you can use the Functional Location (Maximo) datasheet.

In addition, to see the status of any given execution of the Functional Location Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Note: If an asset is deleted in the Maximo system after a Functional Location record has already been created for it in the Meridium APM system, rerunning the Functional Location Extraction Interface will not delete the Meridium APM Functional Location record.

Work Order Extraction Interface

The *Work Order Extraction Interface* allows you to extract Work Orders from your Maximo system into your Meridium APM system as Work History records. To execute the Work Order Extraction Interface, an administrative user will create a scheduled item in the Meridium APM Schedule Manager. After the scheduled item is created, the interface will run automatically according to the schedule that is defined in the scheduled item.

When the Work Order Extraction Interface is run, for each Work Order in the Maximo system that meets the criteria defined in the scheduled item, a corresponding Work History record will be created in the Meridium APM database. Each Work History record will be linked to one Equipment or Functional Location record identifying the asset or location against which the Maximo Work Order is written. Specifically:

- If the Work Order is written against a location, the Work History record will be linked to a Functional Location record, and the Location ID field in the Work History record will be populated automatically with the Asset Number of that Maximo location.
- If the Work Order is written against an asset, the Work History record will be linked to an Equipment record, and the Equipment ID field in the Work History record will be populated automatically with the Asset Number of that Maximo asset. In addition, if that Maximo asset has a *parent* location, the Work History record will also be linked to a Functional Location record representing that parent Maximo location. The Location ID field in the Work History record will also be populated automatically with the Asset Number of that parent Maximo location.

As a Meridium APM Framework user, after the Work Order Extraction Interface runs, you can use the Meridium APM Core Tools (e.g., Search Tool) to access the Work History records that were created automatically. When you are viewing a Work History record that was created as a result of the interface, to see all the values that were mapped from the Maximo system, you can use the Work History (Maximo) datasheet.

Hint: You can also use the Work History with Details (Maximo) datasheet, which is a master/detail datasheet, to view the Work History records and the Work History Detail records to which they are linked.

In addition, to see the status of any given execution of the Work Order Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Service Request Extraction Interface

The *Service Request Extraction Interface* allows you to extract Service Requests from your Maximo system into your Meridium APM system as Work History records. To execute the Service Requests Extraction Interface, an administrative user will create a scheduled item in the Meridium APM Schedule

Manager. After the scheduled item is created, the interface will run automatically according to the schedule that is defined in the scheduled item.

When the Service Request Extraction Interface is run, for each Service Request in the Maximo system that meets the criteria defined in the scheduled item, a corresponding Work History record will be created in the Meridium APM database. Each Work History record will be linked to one Equipment or Functional Location record identifying the asset or functional location against which the Maximo Service Request is written. Specifically:

- If the Service Request is written against a location, the Work History record will be linked to a Functional Location record, and the Location ID field in the Work History record will be populated automatically with the Asset Number of that Maximo location.
- If the Service Request is written against an asset, the Work History record will be linked to an Equipment record, and the Equipment ID field in the Work History record will be populated automatically with the Asset Number of that Maximo asset. In addition, if that Maximo asset has a *parent* location, the Work History record will also be linked to a Functional Location record representing that parent Maximo location. The Location ID field in the Work History record will also be populated automatically with the Asset Number of that parent Maximo location.

As a Meridium APM Framework user, after the Service Request Extraction Interface runs, you can use the Meridium APM Core Tools (e.g., Search Tool) to access the Work History records that were created automatically. When you are viewing a Work History record that was created as a result of the interface, to see all the values that were mapped from the Maximo system, you can use the Work History (Maximo) datasheet.

Hint: You can also use the Work History with Details (Maximo) datasheet, which is a master/detail datasheet, to view the Work History records and the Work History Detail records to which they are linked.

In addition, to see the status of any given execution of the Service Request Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Work Order Detail Extraction Interface

The *Work Order Detail Extraction Interface* allows you to extract Work Order failure information from your Maximo system into your Meridium APM system as Work History Detail records. To execute the Work History Detail Extraction Interface, an administrative user will create a scheduled item via the Meridium APM Schedule Manager. After the scheduled item is created, the Work Order Detail Extraction Interface will run automatically according to the schedule that is defined in the scheduled item.

When the Work Order Detail Extraction Interface is run, for each Work Order in the Maximo system that meets the criteria defined in the scheduled item and contains failure information, a corresponding Work History Detail record will be created in the Meridium APM database. Each Work History Detail record will be linked to a Work History record representing the Work Order on which the failure information exists.

Note that if, however, a Work Order does not have any failure information, a Work History Detail record will not be created.

As a Meridium APM Framework user, after the Work Order Detail Extraction Interface runs, you can use the Meridium APM Core Tools (e.g., Search Tool) to access the Work History Detail records that were created automatically. If you are viewing a Work History Detail record on its own, to see all the values that were mapped from the Maximo system, you can use the Work History Detail (Maximo) datasheet.

In addition, to see the status of any given execution of the Work Order Detail Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Service Request Detail Extraction Interface

The *Service Request Detail Extraction Interface* allows you to extract Service Requests from your Maximo system into your Meridium APM system as Work History Detail records. To execute the Service Request Detail Extraction Interface, an administrative user will create a scheduled item via the Meridium APM Schedule Manager. After the scheduled item is created, the Service

Request Detail Extraction Interface will run automatically according to the schedule that is defined in the scheduled item.

When the Service Request Detail Extraction Interface is run, for each Service Request in the Maximo system that meets the criteria defined in the scheduled item and contains failure information, a corresponding Work History Detail record will be created in the Meridium APM database. Each Work History Detail record will be linked to a Work History record representing the Service Request on which the failure information exists.

As a Meridium APM Framework user, after the Service Request Detail Extraction Interface runs, you can use the Meridium APM Core Tools (e.g., Search Tool) to access the Work History Detail records that were created automatically. If you are viewing a Work History Detail record on its own, to see all the values that were mapped from the Maximo system, you can use the Work History Detail (Maximo) datasheet.

In addition, to see the status of any given execution of the Service Request Detail Extraction Interface, you can view the corresponding Interface Log record that was created automatically when the interface was run.

Reference Information

Maximo Interfaces Catalog Folder Structure

The following queries are provided in the Catalog folder \\Public\Meridium\Modules\CMMS Interfaces\Maximo\Queries.

- MaximoSuperiorEquipmentLookup
- MaximoSuperiorFunctionLocationLookup
- MaximoSuperiorWorkHistoryLookup

Note that when you create a scheduled item to execute a Maximo interface (e.g., Equipment Extraction), the Meridium APM system uses the Interfaces Related to a System query, which is actually stored in the Catalog folder \\Public\Meridium\Modules\CMMS Interfaces\Oracle. After providing a prompt for a CMMS system name, this query returns the CMMS Interface records that are linked to the CMMS System record whose Name field contains the value that is specified in the prompt. For each CMMS Interface record that is returned by the query, a corresponding tab is displayed on the Parameters tab of the Schedule Data Collection window in the Meridium APM Schedule Manager.

Family Field Descriptions

CMMS System

The following table provides a list and description of the fields that exist in CMMS System records and are available on the baseline CMMS System datasheet. The information in the table reflects the baseline state and behavior of these fields. If your implementation has been customized, these fields may behave differently, and fields in addition to those listed here may be available.

Field	Data Type	Description	Behavior and Usage
Name	Character	The name of the Maximo system.	The name must be unique with respect to the name in other CMMS System records. The value in this field will be used to populate the System field in all CMMS Interface records to which this CMMS System record is linked. This field is required.
Description	Character	A description of the Maximo system.	None.
Enabled	Logical	A value that indicates that the Maximo system is enabled.	On the datasheet, you will see a check box, which you can select to indicate that the system is enabled. If this check box is not selected, records will not be extracted from Maximo when you execute the interfaces.
Is Default	Logical	A value that indicates that data should be created in or extracted from this Maximo system by default.	On the datasheet, you will see a check box, which you can select to indicate that the system is enabled. Only one CMMS System record can be designated as the default record.
Type	Character	The type of system that this record represents.	By default, the baseline CMMS System records used by the Maximo Interfaces contain the value <i>Maximo</i> in this field. You should not modify this value in the baseline records. If you create a new CMMS System record for use with the Maximo Interfaces, you should select the value <i>Maximo</i> in this field.



CMMS Interface

The following table provides a list and description of the fields that exist in CMMS Interface records and are available on the baseline CMMS Interface datasheet. The information in the table reflects the baseline state and


behavior of these fields. If your implementation has been customized, these fields may behave differently, and fields in addition to those listed here may be available.

Field	Data Type	Description	Behavior and Usage
Interface Type	Character	The type of interface.	<p>On the datasheet, this field contains a list of values from the MI_CMMS_INTERFACE_TYPE System Code Table. In the baseline Meridium APM database, the list contains the following values:</p> <ul style="list-style-type: none">• Work Request (WR)• Equipment Extraction (EE)• Functional Location Extraction (FLE)• Work History Detail (WHD)• Work History (WH)

Field	Data Type	Description	Behavior and Usage
Enabled	Logical	A value that indicates whether this interface is enabled.	<p>On the datasheet, you will see a check box, which you can select to indicate that the interface type is enabled.</p> <p>The baseline database contains two <i>Work Request</i> CMMS Interface records: one for creating Work Orders, and one for creating Service Requests. You should select the Enabled check box in only <i>one</i> of these records. You cannot create Work Orders and Service Requests at the same time. By default, the check box is selected in the record used for creating <i>Work Orders</i>.</p> <p>Likewise, the baseline database contains two <i>Work History</i> CMMS Interface records: one for extracting Work Orders, and one for extracting Service Requests. You should select the Enabled check box in only <i>one</i> of these records. You cannot extract Work Orders and Service Requests at the same time. By default, the check box is selected in the record used for creating <i>Work Orders</i>.</p> <p>Similarly, the baseline database contains two <i>Work History Detail</i> CMMS Interface records: one for extracting Work Order failure information, and one for extracting Service Requests. You should select the Enabled check box in only ONE of these records. You cannot create Work History Detail records from Work Order failure information and Service Requests at the same time. By default, the check box is selected in the record used for creating <i>Work Orders</i>.</p>
Connection String	Character	The URL to the web service that is called by this interface.	None

Field	Data Type	Description	Behavior and Usage
User ID	Character	A user ID that can be used to log in to the Maximo software.	None
Password	Character	The password that is associated with the ID that is stored in the User ID field.	On the datasheet, this field contains a  button that you can click to launch the Enter Password dialog box, where you can type the password. The password will appear as asterisks.
Project Path	Character	The path to the Rules Library project that is used to implement the interface.	On the datasheet, this field contains a  button that you can click to launch the Select Rule Library Project dialog box, where you can select the desired Rules Library project from the Catalog folder \\Public\Rules Library. This field is required.
Class	Character	The full name (including the namespace) of the class, which exists within the Rules Library project that is referenced in the Project Path field, that implements the interface.	On the datasheet, this field contains a list of available classes. This field is required.
System	Character	The name of the Maximo system from which data will be transferred when this interface is run.	This field is disabled and populated automatically with the value in the CMMS System field in the CMMS System record to which this CMMS Interface record is linked.

Field	Data Type	Description	Behavior and Usage
Enable Debug Tracing	Logical	A value that indicates whether or not you want to capture detailed information in the Log Text field of the Interface Log record that is created when this interface is run.	Because the Enable Debug Tracing field is a logical field, on the datasheet, you will see a check box, which you can select to indicate that you want to capture detailed information. If this check box is cleared, the Interface Log record that is created when this interface is run will contain only overview information in the Log Text field.
Use Proxy	Logical	A value that indicates whether or not a proxy should be used when accessing the web service.	On the datasheet, you will see a check box, which you can select to indicate that a proxy should be used.
Proxy URL	Character	The URL to the proxy server.	This field is enabled and required only if the Use Proxy check box is selected.
Proxy Port	Character	The port number of the proxy server.	This field is enabled only if the Use Proxy check box is selected. If you do not type a proxy port, HTTP port 80 will be used automatically.
Use Network Credentials	Logical	A value that indicates whether or not network credentials should be used when accessing the web service.	On the datasheet, you will see a check box, which you can select to indicate that network credentials should be used.
Network User ID	Character	The user ID used to access the network.	This field is enabled and required only if the Use Network Credentials check box is selected.


Field	Data Type	Description	Behavior and Usage
Network Password	Character	The password that is associated with the user ID that is stored in the Network User ID field.	This field is enabled only if the Use Network Credentials check box is selected. On the datasheet, this field contains a  button that you can click to launch the Enter Password dialog box, where you can type the password. The password will appear as asterisks. This field is enabled only if the Use Network Credentials check box is selected.
Network Domain	Character	The domain of the network user.	None

CMMS Mapping

The following table provides a list and description of the fields that exist in CMMS Mapping records and are available on the baseline CMMS Mapping datasheet. The information in the table reflects the baseline state and behavior of these fields. If your implementation has been customized, these fields may behave differently, and fields in addition to those listed here may be available.

Field	Data Type	Description	Usage and Behavior
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Field	Data Type	Description	Usage and Behavior
Approach	Character	The approach that will be used to map values to and from Maximo.	<p>On the datasheet, this field contains a list of values from the MI_INTERFACE_MAPPING_APPROACH System Code Table. In the baseline Meridium APM database, the list contains the following values:</p> <ul style="list-style-type: none"> • CONST: Indicates that you want to map a specific, hard-coded value to Maximo. If you select <i>CONST</i>, you will need to specify: <ul style="list-style-type: none"> ▪ The specific, hard-coded value, using the Constant field. ▪ The Maximo field type, using the Element Type field. ▪ The Maximo field, using the Element Field field. <p>Note: Constant values do not appear in the Maximo interface as field values. Instead, they are used during the data transfer process by the Maximo web services.</p> • FIELD: Indicates that you want to map a field value. If you select <i>FIELD</i>, you will need to specify: <ul style="list-style-type: none"> • ▪ The desired Meridium APM family, using the Record Type field. ▪ The desired Meridium APM field, using the Record Field field. ▪ The desired Maximo field type, using the Element Type field. ▪ The desired Maximo field, using the Element Field field. • QUERY: Indicates that you want to map a value from query results to a Work Request field. If you select <i>QUERY</i>, you will need to specify: <ul style="list-style-type: none"> ▪ The source query, using the Query field. ▪ The target Work Request field type, using the Element Type field. ▪ The target Work Request field, using the Element Field field. • LITERAL: Indicates that you want to map a specific, hard-coded value to Meridium APM. If you select <i>LITERAL</i>, you will need to

Field	Data Type	Description	Usage and Behavior
Element Type	Character	The class name of the Maximo field.	<p>If the interface is creating data in Maximo, the Element Type represents the class name of the target Maximo field <i>to which</i> a value will be mapped.</p> <p>-or-</p> <p>If the interface is creating or updating data in Meridium APM (e.g., Equipment Extraction Interface), the Element Type represents the class name of the source Maximo field <i>from which</i> the value will be mapped.</p>
Element Field	Character	The field name of the Maximo field.	<p>If the interface is creating data in Maximo (e.g., Work Request Interface), the Element Field represents the target Maximo field to which a value will be mapped.</p> <p>-or-</p> <p>If the interface is creating or updating data in Meridium APM (e.g., Equipment Extraction Interface), the Element Field represents the source Maximo field <i>from which</i> the value will be mapped. This field is required.</p>
Constant	Character	The specific, hard-coded value that will be mapped to or from Maximo.	This field is enabled and required only if the Approach field contains the value <i>CONST</i> or <i>LITERAL</i> .
Query	Character	The query that will be used to map fields to the Work Request.	<p>This field is enabled and required only if the Approach field contains the value <i>QUERY</i>. On the datasheet, this field contains a  button, which you can click to launch the Select Query dialog box, where you can select the desired query.</p> <p>Note that the extraction interfaces do not support mapping values from Maximo using a query. The query mapping approach can be used, instead, only if you are mapping values <i>to</i> Oracle EBS eAM.</p>

Field	Data Type	Description	Usage and Behavior
Query Parameter Mapping	Character	The values that will be passed into the prompts that are included in the query specified in the Query field.	<p>To specify prompt values, you will need to use the following syntax:</p> <p><prompt>=<value> ...where:</p> <ul style="list-style-type: none"> <prompt> is the prompt ID of the prompt, as defined in the query. Alternatively, you can use the text Pn, where n is the number of the prompt in the query. Note that prompts are numbered beginning with zero (e.g., 0,1,2,3). For example, to specify a value for the <i>second</i> prompt in a query, the parameter would be <i>P1</i>. <value> is the value that you want to pass in to the prompt. <p>If a query contains multiple prompts whose values you want to pass in, you can separate the prompt values with the ampersand (&) (e.g., <i>Manufacturer=Pacific&Part_Number=123456</i>).</p> <p>Note that instead of passing specific, hard-coded values in to the prompt, you can also map variable values from any record to which Recommendation record is linked. To do so, you would use the following syntax:</p> <p><prompt>=<Family ID>.<Field ID> ...where:</p> <ul style="list-style-type: none"> <prompt> is the prompt ID of the prompt. <Family ID> is the Family ID of the family containing the record whose value you want to pass in to the prompt. <Field ID> is the Field ID of the field whose value you want to pass in to the prompt. <p>For example, suppose a Recommendation record is linked to an Equipment record with the value <i>Pacific</i> in the Manufacturer field. Suppose you also have a query that returns Equipment records by manufacturer, with a prompt on the Manufacturer field. In this case, using the Query field of a CMMS Mapping record, you would select the query. Then, in the Query Parameter Mapping field, you would type the following text:</p> <p>Manufacturer=MI_EQUIP000.MI_EQUIP000_MFR_C ...where:</p> <ul style="list-style-type: none"> <i>Manufacturer</i> is the prompt ID of the prompt. <i>MI_EQUIP000</i> is the Family ID of the Equipment family. <i>MI_EQUIP000_MFR_C</i> is the Field ID of the Manufacturer field.

Field	Data Type	Description	Usage and Behavior
Record Type	Character	The Meridium APM family that will be used to map values to or from Maximo.	<p>If the interface is creating data in Maximo (e.g., Work Request Interface), the Record Type represents the family containing the record whose field value will be mapped <i>to</i> Maximo.</p> <p>-or-</p> <p>If the interface is creating or updating data in Meridium APM (e.g., Equipment Extraction Interface):</p> <ul style="list-style-type: none"> • If the value in the Approach field is <i>FIELD</i>, the Record Type represents the Meridium APM family whose records will be created or updated <i>from</i> Maximo. <p>-OR-</p> <ul style="list-style-type: none"> • If the value in the Approach field is <i>LITERAL</i>, the Record Type represents the Meridium APM family whose records will be populated with a constant value. <p>This field is enabled and required only if the Approach field contains the value <i>FIELD</i> or <i>LITERAL</i>.</p>
Record Field	Character	The Meridium APM field whose value will be mapped to or from Maximo.	<p>If the interface is creating data in Maximo (e.g., Work Request Interface), the Record Field represents the Meridium APM field whose value will be mapped <i>to</i> Maximo.</p> <p>-or-</p> <p>If the interface is creating or updating data in Meridium APM (e.g., Equipment Extraction Interface):</p> <ul style="list-style-type: none"> • If the value in the Approach field is <i>FIELD</i>, the Record Field represents the Meridium APM field whose value will be updated <i>from</i> Maximo. <p>-or-</p> <ul style="list-style-type: none"> • If the value in the Approach field is <i>LITERAL</i>, the Record Field represents the Meridium APM field whose value will be populated with a constant value, as determined by the value in the CONSTANT field. <p>This field is enabled and required only if the Approach field contains the value <i>FIELD</i>.</p>

Field	Data Type	Description	Usage and Behavior
Is Key	Logical	A value that indicates whether or not the Meridium APM field that appears in the Record Field field will be used to determine uniqueness when transferring data to and from the Maximo system.	For example, in the baseline database, for the Equipment Extraction interface, the Equipment Technical Number field is identified as a key field. When you extract Equipment from the Maximo system, the ASSETNUM field is mapped from the Equipment in Maximo to the Equipment Technical Number field in Meridium APM Equipment records. During the extraction process, a new Equipment record will be created in the Meridium APM database only if an Equipment record with the same Equipment Technical Number does not already exist. If an Equipment record with that Equipment Technical Number already exists, it will be updated with the value in the ASSETNUM field in the Maximo system.

Interface Log

The following table provides a list and description of the fields that exist in Interface Log records and are available on the baseline Interface Log datasheet. The information in the table reflects the baseline state and behavior of these fields. If your implementation has been customized, these fields may behave differently, and fields in addition to those listed here may be available. This list is not comprehensive.

Field	Data Type	Description	Behavior and Usage
System ID	Character	The name of the Maximo system from which records were extracted.	This field is disabled.

Field	Data Type	Description	Behavior and Usage
Type	Character	The name of the interface that was executed (i.e., Equipment Extraction).	This field is disabled.
Date Executed	Date	The date that the interface was executed.	This field is disabled.

Field	Data Type	Description	Behavior and Usage
Status	Character	The status of the extraction process.	<p>On the datasheet, this field contains a list of values from the MI_CMMS_INF_ERROR_CODES System Code Table. In the baseline Meridium APM database, the list contains the following values:</p> <ul style="list-style-type: none"> • Completed: The extraction process completed successfully without warnings or errors. • Completed with Warnings: The extraction process completed successfully, but with warnings, indicating that you might want to review the warnings to determine if any action is needed. • Completed with Errors: The extraction process did not complete successfully. • Completed with Warnings (Cleared): The extraction process completed successfully with warnings, and someone has reviewed the warnings. • Completed with Errors (Cleared): The extraction process did not complete successfully, and someone has reviewed the errors. <p>When the extraction process is finished running, the value in the Status field will be set automatically to <i>Completed</i>, <i>Completed with Warnings</i>, or <i>Completed with Errors</i>. If the status indicates warnings or errors have occurred, a Super User or a member of the MI CMMS Interfaces Administrator Security Group can review the warnings or errors and then change the status to <i>Completed with Warnings (Cleared)</i> or <i>Completed with Errors (Cleared)</i>.</p>

Field	Data Type	Description	Behavior and Usage
Log Text	Text	Information about the extraction process, including any warnings or errors that occurred.	The level of detail that appears in the Log Text field depends upon whether or not the Enable Debug Tracing check box is selected in the CMMS Interface record representing the interface that was run to create this Interface Log record. If that check box is selected, the Log Text field will contain detailed information, and if that check box is cleared, the Log Text field will contain general overview information about the extraction process. This field is disabled.
Number Of Records Processed	Number	The number of Maximo records that were processed during the extraction process.	This field is disabled.
Number Of Records Rejected	Number	The number of Maximo records that were rejected during the extraction process.	This field is disabled.
Number Of Records Created	Number	The number of Meridium APM records that were created during the extraction process.	This field is disabled.

Field	Data Type	Description	Behavior and Usage
Number Of Records Updated	Number	The number of Meridium APM records that were updated during the extraction process.	If the parameters that are defined in the Schedule Manager cause the extraction process to process Maximo records for which corresponding Meridium APM records already exist, the Interface Log record for that extraction process will show that those Meridium APM records were <i>updated</i> . This does not mean, however, that they were changed in some way. If the values in Maximo are the same as the values in the existing Meridium APM records, the Meridium APM records will not be changed. This field is disabled.

System Code Tables Used by the Maximo Interfaces

The following System Code Tables are used by the Maximo Interfaces.

Table ID	Table Description	Function
MI_CMMS_INF_ERROR_CODES	CMMS Interface Error Codes	Used to populate the Status list in Interface Log records.
MI_CMMS_INTERFACE_TYPE	CMMS Interface Types	Used to populate the Interface Type list in CMMS Interface records.
MI_CMMS_TYPE	CMMS System Type	Used to populate the Type list in CMMS System records.
MI_DIRECTION_INDICATOR	CMMS Mapping Direction Indicators	Used to populate the Direction list in CMMS Mapping records.

Table ID	Table Description	Function
MI_INTERFACE_MAPPING_APPROACH	Mapping Approach Indicators for CMMS Interface Mapping	Used to populate the Approach list in CMMS Mapping records.

Values Mapped Between Maximo and Meridium APM

Maximo --> Meridium APM

Maximo Values Mapped to Equipment Records

The following tables explain the values that are used to populate Equipment fields when you run the Equipment Extraction Interface.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Equipment Field Caption	Meridium APM Equipment Field ID
None. This value is not displayed on the Maximo interface.	ASSETID	Equipment ID	MI_EQUIP000_EQUIP_ID_C
Asset	ASSETNUM	Equipment Technical Number	MI_EQUIP000_EQUIP_TECH_NBR_C
Type	ASSETTYPE	Equipment Type	MI_EQUIP000_TYPE_C
Changed Date	CHANGEDATE	CMMS Last Changed Date	MI_EQUIP000_CHANGE_DATE_D

Maximo Interface Label	Maximo Internal ID	Meridium APM Equipment Field Caption	Meridium APM Equipment Field ID
This value appears to the right of the Asset text box on the Maximo interface.	DESCRIPTION	Equipment Short Description	MI_EQUIP000_EQUIP_SHRT_DESC_C
This value appears in the Long Description window.	DESCRIPTION_LONGDESCRIPTION	Equipment Long Description	MI_EQUIP000_EQUIP_LNG_DESC_T
Installation Date	INSTALLDATE	Purchase Date	MI_EQUIP000_PRCH_D
Rotating Item	ITEMNUM	Inventory Number	MI_EQUIP000_INV_NO_C
Location	LOCATION	Functional Location	MI_EQUIP000_FNC_LOC_C
Manufacturer	MANUFACTURER	Manufacturer	MI_EQUIP000_MFR_C
Priority	PRIORITY	Criticality Indicator	MI_EQUIP000_CRITI_IND_C
Serial #	SERIALNUM	Asset Serial Number	MI_EQUIP000_ASSET_SERIAL_NBR_C
Site	SITEID	Site	MI_EQUIP000_SITE_C
Status	STATUS	System Status	MI_EQUIP000_SYS_ST_C
Vendor	VENDOR	Equipment Vendor	MI_EQUIP000_EQUIP_VNDR_C
None. This value is not displayed on the Maximo interface.	WARRANTYEXPDATE	Warranty Expiration Date	MI_EQUIP000_WRNTY_EXPR_D

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Equipment records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Equipment Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Maximo Values Mapped to Functional Location Records

The following tables explain the values that are used to populate Functional Location fields when you run the Functional Location Extraction Interface.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Functional Location Field ID	Meridium APM Functional Location Field Caption
None. This value is not displayed on the Maximo interface.	CHANGEDATE	CMMS Last Changed Date	MI_FNCLOC00_CHANGE_DATE_D
This value appears to the right of the Location text box on the Maximo interface.	DESCRIPTION	Functional Location Description	MI_FNCLOC00_FNC_LOC_DESC_C

Maximo Interface Label	Maximo Internal ID	Meridium APM Functional Location Field ID	Meridium APM Functional Location Field Caption
This value appears in the Long Description window.	DESCRIPTION_LONGDESCRIPTION	Functional Location Long Description	MI_FNCLOC00_FNC_LOC_LNG_DESC_C
Failure Class	FAILURECODE	Failure Class	MI_FNCLOC00_FAIL_CLASS_C
Location	LOCATION	Functional Location	MI_FNCLOC00_FNC_LOC_C
None. This value is not displayed on the Maximo interface.	LOCATIONSID	Functional Location Internal ID	MI_FNCLOC00_INTERNAL_ID_C
Priority	LOCPRIORITY	Criticality Indicator	MI_FNCLOC00_CRTCAL_IND_C
Parent	PARENT	Superior Functional Location	MI_FNCLOC00_SUPR_FNC_LOC_C
Site	SITEID	Site	MI_FNCLOC00_SITE_C
Status	STATUS	System Status	MI_FNCLOC00_SYS_STATUS_C
Type	TYPE	Location Type	MI_FNCLOC00_TYPE_C

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Functional Location records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Functional Location Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Maximo Work Order Fields Mapped to Work History Records

The following tables explain the values that are used to populate Work History fields when you extract Work Orders from Maximo.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Actual Finish	ACTFINISH	Maintenance Completion Date	MI_EVWKHIST_MAINT_COMPL_D
Actual Labor Cost	ACTLABCOST	Actual Labor Cost	MI_EVWKHIST_ACT_LABOR_COST_N
Actual Labor Hours	ACTLABHRS	Actual Labor	MI_EVWKHIST_ACT_LABOR_TIME_N
Actual Material Cost	ACTMATCOST	Actual Material Cost	MI_EVWKHIST_ACT_MTRL_COST_N
Actual Service Cost	ACTSERVCOST	Actual Service Cost	MI_EVWKHIST_ACT_SERV_COST_N
Actual Start	ACTSTART	Maintenance Start Date	MI_EVWKHIST_MAINT_START_D
Actual Tool Cost	ACTTOOLCOST	Actual Tool Cost	MI_EVWKHIST_ACT_TOOL_COST_N
Actual Total Cost	ACTTOTALCOST	Maintenance Cost	MI_EVWKHIST_MAINT_CST_N
Asset/Location Priority	ASSETLOCPRIORITY	Equipment Location Priority	MI_EVWKHIST_EQU_LOC_PRIORTY_N

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Asset	ASSETNUM	Equipment ID	MI_EVENT_ASST_ID_CHR
Asset/Location Priority	CALCPRIORITY	Calculated Priority	MI_EVWKHIST_CALC_PRIORITY_N
Modified By	CHANGEBY	Modified By	MI_EVENT_MODFD_BY_CHR
None. This value is not visible in the Maximo interface.	CHANGEDATE	Order Last Change Date	MI_EVWKHIST_ORDR_CHNG_DT_D
Crew	CREWID	Crew ID	MI_EVWKHIST_CREW_ID_C
Description	DESCRIPTION	Order Description -AND- Event Short Description	MI_EVWKHIST_ORDR_DESC_C -AND- MI_EVENT_SHRT_DSC_CHR
This value appears in the Long Description window.	DESCRIPTION_LONGDESCRIPTION	Event Long Description	MI_EVENT_LNG_DSC_TX
Estimated Labor Cost	ESTLABCOST	Estimated Labor Cost	MI_EVWKHIST_EST_LABOR_COST_N
Estimated Labor Hours	ESTLABHRS	Estimated Labor	MI_EVWKHIST_EST_LABOR_TIME_N
Estimated Material Cost	ESTMATCOST	Estimated Material Cost	MI_EVWKHIST_EST_MTRL_COST_N
Estimated Service Cost	ESTSERVCOST	Estimated Service Cost	MI_EVWKHIST_EST_SERV_COST_N
Estimated Tool Cost	ESTTOOLCOST	Estimated Tool Cost	MI_EVWKHIST_EST_TOOL_COST_N

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
None. This value is not visible in the Maximo interface.	JPNUM	Order Maintenance Plan	MI_EVWKHIST_ORDR_MAINT_PLAN_C
Priority Justification	JUSTIFYPRIORITY	Order Priority Description	MI_EVWKHIST_ORDR_PRTY_DESC_C
Lead	LEAD	Lead Craft	MI_EVWKHIST_LEAD_CRAFT_C
Location	LOCATION	Location ID	MI_EVENT_LOC_ID_CHR
Outside Labor Cost	OUTLABCOST	Actual Outside Labor Cost	MI_EVWKHIST_ACT_OUT_LBR_CST_N
Outside Material Cost	OUTMATCOST	Actual Outside Material Cost	MI_EVWKHIST_ACT_OUT_MTR_CST_N
Outside Tool Cost	OUTTOOLCOST	Actual Outside Tool Cost	MI_EVWKHIST_ACT_OUT_TL_CST_N
None. This value is not visible in the Maximo interface.	PMNUM	PM Number	MI_EVWKHIST_PM_NBR_C
Reported Date	REPORTDATE	Event Start Date	MI_EVENT_STRT_DT
Scheduled Finish	SCHEDFINISH	Scheduled Completion Date	MI_EVWKHIST_SCHED_COMPL_D
Scheduled Start	SCHEDSTART	Scheduled Start Date	MI_EVWKHIST_SCHED_START_D
Site	SITEID	Site	MI_EVWKHIST_SITE_C
Status	STATUS	Order System Status	MI_EVWKHIST_ORDR_SYS_STAT_C

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Target Finish	TARGCOMPDATE	Target Completion Date	MI_EVWKHIST_TARGET_COMPL_D
None. This value is not visible in the Maximo interface.	TARGSTARTDATE	Target Start Date	MI_EVWKHIST_TARGET_START_D
Work Order	WONUM	Event ID -AND- Order ID	MI_EVENT_ID -ANMI_EVWKHIST_ORDR_ID_CD-
Priority	WOPRIORITY	Order Priority	MI_EVWKHIST_ORDR_PRTY_C
None. This value is not visible in the Maximo interface.	WORKTYPE	Order Type Code	MI_EVWKHIST_ORDR_TYP_CD_C

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Work History records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Work Order Request Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Maximo Service Request Fields Mapped to Work History Records

The following tables explain the values that are used to populate Work History fields when you extract Service Requests from Maximo.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Asset	ASSETNUM	Equipment ID	MI_EVENT_ASST_ID_CHR
Summary	DESCRIPTION	Event Short Description	MI_EVENT_SHRT_DSC_CHR
Location	LOCATION	Location ID	MI_EVENT_LOC_ID_CHR
Site	SITEID	Site	MI_EVWKHIST_SITE_C
Service Request	TICKETID	Event ID	MI_EVENT_ID

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Work History records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Service Request Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Maximo Work Order Fields Mapped to Work History Detail Records

The following tables explain the values that are used to populate Work History Detail fields when you extract Work Order failure information from Maximo.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Asset	ASSETNUM	Equipment ID	MI_DTWKHIST_ASST_ID_C
Description	DESCRIPTION	Work History Detail Description	MI_DTWKHIST_EVNT_DTL_DESC_C
This value appears in the Long Description window.	DESCRIPTION_LONGDESCRIPTION	Detail Narrative	MI_DTWKHIST_DTL_NARTV_T
Location	LOCATION	Location ID	MI_DTWKHIST_LOC_ID_C
Problem Code	PROBLEMCODE	Condition Code	MI_DTWKHIST_CNDTN_CD_C
Site	SITEID	Site	MI_DTWKHIST_SITE_C
Work Order	WONUM	Work History ID -AND- Order ID -AND- Work History Detail ID	MI_DTWKHIST_WRK_HISTRY_ID_C -AND- MI_DTWKHIST_ORDR_ID_C -AND- MI_DTWKHIST_EVNT_DTL_ID_C

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Work History Detail records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Work Order Detail Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Maximo Service Request Fields Mapped to Work History Detail Records

The following tables explain the values that are used to populate Work History Detail fields when you extract Service Requests from Maximo.

Values Mapped From Maximo

Maximo Interface Label	Maximo Internal ID	Meridium APM Work History Field Caption	Meridium APM Work History Field ID
Asset	ASSETNUM	Equipment ID	MI_DTWKHIST_ASST_ID_C
Summary	DESCRIPTION	Work History Detail Description	MI_DTWKHIST_EVNT_DTL_DESC_C
Location	LOCATION	Location ID	MI_DTWKHIST_LOC_ID_C
Site ID	SITEID	Site	MI_DTWKHIST_SITE_C
Service Request	TICKETID	Order ID -AND- Work History Detail ID	MI_DTWKHIST_ORDR_ID_C -AND- MI_DTWKHIST_EVNT_DTL_ID_C

Constant Values

In addition to the values that are mapped from Maximo to Meridium APM Work History records, several values are used during the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Service Request Detail Extraction Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	MaxItems	100
InputParameters	MaxLimit	1000

Meridium APM --> Maximo

Recommendation Values Mapped to Work Orders

The following tables explain the values that are used to populate Work Order fields when you create Maximo Work Orders from Recommendation records in Meridium APM.

Values Mapped from a Meridium APM Field

Work Request Field	Meridium APM Family	Meridium APM Field Caption
ASSETNUM	Equipment	Equipment Technical Number ¹
LOCATION	Functional Location	Functional Location ²
DESCRIPTION	Recommendation	Work Request Reference
TARGCOMPDATE	Recommendation	Target Completion Date

1. A value is mapped to the ASSETNUM field only if the Recommendation record is linked to a record in the baseline *Equipment* family.

2. A value is mapped to the LOCATION field only if the Recommendation record is linked to a record in the baseline *Functional Location* family.

Constant Values

In addition to the values that are mapped from Meridium APM Recommendation records to Maximo, several values are used in the data transfer process and are defined as constants in the CMMS Mapping records that are linked to the CMMS Interface record for the Work Request Creation Interface. These constant values are outlined in the following table.

Element Type	Element Field	Constant Value
InputParameters	TransLanguage	EN
MIWO_WORKORDER1Type	ACTLABCOST	0
MIWO_WORKORDER1Type	ACTMATCOST	0
MIWO_WORKORDER1Type	ACTSERVCOST	0
MIWO_WORKORDER1Type	ACTTOOLCOST	0
MIWO_WORKORDER1Type	ESTATAPPRLABCOST	0
MIWO_WORKORDER1Type	ESTATAPPRMATCOST	0
MIWO_WORKORDER1Type	ESTATAPPRSERCOST	0
MIWO_WORKORDER1Type	ESTATAPPRTOOLCOST	0
MIWO_WORKORDER1Type	ESTLABCOST	0
MIWO_WORKORDER1Type	ESTMATCOST	0
MIWO_WORKORDER1Type	ESTSERVCOST	0
MIWO_WORKORDER1Type	ESTTOOLCOST	0
MIWO_WORKORDER1Type	OUTLABCOST	0
MIWO_WORKORDER1Type	OUTMATCOST	0
MIWO_WORKORDER1Type	OUTTOOLCOST	0
MIWO_WORKORDER1Type	TARGCOMPDATE	0

Baseline Values Mapped to Service Requests

The following tables explain the values that are used to populate Service Request fields when you create Maximo Service Requests from Recommendation records in Meridium APM.

Values Mapped from a Meridium APM Field

Work Request Field	Meridium APM Family	Meridium APM Field Caption
ASSETNUM	Equipment	Equipment Technical Number ¹
LOCATION	Functional Location	Functional Location ²
DESCRIPTION	Recommendation	Work Request Reference
TARGCOMPDATE	Recommendation	Target Completion Date

1. A value is mapped to the ASSETNUM field only if the Recommendation record is linked to a record in the baseline *Equipment* family.
2. A value is mapped to the LOCATION field only if the Recommendation record is linked to a record in the baseline *Functional Location* family.

Constant Values

In addition to the values that are mapped from Meridium APM records to Maximo, the following value is used in the data transfer process and is defined as a constant in the CMMS Mapping record that is linked to the CMMS Interface record for the Work Request Creation Interface:

- Element Type: InputParameters
- Element Field: TransLanguage
- Constant Value: EN

Glossary

CMMS Interface Record

Used to identify two main items:

- How the Meridium APM system will communicate with the Maximo system.

- Which interface the record supports, which indicates the type of Maximo data that will be created or extracted.

CMMS Mapping Record

Used to identify how values will be mapped and which values will be mapped between the Meridium APM system and the Maximo system. Each CMMS Mapping record is linked to one predecessor CMMS Interface record that identifies the interface that uses that mapping.

CMMS System Record

Used to store identifying information about your Maximo system. The baseline Meridium APM database includes a CMMS System record that you can use as a starting point for identifying your Maximo system.

Equipment Extraction Interface

Allows you to extract data about assets from your Maximo system and import them into your Meridium APM system as Equipment records.

Functional Location Extraction Interface

Allows you to extract data about locations from your Maximo system and import them into your Meridium APM system as Functional Location records.

Interface Log Record

Created automatically each time an interface is run to store information about the process, such as the status of the process (e.g., Completed with warnings), the date the interface was run, and the parameters that were used to run the interface.

Service Request Creation Interface

Allows you to create and update Service Requests in your Maximo system using values in Recommendation records in your Meridium APM system.

Service Request Detail Extraction Interface

Allows you to extract Service Requests from your Maximo system and import it into your Meridium APM system as Work History Detail records.

Service Request Extraction Interface

Allows you to extract Service Requests from your Maximo system and import them into your Meridium APM system as Work History records.

Work Order Creation Interface

Allows you to create and update Work Orders in your Maximo system using values in Recommendation records in your Meridium APM system.

Work Order Detail Extraction Interface

Allows you to extract Work Order failure information from your Maximo system and import it into your Meridium APM system as Work History Detail records.

Work Order Extraction Interface

Allows you to extract Work Orders from your Maximo system and import them into your Meridium APM system as Work History records.