



## High Level Scope Document for Utopia Solutions for MDG™ on S4/HANA

Release 730

## Document History

The following table provides an overview of the most important document changes and approvals.

**Table 1 Document Change History**

Version	Date	Description	Name
1.0	01/12/2016	Initial Version	Lyle Snyder
1.1	21/02/2017	Updated for 730 SP01 /MDG 9	Lyle Snyder
1.2	12/07/2017	Add detail for Linear Asset Mngt	Lyle Snyder

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## Scope Overview

UGI 730 EAM content is valid for MDG 9.0 SP01 on S/4 HANA 1610

## Based on ECC View

The following topics are discussed in this section:

- Equipment
- Functional Location
- MRO Bill of Material
- Work Center
- Task List (Equipment, Functional Location, and General)
- Maintenance Plan/Item
- Measuring Point

## Equipment

Following Equipment topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code IE01 and IE02 are covered as part of scope:

- Basic data
- Equipment, Description, Equipment Category and Deletion Indicator
- Reference
- Copy Equipment
- General data
- System-User Status
- General Reference data
- General-Manufacturer data
- Location data
- Organization Account Assignment
- Organization-Responsibilities
- Structure
- Serialization data
- Data Origin Indicators
- Configuration data
- Class Assignments
- Characteristics Assignment
- UI Attributes
- Linear Asset Management (LAM) Attributes and Characteristics (Optional)
  - Depending upon Equipment Category, the mentioned Sections/Components will be displayed in the MDG UI. A Linear Object Equipment Category will enable the LAM Attributes and Characteristics. The sections are otherwise hidden.

## Functional Location

Following Functional Location topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code IL01 and IL02 are covered as part of scope:

- Basic data
- Functional Location, Description, Functional Location Category, Deletion Indicator
- Copy Functional Location, Copy Reference Functional Location
- Default values based on Superior Functional Location

- General data
- System-User Status
- General - Reference data
- General - Manufacturer data
- Location data
- Organization - Account Assignment
- Organization - Responsibilities
- Structure
- Class Assignments
- Characteristics Assignment
- Linear Asset Management (LAM) Attributes and Characteristics (Optional)
  - Depending upon Functional Location Category, the mentioned Sections/Components will be displayed in the MDG UI. A Linear Object Functional Location Category will enable the LAM Attributes and Characteristics. The sections are otherwise hidden.

## MRO Bill of Material

Following Material BOM topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code CS01 and CS02 are covered as part of scope.

### MRO BOM Header Details

- Header data
- Quantity data
- Validity data
- Material data
- BOM and Alternative Text

### BOM Item Overview

- BOM Item Detail
- Quantity data
- Additional data
- MRP data
- Purchasing data
- Item Status
- BOM Document Assignment
- Item Text

## Work Center

Following Work Center topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code IR01 and IR02 are covered as part of scope.

- Basic data
- General data, Standard Value Maintenance
- Default Values
- Capacities (Capacity Overview, Capacity Header, Assigning Pooled Capacity)
- Scheduling
- Costing
- Technology
- Depending upon Work Center Category, the above fields will display in MDG UI and all related with Screen group and Field Selection Configuration in ECC using OPFA transaction code

## Task List (Equipment, Functional Location, and General)

Following Task List topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with General Task List - transaction code IA05, IA06; Equipment Task List - transaction code IA01, IA02 and Functional Location Task List - transaction code IA11, IA12 are covered as part of scope.

- Header General View [General Task List (GNTL), Equipment Task List (EQTL) and Functional Location Task List (FLTL)]
- Assignment to Header
- Task List overview (GNTL, EQTL and FLTL)
- Operation (GNTL, EQTL and FLTL)
- General Operation overview
- Internal Processing Operation (GNTL, EQTL and FLTL)
- Standard Values
- Wages
- External Processing Operation (GNTL, EQTL and FLTL)
- External Activity
- Procurement Options

## Maintenance Plan/Item

Following Maintenance Plan topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code IP01, IP41 and IP02 are covered as part of scope.

Only Single Cycle Maintenance Plan are supported for the 730 release

- Basic data
- Scheduling Parameters
  - Date Determination
  - Call Control Parameter
  - Scheduling Indicator
  - Start Scheduling
- Additional data
- Maintenance Cycle
- Maintenance Items
  - Reference Object
    - Functional Location
    - Equipment
    - Assembly
  - Planning data
  - Task List
- Linear Asset Management (LAM) Attributes (Optional)
  - Depending upon Maintenance Plan Category and Cycle unit, the above fields will be displayed in MDG UI. Specifying a LAM enabled Reference Object (Equipment or Functional Location) in the Maintenance Item Details will enable the LAM Attributes. The LAM sections are otherwise hidden.

## Measuring Point

Following Measuring Point topics are covered as part of scope. Not all the fields/buttons (additional functionalities) compared with transaction code IK01 and IK02 are covered as part of scope.

- Basic data
- General data

- Target Value
- Counter data
- Additional data
  - Measurement Range Limits
- Linear Asset Management (LAM) Attributes (Optional)
  - Depending upon Measuring Point Category, the mentioned Sections/Components will be displayed in the MDG UI. A Linear Object Measuring Point Category will enable the LAM Attributes. The section is otherwise hidden.

## MDG Functionalities

The following MDG functionalities are discussed in this section:

- Equipment
- Functional Location
- MRO Bill of Material
- Work Center
- Task List
- Maintenance Plan/Item
- Measuring Point

### Equipment

- Create Equipment
- Change Equipment
- Display Equipment
- Search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request
- Copy with Reference
- Mandatory error messages on the top and the link navigates to the fields
- Dynamic Title
- Side Panel
- Data Import Framework
- Data Replication Framework
- Mark for Deletion
- Change Documents

### Functional Location

- Create Functional Location
- Change Functional Location
- Display Functional Location
- Search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request



- Copy with Reference
- Dynamic Title
- Side Panel
- Data Import Framework
- Data Replication Framework
- Mark for Deletion
- Change Documents

## MRO Bill of Material (Material BOM)

- Create MRO BOM
- Change MRO BOM
- Display MRO BOM
- Search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request
- Copy with Reference
- Dynamic Title
- Side Panel
- Data Import Framework
- Data Replication Framework
- Mark for Deletion
- Change Documents

## Work Center

- Create Work Center
- Change Work Center
- Display Work Center
- Search in MDG staging and Search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request
- Copy with Reference
- Mandatory error messages on the top and link to take you to the fields
- Dynamic Title
- Side Panel
- Data Import Framework
- Data Replication Framework
- Mark for Deletion and Lock Indicator
- Change Documents

## Task List (Equipment, Functional Locations, and General)

- Create Task List
- Change Task List
- Display Task List

- Search in active area using Database (DB) Search
- Search in active area using HANA Search
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request
- Copy with Reference
- Dynamic Title
- Side Panel
- Data Import Framework
- Data Replication Framework
- Mark for Deletion
- Change Documents

## Maintenance Plan/Item

- Create Maintenance Plan
- Change Maintenance Plan
- Display Maintenance Plan
- Search in MDG staging and Search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Objects Change Request
- Copy with Reference Maintenance Plan
- Mandatory error messages on the top and Hyperlinked to take you to the fields
- Dynamic Title
- Side Panel
- Context based adaptations
- HANA based Search and Duplicate Check functionalities
- Data Import Framework Create
- Data Import Framework Change
- Data Replication Framework
- Set and Reset Mark for Deletion flag
- Active/Inactive Indicator
- Change Documents

## Measuring Point

- Create Measuring Point
- Change Measuring Point
- Display Measuring Point
- Search in MDG Staging and search in active area using Database (DB) Search
- Mass Change
- File Download
- File Upload Create/Change
- Multiple Objects Change Request
- Mixed/Multiple Object Change Request
- Copy with Reference
- Active/Inactive Indicator
- Mandatory error message on the top and link to take you to the fields

- Dynamic Title
- HANA based search and duplicate check
- Context based adaptation
- Out of Box MDG Functionality
- Data Import Framework with create, change of measuring points
- Standard Change Documents and auditing capabilities

## Scope in detail for MDG

The following scope are detailed in this section:

- Equipment
- Functional Location
- MRO Bill of Material
- Work Center
- Task Lists (Equipment, Functional Location, and General)

- Maintenance Plan/Item
- Measuring Point

## Equipment

### Creation of Equipment

- Should maintain mandatory fields and Basic data fields
- Maintain Location data
- Possibility to maintain General data
- Possibility to maintain Reference data
- Possibility to maintain General Reference data
- Possibility to maintain General Manufacturer data
- Possibility to maintain Organization Account Assignment
- Possibility to maintain Organization-Responsibilities
- Possibility to maintain Structure
- Possibility to maintain Serialization data
- Possibility to maintain Configuration data
- Possibility to maintain Class Assignments
- Possibility to maintain Characteristics Assignment
- Possibility to maintain Linear Asset Management (LAM) Attributes and Characteristics (Optional)

### Change of Equipment

- Possibility to Maintain/Change Basic data fields
- Possibility to Maintain/Change Reference
- Possibility to Maintain/Change General data and General Reference data
- Possibility to Maintain/Change General Manufacturer data
- Possibility to Maintain/Change Location data
- Possibility to Maintain/Change Organization Account Assignment
- Possibility to Maintain/Change Organization-Responsibilities
- Possibility to Maintain/Change Structure
- Possibility to Maintain/Change Serialization data
- Possibility to Maintain/Change Configuration data
- Possibility to Maintain/Change Class Assignments
- Possibility to Maintain/Change Characteristics Assignment
- Possibility to Maintain/Change Linear Asset Management (LAM) Attributes and Characteristics (Optional)

### Mass Change

- Functionality is available to change the master data for multiple Equipment to a common value through Multiple Object Processing.

### Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup

## Copy Functionality

- Create new Equipment with copy functionality by using existing Equipment

## File Download

- File Download functionality is available for existing multiple Equipment

## File Upload Create/Change

- File Upload create functionality is available for Creating multiple new Equipment and Change for existing multiple Equipment

## Multiple Objects Change Request

- MDG Equipment is equipped with the functionality to process multiple Equipment in single Change Request.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Equipment Master, Functional Location, MRO BOM, Measuring Point, Work Center) in a single Change Request.

## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results and Mass Change

## Data Import Framework

- Data Import functionality is available for importing to create multiple Equipment using xml and csv files with key mapping and without key mapping and, key mapping and value mapping

## Data Replication Framework

- Replication framework functionality is available to replicate the data to target systems through Manual replication and DRFOUR and Auto replication

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Equipment

## Functional Location

### Creation of Functional Location

- Should maintain mandatory fields and Basic data fields
- Maintain Location data
- Possibility to maintain General data

- Possibility to maintain Reference data
- Possibility to maintain General Reference data
- Possibility to maintain General Manufacturer data
- Possibility to maintain Organization Account Assignment
- Possibility to maintain Organization Responsibilities
- Possibility to maintain Structure
- Possibility to maintain Class Assignments
- Possibility to maintain Characteristics Assignment
- Possibility to maintain Linear Asset Management (LAM) Attributes and Characteristics (Optional)

## Change of Functional Location

- Possibility to Maintain/Change Basic data fields
- Possibility to Maintain/Change Reference
- Possibility to Maintain/Change General data and General Reference data
- Possibility to Maintain/Change General-Manufacturer data
- Possibility to Maintain/Change Location data
- Possibility to Maintain/Change Organization Account Assignment
- Possibility to Maintain/Change Organization-Responsibilities
- Possibility to Maintain/Change Structure
- Possibility to Maintain/Change Serialization data
- Possibility to Maintain/Change Configuration data
- Possibility to Maintain/Change Class Assignments
- Possibility to Maintain/Change Characteristics Assignment
- Possibility to Maintain/Change Linear Asset Management (LAM) Attributes and Characteristics (Optional)

## Mass Change

- Functionality is available to change the master data for multiple Functional Location to a common value through Multiple Object Processing.

## Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup

## Copy Functionality

- Create new Functional Location with copy functionality by using existing Functional Location

## File Download

- File Download functionality is available for existing multiple Functional Location

## File Upload Create/Change

- File Upload create functionality is available for Creating multiple new Functional Location and Change for existing multiple Functional Location

## Multiple Objects Change Request

- MDG Functional Location is equipped with the functionality to process multiple Functional Location in single Change Request.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Equipment Master, Functional Location, MRO Bill of Material, Measuring Point, Work Center) in a single Change Request.

## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results and Mass Change

## Data Import Framework

- Data Import functionality is available for importing to create multiple Equipment using xml and csv files with key mapping and without key mapping and, key mapping and value mapping

## Data Replication Framework

- Replication framework functionality is available to replicate the data to target systems through Manual replication and DRFOUT and Auto replication

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Functional Location

## MRO Bill of Material

### Creation of MRO BOM Header and Components

- Should maintain mandatory fields and Header data fields
- Maintain Location data
- Possibility to maintain Quantity data
- Possibility to maintain Validity data
- Possibility to maintain Material data
- Possibility to maintain BOM and Alternative Text data
- Possibility to maintain BOM Item Overview
- Possibility to maintain BOM Item Detail
- Possibility to maintain BOM Quantity data
- Possibility to maintain MRP data
- Possibility to maintain Additional data
- Possibility to maintain Purchasing data
- Possibility to maintain BOM Document Assignment
- Possibility to maintain Item Status
- Possibility to maintain Item Text

## Change of MRO BOM Header and Components

- Possibility to Maintain/Change Location data
- Possibility to Maintain/Change Quantity data
- Possibility to Maintain/Change Validity data
- Possibility to Maintain/Change Material data
- Possibility to Maintain/Change BOM and Alternative Text data
- Possibility to Maintain/Change BOM Item Overview
- Possibility to Maintain/Change BOM Item Detail
- Possibility to Maintain/Change Quantity data
- Possibility to Maintain/Change MRP data
- Possibility to Maintain/Change BOM Document Assignment
- Possibility to Maintain/Change Item Status
- Possibility to Maintain/Change Item Text
- Possibility to Maintain Purchasing data
- Possibility to Maintain Additional data

## Mass Change

- Functionality is available to change the master data for multiple MRO BOM's to a common value through Multiple Object Processing.

## Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup

## Copy Functionality

- Create new MRO BOM with copy functionality by using existing BOM

## File Download

- File Download functionality is available for existing multiple MRO BOM's

## File Upload Create/Change

- File Upload create functionality is available for Creating multiple new MRO BOM and Change for existing multiple MRO BOM

## Multiple Objects Change Request

- MDG MRO BOM is equipped with the functionality to process multiple BOM's in single Change Request.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Equipment Master, Functional Location, MRO Bill of Material, Measuring Point, Work Center) in a single Change Request.



## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results and Mass Change

## Data Import Framework

- Data Import functionality is available for importing to create multiple Equipment using xml and csv files with key mapping and without key mapping and, key mapping and value mapping

## Data Replication Framework

- Replication framework functionality is available to replicate the data to target systems through Manual replication and DRFOUT and Auto replication

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in MRO BOM

## Work Center

Based on Work Center, Category can configure the Work Center Screen group and Field selection by using transaction code OPFA.

### Creation of Work Center

- Should maintain mandatory fields and optional Basic data fields
- Possibility to maintain default fields values and it will be auto populated in Task Lists
- If the default values should not want to change, should marked a reference indicator when creating a Work Center
- Possibility to assign a Normal Capacity
- Possibility to assign a Pooled Capacity Category and Capacity
- Possibility to assign a Capacity category which has assigned in Capacity list
- Possibility to assign a Capacity category and Capacity if it is a Pooled Capacity
- Possibility to maintain Costing data fields
- Possibility to maintain Technology fields

### Change of Work Center

- Possibility to Maintain/Change Basic data fields
- Possibility to Maintain/Change default fields values and it will be auto populated in Task Lists
- If the default values should not want to change in Task List, should marked a reference indicator when creating a Work Center
- Possibility to Maintain/Change a Normal Capacity
- Possibility to Maintain/Change a Pooled Capacity Category and Capacity
- Possibility to Maintain/Change a Capacity category which has assigned in Capacity list
- Possibility to Maintain/Change a Capacity category and Capacity if it is a Pooled Capacity
- Possibility to Maintain/Change a Costing data fields
- Possibility to Maintain/Change a Technology fields

## Mass Change

- Functionality is available to change the master data for multiple Work Center to a common value through Multiple Object Processing. For MDG 7 systems, a Change Request will need to be created before you can process data. Change Request creation is (now) integrated into the process for MDG 8 and above.
- The following fields are supporting Basic data, Default Values, Scheduling, Technology, Deletion Flag, Locking Work Center fields

## Search

- Functionality available on fields by using DB search

## Copy Functionality

- Create new Work Center with copy functionality by using existing Work Centers

## File Download

- File Download functionality is available for existing multiple Work Centers

## File Upload Create/Change

- File Upload create functionality is available for Creating multiple new work and Change for existing multiple Work Centers

## Multiple Objects Change Request

- Functionality is available for create/change and you can use this service to create a Change Request. For MDG 7 systems, a Change Request will need to be created before you can process data. Change Request creation is (now) integrated into the process for MDG 8 and above.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Equipment Master, Functional Location, MRO Bill of Material, Measuring Point, Work Center) in a single Change Request.

## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results and Mass Change

## Setting Lock Indicator

- Setting and resetting the lock indicator option is available in the Change Work Center.

## Data Import Framework

- Data Import functionality is available for importing to create multiple Work Centers using xml and csv files with key mapping and without key mapping and, key mapping and value mapping

## Data Replication Framework

- Replication framework functionality is available to replicate the data to target systems through Manual replication and DRFOUT and Auto replication

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Work Center

## Task Lists (Equipment, Functional Location, and General)

### Creation of Task List Header and Components

- Should maintain mandatory fields and Header data fields
- Maintain Task List overview
- Possibility to maintain Task List General header view
- Possibility to maintain operation
- Possibility to maintain internal processing operations
- Possibility to maintain External Processing operations

### Change of Task List Header and Components

- Possibility to Maintain/Change Task List overview
- Possibility to Maintain/Change Task List General header view
- Possibility to Maintain/Change operation
- Possibility to Maintain/Change internal processing operations
- Possibility to Maintain/Change External Processing operations

## Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup

## Copy Functionality

- Create new Task List with copy functionality by using existing Task List.

## File Download

- File Download functionality is available for existing multiple Task Lists.

## File Upload Create/Change

- File Upload create functionality is available for Creating multiple new Task List and Change for existing multiple Task List.

## Multiple Objects Change Request

- MDG Task List is equipped with the functionality to process multiple Task Lists in a single Change Request.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Equipment Master, Functional Location, MRO Bill of Material, Measuring Point, Work Center) in a single Change Request.

## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results.

## Data Import Framework

- Data Import functionality is available for importing to create multiple Equipment using xml and csv files with key mapping and without key mapping and, key mapping and value mapping

## Data Replication Framework

- Replication framework functionality is available to replicate the data to target systems through Manual replication and DRFOUR and Auto replication

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Task List.

## Maintenance Plan/Item

### Creation of Maintenance Plan

- Should maintain all the mandatory fields of Maintenance Plan
- Maintenance Plan must contain at least one cycle and one Item data to create.
- Enter the Cycle or Offset value in maintenance plan cycle tab, its mandatory field.
- If entered Cycle unit is Time dimension, Start of Cycle field is enabled in scheduling.
- If entered Cycle unit is Performance dimension, Start Counter Reading field is enabled in scheduling.
- If entered Cycle unit is Performance dimension, Counter (Measuring Point with counter reading) field become mandatory.
- If assign Scheduling Indicator is Time - Key date or Time - Factory Calendar, then Factory calendar field become mandatory.
- Possibility to maintain Scheduling information.
- Possibility to maintain Additional data.
- Possibility to Create New Maintenance Item during Maintenance Plan create process.
- Possibility to Assign Existing Maintenance Item to Maintenance Plan.
- If assign Maintenance Item to Maintenance Plan then it will be auto populated in Reference object, Planning data and Task List details.
- Possibility to maintain Linear Asset Management (LAM) Attributes (Optional).

### Change of Maintenance Plan

- Possibility to Maintain/Change Maintenance Plan data
- Possibility to Maintain/Change the Scheduling parameters
- Possibility to Maintain/Change the Additional data
- Possibility to Maintain/Change the Start scheduling information in scheduling
- Possibility to Maintain/Change Scheduling Indicator (0 to 2)
- Possibility to Change Scheduling Indicator is Time to Key date or Factory Calendar then Factory calendar field become mandatory
- Possibility to Create New Maintenance Item during Maintenance Plan create process.
- Possibility to Assign Existing Maintenance Item to Maintenance Plan
- If assign Maintenance Item to Maintenance Plan then it will be auto populated in Reference object, Planning data and Task List details
- During change process Maintenance Plan, Maintenance Plan category mandatory fields should be displayed read only
- During change process, can't change Cycle unit from one dimension to another dimension (e.g. time to performance). Units with same dimension can be changed only.
- During change process, Maintenance Plan must contain at least one cycle and one Item.
- Possibility to Maintain/Change Linear Asset Management (LAM) Attributes (Optional).

### Mass Change

- Functionality is available to change the master data for multiple Maintenance Plan to a common value through Multiple Object Processing. Before you can process the data. A Change Request is required which is used to approve the changes to the Maintenance Plan.
- The following fields are supporting Basic data, scheduling parameters, Additional data, Deletion flag set/reset and Inactive/active the Maintenance Plan.

## Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup

## Copy Functionality

- Create new Maintenance Plan with copy functionality by using existing Maintenance Plan as reference
- Maintenance Item data is copied to new maintenance items. New items have temporary number (% as prefix) and final number is created on CR approval.

## File Download

- File Download functionality is available for existing Maintenance Plans
- Files can be downloaded separately for Maintenance Plan, Maintenance Cycle and Maintenance Items.

## File Upload Create/Change

- File Upload create and change functionality is available for creating new Maintenance Plan and Change for existing Maintenance Plans.

## Multiple Objects Change Request

- Functionality is available for create/change and you can use this service to create a Change Request. Before you can process Mass Change and File Upload, you need to create a Change Request which is used to approve the changes to the Maintenance Plan.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Maintenance Plan, Equipment Master, Functional Location, Material BOM, Measuring Point, Task List and Work Center) in a single Change Request.

## Mark for Deletion

- Mark for Deletion set/reset functionality is available through Search results and Mass Change process.

## Data Import Framework

- Data Import functionality is available for importing to create and change multiple Maintenance Plans using xml and csv files with key mapping and without key mapping and, key mapping and value mapping.

## Data Replication Framework

- Data Replication functionality is available to replicate the data to target systems through Manual replication and DRFOUT and Auto replication.

## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Maintenance Plan.

## Measuring Point

### Creation of Equipment Measuring Point

- Assignment of a Measuring Point Category
- With Counter
- Without Counter
- Possibility to maintain Basic data
- Possibility to maintain General data
- Possibility to maintain Target Limits and Counter data
- Possibility to maintain Additional data – Measurement Range Limits
- Possibility to maintain General Class Assignment and Characteristics
- Possibility to maintain Linear Asset Management (LAM) Attributes (Optional).

### Creation of Functional Location Measuring Point

- With Counter
- Without Counter
- Possibility to maintain Basic data
- Possibility to maintain General data
- Possibility to maintain Target Limits and Counter data
- Possibility to maintain Additional data – Measurement Range Limits
- Possibility to maintain General Class Assignment and Characteristics
- Possibility to maintain Linear Asset Management (LAM) Attributes (Optional).

### Changing of Equipment Measuring Point

- Changing the values of informative Characteristics if needed
- With Counter
- Without Counter
- Possibility to maintain Basic data
- Possibility to maintain General data
- Possibility to maintain Target Limits and Counter data
- Possibility to maintain Additional data – Measurement Range Limits
- Possibility to maintain General Class Assignment and Characteristics
- Possibility to maintain Linear Asset Management (LAM) Attributes (Optional).

### Changing of Functional Location Measuring Point

- Changing the values of informative Characteristics if needed
- With Counter
- Without Counter
- Possibility to maintain Basic data
- Possibility to maintain General data
- Possibility to maintain Target Limits and Counter data
- Possibility to maintain Additional data – Measurement Range Limits
- Possibility to maintain General Class Assignment and Characteristics

- Possibility to maintain Linear Asset Management (LAM) Attributes (Optional).

## Search

- Functionality available on fields by using DB search
- Functionality of HANA Search is supported subjective the hardware and setup.

## Copy Functionality

- Create new Measuring Point with copy functionality by using existing Measuring Point as reference.

## File Download

- File Download functionality is available for existing Measuring Points.

## File Upload Create/Change

- File Upload create and change functionality is available for creating new Measuring Point and Change of existing Measuring Points.

## Multiple Objects Change Request

- Functionality is available for Create/Change and you can use this service to create a Change Request. Before you can process Mass Change and File Upload, you need to create a Change Request which is used to approve the changes to the Measuring Point.

## Mixed/Multiple Objects Change Request

- Functionality is available for Create/Change Mixed Multiple Object Processing Change Request. With this Change Request, you can process all EAM master objects (for example. Maintenance Plan, Equipment Master, Functional Location, Material BOM, Measuring Point, Task List and Work Center) in a single Change Request.

## Active/Inactive functionality

- Active/Inactive functionality is available through Search results and Mass Change process.

## Data Import Framework

- Data Import functionality is available for importing to create and change multiple Maintenance Plans using xml and csv files with key mapping and without key mapping and, key mapping and value mapping.

## Data Replication Framework

- Data Replication functionality is available to replicate the data to target systems through Manual replication and DRFOUT and Auto replication.



## Change Documents

- Change Documents functionality is available for displaying which are the changes happened in Measuring Point.

## Out of Scope for MDG

### Equipment

- Multi-language texts cannot be maintained using the MDG EAM user interface Because of restrictions in the underlying APIs, the description (medium text) can only be maintained in the logon language. You can maintain the text in other languages using the backend transactions or use the file upload functionality within MDG.
- This restriction is common to the single-records and multiple-records processing and is a current technical limitation
- “Long text and Internal note” functionality is not supported via MDG EAM
- “Serialization data tab - Stock information not supported through MDG UI” functionality is not supported via MDG EAM
- “Sales and Distribution, PRT data and Other” tabs functionality is not
- “Active and Inactive” functionality is not supported via MDG EAM
- Change Maintenance Plant and Equipment Category is not possible once created with Equipment
- Cannot assign and create Measuring points/counters through equipment creation/change via MDG EAM
- Location Address data is not supported via MDG EAM
- Partner Functionality is not supported via MDG EAM
- Change of Serialization Material number/Serial number is not supported via MDG EAM once created
- Sub-Equipment list is not supported via MDG EAM
- Equipment hierarchy is not supported. Inheritance and defaulting of data along hierarchy lines is not supported
- Maintaining characteristic data of the configurable material is not supported

### Functional Location

- Multi-language texts cannot be maintained using the MDG EAM user interface because of restrictions in the underlying APIs, the description (medium text) can only be maintained in the logon language. You can maintain the text in other languages using the backend transactions or use the file upload functionality within MDG.
- This restriction is common to the single-records and multiple-records processing and is a current technical limitation.
- “Long text” functionality is not supported via MDG EAM
- “Active and Inactive” functionality is not supported via MDG EAM
- Change Maintenance Plant and Functional Location Category is not possible once created with Functional Location
- Cannot assign and create Measuring points/counters through Floc creation/change via MDG EAM
- Location Address data is not supported via MDG EAM
- Partner Functionality is not supported via MDG EAM
- Maintain Multilingual short texts not supported via MDG EAM
- If alternative label existing, we cannot see the alternate label overview and user profile

- If alternative label is active, user will see the internal system generated number during some of the actions including the File Download, Mass Change.
- Copy functionality will not support the external number for functional location, functional location ID needs to be given on SOP screen.
- Functional Location hierarchy is not supported. Inheritance and defaulting of data along hierarchy lines is not supported

## MRO Bill of Material

- MRO-BOMs are restricted to the use of BOM alternative '01' due to restrictions of the standard interfaces and communication structures
- Mass Change is supported only at the header level due to restrictions within MDG and cardinality relationships
  - Mass Change cannot be leveraged through the search UI. The direct Mass Change application provides a separate step for selection and refinement. Accessing from search bypasses these steps and only passes the key components, not the fully specified (composite) key combinations
- Only BOM usage types that are relevant for Plant Maintenance are currently supported
- Engineering Change Management for BOMs is not supported in MDG EAM
- Sub Items are not supported
- Only item categories D, I, L, N, and T are supported
- Updates through File Upload can only change fields that do not have dependencies. Some examples include, but are not limited to: Item Category, Long Text, and some Purchasing fields.
- Long Text is only supported through Single Object Processing
- Create variant BOM is not supported via MDG EAM
- BOM Header Alternative long text is not supported via MDG EAM
- BOM Header Technical type is not supported via MDG EAM
- BOM Header Document assignment is not supported via MDG EAM
- Group BOMs (e.g. BOM without a corresponding plant assignment) are not supported in MDG EAM

## Work Center

- Multi-Language texts

Multi-language texts cannot be maintained using the MDG EAM user interface because of restrictions in the underlying APIs, the description (medium text) can only be maintained in the logon language. You can maintain the text in other languages using the backend transactions or use the file upload functionality within MDG.

This restriction is common to the single-records and multiple-records processing and is a current technical limitation.

- Template Function functionality is not supported via MDG EAM.
- Hierarchy Function functionality is not supported via MDG EAM
- HRMS Function functionality is not supported via MDG EAM
- Classification functionality is not supported via MDG EAM
- Capacity Tab
  - Intervals and Shifts, intervals function Button is not supported via MDG EAM.
  - Actual capacity requirements, Reference available capacity, Available capacity profile, Short Texts Function Button are not supported via MDG EAM
- In Costing – Validities function Button is not supported via MDG EAM

- Others
  - In Capacity, Scheduling and Costing Tabs: Display Formula, Test Formula, Formula Constants Function Button are not supported via MDG EAM.
  - Rename Work Center functionality not supported via MDG EAM.
  - Basic data, Default values and Technology tabs delete functionality is not supported via MDG EAM.
  - Grouping and Subsystems linking not supported via MDG EAM.
  - Maintain short texts for capacity not supported via MDG EAM.
  - Technology tab Process Assignment button and No. of process field is not supported via MDG EAM.

## Task List (Equipment, Functional Location, and General)

- Mass Change is not supported as only entity type 1 is changeable and there are no changeable values at that level.
- Components, PRT, Relationships, Service packages, Maintenance Packages, and Inspection characteristics not supported.
- Header Maintenance Strategy is not supported
- Header – Multiple Task List counters are not supported
- Header and Operation Long text, QM data (Inspection points, Ext. numbering), Profile, User-defined fields in Operations, operation qualification, operation relationships, and sub operations are not supported.
- Multi-language texts cannot be maintained using the MDG EAM user interface because of restrictions in the underlying APIs, the description (medium text) can only be maintained in the logon language. You can maintain the text in other languages using the backend transactions or use the file upload functionality within MDG. This restriction is common to the single-records and multiple-records processing and is a current technical limitation.
- Qualification is not supported through Change via MDG EAM
- In Task List Search result 'Equipment and Functional location description' fields are not supported via MDG EAM.
- Assignment of Class and Characteristics is not supported
- Search result 'Equipment and Functional location description' fields are not supported via MDG

## Maintenance Plan/Item

- Maintenance plan "Multiple-Counter Plan" functionality is not supported via MDG EAM.
- Maintenance plan "Strategy Plan" functionality is not supported via MDG EAM.
- Maintenance plan "Cycle Set Plan" functionality is not supported via MDG EAM
- Maintenance plan "Service Procurement" Category functionality is not supported via MDG EAM
- In Maintenance Item – "Sales Document" functionality is not supported via MDG EAM
- In Maintenance Item – "Settlement Rule – Create, Change and Display" functionality is not supported via MDG EAM
- In Maintenance Item – "Last Call Objects Item" functionality is not supported via MDG EAM
- In Maintenance Item – "Task List Create, Change and Display" functionality is not supported via MDG EAM
- In Maintenance Item – "Object list Item tab (Material, Serial No, Equipment and Functional location) functionality is not supported via MDG EAM
- In Maintenance Item – "Item Location tab" functionality is not supported via MDG EAM.
- MDG functional restrictions – Maintenance Plan
  - Change of Maintenance Cycle unit dimension is not supported. Can only change UoM with the same dimension via MDG EAM.

- Anomalies noticed in standard API MPLAN\_CHANGE with SAP note 2293632 where standard API dumps for Maintenance Cycle.
- Maintenance plan with Call Horizon in Days (switch EAM\_SFWS\_MPLAN\_OPEN\_HORIZ\_DAYS) is not supported via MDG EAM.
- Long Text is only supported through Single Object Processing

## Measuring Point

- “Measuring point Category Buildings (IBD)” functionality is not supported via MDG EAM
- “Measuring point Category Rental Unit (IME)” functionality is not supported via MDG EAM
- “Transmission of Measurement and Counter Readings” functionality is not supported via MDG EAM.
- “Measuring Point from Which Meas. Reading Was Transferred” functionality is not supported via MDG EAM.
- “Measurement Document Selection” functionality is not supported via MDG EAM
- “Last Measurement Document for Key Date” functionality is not supported via MDG EAM
- “Change Measuring Point Category” is not supported through Change via MDG EAM
- “Data origin and Data Origin List” functionality is not supported via MDG EAM
- “Change Reference Measuring Point assignment” functionality is not supported via MDG EAM
- “Measuring Points – Link to Documents” functionality is not supported via MDG EAM
- “First Measuring Point, Previous Measuring point, next Measuring Point and last measuring Point” functionality is not supported via MDG EAM
- “Administrative Info” functionality is not supported via MDG EAM
- “Display Changes” functionality is not supported via MDG EAM
- “Measurement Reading Transfer structure” functionality is not supported via MDG EAM
- “Measurement Document History” functionality is not supported via MDG EAM
- “Measuring Point Usage in Maintenance Plans” functionality is not supported via MDG EAM
- “Convert Unit of Measurement” functionality is not supported via MDG EAM
- “Display Object” functionality is not supported via MDG EAM
- “Characteristics” functionality is not supported via MDG EAM
- “Take up Measurement Reading Transfer” functionality is not supported via MDG EAM
- Basic data, General data, Target Limits and Counter data, Additional data – Measurement Range Limits, Class Assignment and Characteristics tabs delete functionality is not supported via MDG EAM.
- Grouping and Subsystems linking not supported via MDG EAM
- MDG functional restrictions – Measuring Point
  - “Change Measuring Point Category” is not supported through Change via MDG EAM.
  - “Multi Object Processing” - Selection of existing measuring points is not possible while creating the MOP Change Request whereas, it can be done in change mode of the Change Request.
  - File Download of Classification data is not supported due to standard SAP framework limitations. This applies to both General Classification.
- Long Text is only supported through Single Object Processing

## Scope in Detail for Fiori

SAP Fiori apps for EAM Master Data Governance (MDG) enable request scenarios for multiple master data domains, i.e., FLOC, EQ, MBOM, MSPT, MPI, Work Center and Task list. Business users can access these apps using the device of choice, such as a tablet or smart phone. These apps are easily accessible for a general user with limited knowledge of MDG by providing Lean requestor form for a user new to MDG.

### Request New Equipment

With this transactional app, you can request a new Equipment for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Option to upload attachments containing request details

### Request New Functional Location

With this transactional app, you can request a new FLOC for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Option to upload attachments containing request details

### Request New MRO Bill of Material

With this transactional app, you can request a new MRO BOM for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Supports only BOM Header
- Option to upload attachments containing request details

### Request New Measuring Point

With this transactional app, you can request a new Measuring Point for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Option to upload attachments containing request details

### Request New Maintenance Plan

With this transactional app, you can request a new Maintenance Plan for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Supports Maintenance Items.
- Option to upload attachments containing request details

### Request New Task List

With this transactional app, you can request a new Task type for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Supports all 3 types of task list: General, Equipment and Functional Location Task List
- Option to upload attachments containing request details
  - Supports General, Equipment and Functional Location Task List Header in one app

## Request New Work Center

With this transactional app, you can request a new Work Center for an organization or person

- Creates a Change Request with basic/mandatory fields only
- Option to upload attachments containing request details

## Change Equipment

With this transactional app, you can request for change Equipment for an organization or person

- Creates a Change Request with basic/mandatory fields only for Equipment Change`
- Display basic/mandatory fields on entering the Equipment to be changed
- Option to upload and download attachments

## Approve EAM Master Data Request

With the transactional app, you can approve MDG master data Change Requests for a new or changed master data. Once a request is submitted by requestor, it should be approved by senior steward to create/change the master data in MDG. This app enables an approver to see the details of requested master data and approve/reject it accordingly. You can use this app for the FLOC, EQ, MRO BOM, MSPT, MPI, Work Center and Task list objects.

- Approve or Reject MDG EAM Master data
- Display only fields which have data entered by the requestor
- Display only the changed data to approver for approval of master data
- Display all requests of step type 2 (Approve) to approver in the SAP inbox
- Display only relevant data based on Backend Roles assigned
- Download attachments that was uploaded by the Requestor

## Out of Scope for Fiori

- Link Attachment is not supported in all the apps
- By default, the Reason for Request field is not filled while uploading an attachment
- Duplicate search is not supported
- The list mentioned in the Out of Scope for MDG section is valid for all the Fiori Apps

## Request New Equipment

- Does not support Class Assignment and Characteristics Assignment.
- Does not support Inheritance
- Install equipment under the superior equipment not possible
- Does not support Linear Asset Management (LAM) Attributes and Characteristics.

## Request New Functional Location

- Does not support Class Assignment and Characteristics Assignment.
- Does not support Inheritance
- Does not support Hierarchy
- Does not support Linear Asset Management (LAM) Attributes and Characteristics.

## Request New MRO Bill of Material

- Does not support BOM Items
- Does not support alternative BOM
- Does not support Group BOM

## Request New Measuring Point

- Does not support Class Assignment and Characteristics Assignment
- Does not support Linear Asset Management (LAM) Attributes

## Request New Maintenance Plan

- Maintenance plan “Multiple-Counter Plan”, “Strategy Plan”, “Cycle Set Plan” functionality is not supported
- Does not support Linear Asset Management (LAM) Attributes

## Request New Task List

- Header – Multiple Task List counters are not supported
- Does not support General Task List Operation Overview
- Does not support Equipment Task List Operation Overview
- Does not support Functional Location Task List Operation Overview

## Request New Work Center

- Hierarchy Function functionality is not supported

## Change Equipment

- Does not support Class Assignment and Characteristics Assignment
- Does not support Linear Asset Management (LAM) Attributes and Characteristics

## Approve EAM Master Data Request

- Does not support editing of fields of respective Change Request