

A short red horizontal line is positioned to the left of the main title.

APL - Material Requirements Improvements

Functional Overview

Ellipse EAM® 9.0.12

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Introduction

Purpose

The purpose of this functional overview is to describe the enhancements that have been made in Ellipse 9.0 to support the use of APLs and Material requirements functionality. This document includes details of the Ellipse enhancements and business processes and describes how to configure and use of the new functionality.

This document should be read in conjunction with the following functional overviews:

- Requisition Improvements Functional Overview
- Product Service Category Functional Overview

Business Benefits

The customer-business benefits identified with the improvements of the APL - Material requirements functionality are as follows:

- Support effective and efficient work management by enabling easier re-use of a pre-defined parts list.
- Provide commonality in functionality across screens when identifying material requirement items.
- Minimise the changes required for listed requirements on Ellipse entities by using APLs as a changing or variable list that can be managed separately.
- Improved estimated requirements visualisation and the ability to determine what APLs are being used to support work management.
- Additional search criteria to better view material requirements for existing work orders.

Business Rules

The following business rules apply with the enhancements introduced with the APLs and Material requirements improvements:

- The existing business rule of only allowing an APL or material requirements to be added to a task has been removed.

When creating a Work Order from a Standard Job:

- Where the Standard Job Task has an APL and no material requirements, then the APL's details and items are copied to the Work Order Task. The APL details are stored against each material requirement. Only APL items that have a Unit of Issue will be copied.
- Where the Standard Job Task has both an APL and material requirements then **only** the requirements are copied to the Work Order Task material requirements.

This functionality has been applied across all applications where a Work Order is created from a Standard Job.

When creating a requisition from a Work Order:

- If a work order task has requirements and an APL, then the system will always create the requisition from the listed task's material requirements only.
- If an APL exists only against a task and there are no listed material requirements, then the APL will be used to create the requisition.

Functional Enhancements

The enhancements introduced with the APL and Material requirements improvements are aimed at improving requirements usage and allowing organisations to expand the use of APLs. These enhancements increase the synergy between the material and work modules of Ellipse, whilst aiding the successful delivery of planning and scheduling of work with the identification of material, goods and services that can be requisitioned or purchased.

These enhancements allow a user to:

- Add Material requirement items to a Work Order Task with the use of APLs.
- Identify the source APL for Work Order task Material requirement items.
- Assign an APL to a Standard Job Task that will create a list of Material requirement items for a Work Order task.
- Use an APL as a changing or variable list of requirements that can be maintained separately.
- Perform additional searches for Requirements Management.

Consolidation of the Work Order Task APL and Material Tabs

The APL and Material tabs of Work Order Tasks in the MSEWOT, MSE623, MSE625, MSE660 and MSE690 screens have been consolidated. The APL tab and lookup flows have been removed, with the field details of the APL tab moved to the Material tab.

The screenshot displays the 'MSEWOT - Update Work Order Task' interface in Ellipse EAM 9.0. The 'Material' tab is selected and highlighted with a red box. The interface includes a top navigation bar with options like Submit, Refresh, Process Model, New, Save As, Delete, Open, New Search, Labour Costing, and Complete. The main area shows fields for District (R100), Work Order (00656886), WO Task (001), Equipment Reference (PUMP123), Task User Status (IP), and Work Release (In Planning). Below these are sections for 'Add from APL' and 'Material Items'. The 'Material Items' section is a table with columns: Item Number, Stock Code, Part Number, Costing Method, Unit Qty Required, Rate Amount, Manufacturer's..., and Fixed Amo....

Item Number	Stock Code	Part Number	Costing Method	Unit Qty Required	Rate Amount	Manufacturer's...	Fixed Amo...
No records found							

A new field group of 'Add from APL' is now available in the Work Order Task Material tab of MSEWOT, MSE623, MSE625, MSE660 and MSE690 screens.

Ellipse EAM 9.0

MSEWOT - Update Work Order Task

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District: R100 R100 AUD/USD FAR DISTRICT

Work Order: 00656886 WATER PUMP OVERHAUL AUTHORIZED

WO Task: 001 Water Pump Overhaul AUTHORIZED

Equipment Reference: PUMP123

WATER PUMP 123

Task User Status: IP In Planning

Work Release: ☐

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL

Equipment Reference:

Equipment Group Id:

Component Modifier Code:

Component Code:

Sequence Number:

Material Items

+Add Lookup LinkOne Lookup MSE130

Item Number	Stock Code	Part Number	Costing Method	Unit Qty Required	Rate Amount	Manufacturer's ...	Fixed Amo...	U
No records found								

APLs and Material requirement items can now be added against a Task.

Ellipse EAM 9.0

MSEWOT - Update Work Order Task

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District: R100 R100 AUD/USD FAR DISTRICT

Work Order: 00656886 WATER PUMP OVERHAUL AUTHORIZED

WO Task: 001 Water Pump Overhaul AUTHORIZED

Equipment Reference: PUMP123

WATER PUMP 123

Task User Status: IP In Planning

Work Release: ☐

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL

Equipment Reference:

Equipment Group Id: LUBRICATION Lubrication List

Component Modifier Code:

Component Code:

Sequence Number: 001

Material Items

+Add Lookup LinkOne Lookup MSE130

Stock Code	Unit Qty Required	UOM	APL Equipment	APL EGI	APL Comp	APL Comp Mod	APL Sequence
000003120 - BEARING	1.00	EA - EACH		WPUMP - Wate...			
002017309 - COUPLING	1.00	EA - EACH		WPUMP - Wate...			
000001123 - OILY & RA	1.00	LT - LIT...		LUBRICATION ...			001
000004333 - OIL, LUBR	1.00	LT - LIT...		LUBRICATION ...			001

Showing 4 results

Record APL Requirement Items for a Work Order Task

The use of APLs has been expanded to allow the creation of Material requirement items for Work Order Tasks. Functionality has been introduced in MSEWOT, MSE623, MSE625 and MSE660 screens so that when an APL is saved to a Work Order Task then the APL's item details, including any sub APL item details, are saved to the Work Order Task material requirements. This allows APLs to be used to build a list of material requirements for a Task, based on several smaller units.

Ellipse EAM 9.0

MSEWOT - Update Work Order Task

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District R100 R100 AUD/USD FAR DISTRICT
Work Order 00656886 WATER PUMP OVERHAUL AUTHORISED
WO Task 001 Water Pump Overhaul AUTHORISED
Equipment Reference PUMP123 WATER PUMP 123
Task User Status IP In Planning Work Release

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL
Equipment Reference WPUMP Water Pump
Equipment Group Id Component Modifier Code
Component Code Sequence Number

Material Items

Item Number	Stock Code	Part Number	Unit Qty Required	Qty Requisitioned	Manufacturer's ...	Rate Amount
000001	000003120 - BEARING, - 0	KL-892-UU89	1.00	0.00	SKF - SKF KUGELL...	0.0000
000002	002017309 - COUPLING, CL	L060099PE0	1.00	0.00	VICTALIC - VICTAU...	0.0000

Showing 2 results

This functionality will add material requirements even if the Task already has requirements. Any previously requirements on the Task will remain as-is. Example: If the Task has a basic set of requirements, an APL can be used to add more specific requirements for a scenario whilst keeping the original requirements. This can be conducted as many times as you want with different APLs.

Ellipse EAM 9.0

MSEWOT - Update Work Order Task

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District R100 R100 AUD/USD FAR DISTRICT
Work Order 00656886 WATER PUMP OVERHAUL AUTHORISED
WO Task 001 Water Pump Overhaul AUTHORISED
Equipment Reference PUMP123 WATER PUMP 123
Task User Status IP In Planning Work Release

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL
Equipment Reference LUBRICATION Lubrication List
Equipment Group Id Component Modifier Code
Component Code Sequence Number 001

Material Items

Item Number	Stock Code	Part Number	Unit Qty Required	Qty Requisitioned	Manufacturer's ...	Rate Amount
000001	000003120 - BEARING, - 0000031	KL-892-UU89	1.00	0.00	SKF - SKF KUGELL...	0.00
000002	002017309 - COUPLING, CLAMP, PIP	L060099PE0	1.00	0.00	VICTALIC - VICTAU...	0.00
000003	000001123 - OILY & RAG	SH-970	1.00	0.00	SHELL - SHELL CO...	0.00
000004	000004333 - OIL, LUBRICATING	TELLUS	1.00	0.00	SHELL - SHELL CO...	0.00

Showing 4 results

APL Material Requirements Improvements Functional Overview

New columns have been added to the support reporting and work management when APLs are used to add Material Requirement items. When material requirements are saved against a Work Order Task, the source APL is now recorded against the individual material requirements within these columns.

Ellipse EAM 9.0 Quick Launch

MSEWOT - Update Work Order Task

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District: R100 R100 AUD/USD FAR DISTRICT
Work Order: 00656886 WATER PUMP OVERHAUL **AUTHORISED**
WO Task: 001 Water Pump Overhaul **AUTHORISED**
Equipment Reference: PUMP123
WATER PUMP 123
Task User Status: IP In Planning Work Release: ☐

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL
Equipment Reference:
Equipment Group Id: LUBRICATION Lubrication List
Component Modifier Code:
Component Code:
Sequence Number: 001

Material Items

+ Add Lookup LinkOne Lookup MSE130

	Stock Code	Qty Requisitioned	APL Equipment	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Description
x	000003120 - BEARING; - 00000312	0.00		WPUMP - Wa...				
x	002017309 - COUPLING, CLAMP, PIPE	0.00		WPUMP - Wa...				ROLLERGRIP
x	000001123 - OILY & RAG;	0.00		LUBRICATIO...			001	
x	000004333 - OIL, LUBRICATING;	0.00		LUBRICATIO...			001	

Showing 4 results

Creation of a Work Order from a Standard Job

The creation of a Work Order from a Standard Job and the use of APLs and Material requirement items have been expanded to support the removal of the existing business rule of having only an APL or Material Requirement items defined against a Work Order task. This functionality allows the APL to be a changing, variable list of requirements that can be maintained separately and shared across Standard Jobs.

When creating a Work Order where the Standard Job Task has an APL and no material requirements, then the APL's details and listed items are copied to the Work Order Task upon creation of the Work Order. The APL details will be stored against each material requirement when the Work Order is created. Only APL items that have a Unit of Issue will be copied.

When creating a Work Order where the Standard Job Task has an APL and material requirements, then only the requirements are copied to the Work Order Task material requirements.

Below, a Standard Job showing a Standard Job Task with only an APL.

The screenshot shows the 'MSE693 - Update Standard Job Tasks' window. The 'Material' tab is selected. The 'Add from API' section shows the following details:

- Equipment Reference: WPUMP
- Equipment Group Id: Water Pump
- Component Code: [Empty]
- Sequence Number: [Empty]

The 'Material Items' table is empty, showing 'No records found'.

The Work Order created from the Standard Job and showing the APL's details and listed items. The source APL details have been listed against each material requirement item.

The screenshot shows the 'MSEWOT - Update Work Order Task' window. The 'Material' tab is selected. The 'Add from API' section shows the following details:

- Equipment Reference: WPUMP
- Equipment Group Id: Water Pump
- Component Code: [Empty]
- Sequence Number: [Empty]

The 'Material Items' table shows the following data:

Stock Code	Unit Qty Required	UOM	APL Equipme...	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Description
000003120 - BEARING	1.00	EA - EACH		WPUMP - ...				
002017309 - COUPLING	1.00	EA - EACH		WPUMP - ...				ROLLERGRIP 99E,6IN

The status bar at the bottom indicates 'Showing 2 results'.

A Standard Job showing a Standard Job Task with an APL and Material Requirement Items.

The screenshot shows the 'MSE693 - Update Standard Job Tasks' window. The 'Material' tab is selected. The 'Add from APL' section shows the following details:

- Equipment Reference: WPUMP
- Equipment Group Id: Water Pump
- Component Code: (empty)
- Sequence Number: (empty)

The 'Material Items' table shows the following data:

Catalogued	Stock Code	Stock Code Description	Part Number	Mnemonic	Material Description 1	Costin...	Rate
<input checked="" type="checkbox"/>	000004333	OIL, LUBRICATING	TELLUS	SHELL - SHELL CO...		System ...	

Showing 1 results

The Work Order created from the Standard Job and showing the APL's details and listed material items. The source APL details is not listed against the material requirement item.

The screenshot shows the 'MSEWOT - Update Work Order Task' window. The 'Material' tab is selected. The 'Add from APL' section shows the following details:

- Equipment Reference: WPUMP
- Equipment Group Id: Water Pump
- Component Code: (empty)
- Sequence Number: (empty)

The 'Material Items' table shows the following data:

Stock Code	Unit Qty Required	UOM	APL Equipme...	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Description
000004333 - OIL, LUBR...	1.00	LT - LT...						

Showing 1 results

Requisitioning APL and Material requirement items

To support the enhancements for requisitioning when creating a requisition where a work order task has requirements and an APL, then the system will always create the requisition from the listed task's material requirements only.

Below, the Work Order showing an APL and Material requirement items against a task.

Ellipse EAM 9.0

MS693 - Update Standard Job Tasks | MSEWOT - Search Work Order | MSEWOT - Update Work Order Task

Submit | Refresh | Process Model | New | Save As | Delete | Open | New Search | Labour Costing | Complete

District: R100 | R100 AUD/USD FAR DISTRICT
 Work Order: 00656890 | PUMP OVERHAUL OPEN
 WO Task: 001 | Pump Overhaul
 Equipment Reference: PUMP123 | WATER PUMP 123
 Task User Status:
 UNAUTHORISED

Initiation | Job Instructions | Planning | Costs | **Material** | Resource | Equipment | Scheduling | Task Notes | Completion | Completion Comments

Add from APL
 Equipment Reference:
 Equipment Group Id: LUBRICATION | Lubrication List
 Component Code:
 Sequence Number: 001

Material Items

Stock Code	Unit Qty Required	UOM	APL Equipme...	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Description
000003120 - BEARING	1.00	EA - EACH		WPUMP -...				ROLLERGRIP 99E,6IN
002017309 - COUPLING	1.00	EA - EACH		WPUMP -...				

Showing 2 results

Auto Requisition of the Work Order.

Ellipse EAM 9.0

MSEWOT - Search Work Order

Search | New Search | New | Process Model | Screen Defaults

Primary Criteria | Work Criteria | Equipment Criteria | Dates | Address | Reference Codes | Map Search

Search Method: Exact Match

Work Order: 656890

Work Order System Status: Uncompleted
 Work Order User Status:
 Work Group:
 Originator:
 Assign To:
 Project:
 Parent Work Order:
 Account Code:
 Include Project Hierarchy:
 Job Estimate:
 Equipment Reference:
 Equipment Location:
 Include Equipment Hierarchy:

Search Results

Complete	Reschedule	Print Job Card	Print Ordered Job Cards	Release All Tasks	Plan	Auto Requisition	Req By Date	Plan Finish Date
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		06/09/2019

Auto Requisition

A review of the requisition showing that the material items have been used to create the requisition.

Item	Req.Number	Req.Type	Description	Purch.Ord.	Supplier	Date Ordered	Date Due	Qty.Req.	% Value	Qty.Rec.	Tot.Value
1	K01305/0001	I	BEARING ;					1.00	0.00	0.00	0.00
2	K01305/0002	I	COUPLING,CLAMP,PIPE ;ROLLERGRIP 99E,6IN					1.00	0.00	0.00	0.00

Where the Work Order Task has only an APL against a task and there are no listed material requirements, then the APL will be used to create the requisition.

The Work Order showing an APL existing against a task and no material requirement items.

Equipment Reference: PUMP123
WATER PUMP 123
Task User Status: IP In Planning

Material Tab:

Add from AP:

Equipment Reference: LUBRICATION
Equipment Group Id: LUBRICATION List
Component Code: 001
Sequence Number: 001

Material Items Table:

Stock Code	Unit Qty Required	UOM	APL Equipme...	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Description
No records found								

Auto Requisition of the Work Order.

Search Method: Exact Match

Work Order: 00656892

Work Order System Status: Uncompleted

Equipment Reference: PUMP123

Search Results:

Complete	Reschedule	Print Job Card	Print Ordered Job Cards	Release All Tasks	Auto Requisition	Req By Date	Plan Finish Date
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	06/09/2019	06/09/2019

A review of the requisition showing that the APL has been used to create the requisition.

ABB Ellipse EAM 9.0 Quick Launch

MSEWOT - Search Work Order x MSEWOT - Update Work Order x **MSM628A - REVIEW WORK ORDER MATERIALS STATUS** x

Submit Reset Screen Defaults ☆

Work Order 00656892 Lubricate Pump

	Item	Req.Number	Req.Type	Description	Purch.Ord.	Supplier	Date Ordered	Date Due	Qty.Req.	% Value	Qty.Rec.	Tot.Value
▼	1	F01301/0001	I	OILY & RAG ;					1.00	0.00	0.00	0.00
▼	2	F01301/0002	I	OIL, LUBRICATING ;					1.00	0.00	0.00	0.00
▼												
▼												
▼												
▼												

Additional Search Options and Results

New search functionality has been added to MSERMT to support usability and provide additional options to manage requirements. Searches can now be conducted to view requirements for Work Orders across districts as well as individual Work Orders and Tasks. These new additional searches enhance the options to further support the management of requirements.

Reference	Type	Requirement Status	Work Order	Task	Document ...	Stock Code	Stock/Mat...	Unit Qu...	Quantit...	Qu
▼ R100000646407	Work Order		00646407		test					
▼ R100100646407001	Task		00646407	001	test					
▼ R100200646407001000001	Material Requirement	No Issue Requirement	00646407	001		KEL1	TEST	1.00	0.00	
▼ R100200646407001000002	Material Requirement	No Issue Requirement	00646407	001		KEL01	MINE ONLY	1.00	0.00	
▼ R100700646407H012300001	Issue	Issue Requirement no Parts	00646407			KEL1	TEST	1.00		
▼ R100700646407K012620001	Issue	Issue Requirement no Parts	00646407			SAAS11-Q	QTY RACK S...	10.00		

Showing 6 results

The MSERMT - Search Requirements Management screen has been enhanced to display requisitions that are not linked to a requirement for a Work Order. The search results now include requisitions that were created with costings to a work order but didn't have requirements detailed within the Work Order Task. This enhancement assists in the planning and scheduling of work by displaying the requisitions that have been created outside of using the Work Order requirements.

The Work Order showing the requirements against the task.

Stock Code	Unit Qty Required	UOM	APL Equipment	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Catalog
KEL1 - TEST... - KEL1 PA	1.00	EA - EACH						✓
KEL01	1.00	EA - EACH						✓

Showing 2 results

MSERMT showing the search results, which include requisitions created with costings to a work order but lacking requirements detailed within the Work Order Task.

Ellipse EAM 9.0 Quick Launch

MSERMT - Search Requirements Management

Q Search Q New Search Process Model Screen Defaults

Date Options: This Week

Work Group: R100 R100 AUD/USD FAR DISTRICT

District: 00646407

Crew:

Work Order Task: 001

Reference	Type	Requirement Status	Work Order	Task	Document ...	Stock Code	Stock/Mat...	Unit Qu...	Quantit...
R100000646407	Work Order		00646407		Requisition ...				
R100100646407001	Task		00646407	001	Requisition ...				
R100200646407001000001	Material Requirement	No Issue Requisition	00646407	001		KEL1	TEST	1.00	0.00
R100200646407001000002	Material Requirement	No Issue Requisition	00646407	001		KEL01	MINE ONLY	1.00	0.00
R100700646407H012300001	Issue	Issue Requisition no Parts	00646407			KEL1	TEST	1.00	
R100700646407H012750001	Issue	Issue Requisition no Parts	00646407			KEL01	MINE ONLY	1.00	
R100700646407K012620001	Issue	Issue Requisition no Parts	00646407			SAAS11-Q	QTY RACK S...	10.00	

Showing 7 results

Component Differences in Ellipse EAM

New Components

There are no new components introduced with this development item.

Modifications to Existing Components

The following components have been modified as a result of this development item:

Assets and Work Screens

The following screens have been modified to add both an APL and Material requirement items to a task. The APL and Material tabs have been consolidated with the fields moved and renamed in the Material tab. New functionality allows an APL to be used to build a list of Material requirements. New columns have been added to the Material items grid to identify the source APL of a material requirement item:

- MSEWOT - Work Order Task
- MSE623 - Work Order Task
- MSE625 - Work Order Task
- MSE660 - Work Order Task

MSE690 - Standard Job Task (MSE693)

The APL and Material tabs have been consolidated, with the fields moved and renamed in the Material tab. The existing business rule of only having either an APL or Material Requirement items on a task has been removed.

When creating a Work Order where the Standard Job Task has an APL and no material requirements, then the APL's details and listed items are copied to the Work Order Task upon creation of the Work Order. The APL details will be stored against each material requirement when the Work Order is created.

When creating a Work Order where the Standard Job Task has an APL and material requirements, then only the requirements are copied to the Work Order Task material requirements.

MSERMT - Requirements Management

The Requirements Management application has been modified with new search criteria to view requirements for Work Orders across districts as well as for individual Work Orders and Tasks. Additionally, the search results now include requisitions that are not linked to a requirement for a Work Order.

MSF734 - Material Requirement File

To support the creation of Material requirement items from APLs, new columns that identify the source APL have been added to the MSF734.

Obsolete Components

The following components have been made obsolete from this development item:

Component ID	Obsolete Component Name	Functionality Replaced By
MSEWOT - Work Order Task	The APL tab has been removed	The Material and APL tabs have been consolidated. A new field group of Add from APL is available to allow the look-up of and addition of an APL. The 'Add APL to Requirements List' action has been replaced with the Work Order and Work Order Task 'Requisition' Action. Refer to the Requisition Enhancements Functional Overview.
MSE623 - Work Order Task	The APL tab has been removed.	The Material and APL tabs have been consolidated. A new field group of 'Add From APL' is available to allow the look-up of and addition of an APL. The 'Add APL to Requirements List' action has been replaced with the Work Order and Work Order Task 'Requisition' Action. Refer to the Requisition Enhancements Functional Overview.
MSE625 - Work Order Task	The APL tab has been removed.	The Material and APL tabs have been consolidated. A new field group of 'Add From APL' is available to allow the look-up of and addition of an APL. The 'Add APL to Requirements List' action has been replaced with the Work Order and Work Order Task 'Requisition' Action. Refer to the Requisition Enhancements Functional Overview.
MSE660 - Work Order Task	The APL tab has been removed.	The Material and APL tabs have been consolidated. A new field group of 'Add From APL' is available to allow the look-up of and addition of an APL. The 'Add APL to Requirements List' action has been replaced with the Work Order and Work Order Task 'Requisition' Action. Refer to the Requisition Enhancements Functional Overview.
MSE690 - Standard Job Task	The APL tab has been removed	The Material and APL tabs have been consolidated. A new field group of 'Add From APL' is available to allow the look-up of and addition of an APL.

How to Configure

Modules

Module No	Module Name	Required	Notes
3101	Catalogue	Yes	
3130	Application Parts List	Yes	
3620	Work orders	Yes	
3660	Project Control	Yes	
3690	Standard Jobs	Yes	
3720	Work Groups	Yes	

System Control File

There are no system control file settings required for this development item.

District Control File

There are no district control file settings required for this development item.

Table Codes

The configuration of table files required for this development item.

Files

To support the creation of Material requirement items from APLs, new columns that identify the source APL have been added to the MSF734 - Material Requirement file.

Data Conversion

No data conversion programs or housekeeping programs provided with this development

Security

There is no new security required with this development item

Core Menu Changes

There are no changes to the core menu with this development item.

Other Configuration

There is there is no additional configuration required for this development item.

Personalisations

The following screens that have been personalised will require review:

- MSEWOT - Work Order Task
- MSE623 - Work Order Task
- MSE625 - Work Order Task
- MSE660 - Work Order Task
- MSE690 - Standard Job Task
- MSERMT - Requirements Management

Functional Overview

The following details the activities that can be performed with the enhancements introduced with this development item:

- MSEWOT - MSE623 - Record Material Requirements for a Task from an APL
- MSEWOT - MSE623 - Record APL Requirements for a Task
- MSERMT - Search Work Order Requirements

MSEWOT - MSE623 - Record Material Requirements for a Task from an APL

Use this activity to add material items from an APL to a Work Order task.

Note: When an APL is saved to a Work Order Task, then the APL's item details, including any sub APL item details, are saved to the Work Order Task material requirements.

Activity Steps

1. Access **MSE623**- Work Order Tasks.
The MSE623 - Search Work Order Tasks screen displays.
2. Enter the relevant search criteria and select Search.
A list of tasks matching the search criteria display in the results grid.
3. Select the required work order task.
The MSE623 - Update Work Order Tasks screen displays.
4. Select the Material tab.
5. Enter APL Details in one or more of the following fields:
 - Equipment Reference
 - Equipment Group Id
 - Component Code
 - Component Modifier Code
 - Sequence Number

APL Material Requirements Improvements Functional Overview

ABB Ellipse EAM 9.0

Quick Launch

MSE623 - Search Work Order Tasks | MSE623 - Update Work Order Tasks | **MSEWOT - Update Work Order Task ***

Submit Refresh Process Model New Save As Delete Open New Search Labour Costing Complete

District: R100 R100 AUD/USD FAR DISTRICT
Work Order: 00656895 WATER PUMP OVERHAUL **AUTHORISED**
WO Task: 001 Water Pump Overhaul **AUTHORISED**
Equipment Reference: PUMP123 WATER PUMP 123
Task User Status: Work Release: ☐

Initiation Job Instructions Planning Costs **Material** Resource Equipment Scheduling Task Notes Completion Completion Comments

Add from APL

Equipment Reference: LUBRICATION Lubrication List
Equipment Group Id: Component Code: Sequence Number: 001

Material Items

Stock Code	Unit Qty Required	UOM	APL Equipment	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Cata
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No records found

6. Select Submit.

The MSE623 - Update Work Order Task Material tab displays the APL Details with the items from APL populated in the results grid.

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Quick Launch

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Equipment Reference: LUBRICATION Lubrication List
Equipment Group Id: Component Code: Sequence Number: 001

Material Items

Stock Code	Unit Qty Required	UOM	APL Equipment	APL EGI	APL Comp	APL Comp Mod	APL Sequence	Cata
000001123 - OILY & RA	1.00	LT - LIT...		LUBRICATION ...			001	
000004333 - OIL, LUBR	1.00	LT - LIT...		LUBRICATION ...			001	

Showing 2 results

MSEWOT - MSE623 - Record APL Requirements for a Task

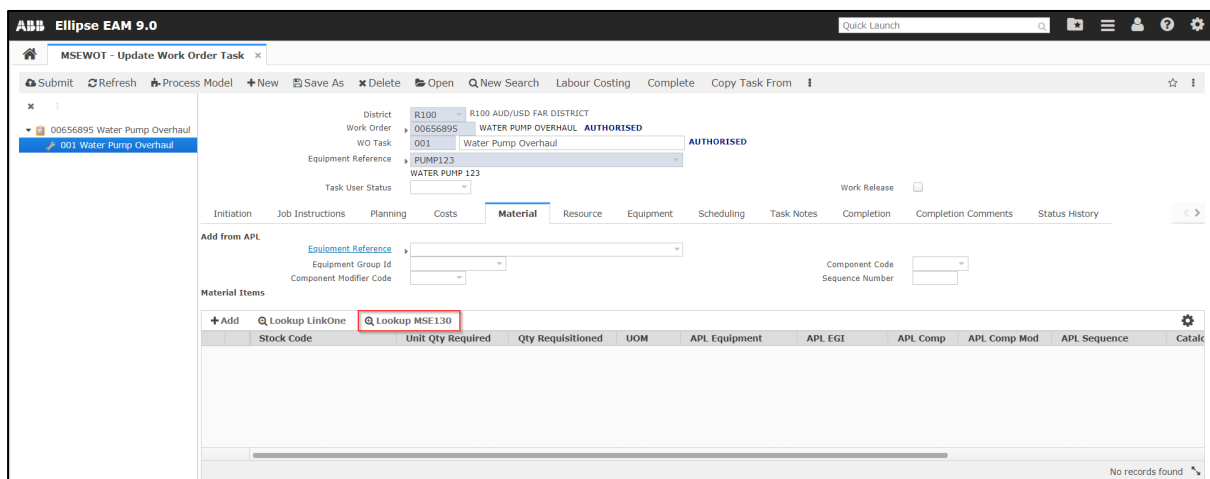
Use this activity to identify APLs required for a task. APLs are listed on a task instead of individual material requirements if a pre-defined bill of materials has already been created in Ellipse EAM. Using the APL is quicker than listing each material requirement.

Activity Steps

1. Access MSE623 - Work Order Tasks.
The MSE623 - Search Work Order Tasks screen displays.
2. Enter the relevant search criteria and click Search.
A list of tasks displays in the search results grid.
3. Select the required work order task.
The MSE623 - Update Work Order Tasks screen displays.
4. Select the Material tab.
5. Perform one of the following steps:

To search for an APL to associate with this task:

1. Click Lookup MSE130 on the Material tab.
The MSE130 - Search Application Parts List screen displays.



2. Enter the relevant search criteria and search and the select the required APL.
The MSE130 - Update Application Parts List screen displays.
3. Select the required APL items and Select and Return

MSERMT - Search Work Order Requirements

Use this activity to search for work order task requirements that may cause a potential delay in the ability to start planned work.

Activity Steps

1. Access **MSERMT - Requirements Management**.

The **MSERMT - Search Requirements Management** screen displays.

2. Perform one of the following:

- To search for a date range, enter data in the following fields:

- Date Options
- Work Group

OR

- Crew

- To search for an individual work order and/or work order task enter data in the following fields:

- District Code
- Work Order

OR

- Work Order Task

The screenshot shows the 'MSERMT - Search Requirements Management' screen. At the top, there's a header bar with 'ABB Ellipse EAM 9.0' and a 'Quick Launch' search bar. Below the header, there's a navigation bar with 'MSERMT - Search Requirements Management' and a close button. The main area contains search filters: 'Date Options' (This Week), 'Work Group' (dropdown), 'District' (R100), 'Work Order' (646407), 'Crew' (dropdown), and 'Work Order Task' (001). Below the filters is a table with columns: Reference, Type, Requirement Status, Work Order, Task, Document..., Stock Code, Stock/Mat..., Unit Qu..., and Quantit....

3. Click **Search**.

The results display in the grid.

ABB Ellipse EAM 9.0 Quick Launch

MSERMT - Search Requirements Management

Q Search Q New Search Process Model Screen Defaults

Date Options: This Week
 Work Group: R100 R100 AUD/USD FAR DISTRICT
 District: 646407
 Work Order: 646407
 Crew: 001
 Work Order Task: 001

Reference	Type	Requirement Status	Work Order	Task	Document ...	Stock Code	Stock/Mat...	Unit Qu...	Quantit...
▼ R100000646407	Work Order		00646407 ▶		Requisition ...				
▼ R100100646407001	Task		00646407 ▶	001	Requisition ...				
▼ R100200646407001000001	Material Requirement	No Issue Requisition	00646407 ▶	001		KEL1 ▶	TEST	1.00	0.00
▼ R100200646407001000002	Material Requirement	No Issue Requisition	00646407 ▶	001		KEL01 ▶	MINE ONLY	1.00	0.00
▼ R100700646407H012300001	Issue	Issue Requisition no Parts	00646407 ▶			KEL1 ▶	TEST	1.00	
▼ R100700646407H012750001	Issue	Issue Requisition no Parts	00646407 ▶			KEL01 ▶	MINE ONLY	1.00	
▼ R100700646407K012620001	Issue	Issue Requisition no Parts	00646407 ▶			SAAS11-Q ▶	QTY RACK S...	10.00	

Showing 7 results

Note: The actions provided against the grid item can be used to help resolve issues found against the work order tasks.

If the **Req Status** column cell is highlighted red, the work order task requirement may cause a potential delay to start of planned work. If the cell is highlighted yellow, further investigation is required and if green, the job is on track to start when planned.

FAQs

- Question:** Can I use different APLs when adding to a work order to create a list of material requirements?
- Response:** Yes - Different APLs can be used to create a list of material requirements.
- Question:** Can I have a list of Material Items and an APL against a Work Order Task.
- Response:** Yes - Ellipse now allows the listing of an APL and Material Requirement Items against the same Work Order Task. Where both have been entered, the system uses the material requirements to create the requisition items from.

Definitions, Acronyms and Abbreviations

Definition	Description
APL	Application Parts List
EAM	Enterprise Asset Management
PSC	Product Service Category

References

Document	Location
Requisition Improvements Functional Overview	
Product Service Category Functional Overview	
