







MBOM Use Cases

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MCO definition, used to change MBOM

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MBOM Management overview

For each part that is published by MBOM Engineer (see chapter "Parts to Publish"), the system creates a Manufacturing Change Order (MCO) for each plant where the part is published.

The MCO controls the manufacturing change process for existing manufacturing parts and MBOMs; it's required to release any manufacturing change.

A new MCO is created automatically in any of the following cases:

- EBOM approval: Design Engineer users can approve EBOMs; MBOM Engineer users can publish EBOMs. PLM automatically creates new MCOs to release the MBOMs created from EBOMs (see chapter "Parts to Publish").
- EBOM changes: Design Engineer users can change EBOMs already released using the Change Request and Change Order process; the changes are automatically copied into corresponding MBOMs. PLM automatically creates new MCOs to release these changes (see chapter "Parts to Publish").
- MBOM copied from one plant to another: MBOM Engineer users can copy an existing MBOM to another plant; in this case, all parts contained in the MBOM are published to the new plant. PLM automatically creates a new MCO to publish the parts in the new plant (see chapter "Copy MBOM for other Plant").

MBOM Engineer users can changes a MBOM that do not violate design engineering content (for example, adding the Raw Material or defining new Intermediate parts); in this case, user can select an existing MCO in state Create created previously or can create a new MCO (see chapter "MCO Creation").

Using MCO, MBOM Engineer can select a single Bill of Material in order to complete the BOM definition and export the information to CMS (see chapter "Dashboard MCOs").

The MCO contains the list of new parts created and related to MCO:

- MCO created after an EBOM approval contains all new parts created by Engineer users; MCO contains also all the parts created by MBOM Engineer users (for example, new Manufacturing parts or Intermediate parts) to complete MBOM
- MCO created after a Change contains the new parts revised during the Change process; MCO contains also all the parts created by MBOM Engineer users (for example, new Manufacturing parts or Intermediate parts) to complete MBOM
- MCO created during a Manufacturing Change contains the new parts created by MBOM Engineer users (for example, new Manufacturing parts or Intermediate parts) to complete MBOM
- MCO created after a "Copy MBOM" function contains all parts published to new plant

In order to push the Item Master information and the Routing to CMS, the MBOM Engineer has to complete the mandatory information for CMS (see chapter "Parts to Complete", "Manufacturing Parts to Complete" and "MCO Overview").

In order to push the MBOM details to CMS, it's necessary complete the MBOM definition and implement the MCO (see chapter "MBOM Approval"). After MCO implementation, the MBOM Engineer user can push the MBOM definition to CMS systems (see chapter "Parts to Complete", "Manufacturing Parts to Complete" and "MCO Overview").

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MBOM Management workflow

1) Publish new parts

Parts approved from Engineer users: MBOM Engineer user has to publish the parts See chapter "Parts to Publish"

2) Complete MBOM

Dashboard MCO contains all MCOs created after parts publish activities: MBOM Engineer user has to complete new MBOM (or update existing MBOM, in case of change) See chapter "Dashboard MCOs", "MCO Overview", "MBOM Management" and "MBOM Plant Specific attribute definition"

3) Complete and approve new Manufacturing Parts

New Manufacturing Parts have to be completed and approved: MBOM Engineer user can update Manufacturing Part details and move the parts state to Approved See chapter "MBOM Management"

4) Implement MCO

MCO created has to be implemented: MBOM Engineer user has to define a Start Effectivity Date and move the MCO state to Implemented

See chapter "MBOM Approval"

5) Export to CMS

New EC and Manufacturing Parts have to be exported to CMS See chapter "Parts to Complete" and "Manufacturing Parts to Complete"

6) Copy MBOM

MBOM can be copied from a plant to another plant See chapter "Copy MBOM for other Plant"

7) Create Finished Product

Engineer users create products (for example Switch) and complete their Bill Of Material; MBOM Engineer user has to create the upper level of Bill Of Material See chapter "Create and Update Finished Product"

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MBOM01 Parts to Publish

Purpose	In order to push information to CMS or to define MBOM, the Status Define Manufacturing Plant has to be defined. During EBOM approval, MBOM can be created automatically.
Stakeholders	MBOM Engineer
Beginning	EBOM is approved and ready for status Publish
Interactions	User has to define Manufacturing Plant
End	Manufacturing Plant is defined; MBOM is created or updated
Constraints	None

The tab contains all parts approved by Engineer users; after Engineer approval, the parts have to be published to a CMS system (Malta or Egypt) by MBOM Engineer. In order to define which CMS system will receive the information for new parts, the MBOM Engineer has to define the Manufacturing Plant. Manufacturing Plant can be defined manually using Manufacturing Details functionality in the Categories menus.

If a part is created during a Change process (in other words, when a new part revision is created after a Change Request approval), the new part revision has the same Manufacturing Plant definition of previous revision.

When the MBOM Engineer defines the Manufacturing Plant for a part, if the part has an EBOM (for example, a part number classified as Finished Product, Product, Packaging or PCB), the sub-components inherited the plant selected for the "top" part. In order to assign the same plant to sub-component, the "top" part has been marked as "End Item" (by default, all new parts are created with "End Item" defined as "No").

Collaboration and Approvals	Parts to Publish Parts t	o Complete MCOs Manufacturing Pa	ar				
Home		🛛 - 💭 🖉 🕄 😫 🔆 -					
Home RFQ User	Name	Classification	Rev	Description	Manufacturing Responsibility	End Item	
Home Engineering	00001164	PCB	00	housing		No	
Home Change	00002644	Packaging	00	Packaging Switch 2		Yes	۲
Management User	00002654	Packaging	00	Packaging Switch 3		Yes	Ð
Home Manufacturing	1.52779GRY	Finished Product	00	SUB ASS BEZEL		Yes	۲
Issues Summary	1.551106		00	JLR START STOP SWITCH		Yes	Ð
Shortcuts	1.553094	Finished Product	00	JLR SPOILER		Yes	Ð
Collections	1.750202	Finished Product	00	MITSUBISHI STEERING-L6		Yes	Ð
Subscriptions	1.800085	Finished Product	00	E-BIKE SENSOR		Yes	Ð
	1.960158	Finished Product	00	SW BODY MAIN CSA		Yes	Ð
	1.960173	Finished Product	00	AML TOUCH TRONIC PADDLE		Yes	e

Step 1 From menu Home Manufacturing User, select command Parts to Publish

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Parts to Publish	Parts to Complete MCOs Mar	nufacturing Par
/ 📮 斗	📪 · 📰 · 💭 🖉 😪 🗒	**
🗌 Name 🔺	Classification	R
00001164	РСВ	0
00002644	Packaging	0
00002654	Packaging	0
🗌 👪 1.52779GRY	Finished Product	0
1.551106		0
1.553094	Finished Product	0
□ 🔜 1.750202	Finished Product	0

The information "Classification" can be used to recognize which parts have an EBOM

Step 2 From table, click on the part number to publish; PLM opens a window with part details

Drop Images here Part (00)	Packaging Switch 2 Sta Ow Mod	kaging Switch 2 State : Review Approved Publish Owner : MarioP Modified : May 19, 2016 2:46:45 PM						
00002644 00	Properties Mat	erial Parts CMS Ir	formation Lifecyc	le »				
Bill Of Materials	h	🗉 🗀 🗔 🔮	s 🔆 -					
Change Management	Name	00002644	Revision	00	State	Approved		
Specs & Documents				Мау		May 19		
Related Parts	Originator	Mario Pullicino	Originated	11, 2016	Modified	2016		
Collaboration	Part Classification	Miscellaneous Quality Release						
Manufacturing Details	Description	Packaging Switch 2						
Vendor Part Numbers	Design Purchase	Design	Long Lead Time Component	FALSE				
CMS Information	End Item	No	CMS Part Status	S				
Tool Parts	Technical							
Referenced By	Net Weight	0.0	Gross Weight	0.0	Net Weight UOM	KG		
Classification PowerView	Carry Over Parts		Remarks					
Issues	Similar Parts							
Related Change Notices	Classification Path	Technical Classificat	ion → Packaging					

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Step 3 Update part info to define End Item, if part has an EBOM

If the selected part has an EBOM and if it's a new part, the part has to be updated in order to define the field "End Item" to "Yes". If the part is a new revision, the field "End Item" is already setup.

		mouniou . may 10, 20	ю
00002644 00	Properties	Material Parts	CI
Bill Of Materials		🤌 🔟 🍙 🗔	1
Change Management	Name	00002644	
Specs & Documents			

In part details toolbar, select Edit icon

Update field "End Item" to "Yes" and select Done



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Step 4 Select command Change Management; select icon Create if Change Action doesn't exist



If the part is created during a Change process, the Change Action already exists and the Change Action state is "In Work". In this case, the Change Action must not to be created (skip to step 7).



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Step 5 PLM opens a window; user can enter a description for approval process (not mandatory) and select Done

Basic
Change Template
<u>Clear</u>
Туре
Change Order
Policy
Fast track Change
Change Details and Related Information
Description
Responsible Organization
METHODE ELECTRONICS
Reported Against
Change Coordinator
<u>Clear</u>
Category of Change
Done Cancel

After selecting Done, the system creates a Change Order and a Change Action; field Requested Change is set to "For Release"

i oi iterease								
·	Modified : Ma	iy 19, 2016 2:46:45 PM	4					
00002644 00	Change Order Change	Request						
Bill Of Materials	+ * = 🗖 斗	- 📪 - 📰 -		9 💎	Q. 🗐 🖇	} }∙		
Change Management		Change Action Info	ormation a	and Assig	nment			
Specs & Documents	Name	Change Action	Status	State	Assignee	Start Date	Planned End	Requested Change
Related Parts	CO-0035630	CA-0034623		Pen	Sama		1	For Release
Collaboration		CALCON 0004020	/	1 011	oama			Torrected be
Manufacturing Details								
Vendor Part Numbers								
CMS Information								

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Step 6 Define default Plant

Select command Manufacturing Details

	Drop Images here Part (00)	Packaging Switch 2	State : Review Owner : MarioF Modified : May	v 🔶 🔺	pproved 2:55:42 PN	→ Publish
	00002644 00	Manufacturing	Res MBC	OM Revis	sions	
	Bill Of Materials	📃 - 🥒 Vie	w Current & P	ending	Revis	ion Current 🗸
	Change Management	- Name		Tupo	Son	Dart Povision
	Specs & Documents			Type	Sey	Part Revision
	Related Parts	■ □ ■ 00002	2644	Part		
	Collaboration					
(Manufacturing Details					
ł	Vender Port Numbers					
1	CMS Information					
	Tool Parts					

Select Edit icon, select checkbox related to part

L	Modified : May 19, 2016 2:55:42 PM					
00002644 00	Manufacturing Res ME	OM Revi	sions			
Bill Of Materials	📃 🗶 View Current & F	ending	Revisi			
Change Management	Mass Update					
Specs & Documents		· · · ·				
Related Parts	✓ Name	Туре	Seq			
Collaboration	☐ ☑ → 00002644	Part				
Manufacturing Details	\smile					
Vendor Part Numbere						

Select "Create New Manufacturing Responsibility" command from Actions menu

Manufacturing Res	MBO
View Curre	ent & Pe
Create New Manufacturia Responsibility	ng
Change Manufacturing Responsibility	
S Delete Manufacturing Responsibility	
* Generate All Level MBON	۱

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Select Manufacturing Plants used for part production and select Submit (more than one plant can be selected)

🛞 10.1.68.28:8111/enovia/common/emxFullSearch.jsp?field=TYPES=type_Plant:CURRENT=policy_Organization.state_Active&table=MBOI 🥐 🕶							
Search Refinement	Search Results				Results	: 2, 1 selected	
Search) 🔄 🔌 - 📑 - 📑 -	E 💁 ·					
Case Sensitive	🗌 Plant Name 🔺	Time Zone	Туре	City	State	Postal Code	
Limit to 100 results	Egypt	(GMT+02:00) Cairo	Plant	Egypt		· · · · · · · · · · · · · · · · · · ·	
Туре	Malta	(GMT+01:00)Amsterdam	Plant	Malta			
Plant	•						
Name							
Revision							
Description							
Policy							
2							
State							
Originated		×			Subm	it Cancel	

Automatically, PLM searches and connect the Manufacturing Plant to Change Action previously created. Select command Save. If the user selects a Manufacturing Plant without a Change Action in state Pending or In Work, the system shows an error message and the plant definition cannot be saved.

here	Modified : 2/13/2016 2:48:23 PM										
000000531 00A	Manufacturing Res MB	Manufacturing Res MBOM Revisions									
Bill Of Materials	- X View	View Revision Filer 🕢 🗖 🗍 - 🕅 - 🕅 - 🕅 - 🖉 🖓 🐨 🚸 -									
Access	Mass Update	1 M II CHIN	entwi						- (Save Rese	et
Equivalents	Namo	Typo	Sog	Dart Povision	Statue	Description	MEC Change	Target Start Date	Chango	Change Status	
Change Management		Type	Seq	Part Revision	Status	Description	MFG Clially	alget Start Date	Change	Change status	E
Specs & Documents	0000000531	Part							_		
Related Parts	🛨 🔜 😅 Ο Malta	Plant	1		Pend				CA-0	Pending	A
Collaboration											
Multiple Ownership Access											
Manufacturing Details											
Vendor Part Numbers											

The Manufacturing Plant assigned to a part is assigned also to all sub-components contained in the EBOM.

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Before Manufacturing Plant assignment

i wounce. / w	ug 2, i	2010 1	1.17.0	0.7 Wi			
BOM EBOM Common	ME	BOM P	lant S	pecif Where Used Marku	ıps		
= - Reports -] _	: 1	 ✓ 	🕞 💽 💷 Markup 🗸	🤊 »	•••	>
□ Name	4	ľ		Manufacturing Responsibility	Туре	State	Rev
00004501			b 00A (EC	Appr	00
00004610			별 00A (EC	Appr	00
00004620			별 00A (EC	Appr	00

After Manufacturing Plant assignment (if parts are not updated, select the Refresh icon)

2	Large Premould State Own Mod	e : Review ← her : gilbert ified : Oct 28,	Approved	27 PM		(2	
^	BOM EBOM Com	mon MB	OM Plant S	pecif Routing	Where Used	»»		
	Reports -	1 🛃 🖍	1.	🗟 🔁 💽 💷	Markup 👻 🧐	»	»	
	□ Name	4		Manufacturing Respo	onsibility Typ	oe State	Rev	F.
	00004501		<u>الج</u> ب ۵۵۵ (Malta	EC	; Appr	00	
	🖃 🗖 👪 00004610		е ФА (Malta	EC	, Appr	00	1
	□ □ 🕁 00004620		<u>별</u> 001 (Malta	EC	Appr	00	2

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Step 7 Release the part

Select command Bill of Materials; select icon Promote BOM

	Drop Images here Part (00)	ackaging Switch 2 State Owr Mod	e : Review « ner : MarioP ified : May 19	 Appro 2016 2:55 	oved 🔶	Publish		
	00002644 00	EBOM EBOM Co	mmon	MBOM P	la <u>nt S</u> peci	if Rou	iting	Whe
	Bill Of Materials	Reports -	1	£ 1		30 Ma	arkup 🚽	2
	Change management							
	Specs & Documents	Name		▲ 🛍		Manufactu	ring Resp	onsib
	Related Parts	00002644				Malta		
	Collaboration	2682			b 00A (MEI	Malta		
	Manufacturing Details				00/10/11/21			
1	Vendor Part Numbers	in a the second				Malta		
1	CMS Information	- 🗌 🥔 72684			9 00A (MEI	Malta		
	Tool Parts							
	Referenced By	e 🗌 🥔 72157			80 00A (MEI	Egypt, Malt	а	
	Classification PowerView							
	Issues	□ @ 72158				Malta		

User has to confirm part promotion

Confirm EBOM	promotion?
ОК	Cancel

Finally, system raises an alert to notice the MBOM will be created (if part has an EBOM)

M	EBOM Common MBOM Plant Specif Routing Where Used Markups Notice: MBOM will be generated as background process and Responsible Manufacturing Engineer of the asso object will be notified once the job is completed.	ciated change
		ОК

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MBOM02 Dashboard MCOs

Purpose	Dashboard with all MCOs created. MBOM Engineer can promote and release MCO	Status	Define
Stakeholders	MBOM Engineer		
Beginning			
Interactions	MBOM Engineer select a MCO in order to define start validity date and rel	ease it	
End	MCO is released; MBOM is released in PLM		
Constraints	None		

For each part that is published by MBOM Engineer (see chapter "Parts to Complete"), the system creates a Manufacturing Change Order (MCO) for each plant the part is published.

The MCO controls the manufacturing change process for existing manufacturing parts and MBOMs; it's required to release any manufacturing change.

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Using MCO, MBOM Engineer can select a single Bill Of Material in order to complete the BOM definition and export the information to CMS.

The MCO contains the list of new parts created and related to MCO:

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- MCO created after a Change contains the new parts revised during the Change process; MCO contains also all the parts created by MBOM Engineer users (for example, new Manufacturing parts or Intermediate parts) to complete MBOM
- MCO created during a Manufacturing Change contains the new parts created by MBOM Engineer users (for example, new Manufacturing parts or Intermediate parts) to complete MBOM
- MCO created after a "Copy MBOM" function contains all parts published to new plant

In order to push the MBOM details to CMS, it's necessary complete the MBOM definition and implement the MCO (see chapter "MBOM Approval").

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The table shows all MCOs in state Create or Review

		\sim							
 Collaboration and Approvals 	Parts to Publish Part	ts to Complete MCOs	Manufacturing Par						
Home	name rev revision: Structu	rev revision: Structure View Filter:Aclive							
Home RFQ User	📮 📴 - 📰 -	• 📖 🖉 🏹 🚱 🎚	≣ ‰-						
Home Engineering	Name	Start Date	Manufacturing Responsibility	Affected Items	Involved MBOMs	State	Description	Owner	Origin
Home Change	MCO-0022685	Dec 31, 2049 1:00:	Egypt	52661-04		Create		Samantha Grima	May 1
Management User	MCO-0022687	Dec 31, 2049 12:0	Malta	54699-01		Create		Samantha Grima	May 1
Home Manufacturing User	□ 🕌 MCO-0022688	Dec 31, 2049 12:0	Malta	i 00001590 00002093		Create		Samantha Grima	May 1
Issues Summary	□ 🕍 MCO-0022690	Dec 31, 2049 1:00:	Egypt	52824-04		Create		UserAgent	May 1
Shortcuts	MCO-0022693	Dec 31, 2049 12:0	Malta	B 00000156		Create		Samantha Grima	May 1
Collections				B 00001903					
Subscriptions	🗋 🕍 MCO-0022695	Dec 31, 2049 12:0	Malta	100002486 100002476 100002505 100002496		Create		Samantha Grima	May 1
	□ 🕍 MCO-0022698	Dec 31, 2049 12:0	Malta	■ 00002703 ■ 00002565		Create		Samantha Grima	May 1

In order to view MCOs released and implemented, select filter

 Collaboration and Approvals 	Parts to Release	Parts to Release Parts to Complete		CMS Change
Home Change	name rev revision: S	tructure View Filter:Ad	tive	
Management User	- 🛶 📑 - 📑	🎫 - 🔜 📫 🖉	7 😪 🗄	▦ ▓-
Home Engineering User	🗌 Name 🗸 🔺 Cre	ate New Table View	Manufa	cturing Respo
Home Manufacturing	🗌 🕍 MCO-00 🗹 Ac	tive	5 Malta	
0.00	E MCO-00 Rel	eased	5 Malta	
Home RFQ User		lemented	9 Malta	
Home				
Issues Summary	<u> </u>	Dec 31, 204	9 Malta	
	MCO-0016446	Dec 31, 204	9 Egypt	

The table contains the following columns:

- Name: MCO name
- Start Date: MCO start effectivity date
- Manufacturing Responsibility: Plant related to MCO
- Affected Items: parts list that create the MCO after approval; these parts have to be completed
- Involved MBOMs: in case of Change Notice, MBOMs affected by change; in case of new part released, the column is empty
- State, description, owner, creation date

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In case of Change Notice, the column Affected Items contains the component revised, while column Involved MBOMs contains all MBOMs that contains the new components.

□ Name ↓	Start Date	Manufacturing Responsibility	Affected Items	Involved MBOMs	State	Description	•
□ 🕍 MCO-0017317 🖌	Apr 10, 20	Malta	₿ 56946-09	➡ 0142 ➡ 750157 ➡ 750148-57 ➡ 750143-46 ➡ 750143-46 ➡ 750144-58 ➡ 750141-43 ➡ 750143-45 ➡ 750143-45 ➡ 750143-45 ➡ 750143-58 ➡ 750150 ➡ 750146-59 ➡ 750146-59 ➡ 750150 ➡ 750150 ➡ 750150	Implemen		
							7

In case of new part, the column Affected Items contains the components created, while column Involved MBOMs is empty.

Name	Start Date	Manufacturing Responsibility	Affected Items	Involved MBOMs	State
□ 🕍 MCO-0000081	Feb 15, 2016 12:	Malta	5000000414 6000000416 60000000416 60000000416		Create
☐	Feb 15, 2016 12:	Malta	B 000000588		Create
🗌 🕍 MCO-0000087	Mar 17, 2016 4:3	Malta	B 000000588	_	Review
□ 🕍 MCO-0000090	Feb 15, 2016 12:	Malta	■ 000000017 ■ 71000000017 ■ 000000645 ■ 72000000017 ■ 000000646 ■ 000000646 ■ 000000647		Create
□ 🗃 MCO-0000095	Feb 15, 2016 12:	Malta			Create
🗌 🕍 MCO-0000097	Feb 15, 2016 12:	Malta	B TESTPIVOTAL007		Create
□ 🕍 MCO-0000098	Dec 31, 2049 1:0	Egypt			Create

Version	5	Date:	28-Nov-2017	
Status	Released			17

MBOM03 Parts to Complete

Purpose	In order to push information to CMS or to define MBOM, MBOM	Status	Define			
	Engineer has to be enter or update CMS information: Global and Plant					
	information, Routing details and MBOM					
Stakeholders	MBOM Engineer					
Beginning	EBOM is released, Plant is defined					
Interactions	User has to enter information					
End	Global and Plant information, Routing details and MBOM are defined and exported to CMS					
Constraints	None					

In order to push information to CMS or to define MBOM, MBOM Engineer has to be enter or update CMS information; the users can complete the information using two different approach:

- Search for parts using a flag list of parts, not related to a specific Bill of Material (using the table "Parts to Complete")
- Search for parts contained in a specific "Bill of Material" (using the table "Dashboard MCOs")

Complete information using table Parts to Complete

The table shows all parts that have been published and with information not completed, that is mandatory for CMS. The table doesn't contain information useful to group parts by EBOM or products; it's a flat list with all parts to complete.

The only information that can be used by MBOM Engineer users to recognize the parts with Bill of Materials is the columns Classification: if the part is classified as Finished Product, Product, Packaging and PCB means there is a Bill of Material.

When a new part is published, the system creates a Manufacturing Change Order (MCO) that contains all new parts created and contained in the Bill of Material. In order to search for parts to be completed but related to a MCO (in other words, related to a Bill of Material), see chapter "Dashboard MCOs".

Version	5	Date:	28-Nov-2017	
Status	Released			18

From "Home Manufacturing User" menu, select "Parts to Complete" command

VA										
 Collaboration and Approvals 	Parts to Publish Part	s to Complete	MCOs	Manufacturing Par						
Home	Complete Select	- Lo 🔢]•	07 😫 🗒 🛠	•					
Home RFQ User	🗆 Name 🔺	Classification	Rev	Description	DesignPurchase	End Item	Item Master	Item Master	Routing	Routing BON
Home Engineering User	00000010	Product	02	RH Window Lifter	Design	Yes		ITEM MASTER		BOM & ROUTE
Home Change	00000040		00	Socket	Design	No	Complete	ITEM MASTER	Complete	BOM & ROUTE
Home Manufacturing	00000080		02	PCB	Design	No	Complete	ITEM MASTER		BOM & ROUTE
User	00000136	Product	00	E-call Switch module LH	Design	Yes	Complete	ITEM MASTER		BOM & ROUTE
Issues Summary	00000156	PCB	00	PCB	Design	Yes		ITEM MASTER		BOM & ROUTE
Shortcuts	00000166		00	Button LH	Design	Yes	1	ITEM MASTER		BOM & ROUTE
Collections	00000255		00	PCB FR4 1.6mm	Design	Yes		ITEL		BOLLOBOUT
▶ Utilities	□ ≒ 3 ⁱ		00	BAS21	Design	Yes		m 1		₿ 2
Subscriptions			00	Color to CIE 1931	Design	Yes		ITEM MASTER		BOM & ROUTE
▼ Team	🗆 🐂 00000285		00	Resistors, 1k, 5%	Design	Yes		ITEM MASTER		BOM & ROUTE

In order to complete the information, the user can choose the following options:

- to enter the details related to Global and Plant information users can select the dedicate icon

ITEM MASTER

(in previous picture, icon 1)

- to enter the routing details or manage the MBOM, users can select the dedicate icon previous picture, icon 2)

BOM & ROUTE

(in

- users can select also the hyperlink related to part number (in previous picture, icon 3)

Version	5	Date:	28-Nov-2017	
Status	Released			19

Icon 1 "Item Master": form with plant information

Part 00002644 rev 00: Properties								
Part Number	Part Number 00002644 CMS Code Rule							
Global Info								
Description 1	Packaging S	witch 2						
Description 2								
Description 3								
Units of Measure a	and Weight							
Unit of Measure	PCS - PIECE	ES	Net Wei	ight	0.0	Net Weight UOM	KG	
Plant Info								
Plant Name GL Code		GL Code		GL Exp	ense Code			
😅 Malta						Бф		

Icon 2 "Routing and BOM": portal with MBOM and Routing information (the system opens the portal selecting the EBOM tab: user has to select tab "MBOM Plant Specific" and tab "Routing")

Drop Images here Part (00)	Packaging Switch 1 Sta Ow Mo	te : Publish yner : Corporate dified : May 12, 2016 4:	46:08 PM
00002634 00 Bill Of Materials Change Management Specs & Documents Related Parts Collaboration	 EBOM EBOM C Actions - Reports MBOM Name 00002634 	Common MBOM	Plant Specif Routing 2 ate MCO A Image: A Image: A sics Image: A Image: A Image: A e Description Image: A Image: A image: A Image: A Image: A Image: A image: A Image: A Image: A Image: A e Description Image: A Image: A image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A Image: A
Drop Images here Part (00)	Packaging Switch 1 State : Owner : 0 Modified :	Publish Corporate May 12, 2016 4:46:08 PM	
00002634 00 Bill Of Materials Change Management Specs & Documents Related Parts Collaboration	EBOM EBOM Comm	on MBOM Plant S	Pecif Routing
Version Status	5 Released	Date:	28-Nov-2017

Icon 3 Part Number: portal with all functions available to user (the system opens the part details form: user has to select tab "CMS Information" for Item Master information and command "Bill of Materials" for MBOM and Routing information)

	Drop Images here Part (00)	Pa	ackaging Switch 2	State : P Owner : Co Modified : N	ublish prporate lay 19, 2016 3:3	5:17 PM				Ø	
	00002644 00 Bill Of Materials	^	Properties	Material P	arts CMS	Information	Lifecy	cle »			
	Change Management		Part Number	0000)2644	CMS Co	de Rule				
	Specs & Documents		Global Info								
	Related Parts		Description 1	Pack	aging Switch 2	2					
	Collaboration		Description 2								
	Manufacturing Details			Description 3							
•	Vendor Part Numbers		Units of Measure	Units of Measure and Weight							
	CMS Information		Unit of Measure	PCS	- PIECES	Net Weig	ght	0.0	Net Weight UOM	KG	
	Tool Parts		Plant Info								
	Referenced By		Plant Name		GL Code		GL Expens	se Code			
	Classification PowerView		🖨 Maita				-			4	
	Issues	~									

Version	5 Date: 28-Nov-2		28-Nov-2017	
Status	Released			21

Complete and export Item Master information

Step 1 Enter CMS Global information

MBOM Engineer has to select the "CMS Information" tab related to part number to complete, selecting the icon "Item Master" (icon 1) or the part number (icon 3)

The system opens a window with the Global information (the information common to all plants) that are mandatory for CMS and that has to be entered by Engineer users. If necessary, the MBOM Engineer can update or complete the information selecting the Edit icon (for example, to define Description 2 and Description 3)

Part 00002644 rev 00: Properties								
	*≁							
Part Number	00002644		CMS C Rule	ode				
Global Info								
Description 1	Packaging S	witch 2						
Description 2								
Description 3	Description 3							
Units of Measure a	and Weight							
Unit of Measure	PCS - PIECE	ES	Net Weight		0.0	Net Weight UOM	KG	
Plant Info								
Plant Name	GL Code			GL Exp	ense Code			
Malta							Ð	

When the information is complete, select command Done

Part 00002644	rev 00: Properties					
🗟 🔆 -						
	Fleids in red Italics are required					/
Part Number	00002644	CMS Code Rule	¥			
Global Info						
Description 1	Packaging Switch 2]			
Description 2]			
Description 3]			
Units of Measur	e and Weight					
Unit of Measure	PCS - PIECES	Net Weight		10.0	Net Weight UOM	KG 🖌
Plant Info						
Plant Name	GL Coo	le	GL Expense Code		\sim	
					Done	Cancel

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Status	Released			22

Step 2 Enter CMS Plant information

In order to define the Plant information (the information that are specific for each plant), select the icon contained in the plants table

¢

Unit of Measure	PCS - PIECES		Net Weight 0.0		0.0	Net Weight UOM	KG
Plant Info							
Plant Name		GL Code		GL Exp	ense Code		
Malta							

The system opens a new window with all plant information; in order to update the information, select the Edit icon.

Plant Info								
🖉 🗟 🔆 ·								
Plant Name	Malta						^	
Global Info								
Description 1	Packaging S	witch 2						
Unit of Measure	PCS - PIECE	S		Net Weight UOM KG				
Catalog Id				Commodity Category Code	-			
Plant Info								
Production Make Buy Cod	ie Make							
Receive To Loc	-			Repetitive Control	Ν			
GL Code								
GL Code	-		GL Expense Code	-				
Major Group Code	-	•		Minor Group Code				
Major Sales Code	•		Minor Sales Code					
Plant Part - Manufacturir	ıg							
Schedule Type	MRP			Production Multiplier	0.0			
Optimum Run Purchase Size	0.0			Minimum Run Purchase Size	0.0			
Plant Part - Sales								
Standard Pack Size	0.0			Standard Pack Size UOM				
Plant Part - Label								
	Print	Copies	Format	Master Print	Master Copies	Master Format		
P/O Receiving	No	0	-	No	0	-		
Production Reporting	No	0	-					
Completed Production	No	0	-	No	0	-		
Shipping		0	-	No	0	-	~	

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Plant Info					
🗟 🔆 -					
	Fleids in red italics are required				^
Plant Name	Malta				
Global Info					
Description 1	Packaging Switch 2				
Unit of Measure	PCS - PIECES	Net Weight UOM	KG		
Catalog Id		Commodity Category Code	- 🗸		
Plant Info					
Production Make Buy Code	Make				
Receive To Loc	- 🗸	Repetitive Control	N 🗸		
GL Code					
GL Code	- 🗸	GL Expense Code	-		*
Major Group Code	-	Minor Group Code	~		
Major Sales Code	EXP - SALES EXPORTS MEM INT - SALES INTERCOMPANY	Minor Sales Code	¥		
Plant Part - Manufact	M01 - SALES EXPORTS MST				
Schedule Type	OTH - SALES OTHERS P01 - SALES EXPORTS POWER GROUP PROD	Production Multiplier	0.0		
Optimum Run Purchase Size	S01 - SALES EXPORTS SCOTLAND T01 - SALES EXPORTS TOUCH SENSOR	Minimum Run Purchase Size	0.0		
Plant Part - Sales	·				
Standard Pack Size	0.0	Standard Pack Size UOM	~		
Plant Part - Label					~
<				\sim	>
				Done	incel

The user has to complete the information and select Done.

The information can be completed also in more than one edit session.

The attribute GL Code and GL Expense Code are mandatory for CMS.

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Status	Released			24

Step 3 Export information to CMS

In order to export the Global and Plant information to CMS, the user has to close the window with Plant information and select the window with Global information

 P III (1) 10.1.68.20 Doc 2015x (2) Pivotal 2015 	8:8111/3dspace/commo 5x 🛞 Pivotal 2015x 3dp	n/emxNavigator.jsp?collal assport 🚳 Methode2015	oSpace=GLOBAI x 🧔 Methode2	2015x Prod 🔕 Methode2	ල් 015x Prod P මෑ Google Tra	🔍 Search anslate 🛞 Ja	vaDoc 2015x		☆│自		↓ ^	A @	<mark>6</mark> 🦗	-	=
Disabler L Cookies X Disabler L Cookies X DEXPE	CSS+ 🚺 Forms+ 🗔 I ERIENCE ENOVIA Co	mages• () Information•	Miscellaneo	ENOVIA - Mozilla	ize• 💥 Tools• 🔳 View Sour a Firefox	rce• 🖪 Optio						Samantha Grii	na 👔 🏕	✓ €)
Collaboration and Approvals	Parts to Publish	Part 00002644 rev 0	0: Properties	, chixi davigator pratog.jsp											
Home Home RFQ User	00002575	Part Number 0	0002644	•	E	NOVIA - M	ozilla Firefox							9	^
Home Engineering User Home Change	00002585	Global Info Description 1 P	ackaging Switc	(i) 10.1.68.28:8111/3c	dspace/common/emxNavigat	orDialog.jsp					}	800 800 800		₽ ₽	ł
Management User Home Manufacturing	00002604	Description 2 Description 3		/ & ☆	Marka.							ROUTING Store BOOT		e	
Issues Summary	- - - - - - - - - - - - - -	Units of Measure and Unit of Measure P	Weight CS - PIECES	Global Info	Maita Packaging Switch 2							* 800 800 800 800 800		9	
Collections	00002634	Plant Info	G	Unit of Measure Catalog Id	PCS - PIECES		Net Weight UOM Commodity	KG				8007186 200 8001 8007186		8	
	0000264	el Malta		Plant Info Production Make Buy			Calegory Code					BOOT INC. BOOT INC. BOOT		9	
			Einished Pr	Code Receive To Loc	маке		Repetitive Control	Ν				8007186 800 8007186 600	Complete	9	
	00002703		Finished Pr	GL Code GL Code Major Group Code	EXP - SALES EXPORTS M	IEM	GL Expense Code	M03 - MST	MANUFAC	CTURED	PARTS	8007180 400 8001	oompica		
	Name △		Classificati Finished Pr	Major Sales Code Plant Part - Manufact	- uring		Minor Sales Code				-	uting BOI	M BOM Complete		1
	00002723		Finished Pr	Schedule Type Optimum Run Purchase Size	MRP 0.0		Production Multiplier Minimum Run Purchase Size	0.0						9	
	 1.550145 1.556640 			UU MCEAREN	IP14 RUCKER BUTTON	Design	Tes		4	,		800 801 800 800 801		9	
	1.556641			00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4			ROUTING SRD BOIT		Ð	
	1.556642			00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4	•		son		a	•

The user has to select the "Export to CMS" icon contained in the toolbar

Part 00002644 rev 00: Properties									
Part Number	00002644	CMS C Rule	ode						
Global Info	Global Info								
Description 1	Packaging S	Packaging Switch 2							
Description 2									
Description 3									
Units of Measure a	and Weight								
Unit of Measure	PCS - PIECE	IS	Net Weight		10.0	Net Weight UOM	KG		
Plant Info									
Plant Name		GL Code		GL Exp	ense Code				
📾 Malta							æ		

Version	5	Date:	28-Nov-2017	
Status	Released			25

User has to confirm the CMS information export



If some mandatory information is missing or if there is a validation error during export, an alert is prompted

e	The following parts are not exported: 000007070 The following attributes are mandatory: GL Code (Malta) GL Expense Code (Malta) Prevent this page from creating additional dialogs
r r	ОК

If part is exported correctly, a notification message is prompted

The following parts are exported: 00002644	
ОК	

Version	5	Date:	28-Nov-2017	
Status	Released			26

Complete and export Routing information

MBOM Engineer has to select the tab "Routing" related to part number to complete, selecting the icon "Routing and BOM" (icon 2) or the part number (icon 3)

Step 1 User has to define Routing operation

User has to select the "Add Existing" icon in order to define operations

Drop Images here Bart (00)	Packaging Switch 2 State : Publish Owner : Corporate Modified : May 19, 2016 4:29:53 PM	
00002644 00	EBOM EBOM Common MBOM Plant Specif	Routing Whe
Bill Of Materials	- 🕞 🖻 🖉 🖉 🖫 - 📰 - 📰 🏹 🏷	F
Change Management		
Specs & Documents	Name Description F	·/N 🔺
Related Parts		
Collaboration		

User has to define one or more operation and select command Submit; the command "Add Existing" can be executed several times, in order to complete the operation list

Search Refinement	Search Results				Results: 26, 1 sele	cted
Search Q 3	🔄 🖦 - 🛄 - 🔝 -	, 🖓 📲 💭	# %	-		
Case Sensitive	🔲 Display Name 🔺	Revision 🔐	Туре	Policy	Description	State
Limit to 100 results		-	BO	PDS	FINAL PACKING AND WA	E ^
Туре		-	BO	PDS	Plaiting	Е
BOM Routing		-	BO	PDS	Painting	Е
Name	🗆 👪 ROL	-	BO	PDS	Rolling	Е
Revision	SRT	-	BO	PDS	Sorting	Е
C Highest By	D 💀 STM		BO	PDS	Steaming	E
	🗆 👪 STP	-	BO	PDS	Stamping	Е
Description	🗆 👪 ТМВ	-	BO	PDS	TUMBLING	E
Policy		-	BO	PDS	Testing	Ev
	•	<			6	
					Sub	mit

Version	5	Date:	28-Nov-2017	
Status	Released			27

An operation can be removed by selecting the operation and using the Remove Selected command

	000007070 00	^	MBOM Plant S	pecif	Ro	uting Whe	ere Used	Ма	arkups	1
	Bill Of Materials		* 💽 🚭	1	-	0 - 11 -		5	7	#
	Change Mgt PowerView		Name			Description			F/N 🔺	
	Access		МВ			TUMBLING			10	4
	Equivalents					Testing			20	ą
	Specs & Documents									
	Collaboration									
•	Multiple Ownership Access									
	Manufacturing Details									

User has to confirm the operation

You have chosen to remove the selected items fron not delete it from the database. To continue with the removal, click Cancel.	om the list. Removing an item does he removal, click OK. To cancel the
	OK Cancel

Version	5	Date:	28-Nov-2017	
Status	Released			28

Step 2 Define Operation information

The table contains the attributes that are mandatory for CMS:

- Sequence
- Department
- Resource
- Schedule Run Standard
- Operation Efficiency

In order to define routing details, user has two options:

- Select Edit icon contained in the toolbar
- Select Edit icon contained in the table

Edit icon contained in the toolbar



The user has to complete the information and select Save

Reset
ency
100
2

Edit icon contained in the table

EBOM EBOM Common	MBOM Plant Specif	Routing Where U	sed »
Name	Description	F/N	Depar
TST	Testing	99	DFTAS

Version	5	Date:	28-Nov-2017	
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: Properties Q %-1 Operation TST Testing ٨ F/N 20 Process ID Department Resource Set-up Standard 0 Crew Size (Setup) 1 Schedule Run # of Machines 0 1 Standard (setup) Cost Run Standard 0.0 # of Men/Machine 1 # of Machines 1 Lag Time (Hrs) 0.0 Expected Receipt Crt by Transfer Batch Standard Type 2 А Multiple Parts (Part 0 Y Reporting Point Multiplier) Schedule Priority Operation Efficiency 100 Group Concurrent Burden Driver Rate 0 0.0 Resources Factor Create Repetitive Jobs By Transfer Batch Qty Standard Cost Roll Up By Transfer 2-No Batch AOTBTH Cycle 1.0 Time Sec/Part ¥

System opens a new window with CMS Routing details

The page contains also a portion related to Outside Service Information

AOTBTH Cycle Time Sec/Part	1.0	
Outside Service Info	rmation	
Vendor Number		
Freight Out Cost/Unit	0.0	
Freight In Cost/Unit	0.0	
O/S Unit Cost	0.0	
Quantity Based On	1	
Total Cost (calculated)	0.0	
Estimated Time (days)	0.0	~

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: Properties		
🗾 🗟 🔆 ·		
Operation	TST	Tes
F/N	20	
Process ID		
Department		
Resource		
Set-up Standard	0	Cre
Schedule Run Standard	0	# of (set
Cost Run Standard	0.0	# of
Lag Time (Hrs)	0.0	

User has to complete information and select command Done

TST: Edit Oper	ration Details					
Q 🔆 -						
	Fleids in red Italics are required					^
Operation	TST	Testing				
F/N	99					
Process ID						
Department	DFTAS ASSEMBLY		~			
Resource	000 🗸					
Set-up Standard	9999	Crew Size (Setup)	1			
Schedule Run Standard	9999	# of Machines (setup)	1			
Cost Run Standard	0.0	# of Men/Machine	1	# of Machines	1	
Lag Time (Hrs)	0.0					
Standard Type	AV	Expected Receipt Crt by Transfer Batch	2 🗸			
Multiple Parts (Part Multiplier)	0	Reporting Point	YV			
Operation Efficiency	100	Schedule Priority Group]		
Concurrent	·	Burden Driver			Done	Cancel
l						

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Status	Released			31

Step 3 Export information to CMS

In order to export to CMS the Routing details, select "Export to CMS" command contained in Routing tab

Drop Images here Part (00)	Packaging Switch 2 State : Owner Modified	Publish : Corporate d : May 19, 2016 4:29:53 PM			
00002644 00	EBOM EBOM Com	mon MBOM Plant Specif.	Routing	Where	Used »
Bill Of Materials		l- 🖪- 🗊- 📃 🖉	1 🖓 🚍 🦻	g-	
Change Management				<i>a</i> .	0
Specs & Documents	Name	Description	F/N		Depan
Related Parts		Testing	99	ф	DFTAS
Collaboration					
Manufacturing Details					

User has to confirm the CMS information export

8	Confirm export to CMS?	W.
	OK Cancel	

A check is performed in order to inspect the routing with Find Number 99; if information is missing or if there is a validation error during export, an alert is prompted



If part is exported correctly, a notification message is prompted

The following parts are exported: 00002644	
ОК	

Version	5	Date:	28-Nov-2017	
Status	Released			32

Complete and export MBOM information

MBOM Engineer has to select the tab "MBOM Plant Specific" related to part number to complete, selecting the icon "Routing and BOM" (icon 2) or the part number (icon 3)

In order to complete MBOM details, see following section "MBOM Management".

In order to release MBOM, see following section "MBOM Approval".

Step 1 Export information to CMS

In order to export to CMS the MBOM details, select command Export to CMS contained in "MBOM Plant Specific" tab

Drop Images here Part (00)	Packaging Switch 2 State : Pub Owner : Corp Modified : May	lish orate / 19, 2016 4:36:18	PM	
00002644 00	EBOM EBOM Common	MBOM Plant	t Specif Routing	Where Used Mark
Bill Of Materials	Actions - Reports -	Create MC	co 🛤 🔄 🎞 😹	🛃 - 🗍 - 🔲 -
Change Management	мвом	Basics		
Specs & Documents	Name	🚯 Туре	Description	Base Materials Plat
Related Parts	00002644	EC	Packaging Switch 2	
Collaboration		50		
Manufacturing Details	+ _ @ 72682	EC	CARTON PAD	
Vendor Part Numbers		EC	CARTON BOX + LID	
CMS Information	+	EC	CARTON GRID	
Tool Parts		EC	CARTON SEPERATOR 3	
D.f	■ □ 🖉 72158	FC	CARTON SEPERATOR	

User has to confirm the CMS information export

8	Confirm expor	t to CMS?	22
	ОК	Cancel	

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Status	Released			33

If MBOM is not released or is empty, the system alerts an error message

The following parts are not expo	orted:
00002644: MBOM empty or not	released
Prevent this page from creating ad	ditional dialogs
	ОК

If part is exported correctly, a notification message is prompted

The following parts are exported: 00002644
ОК

Version	5	Date:	28-Nov-2017	
Status	Released			34

Complete information using table MCOs

The table "Parts to Complete" shows all parts that have been published; the table doesn't contain information useful to group parts by EBOM or products, because it's a flat list with all parts to complete.

When a part is published, the system creates a Manufacturing Change Order (MCO) that contains all new parts created and contained in the Bill of Material. In order to search for parts to be completed and related to a specific Bill of Material, MBOM Engineer user can search for the MCO related to the Product (or Bill of Material) and search for parts to be completed using the table "Affected Part Revision"

Step 1 Select MCO related to part to complete

The table "MCOs" shows all MCOs created; the column "Affected Items" contains all new parts created with MCO creation. User has to search for part to complete and select the MCO hyperlink.

				and the second sec					
- Collat Appro	ooration and vals	Parts to Publish Parts t	o Complete	MCOs Manufacturing Par					
Home	•	name rev revision: Structure View Filter:Active Q User Image: Comparison of the structure View Image: Comparison of the structure View							
Home	RFQ User								
Home	Engineering	Name 🗸	Start Date	Manufacturing Responsibility	Affected Items	Involved MBOMs	State		
Home	Change	□ 🕍 MCO-0022706	Dec 31,	Malta	B 00000010		Create		
Mana	Management User	CO-0022705	Dec 31,	Egypt	52819-02		Create		
Home	Manufacturing	□ 🕍 MCO-0022704	Dec 31,	Egypt	👪 C40768-01		Create		
Issue	s Summary	□ 🕍 MCO-0022703	Dec 31,	Malta	B 00002674	B 00002674	Create		
Short	cuts	□ 🕍 MCO-0022702	Dec 31,	Malta	00002664		Create		
Collec	tions	☐ MCO-0022699	Dec 31,	Malta	■ 00002545 ■ 00002575 ■ 00002585		Create		
Subso	riptions	□ 🕍 MCO-0022698	Dec 31,	Malta	■ 00002703 ■ 00002565		Create		
					B 00001903				

Step 2 Select "Affected Part Revision" command

The table shows all new parts created; the columns "Item Master" and "Routing BOM" can be used to identify which parts have to be complete and export to CMS.

	Drop Images here MCO-0022716 ≦ MCO MCO-0022716	State : Create Review Owner : Samantha Modified : May 29, 2016 6:29:11	tte : Create → Review mer : Samantha vdfied : May 29, 2016 6:29:11 PM ·									
	History	🗌 Name 🔺	Туре	State	Description	Classification	DesignPurchase	Item Master	Item Master	Routing	Routing BON	B
1	Affected Part Revisions	00005004	Man	Preli			Design		ITEM MASTER) (BOM & ROUTE	
	Route	00005034	Man	Preli			Design		ITEM MASTER		BOM & ROUTE	
	MCO Impact Report	00005064	Man	Preli			Design		ITEM MASTER		BOM & ROUTE	
	Related MCOs	00005094	Man	Preli			Design		ITEM MASTER		BOM & ROUTE	
	Related Change	00005123	Man	Preli			Design		ITEM MASTER		BOM & ROUTE	
	Related Change Notices	00005153	Man	Preli			Design		ITEM MASTER		BOM & ROUTE	
•	Involved MBOMs								\square		\square	

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Status	Released			35

The processes to define information and the functions used to export to CMS information are identical to "Complete and export Item Master", "Complete and export Routing information" and "Complete and export MBOM information".

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Status	Released			36
Maintain "Parts to Complete" table

The table "Parts to Complete" shows all parts that have been published; the table contains a column to show if a specific "Export to CMS" function has been completed.

 Collaboration and Approvals 	Parts to Publish Parts	to Complete	MCOs	Manufacturing Par								
Home	Complete Select	Complete Select										
Home RFQ User	🗌 Name 🔺	Classification	Rev	Description	DesignPurchase	End Item	Item Master	Item Master	Routing	Routing BON		
Home Engineering User	00000010	Product	02	RH Window Lifter	Design	Yes		ITEM MASTER				
Home Change	00000040		00	Socket	Design	No	Complete	ITEM MASTER	Complete	BOM & ROUTE		
Home Manufacturing	00000080		02	PCB	Design	No	Complete	ITEM MASTER		BOM & ROUTE		
User	00000136	Product	00	E-call Switch module LH	Design	Yes	Complete	ITEM MASTER		BOM & ROUTE		
Issues Summary	00000156	PCB	00	РСВ	Design	Yes		ITEM MASTER		BOM & ROUTE		
Shortcuts	00000166		00	Button LH	Design	Yes	1	ITEM MASTER	$\sim c$	BOM & ROUTE		
Collections	□ 🐂 00000255		00	PCB FR4 1.6mm	Design	Yes		ITEM MASTER		BOM & ROUTE		
Utilities	🗆 👆 00000265		00	BAS21	Design	Yes		ITEM MASTER		BOM & ROUTE		
Subscriptions	🗆 🦕 00000275		00	Color to CIE 1931	Design	Yes		ITEM MASTER		BOM & ROUTE		
▼ Team	🗆 🐚 00000285		00	Resistors, 1k, 5%	Design	Yes		ITEM MASTER		BOM & ROUTE		

When the Global and Plant information of a part is exported to CMS, the column "Item Master", related to the specific part, is changed to "Complete".

Item Master	Item Master	Routi
Complete	ITEM MASTER	Comp
Complete	17714 144 67770	Comp

When the Routing information of a part is exported to CMS, the column "Routing", related to the specific part, is changed to "Complete".

aster	Routing	Routing BON	BO
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor

Version	5	Date:	28-Nov-2017	
Status	Released			37

When the MBOM information of a part is exported to CMS, the column "MBOM", related to the specific part, is changed to "Complete".



Only the MBOM Engineer can decide when all the information of a part is exported to CMS because an automatic trigger is not provided (for example, if a part is purchased, the BOM is not existing so the "Export Bom" function is not executed; in this case, the MBOM Engineer has to export only the Item Master information).

In order to "clean up" the table, removing the parts exported, the user can use the Complete Selected function: user has to select the parts completed and select the command Complete Selected; the parts selected are removed from the table content.

	Parts to Publish Parts	to Complete MCOs	Manı	ufacturing Par 7 💽 🗐 🎇 -	
	□ Name ▲	Classification	Rev	Description	DesignPurc
d	☑ → 00001795		00	Packed 1.329004	Design
1	☑ → 00001804		00	Packed 1.207038	Design
	☑ → 00001814		00	Packed 1.207039	Design
	00001824		00	Packed 1.551062	Design

Version	5	Date:	28-Nov-2017	
Status	Released		3	8

MBOM04 Manufacturing Parts to Complete

Purpose	In order to push information to CMS or to define MBOM, MBOM Status De							
	Engineer has to be enter or update CMS information: Global and Plant							
	information, Routing details and MBOM							
Stakeholders	MBOM Engineer							
Beginning	MBOM is created, new Manufacturing Parts are created							
Interactions	User has to enter information							
End	Global and Plant information, Routing details and MBOM are defined and exported to CMS							
Constraints	None							

Complete information using table Manufacturing Parts to Complete

The function is similar to one described in chapter "Parts to Complete"; the difference is that the table contains only Manufacturing Parts (Raw Material and Intermediate Parts), not yet completed and exported to CMS:

Manufacturing Parts are created by MBOM Engineer users in order to complete the Bill Of Material approved by Engineer users.

Like for EC Parts, MCO contains all new related to a Bill Of Material, both EC Part and Manufacturing Parts. About MCO management, see chapter "Dashboard MCOs".

Step 1 Select command Manufacturing Parts to Complete

From menu Home Manufacturing User, select command Manufacturing Parts to Complete. The table shows all manufacturing parts that have been created, that have to be pushed to CMS. It also provides information with completeness status.

 Collaboration and Approvals 	Parts to Publish	Parts to Comple	ete	MCOs Manufacturing	Par						
Home	Complete Select	-+ _+` ⊏¢		i' 🔜 🛄 V 😸 🛛			1		,	-	
Home RFQ User	🗌 Name 🔺	Classification	Rev	Description	DesignPurchase	End Item	Item Master	Item Master	Routing	Routing BOM	BOM
Home Project Lead	00004521		00	AML Matt Black Paint	Design	No	Complete	ITEM MASTER		BOM & ROUTE	
Home Engineering	00005193		00	Pantone 7541 white	Design	No	Complete	ITEM MASTER	,	BOM & ROUTE	
Home Change	090136		00	ULTRAMID B3WG10 RO	Purchase	No		ITEM MASTER		BOM & ROUTE	
Management User			00	ULTRAFORM N2320 - NA	Purchase	No		ITEN		BC	
Home Manufacturing	□ B 3		00	DELRIN 511P NC010 - N	Purchase	No				вс	
	090237		00	HOSTAFORM C9021 NA	Purchase	No		ITEM MASTER		BOM & ROUTE	
	090259		00	ABS MAGNUM 3416 5C	Purchase	No		ITEM MASTER		BOM & ROUTE	

In order to complete the information, the user can choose the following options:

- to enter the details related to Global and Plant information users can select the dedicate icon

(in previous picture, icon 1)

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 to enter the routing details or manage the MBOM, users can select the dedicate icon previous picture, icon 2)

Icon 1 "Item Master": form with plant information

3 10.1.68.28:8111/e	novia/comm	non/emx	NavigatorDialog.js	;p		*				
Manufacturing Part 000007070 rev 00: Properties										
/ 🛃 😪 🕉	§-									
Part Number	00000707	0								
Part Classification	-									
Global Info										
Description 1	LH BUTTO	N								
Description 2										
Description 3										
Units of Measure and	d Weight									
Unit of Measure	PCS - PIE	CES	Net Weight	0.0	Net Weight UOM					
Plant Info										
Plant Name		GL Co	ode	GL Expense Code						
😅 Malta				·		ф.				

Icon 2 "Routing and BOM": portal with MBOM and Routing information (the system opens the portal selecting the EBOM tab: user has to select tab "MBOM Plant Specific" and tab "Routing")

	i		Modi	ified : 2/19/	2016 10:05:51 AM
	000007070 00	^	MBOM Plant Specif.	Routing	Where Used
	Bill Of Materials		* • • • •	ö	📰 - 🔜 🛼
	Change Mgt PowerView			Des	cription
	Access				
∢	Equivalents				

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Icon 3 Part Number: portal with all functions available to user (the system opens the part details form: user has to select "CMS Information" tab for Item Master information and command "Bill of Materials" for MBOM and Routing information)

				Modified : 2/19/201	6 10:05:51 AM	i						
	000007070 00	^	Properties	Material Parts CM	S Information	Lifecycle	>>					
•	Bill Of Materials		/ 🔊 🕨 /	🎭 💷 😐 🗔	8 ×·							
	Change Mgt PowerView		Name	000007070	Revision	00	State	Preliminary	^			
	Access		Originator	Samantha Grima	Originated	Feb 18, 2016	Modified	Feb 19, 2016				
	Equivalents		Part Classification	-	Quality Release							
	Specs & Documents		Description	LH BUTTON								
	Collaboration		Design		Long Lead							
ľ	Multiple Ownership Access					Purchase	Design	Time Component	FALSE			
	Manufacturing Details					End Item	No	CMS Part Status	Malta:			
	Vendor Part Numbers		Technical									
	CMS Information		Net Weight	0.0	Gross Weight	0.0	Net Weight					
	IHS Information		Carry Over Parts		Remarks		000					
	Tool Parts		Similar Parts		Komarko							
	Referenced By	~	onniar i arto						~			

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Status	Released			41

Complete and export Item Master information

Step 1 Enter CMS Global information

MBOM Engineer has to select the tab "CMS Information" related to part number to complete, selecting the icon "Item Master" (icon 1) or the part number (icon 3)

The system opens a window with the Global information (the information common to all plants) that are mandatory for CMS and that has to be entered by Engineer users. If necessary, the MBOM Engineer can update or complete the information selecting the Edit icon (for example, to define Description 2 and Description 3)

	•					
000007070 00	Properties	Material Parts	CMS Information	Lifecycle »		
Bill Of Materials		🚱 🔆 -				
Change Mgt PowerView	Part Number	000007070				
Access	Part Classification	-				
Equivalents	Global Info					
	Description 1	LH BUTTON				
Specs & Documents	Description 2					
Collaboration	Description 3					
Multiple Ownership	Units of Measure	and Weight				
Manufasturia a Dataila	Unit of Measure	PCS - PIECE	ES Net Weight	0.0	Net Weight UOM	
Manufacturing Details	Plant Info					
Vendor Part Numbers						
CMS Information	Plant Name		GL Code	GL Expense Code		
IHS Information	😅 Malta					ę
Tool Parts						
Referenced By						
Classification	~					

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Status	Released			42

User has to enter descriptions, Unit of Measures and Net Weight; select command Done to save	values
--	--------

		-	1	1		1			
	000007070 00	^	Properties	Material Parts	CMS Information	Lifecycle »			
	Bill Of Materials			A-					
	Change Mgt PowerView			Fleids in red Italics are red	quired			^	
			Part Number	000007070					
	Access		Part				V		
	Equivalents		Classification	-					
	Specs & Documents		Global Info						
	Collaboration		Description 1	LH BUTTON					
4	Multiple Ownership Access D		Description 2						
			Description 3						
	Manufacturing Details		Units of Measure and Weight						
	Vendor Part Numbers		Unit of Measure	PCS - PIECES	✓ Net Wei	ght	12.0 Net Weight G	~	
	CMS Information								
	IHS Information		Plant Info						
	Tool Parts		Plant Name		GL Code	GL Expense Code			
	Referenced By		🛋 Malta					~	
	Classification	~					Done	ancel	

Step 2 Enter CMS Plant information

From Plant table contained in form CMS Information, user has to select link to plant

				Modified : 2	2/19/201	6 10:05:51 AM	1.	·····i			
	000007070 00	^	Properties I	Material Parts	CN	IS Information	Lif	fecycle	>>		
	Bill Of Materials			🚱 🔆 -							
	Change Mgt		Part Number	00000707	0						
	400000		Part Classification	-							
	Access		Global Info								
	Equivalents	ivalents	Description 1	LH BUTTO	N						
	Specs & Documents		Description 2								
	Collaboration		Description 3								
4	Multiple Ownership		Units of Measure a	and Weight							
	AUCE35		Unit of Measure	PCS - PIEC	CES	Net Weight		12.0		Net Weight UOM	G
	Manufacturing Details		Plant Info								
	Vendor Part Numbers										
	CMS Information		Plant Name		GL C	ode	0	GL Expen	se Code		
	IHS Information		😅 Malta								
	Tool Parts										\smile
	Referenced By										
	Classification	¥									

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System opens a new window with CMS Plant information; user has to select Edit icon

Plant Info									
🖉 🗟 🔆 -									
Plant Name		Malta							
Global Info									
Description 1		LH BUTTON							
Unit of Measure		PCS - PIECES							
Net Weight UOM		G							
Plant Info									
Production Make Buy Co	de	Make							
GL Code									
GL Code		-			GL Expens	se Code	-		
Major Group Code		-			Minor Gro	up Code			
Major Sales Code		-			Minor Sales Code				
Plant Part - Manufacturi	ing								
Schedule Type		MRP			Production	n Multiplier	0.0		
Optimum Run Purchase	Size	0.0			Minimum Run Purchase Size		0.0		
Plant Part - Sales									
Standard Pack Size		0.0			Standard I	Pack Size UOM			
Plant Part - Label									
	Print		Copies	Format		Master Print	Master Copies	Master Format	
P/O Receiving	No		0	-		No	0	-	
Production Reporting	No		0	-					
Completed Production	No		0	-		No	0	-	
Shipping			0	-		No	0	-	

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Status	Released			44

Plant Info								
🚱 🔆 -								
	Fields in red italics are required				^			
Plant Name	Malta							
Global Info								
Description 1	LH BUTTON							
Unit of Measure	PCS - PIECES							
Net Weight UOM	G							
Plant Info								
Production Make Buy Code	Make 🗸							
GL Code								
GL Code	-	¥	GL Expense Code	-				
Major Group Code	-	~	Minor Group Code	v				
Major Sales Code	-	Y	Minor Sales Code	¥				
Plant Part - Manufac	turing							
Schedule Type	MRP ¥		Production Multiplier	0.0				
Optimum Run Purchase Size	0.0		Minimum Run Purchase Size	0.0				
Plant Part - Sales								
Standard Pack Size	0.0		Standard Pack Size UOM	~				
Plant Part - Label								
P/O Receiving No V	opies Format		Master Master C Print No V 0	Copies	Master Format			
					Done Cancel			

User has to enter values and select command Done to save

Step 3 Export information to CMS

In order to export to CMS the Global and Plant information, select command Export to CMS

		1	mouniou . 2/10	2010 10.00.01 Am	
000007070 00	^	Properties	Material Parts	CMS Information	Lifecyc
Bill Of Materials			Q 🔆 -		
Change Mgt PowerView		Part Number	000007070		
Access		Part Classification	-		
Feuivelante		Global Info			
Equivalents		Description 1	LH BUTTON		
Specs & Documents		Description 2			
Collaboration		Description 3			
Multiple Ownership		Units of Measure a	and Weight		

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Status	Released			45

User has to confirm the CMS information export



If some mandatory information is missing or if there is a validation error during export, an alert is prompted

e Di	The following parts are not exported: 000007070 The following attributes are mandatory: GL Code (Malta) GL Expense Code (Malta) Prevent this page from creating additional dialogs
n n n	ОК

If part is exported correctly, a notification message is prompted

a The following parts are 000007070	a) exported:
	ОК

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Complete and export Routing information

MBOM Engineer has to select the tab "Routing" related to part number to complete, selecting the icon "Routing and BOM" (icon 2) or the part number (icon 3)

Step 1 User has to define Routing operation

User has to select link to a Manufacturing Part Routing (see previous pages); select icon Add Existing in order to define operations

Drop 00000707 Images Manufact	0 uring Part (00)	LH BUTTON	State : Owner : S Modified : :	Preliminary amantha <u>2/1</u> 9/2016 10:	→ Review	Drop files here	
000007070 00	^	OM Plant Speci	f Rout	ting Wh	ere Used	Markup	s
Bill Of Materials		• 🗟 🥒		8 · 📰 ·	I	$\overline{2}$	
Change Mgt PowerView		ne		Description		F/N 🔺	
Access							
Equivalents							
Specs & Documents							
Collaboration							

User has to define one or more operation and select command Submit; the command "Add Existing" can be executed several times, in order to complete the operation list

Search Refinement	Search Results				Results: 26, 1 sele	cted
Search Q2	E 🕨 - 📑 -	. 🕈 📲	# %	-		
Case Sensitive	📄 Display Name 🔺	Revision 🕋	Туре	Policy	Description	State
Limit to 100 results		-	BO	PDS	FINAL PACKING AND WA	E ^
Type		-	BO	PDS	Plaiting	Е
Name	PNT	-	BO	PDS	Painting	Е
Name	ROL	-	BO	PDS	Rolling	Е
Revision	SRT	-	BO	PDS	Sorting	Е
C Highest By	STM	-	BO	PDS	Steaming	E
Description	STP	-	BO	PDS	Stamping	Е
Description	🗆 👪 тмв	-	BO	PDS	TUMBLING	Е
Policy	Ist	-	BO	PDS	Testing	Ev
	× >	<			Sub	mit

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An operation can be removed by selecting the operation and using the Remove Selected command

	000007070 00	^	MBOM Plant S	pecif Ro	outing Wh	ere Used	Markups	;
	Bill Of Materials		* 💽 🚭	1.			75	
	Change Mgt PowerView		Name		Description		F/N	
	Access		МВ		TUMBLING		10	ą
	Equivalents				Testing		20	ą
	Specs & Documents							
	Collaboration							
•	Multiple Ownership Access							
	Manufacturing Details							

User has to confirm the operation

You have chosen to remove the selected items not delete it from the database. To continue wit removal, click Cancel.	s from the list. Removing th the removal, click OK.	g an item does To cancel the
	ОК	Cancel

Step 2 Define Operation information

In order to define routing details, user has to select Edit icon

here	Modifie	ed : 2/19/2016 10:05:51 AM	
000007070 00	A MBOM Plant Specif F	outing Where Used	Markups
Bill Of Materials	🔹 🕑 🕵 🥒 🛄 -	📑 - 📰 - 🔜 📑 🤇	- 🛠 📰 🏹
Change Mgt PowerView		Description	F/N Departmen
Access	TST	Testing	20 🗔
Equivalents			
Specs & Documents			

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: Properties Q %-1 Operation TST Testing ٨ F/N 20 Process ID Department Resource Set-up Standard 0 Crew Size (Setup) 1 Schedule Run # of Machines 0 1 Standard (setup) Cost Run Standard 0.0 # of Men/Machine 1 # of Machines 1 Lag Time (Hrs) 0.0 Expected Receipt Crt by Transfer Batch Standard Type 2 А Multiple Parts (Part 0 Y Reporting Point Multiplier) Schedule Priority Operation Efficiency 100 Group Concurrent Burden Driver Rate 0 0.0 Resources Factor Create Repetitive Jobs By Transfer Batch Qty Standard Cost Roll Up By Transfer 2-No Batch AOTBTH Cycle 1.0 Time Sec/Part ¥

System opens a new window with CMS Routing details

The page contains also a portion related to Outside Service Information

AOTBTH Cycle Time Sec/Part	1.0	
Outside Service Info	rmation	
Vendor Number		
Freight Out Cost/Unit	0.0	
Freight In Cost/Unit	0.0	
O/S Unit Cost	0.0	
Quantity Based On	1	
Total Cost (calculated)	0.0	
Estimated Time (days)	0.0	,

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: Properties		
🗾 🗟 🔆 ·		
Operation	TST	Tes
F/N	20	
Process ID		
Department		
Resource		
Set-up Standard	0	Cre
Schedule Run Standard	0	# of (set
Cost Run Standard	0.0	# of
Lag Time (Hrs)	0.0	

User has to complete information and select command Done

Q &.						
· 57 🏎	Flairis in rari Italics are regulari					
Operation	TST	Testing				
F/N	99					
Process ID]				
Department	DFTAS ASSEMBLY		~			
Resource	000 🗸					
Set-up Standard	9999	Crew Size (Setup)	1			
Schedule Run Standard	9999	# of Machines (setup)	1			
Cost Run Standard	0.0	# of Men/Machine	1	# of Machines	1	
Lag Time (Hrs)	0.0					
Standard Type	AV	Expected Receipt Crt by Transfer Batch	2 🗸			
Multiple Parts (Part Multiplier)	0	Reporting Point	YV			
Operation Efficiency	100	Schedule Priority Group				
Concurrent	· -	Burden Driver	· • •		Done	ancel

Version	5	Date:	28-Nov-2017	
Status	Released			50

Step 3 Export information to CMS

In order to export to CMS the Routing details, select command Export to CMS

t	Modified	1:2/19/2016 12:49:44 PI	M		
000007070 00	MBOM Plant S	specif Routing	Whe	re Used	Markups
Bill Of Materials	Actions - Re	ports 🗸 🖉 🛃	Create M	co 🙀	·) * ₀ - ·
Change Mgt PowerView	мвом	$ \circ$	Basics		
Access	Name	4	Туре	Descriptio	n
Equivalents	□ □ ➡ 00000	07070	Man	LH BUTTO	N
Specs & Documents					
Collaboration					
Multiple Ownership					

User has to confirm the CMS information export

8	Confirm expor	t to CMS?	2
	ОК	Cancel	

A check is performed in order to inspect the routing with Find Number 99; if information is missing or if there is a validation error during export, an alert is prompted

The following parts are not exported: 000007070: No Sequence 99 found for Routing! Prevent this page from creating additional dialogs
ОК

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Status	Released			51

If part is exported correctly, a notification message is prompted



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Status	Released			52

Complete and export MBOM information

MBOM Engineer has to select the tab "MBOM Plant Specific" related to part number to complete, selecting the icon "Routing and BOM" (icon 2) or the part number (icon 3)

In order to complete MBOM details, see following section "MBOM Management".

In order to release MBOM, see following section "MBOM Approval".

Step 1 Export information to CMS

In order to export to CMS the MBOM details, select command Export to CMS contained in MBOM Plant Specific tab



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User has to confirm the CMS information export



If part is exported correctly, a notification message is prompted

The following parts are exported: 000007070	
ОК	

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Status	Released			54

Maintain "Parts to Complete" table

The table "Manufacturing Parts to Complete" shows all Manufacturing Parts that have been published; the table contains a column to show if a specific "Export to CMS" function has been completed.

V.S											
 Collaboration and Approvals 	Parts to Publish	Parts to Comple	te	MCOs Manufacturing	Par						
Home		+ + =0	•	i' 🔜 🔍 V 😸 🛙	≞ <i>∕</i> ∿'		1		1		
Home RFQ User	🗌 Name 🔺	Classification	Rev	Description	DesignPurchase	End Item	Item Master	Item Master	Routing	Routing BOM	BOM
Home Project Lead	00004521		00	AML Matt Black Paint	Design	No	Complete	ITEM MASTER		BOM & ROUTE	
Home Engineering	00005193		00	Pantone 7541 white	Design	No	Complete	ITEM MASTER		BOM & ROUTE	
Home Change	090136		00	ULTRAMID B3WG10 RO	Purchase	No		ITEM MASTER		BOM & ROUTE	
Management User			00	ULTRAFORM N2320 - NA	Purchase	No		ITEN		BC	
Home Manufacturing	□ 3		00	DELRIN 511P NC010 - N	Purchase	No				вс	
Issues Summary	090237		00	HOSTAFORM C9021 NA	Purchase	No		ITEM MASTER		BOM & ROUTE	
	090259		00	ABS MAGNUM 3416 5C	Purchase	No		ITEM MASTER		BOM & ROUTE	

When the Global and Plant information of a part is exported to CMS, the column "Item Master", related to the specific part, is changed to "Complete".

Item Master	Item Master	Routi
Complete	ITEM MASTER	Comp
Complete	TTAL MAACTER	Comp

When the Routing information of a part is exported to CMS, the column "Routing", related to the specific part, is changed to "Complete".

aster	Routing	Routing BON	BO
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor
ASTER	Complete	BOM & ROUTE	Cor

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Status	Released		Ľ	55

When the MBOM information of a part is exported to CMS, the column "MBOM", related to the specific part, is changed to "Complete".



Only the MBOM Engineer can decide when all the information of a part is exported to CMS because an automatic trigger is not provided (for example, if a part is purchased, the BOM is not existing so the "Export Bom" function is not executed; in this case, the MBOM Engineer has to export only the Item Master information).

In order to "clean up" the table, removing the parts exported, the user can use the Complete Selected function: user has to select the parts completed and select the command Complete Selected; the parts selected are removed from the table content.

and ^	Parts to Publish Parts to Complete MCOs Manufacturing Par Complete Select Image: Complete Select Image: Complete Select Image: Complete Select									
er	□ Name ▲	Classification	Rev	Description	DesignPurchase					
Lead	☑ ➡ 00004521		00	AML Matt Black Paint	Design					
ring	☑ ➡ 00005193		00	Pantone 7541 white	Design					
	090136		00	ULTRAMID B3WG10 RO2	Purchase					

Version	5	Date:	28-Nov-2017	
Status	Released			56

MBOM05 MCO overview

Purpose	MBOM exists and a change has to be performed only in manufacturing process or a change has been created from EBOM approval.	Status	Define
Stakeholders	MBOM Engineer		
Beginning	MBOM exists and a change has to be performed only in manufacturing peen created from EBOM approval.	process or	a change has
Interactions	MBOM Engineer creates a new MCO in order to define MBOM changes date; if MBOM is created or update from EBOM approval, MBOM Enginerelated to change	and define neer has t	e start validity o select MCO
End	MCO is selected and can be used to update and and release MBOM		
Constraints	None		

A new MCO is created automatically in any of the following cases:

- EBOM approval: Design Engineer users can approve EBOMs; MBOM Engineer users can publish EBOMs. PLM automatically creates new MCOs to release the MBOMs created from EBOMs (see chapter "Parts to Publish").
- EBOM changes: Design Engineer users can change EBOMs already released using the Change Request and Change Order process; the changes are automatically copied into corresponding MBOMs. PLM automatically creates new MCOs to release these changes (see chapter "Parts to Publish").
- MBOM copied from one plant to another: MBOM Engineer users can copy an existing MBOM to another plant; in this case, all parts contained in the MBOM are published to the new plant. PLM automatically creates a new MCO to publish the parts in the new plant (see chapter "Copy MBOM for other Plant").

When a MBOM is created from EBOM, a MCO is created for each plant defined as Manufacturing Responsibility.

EBOM	EBOM Commo	on M	BOM Plant Specif	Where Use	ed Mar	kups					
Actions 🗸	Reports 🗸 🥒	M) 🍋 - 🕂 - 🔁	.	🎝 - 🗍	- D	•			፤ ≫ે-	
MBOM		Basics		BOM A	Attributes				Basics	BOM Attributes	
Name		Туре	Description	F/N	Qty	Unit Qty	BFLUS	Stock Location	Rev	Add	Ren
- 🛛 🌼 🛛	00000010	EC							2		
+ 🗆 🌵	000000014	EC	Housing	10	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
+ 🗆 🌵	000000015	EC	Indexing	20	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
± 🗆 🌵	000000016	EC	Toggle	30	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
+ 🗆 🌼	000000017	EC	Socket	40	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
+ 🗆 🌵	000000018	EC	Slider	50	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
+ 🗆 🌵	16401	EC	PCB	60	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
± 🗆 🌼	30608	EC	Roller	70	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
÷ 🗆 🌞	40768	EC	Plunger Spring	80	1.0	1.00	TRUE	DFTS01	1	MCO-0000002	
≺ Malta(GMT+0	> 1:00) Amsterdam	<	ern Rome Stockholm Vie	nna							9.0
mana(Om1+0	noophinatordam,	Denni, De	in, nome, eteenoin, ne	ini d							30

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MBOM Engineer users can changes a MBOM that do not violate design engineering content (for example, adding the Raw Material or defining new Intermediate parts); in this case, user can select an existing MCO in state Create created previously or can create a new MCO (see chapter "MCO Creation").

Using MCO, MBOM Engineer can select a single Bill Of Material in order to complete the BOM definition and export the information to CMS (see chapter "Dashboard MCOs").

The following are the possible types of manufacturing changes that can be initiated through MCOs:

- Adding, removing, or replacing manufacturing parts (Raw Material and Intermediate Parts)
- Update plant specific attributes values

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MCO Details

MCO-0017317	/ 🖣 🕘 🗞	•			
History	Туре	MCO			
Lifecycle	Name	MCO-0017317			
Affected Part Revisions	Description				
Dauta	Policy	MCO Standard			
Route	Start Date	Apr 10, 2016 11:32:39 PM CEST			
MCO Impact Report	Target Start Date				
Related MCOs	Originator	Samantha			
Related Change	Manufacturing Responsibility	Malta			
Related Change Noticies	Manufacturing				
Involved MBOMs	Responsibility Timezone	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienn			
	Distribution List				
	Approval List				
	Responsible Manufacturing Engineer	Unassigned			
	Responsible Senior Manufacturing Engineer	Unassigned			
	Reason For Sequence Change				
	Modify all BOMs (single CN)	YES			

MCO is used to set the MBOM validity start date and to transfer the MBOM parts and information into CMS.

The MCO definition contains the following information:

- Start Date: date when the MBOM will be pushed to CMS. This information has to be define manually by MBOM Engineer; the date has to be different from default ("31th Dec 2049") and has to be after the current date.

This field is the only mandatory information.

- Responsible Manufacturing Engineer and Responsible Senior Manufacturing Engineer: users that are notified when MCO moves from state Create to state Review.
- Distribution List: users contained in Distribution List are notified when MCO is implemented.
- Approval List is an optional field and is used to define an approval process: MBOM Engineer can select the route template that contains the list of people to participate in the approval.
- Modify all BOMs (single CN): default value is "YES"
 The attribute is used only for MCO related to changes. In this case, after the MCO state reaches the state Implemented, the system will create one Change Notice related to all BOM containing the previous part revision (in CMS, the Change Notice will be created with mode "*ALL"). In order to create a Change Notice for each BOM that contains the previous part revision, the user has to update the attribute value to "NO"

About MCO approval, see chapter "MBOM Approval".

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Lifecycle

MCO lifecycle is composed by 4 states:



MCO is created in state Create, means MBOM Engineer can define MBOM information (adding or removing Manufacturing parts).

MBOM Engineer can move the state from Create to Review; if Responsible Manufacturing Engineer and Responsible Senior Manufacturing Engineer fields are defined, the users are notified.

If an Approval List is defined, the people contained in Approval List are notified to participate in the approval. When all people involve approve the task, the MCO state is moved to Released and MBOM Engineer is notified.

If an Approval List is not defined, MBOM Engineer can move the state from Review to Released.

MBOM Engineer can move the state from Released to Implemented: if a Distribution Lis is defined, the people contained are notified. If the MCO is related to a Change, the system will create the Change Notices (depends on "Modify all BOMs (single CN)" value) after the MCO is implemented.

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Menu Categories

Affected Part Revisions

The table shows the parts that are affected by MCO; these parts have to be completed in order to push information to CMS.

This table can be used to recognize which parts have to be completed; the difference with tab "Parts to Complete" is that the table shows parts related to a specific MCO.

The following example is the affected part related to a MCO created after a Change Notice; the table shows the revision change for affected parts



The following example is the affected parts related to a MCO created after a new MBOM

	Drop MCO-0022699	State : Create	8 AM						< n	< 2	Q	*
	MCO-0022699	🔳 · 🖉 🛄 - 📑 -	🎫 📃 🖉 🛒	%-								
	History	Name 🔺	Description	Classification	DesignPurchase	Item Master	Item Master	Routing	Routing BOM	BOM	Old Rev	New
ć	Affected Part Revisions	00002545	Switch Test 1	Product	Design	Complete	4					00
	Route	00002575	PCB		Purchase		4		2			00
	MCO Impact Report	00002585	BUTTON		Design		٠		2			00
	Related MCOs											
	Related Change											

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MCO Impact Report

The table shows the MBOM relationships created or updated by MCO

⅔-MCO-0017317 History MCO Name MCO-0017317 PI Part Revisions Lifecycle Affected Part Revisions Policy Make/Buy Rev Seq Prev. Seq. MCO Name Туре Route 56946-09 12 Part EC Part 2 MCO-0002724 CO Impact Repo Related MCOs MBOM Connections Related Change From Part To Part F/N Ref Des Manufacturing Usage Code Prev. Seq. MCO Seq P Related Change Noticies Involved MBOMs No Objects For

The following example is the affected part related to a MCO created after a Change Notice

The following example is the affected parts related to a MCO created after a new MBOM

MCO-0000090	->>>								
History	MCO Name	MC	0-000009	0				Plant Name	Malta
Lifecycle	Part Revisions								
Affected Part Revisions	Name	Rev	Туре		Policy	Make/	Buy Seq	Prev.Seq. MCO	Prev. Seq. Star
Route	71000000017	00	Manufac	turing Part	Manufacturing Part		1		
MCO Impact Report	0000000646	00	Manufac	turing Part	Manufacturing Part		1		
Related MCOs	000000645	00	Manufac	turing Part	Manufacturing Part		1		
Polated Change	000000017	00	Part		EC Part		1		
Related Griange	000000647	00	Manufac	turing Part	Manufacturing Part		1		
Related Change Noticies	72000000017	00	Manufac	turing Part	Manufacturing Part		1		
Involved MBOMs									
	MBOM Connection	S							
	From Part	To Part	F/N	Ref Des	Manufacturing Usage Code	Seq	Prev.Seq. MCO	Prev. Seq. StartDate	Next. Seq. MCO
	000000017	000000645	;		•	1			

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Related MCO

The table shows the MCOs that have to be implemented before the current MCO. If the MBOM is composed by parts that have a MBOM not yet implemented, before you have to implemente the previous MCOs related to MBOMs

The following example is the affected part related to a MCO created after a Change Notice

Drop Imagea hars	State : Implemented Owner : Corporate Modified : Apr 8, 2016 11:37:30 PM		
MCO-0017317	🔜 - 📑 - 📰 - 🔜	☑ ▽ 罵 ※・	
History	Name 🔺	Description	State
Lifecycle	MCO-0002722	/ Import	Implemented
Affected Part Revisions	MCO-0002723	Import	Implemented
NCO Impact Papart	MCO-0002724	Import	Implemented
Related MCOs	MCO-0002725	Import	Implemented
Related Change	MCO-0016946	Import	Implemented
Related Change Noticies			

Related Change Notices

The table shows the Change Notices created after the implementation of the MCO. If the MBOM is composed by parts that have a MBOM not yet implemented, before you have to implement the previous MCOs related to MBOMs

The following example is the affected part related to a MCO created after a Change Notice



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Involved MBOMs

In case of Change Notice, the table shows the MBOMs affected by change, with also the information related to Action performed, which parts are added and which parts are removed.

The following example is the affected part related to a MCO created after a Change Notice

MCO-0017317	□Ģ • 🖓 🛠 •				
History	From	Pau	Action	To	Pau
Lifecycle	From	rvev.	Action	10	rvev.
Affected Part Revisions	750143-44	00	ADD	56946-09	12
Arreoted Fait Nevisions	750143-44	00	REMOVE	56946-09	00
Route	750140	00	ADD	56946-09	12
MCO Impact Report	750140	00	REMOVE	56946-09	00
	750144	00	ADD	56946-09	12
Related MCOs	750144	00	REMOVE	56946-09	00
Related Change	750139-43	00	ADD	56946-09	12
Related Channe Noticies	750139-43	00	REMOVE	56946-09	00
readed onlinge Houses	750220	00	ADD	56946-09	12
Involved MBOMs	750220	00	REMOVE	56946-09	00
	750139-42	00	ADD	56946-09	12
	750139-42	00	REMOVE	56946-09	00
	750141	00	ADD	56946-09	12
	750141	00	REMOVE	56946-09	00
	750158-59	00	ADD	56946-09	12
	From	Rev.	Action	То	Rev.
	750158-59	00	REMOVE	56946-09	00
	750148-50	00	ADD	56946-09	12
	750148-50	00	REMOVE	56946-09	00
	750148-51	00	ADD	56946-09	12
	750148-51	00	REMOVE	56946-09	00

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MCO selection for MBOM management

MCO already existing

MBOM Engineer can use a MCO already existing, if it's not implemented. In order to select the right MCO, MBOM Engineer can use the MCO Dashboard, search for the MCO related to MBOM to be managed.

Using MCO Dashboard

Select command MCOs, search for part to update in column Affected Items, select the the MCO name

Collaboration and MCOs Parts to Publish Parts to Complete Manufacturing Par... Approvals name rev revision: Structure View Filter: Active Home Change Management User 🖫 • 📰 • 🔜 🖉 🏹 🚱 🗏 🔆 -Home Engineering Start Date Manufacturing Responsibility Name Affected Items Involved MB User Home Manufacturing 8 000000414 🗌 🕍 MCO-0000081 Feb 15, 20... Malta User 000000416 Home RFQ User MCO-000086 Feb 15, 20... **6000000588** Malta 🗌 🕍 MCO-0000087 Home Mar 17, 20... **6000000588** Malta Issues Summary 00000001 7100000001 Shortcuts. **B** 000000645 MCO-0000090 Feb 15, 20... Malta 7200000001 6 Collections 000000646 0000000647 Subscriptions Ø 0000000546 🗌 🗃 MCO-0000095 Feb 15, 20... Malta Ø 000000547

The following example is a MCO related to a new MBOM

The following example a MCO related to a Change Notice

 Collaboration and Approvals 	Parts to Publish	Parts to Complete MCO	Manufacturing Par		
Home Change Management User	name rev revision: Struc	cture View Filter: Implemente	a ≣ % ∙		
Home Manufacturing User	Name v	Start Date	Manufacturing Responsibility	Affected Items	Involved MBOMs
Home RFQ User Home	-				750220 750139-42 750141
Issues Summary Shortcuts					職 750158-59 職 750148-50 職 750148-51 職 750140-58
Collections Subscriptions				_	職 750159 職 750142-59 職 750157 職 750148-57 職 750143-46 職 750144-58 職 750139
	MCO-0017317	Apr 10, 2016 11:32:	Malta	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	 万0141-43 750143-45 750143-58 750151 750151 750145-58 750148-49 750150

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After selecting the MCO, the user can add to Clipboard the MCO in order to be used in MBOM management (see chapter "Add to Clipboard")

Using Manufacturing Details

Starting from part number related to MBOM to update, select command Manufacturing Details, select the the MCO name; if part number is used in more than one plant, select the MCO name related to plant to manage.



After selecting the MCO, the user can add to Clipboard the MCO in order to be used in MBOM management (see chapter "Add to Clipboard")

Using table MBOM Plant Specific.

Starting from part number related to MBOM to update, select command Bill Of Material, view MBOM Plant Specific.

Search for Status column: if value is Current or History, means the MCO is already implemented, so it cannot be used to change the MBOM. In this case, the user has to create a new MCO

EBOM EBOM Commo	n MBC	M Plant	Specif Rou	ting	Where Used	Markups	
Actions - Reports -	Crea	ate MCO	🦻 📮 🛃	₽ .		· 📰 • 🔜 ໄ] 💎 🚱
MBOM				Basic	s FOM Accibutes	5	
Name	Unit Qty	BFLUS	Stock Location	Rev	Status	Add	Remove
56946-09			,	12			
+	PCS	Y	DFTS01	00	Current	MCO-0002134	
	PCS	Ν	DFTS01	00	Current	MCO-0002134	
					\bigcirc		

If Status is Pending, means the MCO is not implemented, so it can be used to change the MBOM if it is in state Create.

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EBOM EBOM Common	MBC	OM Plant S	pecif	Routing W	here Us	sed Marku	ips	
Actions - Reports -	C C	reate MCO	5		. -	• - • -	- 📃 🖉 🏹	' 🔮 🧮 🔆 ·
MBOM					Basics	BOM Attributes		
Name	ghPart	Unit Qty	BFLUSH	Stock Location	Rev	Status	Add	Remove
000000443					0			
🛨 🗔 👪 090223		1.00	Ν	DFTS01	φ	Pending	MCO-0016451	
		1.00	Y	DFTS01	00	Pending	MCO-0016451	

After selecting the MCO, the user can add to Clipboard the MCO in order to be used in MBOM management (see chapter "Add to Clipboard")

MCO creation

When MBOM Engineering has to change a MBOM already implemented, if the change is related to an Engineering parts a Change Request process has been implemented. Instead, if change is related to manufacturing parts (Intermediate Parts or Material Parts), MBOM Engineering has to create a new MCO.

Step 1 Select command Create MCO from toolbar in view MBOM Plant Specific

	iu c		Modified : 2/16/	2016 12	2:08:23	PM PIA	int specific		
0000000443 00A	^	EBOM	EBOM Com	mon	ME	BO <u>M Pla</u> r	n <u>t S</u> pecif	Routing	Where
Bill Of Materials		Actions -	Reports -	P		Create M		* -	+ - =
Access		MBOM				Basics			BOM A
Equivalents		Name				Туре	Descriptio	n	F/N
Change Management			0000000443			EC	Button		
Specs & Documents					-	LU	Dutton		
Related Parts					-				
Collaboration					-				
Multiple Ownership									

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Step 2 User has to define Plant related to MBOM change, the effectivity start date and the route used to approve MBOM change.

Create MCO				
🚱 🔆 -				
	Fields in red Italics are required			
Туре	MCO			
Description	Update <u>MBOM</u> Button			.::
Policy	MCO Standard			
Start Date	Feb 19, 2016			
Target Start Date				
Manufacturing Responsibility	Malta	<u>Clear</u>		
Distribution List		<u>Clear</u>		
Approval List		<u>Clear</u>		
Responsible Manufacturing Engineer	Samantha Grima	<u>Clear</u>		
Responsible Senior Manufacturing Engineer	Samantha Grima	<u>Clear</u>		
			Done	Cancel

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Add to Clipboard

After MCO creation or selection, the MCO number has to be used in following processes in order to update the MBOM; to aid the user it is recommended to store the MCO number inside the Clipboard for easy retrieval in following steps.

	Drop Images here MCO	Update MBOM Bu	tton State : Create > Review Drop tiles here Modified : 2/18/2016 12:22:57 PM	* *
	MCO-0016451	N 🖣 🔳	*	
	History	Туре	MCO	^
	Lifecycle	Name	MCO-0016451	
	Affected Part Revisions	Description	Update MBOM Button	
	Route	Policy	MCO Standard	
	NOO James of Decord	Start Date	Feb 19, 2016 12:22:56 PM CET	
ľ	MCO Impact Report	Target Start		
	Related MCOs	Date		
	Related Change	Originator	Samantha	
	Envolved MBOMs	Manufacturing Responsibility	Malta	
		Manufacturing		> ~

Select "Add to Clipboard" command contained in MCO toolbar

The system notices the MCO is added to Clipboard



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Parts to Publish Parts to C	Complete MC	Os	Manufacturing Par			Shortcuts (?)
🥒 耳 🛄 - 📑 -	- 🔍 🖉 🏹	' 🛃)) 🕅 🔆 🔁			Recently Viewed
🗌 Name 🔺	Classification	Rev	Description	Manufacturing Responsibility	End I	▶ 🗃 <u>MCO-0022699</u>
00001164	PCB	00	housing		Ν ^	▶ 🞽 <u>MCO-0017317</u>
00002654	Packaging	00	Packaging Switch 3		Ye	\mathbf{O}
1.52779GRY	Finished Prod	00	SUB ASS BEZEL		Ye	Clipboard
1.551106		00	JLR START STOP SWITCH		Ye	▶ 📾 <u>00000136 00</u>
1.553094	Finished Prod	00	JLR SPOILER		Ye	▶ 📾 <u>00000166 00</u>
1.750202	Finished Prod	00	MITSUBISHI STEERING-L6		Ye	▶ 📷 <u>00001903 00</u>
1.800085	Finished Prod	00	E-BIKE SENSOR		Ye	▶ ■ 00002545 00
1.960158	Finished Prod	00	SW BODY MAIN CSA		Ye	▶ □ 00002555 00
1.960173	Finished Prod	00	AML TOUCH TRONIC PA		Ye	
1.960244	Finished Prod	00	SPORT SWITCH		Ye	▶ <u>B</u> <u>00002634 00</u>
1.960334	Finished Prod	00	NEUTRAL SWITCH		Ye	▶ 📾 <u>00002664 00</u>
1.960404	Finished Prod	00	REVERSE ASM SWITCH		Ye	▶ 🚔 <u>MCO-0022693</u>
1.960405	Finished Prod	00	NEUTRAL ASM SWITCH		Ye	▶ 🕍 <u>MCO-0022694</u>
1.960412	Finished Prod	00	HAZARD SWITCH		Ye	▶ 🗃 <u>MCO-0022695</u>
🗌 👪 11186300-R	Finished Prod	00	BHSG NOVA-XL 3V BL		Ye	. denuderer
1800200		00	JAGUAR X404 CRUISE		Ye	orawings
1802100		00	JAGUAR X404 CRS CRU		Ye	
4000000	<	00		_	× *	\frown
	-			174	objects	Close

About Clipboard management, see "Basic Training" document.

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MBOM06 MBOM management

Purpose	Manufacturing parts containing manufacturing-specific information, are defined and added to MBOMs; these can also have their own MBOM, containing other manufacturing parts. MBOM Engineer can update MBOM using manufacturing parts, used to define new parts used in manufacturing process	Status Define
Stakeholders	MBOM Engineer	
Beginning	MBOM created for a specific Plant	
Interactions	MBOM Engineer searches for part number, select MBOM Plant viev manufacturing parts	v, modify MBOM with
End	MBOM contains additional manufacturing parts	
Constraints	None	

In order to update MBOM content with Raw Material and Intermediate Parts definition, the MBOM Engineer user has to select the Edit mode and specify the MCO used to implement the changes, before update MBOM content.

About MBOM attributes, see chapter "MBOM plant specific attribute definition".

MCO definition, used to change MBOM

Step 1 Select Bill of Material command, select MBOM Plant Specific Attribute

Drop Images here Part (00A)	Button State : Released Owner : Corporate Modified : 2/16/2016 12	2:08:23 PM		
000000443 00A	EBOM EBOM Common	MBOM Plant Specif Routing	Where Used	Markups
Bill Of Materials	Actions - Reports -	Create MCO 🛤 💿 🐁 - 🔹	- 🚍 🗖 🖁	l 🎝 - 🔒
Access	мвом	Basics	BOM Attributes	
Equivalents	Name	1 Type Description	F/N Qty	Quantity Mult
Change Management	 □ □ ➡ 000000443	EC Button		
Specs & Documents		Eo Buton		
Related Parts				
Collaboration				
Multiple Ownership				

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Step 2 Select Edit icon, contained in Toolbar

000000443 00A	EBOM EBO	OM Com <u>mon</u>	ME	30M Plar	nt Specif	Routing	Where
Bill Of Materials	Actions - Rep	orts 🚽 🕺 🛔		Create M	co 🗛 🖣	🤊 🍋 - 🖸	• - 🗐
Access	Mass Update						
Equivalents	мвом		- 1	Basics			BOM
Change Management	Name			Туре	Description		F/N
Specs & Documents		0442	-	50	Dutton		
Related Parts		70443		EC	Bullon		
Collaboration							
Multiple Ownership Access							

Step 3 Select icon Filter, contained in Toolbar

] - III - IIII - III - IIII - IIIII - IIII - IIIII - IIII - IIII - IIII - IIII - IIIII - IIII - IIIII - IIII - IIIII - IIIII - IIII - IIII - IIIIII									
BOM Attributes						Basics	BOM		
lultiplier	U of M		Unit Qty	BFLUSH	Stock Location		Rev	Add	
	PCS			·			00A		

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Step 4 In the new window, select the plant involved and select the icon "…" to search for the MCO created before using



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Step 5 $\,$ In order to select the MCO created, select command Clipboard

Search Refinement	nearch Results
Search	
Case Sensitive	Add to Clipboard
Limit to 100 results	New / Add to Collections
Туре	Clipboard
Name	Please enter one-or more values, each one separated by an enter key, into the fields provided.
Revision	
Description	
Policy	
javascript:void(0)	

Step 6 Select the checkbox related to MCO and press command Submit

Search Refinement	Search Results				Results: 1,	1 selected
Search Q 2	E 🔈 - 🖶 🤯 -	- 88 -	🔜 🖣	¥ 💎	∭ ⅔+	
Case Sensitive	Name 🔺	Revision	Туре	State	Description	Start Date
Limit to 10C results	MCO-0016451		мсо	Create	Update MBOM Button	2/19/201
Type MCO Name Revision Revision Description	•					
Policy	< >	<				$ \rightarrow$
					(Submit

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Step 7 The selected MCO is used to manage the MBOM update

MBOM Plant Specific - Refinement 🛛 🕐	Drop 00000004
Plant	here Part (00A
Malta: (GMT+01:00) Amsterdam, Berlin,	EBOM EBOM Co
WIP BOM False V	Actions - Reports -
View Context Ch	Mass Update
	MBOM
Edit Context Ch MCO-0016451 C	🗌 Name
Date	000000443
Filter Clear	
▼ Name (MBOM)	

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Adding an existing Material Part or an existing Manufacturing Part

Step 1 Using the mode Edit, select part to be updated in order to add an existing Material Part or a Manufacturing Part



Step 2 From Action menus, select command to Add Existing



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Step 3 Enter search criteria to search for part

Search Refinement		Search Results 1 - 50 of ap	oprox. 1	819 Results Pag	e Size: 50 🔹 (Max Val	ue: 1000) ie	1
	З	🕒 🔍 • 📥 • 🛛 🏣 • 🕻	-	J 🏽 🔆 -			
Policy: Manufacturing Part Type: 21= Support Part	^	Name 🔺	Rev	Туре	Description	State	
☑!= Tool Part ☑!= Phantom Part		00000070	00	Manufacturin	Intermediate Part	Publish	^
State: Preliminary Review		00000126	00	Manufacturin	Button	Publish	
Approved Publish	4	00000552	00	Manufacturin	Test intermediate part	Publish	
 Taxonomies 	î	00002535	00	Manufacturin	BUTTON	Publish	
 Types 		00002733	00	Manufacturin	Button	Publish	
⊡ _ Part(1819)		090100	00	Material Part	DURETHAN BKV 30H 1	Publish	
■ I Manufacturing Part(18 I Material Part(519)		090101	00	Material Part	DURETHAN BKV 30H 2	Publish	
 Libraries 		090107	00	Material Part	BEETLE 60 GS6 9008	Publish	
🗉 🗖 Technical Classification(090108	00	Material Part	DURETHAN BKV 30 - RED	Publish	
 Attributes 		090110	00	Material Part	MINLON 10B1-40 BK-61	Publish	
• Altributes		090116	00	Material Part	DURETHAN BKV 30H1.0	Publish	
Name		090117	00	Material Part	DURETHAN BKV 15H 2	Publish	
Originated		090133	00	Material Part	CAPRON 8233G HS BK1	Publish	~
Modified >	*	< >>	<		Sub	mit Cancel	٦

In order to search for a specific type, unselect the checkbox related to "Manufacturing Part" and leave selected the checkbox related "Material Part"

 Taxonomies 	
▼ Types	
 □ Part(1819) □ Manufacturing Part(18) □ Material Part(519) 	
 Libraries 	

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In order to search for a specific Raw Material part number or a specific description (or a portion of part number or description), user can enter the part number or description in the Refinement textbox

Search Refinement		Search Results 1 - 11 0	of ap	prox. 1	1 Results Page \$	Size: 50 🕨 (Max Value	: 1000) iiii i 1
19070	7	🔄 🔍 - 👞 - 🗔 -		-	J 🗏 🔆 -		
Policy: Manufacturing Part	^	Name 🔺		Rev	Туре	Description	State
 If ype. =!= Support Part E!= Tool Part ⊡!= Phantom Part 		☐ ➡ 190700		00	Material Part	CELANEX 2302 GV1/30(Publish
[™] != Kit Part [™] != Synthetic Part State: Preliminary Review		190703		00	Material Part	CELANEX 3316 - BLACK	Publish
Approved Publish	~	190706		00	Material Part	CELANEX 2300 GV3/20	Publish
▼ Types	^	190708		00	Material Part	ULTRADUR B 4300 G2	Publish
Part(1819) Manufacturing Part(18		🗆 👪 S190701		00	Material Part	CRASTIN SK605 NC010	Publish
Material Part(519)		🗆 👪 S190704		00	Material Part	RADITER BRV 200 100(Publish
 Attributes 		🗌 🔜 S190705		00	Material Part	CELANEX 1700 A(SAMP	Publish
Name		🗌 🔜 S190706		00	Material Part	CELANEX 2300 GV3/20 (Publish
		🗌 🔜 S190707		00	Material Part	CELANEX 2302 GV1/15	Publish
Originated		🗆 👪 S190708		00	Material Part	ULTRADUR B 4300 G2(Publish
Modified		🗆 👪 S190709		00	Material Part	CELANEX 2300 GV1/10(Publish
Description							
Comment			_				
< >	۷	< compared with the second sec	>	<		Sut	omit Cancel

In order to search for a specific class of Material Part, user can use the portion related to "Libraries" (expand "Technical Classification" tree and search for the specific classification)



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Step 4 Select part to add

User has to select the Raw Material part number from table and press Submit

Search Refinement		Search Results	1 - 11 of ap	oprox. 1	1 Results Page	Size: 50 🕨 (Max Value	: 1000) iiii i 1
19070	C	E Q 🔌 -	. - (•	🕽 🗐 🔆 -		
Policy: Manufacturing Part	^	Name 🔺		Rev	Туре	Description	State
In the support Part In the support Part		🖸 🛃 190700		00	Material Part	CELANEX 2302 GV1/30(Publish
[™] != Kit Part [™] != Synthetic Part State: Preliminary Review		190703		00	Material Part	CELANEX 3316 - BLACK	Publish
Approved Publish	~	190706		00	Material Part	CELANEX 2300 GV3/20	Publish
 Types 	^	190708		00	Material Part	ULTRADUR B 4300 G2	Publish
Part(1819) Manufacturing Part(18		🗌 👪 S190701		00	Material Part	CRASTIN SK605 NC010	Publish
Material Part(519)		🗌 👪 S190704		00	Material Part	RADITER BRV 200 100(Publish
 Attributes 		🗌 👪 S190705		00	Material Part	CELANEX 1700 A(SAMP	Publish
Name		🗌 👪 S190706		00	Material Part	CELANEX 2300 GV3/20 (Publish
		🗌 📷 S190707		00	Material Part	CELANEX 2302 GV1/15	Publish
Originated		🗆 👪 S190708		00	Material Part	ULTRADUR B 4300 G2(Publish
Modified		🗆 👪 S190709		00	Material Part	CELANEX 2300 GV1/10(Publish
Description							
Comment							
< >>	۷	<	>	<		Sub	mit Cancel

Step 5 Complete information with Quantity, Position and other manufacturing information (see use-case "MBOM Plant Specific attribute definition") and press command Save.

MBOM Plant Specific - Refinement)	Drop 0000000443 E	utton	Stat	e: Released						く合	< >	Q 1
Plant Malta : (CMT+01:00) Amsterdam Berlin	^	here		Mod	ified : 2/16/2016 12:08:23 PM								
BOM Status Current & Pending		EBOM EBOM Common	М	BOM Pla	nt Specif Routing	Where U	sed	Markups					
WIP BOM False V		Actions - Reports - 💥	4	Create N	ICO 🗛 🥑 🍋 - 🔸	- 7	-	s 🕾 - 📭 i 🍱 -		-	🎽 🚺 🖞	7 💁	田 »
View Context Ch		Mass Update	ss Update Save Reset										
		MBOM		Basics		BOM Att	ributes				BOM Attrib	outes	/
Edit Context Ch MCO-0016451 C		✓ Name	4	Туре	Description	F/N	Qty	Quantity Multiplier	U of M		Unit Qty	BFLUSH	Stock Loca
Date		■ ▼ → 000000443		EC	Button				PCS				
Filter Clear		🗔 📑 🔿 090223		Man	DELRIN 500 BN-403 - B	r	1	٢	KG	0	٢	٢	r
 Name (MBOM) 										-			
000000442 (1)													

•		-	1	7 🚱	E »
				Sa	Re
			BOM Attri	ibutes	
	U of M		Unit Qty	BFLUSH	Stock L
	PCS	_			
	KG		r		r

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Adding a new Manufacturing part to Engineering part

Step 1 Using the mode Edit, select part to be updated in order to add a new Manufacturing Part

MBOM Plant Specific - Refinement		Drop	000000443	B	utton	Sta
Plant Malta : (GMT+01:00) Amsterdam, Berlin, I BOM Status Current & Pending v WIP BOM False v View Context Ch	^	EBOM Actions -	BOM Comm	ion X	_ м Са (Ow Mor BOM Pla Create I
Edit Context Ch		мвом ✓ Name			4	Basics Type
Date		- 2 ₽	000000443			EC
Filter Clear						
Name (MBOM)						

Step 2 From Action menus, select command to Add New



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Step 3 Create new manufacturing part; only the Part Name is mandatory. Select checkbox AutoName and press command Done

Create Manufacturing Part		
🚱 🔆 -		
	Fleids in red Italics are required	^
Туре	Manufacturing Part	
AutoName Series	Part Number	
Policy	Manufacturing Part 🗸	
Custom Revision Level	00	
Number of Parts		
Part Family	Clear	
Basic		
Description	ЦН ВИТТОН	
<		Y
	Apply Done Cancel]

User can create more than 1 Manufacturing Parts

The system will prompt a message to confirm the Manufacturing Part creation



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Step 4 Complete information with Quantity, Position and other manufacturing information (see use-case "MBOM Plant Specific attribute definition") and press command Save.

Plant		^	here	Part (UUA)		Modified : 2/16/2016 12:08:23	PM						
Malta : (GM	T+01:00) Amst	terdam, Berlin, I	EBOM	EBOM Common	MBC	OM Plant Specif Routing	, wi	iere Usec	d Markups				
BOM Status	Ealse U	ending 🧹	Actions -	Reports - 🕺 🗶		reate MCO 🙀 🥱 🍋	• • •	≌ □	1 😹 🎩 - 🗋 -	.		7	🚱 🗐 »
View Conte	ext Ch		Mass Update	9									Save Rese
		C	MBOM		Basics		BOM Att	ributes			BOM Attrib	outes	\bigcirc
Edit Contex	t Ch		Name		Type	Description	E/N	Otv	Quantity Multiplier	LL of M	Unit Oty	RELISH	Stock Location
MCO-00164	451	C		00000440	ijpe			o(c)	quantity multiplier		onic day	DIEUUI	Stock Location
Date				00000443	EC	Button	r	r	,	PCS		r	r
	Fil	ter Clear	+ 🗆 📷	090223	Man	DELRIN 500 BN-403 - B		1.0		KG 🧪	1.00		DFTS01
= Name (I	IDOM		+ 🗌 📷	000007070	Man	LH BUTTON	r	1	r	PCS)	r	r
• Name (n													
090223	(1)												
_		- - . (_		ล								
¢-		V 71 (\mathbb{C}		»								
				Save	Rea	set							
		BOM Attrib	utes	\sim		1							
J of M		Unit Qty	BFLUSH	Stock Loo	atio	n I							
PCS													
KG	1	1.00	r	DFTS01									
PCS	\bigcirc	r	٣	r									

Removing a Manufacturing part

Step 1 Using the mode Edit, select part to be removed

000000443 00	EBOM EBOM Common	M	BOM Plai	nt Specif Routing	Where U	sed	Markups
Bill Of Materials	Actions - Reports - 🗶		Create M	ICO 🛤 🥱 🍋 🗸	- 🚽	.	👼 - 🔒
Access	Mass Update				,		÷ _
Equivalents	MBOM		Basics		BOM Att	ributes	
Change Management	Name		Туре	Description	F/N	Qty	Quantity Mul
Specs & Documents			FC	Button			
Related Parts		_	20	Daton	r	r	r
Collaboration			Man	DELRIN 500 BN-403 - B	1	1.0	
Multiple Ownership			Man	LH BUTTON	2	1.0	r
Access	000007081		Man	RH BUTTON	3	1.0	r
Manufacturing Details	\sim						
Vendor Part Numbers							

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Step 2 From Action menus, select command to Remove Selected



The user has to confirm the operation; the Find Number field is mandatory in order to remove the part

You have chosen to remove the selected items from this list. Removing items from the list database. To continue with the removal, click OK. To cancel the removal, click Cancel.	does not delete the items from the
	OK Cancel

Step 3 To confirm, select command Save

	Modified : 2/19/2016 10):31:47	AM												
	EBOM Common MBOM Plant Specif Routing Where Used Markups														
	Actions - Reports - 🕺 😫 Create MCO 🛤 🧑 🐁 - 💽 - 差 🗔 🐰 🎭 🗍 - 🔛 - 🧱 🖉 🖓 😵 🧱 🔆 -													~	
	Mass Update													Save	
	MBOM Basics						30M Attributes			BOM Attributes				Basics Bolvi Attr	
t	Name	4	Туре	Description	F/N	Qty	Quantity Multiplier	U of M		Unit Qty	BFLUSH	Stock Location	Rev	Add	
	■ □ ➡ 000000443		EC	Button			^	PCS					00		
			Man	DELRIN 500 BN-403 - B	1	1.0	r	KG	1	1.00	N	DFTS01	00	MCO-00	
			Man	LH BUTTON	2	1.0	F	PCS	/	1.00	Y	DFTS01	00	MCO-00	
			Man	RH-BUTTON	3	1.0		PCS	1	1.00		DFTS01	00	MCO-00	
3															
3															

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MBOM07 MBOM plant specific attribute definition

Purpose	MBOM Engineer can provide the mandatory information for CMS (like	Status	Define
	Stock Location and Quantity Multiplier)		
Stakeholders	MBOM Engineer		
Beginning	MBOM created for a specific Plant		
Interactions	MBOM Engineer searches for part number, select MBOM Plant view,	compile r	nanufacturing
	information		
End	MBOM contains manufacturing information		
Constraints	None		

The information defined by Engineer users (EC Parts and their attributes, Find Number and Qty for EC Parts) cannot be changed by MBOM Engineer users: in order to update this information, the users have to create a Change process

MBOM Engineer user can update the information related to Raw Material, Intermediate Parts and all plant specific attributes:

- Find Number and Qty, only for Raw Material and Intermediate Parts
- Quantity Multiplier, Stock Location, Required or By-Product, BFLUSH, Draw From Location as Defined, Allocation, Blow Through Part, Unit Qty for all parts

In order to update Find Number and Qty for Raw Material and Intermediate Parts that are already published (state Publish), the MBOM Engineer user has create a new MCO or select a MCO in state Create, has to select the Edit mode and specify the MCO used to implement the changes, before update attributes values.

In order to update all plant specific attributes (except Find Number and Qty for Raw Material and Intermediate Parts that are already published), it's not necessary specify the MCO used to implement the changes.

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MBOM Plant Specific table definition

Portion with Technical information

Modified	: Sep 20	2016 1:11:32 AM	(
BOM EBOM Common ME	BOM Plai	nt Specif Routing	Where Used	Markups				
Actions - Reports - Create	MCO	🚽 🗖 🖁 🖓 🗍	-	🔜 🛃 🏹 🕵	≣ 🔆 -			
МВОМ	Basics					BOM Att	ributes	
🗋 Name 🔒	Туре	Description	Base Materials	Plating Materials	Painting Materials	F/N	Qty	Quantity Multiplier
■ □ ➡ 453050	EC	BRAKE DUAL CCT 2.5MM	^					^
+	EC	HOUSING - BRAKE(2.5M				1	1.0	1.00
+ 🗆 🕁 52821	EC	COUPLER - BRAKE				2	1.0	1.00
+	EC	CAM - BRAKE				3	1.0	1.00
+	EC	SOCKET - BRAKE(2.5MM				4	1.0	1.00
+ 🗆 🕁 52819	EC	PLUNGER - BRAKE				5	1.0	1.00
🛨 🗔 👪 63555	EC	CONTACT BRIDGE				6	1.0	1.00
+	EC	TERMINAL C				7	1.0	1.00
+	EC	TERMINAL B				8	1.0	1.00
+ 🗆 🕁 63554	EC	TERMINAL D				9	1.0	1.00
🛨 🗖 👪 63551	EC	TERMINALA				10	1.0	1.00
🛨 🗖 🔂 C40757	EC	MAIN SPRING				11	1.0	1.00
+	EC	LEAF SPRING				12	1.0	1.00
🛨 🗖 👪 C40768	EC	PLUNGER SPRING				13	1.0	1.00

Portion with MBOM plant specific information

	mouniee	1. 00p 20, 2010 1.11.02 / 1													
BOM EBOM Commo	on ME	SOM Plant Specif	Routing	Where Us	ed Markups										
Actions - Reports -	Create	Mco 🚽 🗖 🖁	a [- 5-	• 📰 • 🔜 🚺 🏹	Q. 🗏 🕺	* -								
MBOM	utes				BOM Attributes							Basics			
Name	λty	Quantity Multiplier	U of M		RequiredOrByProduct	DrawFromLo	Allocation	BlowThroughPart	Unit Qty	BFLUS	Stock Location	Rev	DesignPurchase	End Item	Item M
453050			PCS									00	Design	Yes	Compl
÷ 🗆 📑 52823	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	09	Design	Yes	Compl
⊕ □ ➡ 52821	1.0	1.00	PCS	/	R	Υ	Υ		PCS	Y	DFTS01	01	Design	Yes	Compl
+	1.0	1.00	PCS	/	R	Υ	Y		PCS	Y	DFTS01	01	Design	Yes	Compl
• 🗆 🔜 52824	1.0	1.00	PCS	/	R	Υ	Y		PCS	Y	DFTS01	04	Design	Yes	Compl
+ 🗆 🔜 52819	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	02	Design	Yes	Compl
🕀 🗔 🔜 63555	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	03	Purchase	Yes	Compl
+ 🗆 🔜 63553	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	03	Purchase	Yes	Compl
	1.0	1.00	PCS	/	R	Υ	Y		PCS	Y	DFTS01	03	Design	Yes	Compl
⊕ □ → 63554 €	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	02	Purchase	Yes	Compl
⊕ □ → 63551	1.0	1.00	PCS	/	R	Υ	Υ		PCS	Y	DFTS01	01	Purchase	Yes	Compl
🕂 🗖 📑 C40757	1.0	1.00	PCS	/	R	Υ	Y		PCS	Y	DFTS01	00	Purchase	Yes	Compl
🕀 🗖 🕁 63566	1.0	1.00	PCS	/	R	Υ	Y		PCS	Y	DFTS01	01	Purchase	Yes	Compl
🕂 🗖 📑 C40768	1.0	1.00	PCS	1	R	Υ	Y		PCS	Y	DFTS01	01	Purchase	Yes	Compl
<	> <														

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N	Nodified : Sep 20, 2	201 <u>6 1:11:32</u> AM	N	C								
BOM EBOM Common	MBOM Plant	Specif	Routing W	here Used	Markups							
Actions - Reports -	Create MCO		🎝 - 🛄 -	• ••	II 🖉 🖓	Q. 🗐 🖇	È-					
МВОМ							BOM Attribu	ites				
🗌 Name	hase End Item	Item Master	Item Master	Routing	Routing BOM	BOM	Status	Add	Remove	Start Date	End Date	Re
= 🗆 🕁 453050	Yes	Complete	•	Complete	BOM & ROUTE	Complete						
1	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
1 52821	Yes	Complete	•	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
1 🔁 🖬 52820	Yes	Complete	•	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
1 52824	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
+	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
+ 🗆 🔜 63555	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
+ 🗆 🔜 63553	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
• 🗆 🔜 63552	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
+ 🗆 🔜 63554	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
• 🗆 📷 63551	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
🕀 🗆 🔜 C40757	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
+ 🗆 🔜 63566	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		
🕀 🗆 📑 C40768	Yes	Complete	٠	Complete	BOM & ROUTE	Complete	Current	MCO-0001299		Mar 29, 2016		

Portion with icons used to export information to CMS and MCO information (status, start date)

The table contains the following information:

- Name (not editable)
- 🌔 icon shown if there is an active Change Notice on part
- Type: EC Part (from Engineering) or Manufacturing Part (Raw Material or Intermediate Part)
- Description (not editable for EC Part and Manufacturing Parts already published)
- Base Materials, Plating Materials and Painting Materials: Material Part information entered by Engineer users (not editable)
- F/N: position of the part in Bill of Material (not editable for EC Part)
- Qty (not editable for EC Part)
- Quantity Multiplier (mandatory for CMS)
- Unit Of Measure (not editable for EC Part and Manufacturing Parts already published)
- Required Or By Product (mandatory for CMS)
- Draw From Location (mandatory for CMS)
- Allocation (mandatory for CMS)
- Blow Through Part
- Unit Qty
- BFLUSH (mandatory for CMS)
- Stock Location (mandatory for CMS)
- Revision (not editable)
- Design Purchase (not editable)
- End Item
- Item Master: if Complete means the part is already pushed to CMS. Use icon * to export Item Master information to CMS (see chapter "Parts to Complete" or "Manufacturing Parts to Complete")
- Routing: if Complete means the part routing details are already pushed to CMS. Use icon it to export Routing details to CMS (see chapter "Parts to Complete" or "Manufacturing Parts to Complete")

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- BOM: if Complete means the MBOM details are already pushed to CMS. Use icon ⁼ to export MBOM details to CMS (see chapter "Parts to Complete" or "Manufacturing Parts to Complete")
- Status: specifies if MCO is not yet implemented (Pending) or already implemented (Current). The value is managed automatically by the system.
- Add and Remove: the columns contain the MCOs used to create the MBOM (Add), in case of Change, the column Add contains the MCO used to add the new part revision and the column Remove contains the MCO used to add the previous part revision. The value is managed automatically by the system.
- Start Date: Start Effectivity Date of MBOM, equals to Start Date defined in MCO "Add". The value is managed automatically by the system.

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Update Find Number and Qty for Raw Material and Intermediate Parts that are already published using MCO definition: MCO definition

Same process described in "MCO definition, used to change MBOM", chapter "MBOM Overview"

Drop Images here Part (00A)	Button State : Released Owner : Corporate Modified : 2/16/2016 13	2:08:23 PM		
000000443 00A	EBOM EBOM Common	MBOM Plant Specif Routing	Where Used	Markups
Bill Of Materials	Actions - Reports -	Create MCO 🙀 🥑 🐁 - 🔸)- 🗐 🗖 🖁	l 🎝 - 🔒
Access	мвом	Basics	BOM Attributes	
Equivalents	Name	1 Type Description	F/N Qty	Quantity Mult
Change Management	 □ □ ➡ 0000000443	EC Button		
Specs & Documents				
Related Parts				
Collaboration				
Multiple Ownership				

Step 1 Select Bill of Material command, select MBOM Plant Specific Attribute

Step 2 Select Edit icon, contained in Toolbar

0000000443 00A	EBOM	EBOM Common	M	BOM Plai	nt Specif Routing	Where
Bill Of Materials	Actions -	Reports 🗸 🕺		Create M	ICO 🖓 🤊 🌯 - 📀	- =
Access	Mass Upda	ate				
Equivalents	MBOM			Basics		BOM
Change Management	Name			Туре	Description	F/N
Specs & Documents		000000442	-	50	Dutton	
Related Parts		000000445		EC	Bullon	
Collaboration						
Multiple Ownership Access						

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Step 3 Select icon Filter, contained in Toolbar

		-			▦ ⅔•	Save	Res	set
BOM Attributes Basics BOM							BOM	
lultiplier	U of M		Unit Qty	BFLUSH	Stock Loca	tion	Rev	Add
	PCS						00A	

Step 4 In the new window, select the plant involved and select the icon "…" to search for the MCO created before using



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Step 5 $\,$ In order to select the MCO created, select command Clipboard

Search Refinement	Search Results
Search C	
Case Sensitive	Add to Clipboard
Limit to 10C results	* New / Add to Collections
Туре	Clipboard
Name	Please enter one or more values, each one separated by an enter key, into the fields provided.
Revision	
Description	
Policy	
javascript:void(0)	

Step 6 Select the checkbox related to MCO and press command Submit

Search Refinement	Search Results				Results: 1,	1 selected
Search Q 2	E 🔈 - 🖶 🤯 -	- 88 -	🔜 🖣	¥ 💎	∭ ⅔+	
Case Sensitive	Name 🔺	Revision	Туре	State	Description	Start Date
Limit to 10C results	MCO-0016451		мсо	Create	Update MBOM Button	2/19/201
Type MCO Name Revision Revision Description	•					
Policy	< >	<				$ \rightarrow$
					(Submit

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Step 7 The selected MCO is used to manage the MBOM update

MBOM Plant Specific - Refinement 🛛 🕐	Drop 00000004
Plant	here Part (00A
Malta: (GMT+01:00) Amsterdam, Berlin,	EBOM EBOM Co
WIP BOM False V	Actions - Reports -
View Context Ch	Mass Update
	MBOM
Edit Context Ch MCO-0016451 C	🗌 Name
Date	000000443
Filter Clear	
▼ Name (MBOM)	

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Update Find Number and Qty for Raw Material and Intermediate Parts that are already published using MCO definition: execution

In order to update Find Number and Qty, it's necessary specify the MCO used to implement the changes (see previous point)

Drop 00002545	Switch Test 1	State : Publish Owner : Corporate Modified : May 20, 20	016 4:4	2:09 PM	
00002545 00	EBOM	EBOM Common	M	BOM Plai	nt Specif
Bill Of Materials	Actions -	Reports 🗸 🗶	R	Create M	ICO 🙀
Change Management	Mass Upda	te			
Specs & Documents	MROM		_	Desise	
Related Parts	MBOM		_	Basics	
Oallaharatian	Name		4	Туре	Descriptio
Collaboration		0002040		EC	Switch Te
Manufacturing Details	+	52824-04		EC	SOCKET
Vendor Part Numbers					

Step 1 Select Bill of Material command, select MBOM Plant Specific Attribute Select Edit icon

Step 2 Enter manufacturing attribute values

User can define Find Number and Qty; select Save to store the changes

EBOM EBOM Common	MBOM Pla	ant Specif Routing	J	Where Used	Markups			
Actions - Reports - 🗶	Create	мсо 🖓 🦻 🗔		🎝 - 🔒 -	🗛 - 📰 - 🜉	279	2 🔳 🕺	A-
Mass Update	v							Save
MBOM			BOM	Attributes				BOM Attributes
Name	Vaterials	Painting Materials	F/N	Qty	Quantity Multiplier	U of M		RequiredOrByProdu
00002343						PCS		
			10	1.0	r	PCS	1	r
			20	1.0	r	PCS	/	r
🕀 🔜 👪 52821-01			30	1.0	*	PCS	1	r
🕀 🗔 👪 52820-01			40	1.0	r	PCS	1	r
主 🗔 🏣 52819-02			50	1.0	r	PCS	1	r
🛨 🗔 🏣 52581-01			60	1.0	r	PCS	1	r
🖃 🛄 👪 00002585			70		r	PCS	1	r
🕀 🗌 🔜 🙆 190700			1	0.36 <mark>0.24</mark>)	KG	/	F
 00002575 			80	1.0		PCS	1	r
Version	5			Date:		28-Nov	-2017	
Status	Relea	sed				•		92

Update plant specific attributes values for all parts contained in MBOM, except Find Number and Qty for Raw Material and Intermediate Parts that are already published

Step 1 Select Bill of Material command, select MBOM Plant Specific Attribute Select Edit icon

Drop Images here Part (00)	Switch Test 1 State : Publish Owner : Corporate Modified : May 12, 20	016 3:	33:48 PM	
00002545 00	EBOM EBOM Common	M	BOM Pla	nt Specif Routing
Bill Of Materials	Actions - Reports - 🗶	8	Create I	ACO 🛤 🧿 🗔 🖁
Change Management	Mass Update		1	
Specs & Documents	•	_		
Delete d De te	MBOM		Basics	
Related Parts	Name		Type	Description
Collaboration		<u> </u>	.160	
			50	A 11 T 14

Step 2 Enter manufacturing attribute values

User can define mandatory information

Find Number, Quantity and Quantity Multiplier are defined manually; the other attributes are defined using a drop down list (in the example, Stock Location)





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In Edit mode, the user can use also the massive update function

Select the Mass Update drop down list and select the attribute to update



The user has to select the value (if the attribute has a drop down list, the user has to choose the value from the list otherwise has to enter manually the value) and select the function "Apply to All" to update all parts contained in MBOM or "Apply to Selected" to update all parts selected in MBOM table (user has to select previously the parts)



Version	5	Date:	28-Nov-2017	
Status	Released			94

Update plant specific attributes values for a specific part contained in MBOM, except Find Number and Qty

Step 1 Select Bill of Material command, select MBOM Plant Specific Attribute; select Edit icon to enter other CMS specific attributes

The user has to select the Edit icon contained in the table, not the icon contained in the toolbar.

This function is available even if the MBOM and the Raw Material or Intermediate part is already published

	Modified : May 12	2, 2016 3:33	3:48 PM							
EBOM	EBOM Commo	n MB	OM Plant	Specif Routing	Where	Used	Markup	S		
Actions 🗸	Reports 🗸 🤌	2	Create MC	o 🛤 🔊 🗔 8	n 🖧 🖥	- -	. -	I- 🗾 (27	' 🛃
MBOM		BOM A	ttributes			_	BOM	Attributes		
Name		÷/N	Qty	Quantity Multiplier	U of M		Requ	iredOrByPro	oduct	DrawFi
	0002545				PCS	~				
+	52824-04	10	1.0		PCS	\square				
+	52822-04	20	1.0		PCS	/				
+ 🗆 🚟	52821-01	30	1.0		PCS	1				
•	52820-01	40	1.0		PCS	/				
+ 🗆 👪	52819-02	50	1.0		PCS.	1				
•	52581-01	60	1.0		PCS.	1				
	00002585	70	1.0		PCS.	1				
+	190700	1	0.12		KG	/				
± 🗆 👪	00002575	80	1.0		PCS	1				
						V				
						-				

Step 2 Enter information; press command Done to save

MBOM Details			
🚱 🔆 -			
	Fields in red italics are required		
Stock Location	DFTS01 V	Required or By-Product	RV
BFLUSH	N	Line Number	0
Draw From Loc As Defined	¥	Allocation	YV
Blow Through Part	~	Unit Qty	1.00
Quantity Multiplier			
			Done Cancel
			\sim

Version	5	Date:	28-Nov-2017	
Status	Released			95

MBOM08 Make / Buy definition

Purpose	MBOM Engineer can define "Make / Buy" decision for each Status Define
	Manufacturing Plant.
Stakeholders	MBOM Engineer
Beginning	MBOM created for a specific Plant
Interactions	MBOM Engineer searches for part number and define "Make / Buy" values for each
	Manufacturing Plants.
End	Proposal Make / Buy decision complete
Constraints	None

Make/Buy decision is initially defined during EBOM management but finalized during MBOM management.

Make / Buy definition at EBOM level

Engineer user, during EBOM management, can define the "Design Purchase" value:

- If the Design Purchase attribute is set to "Design" means the proposal is to produce internally the part
- If the Design Purchase attribute is set to "Purchase" means the proposal is to buy the part

Properties N	Naterial Parts CMS Inf	formation Lifect	ycle Whe	re Used	Revisions
🔊 🔓 🦑 🛽	0 😐 🎞 🗟 %	-			
Name	00002585	Revision	00	State	Publis
Originator	Samantha Grima	Originated	May 11, 2016	Modified	May 20 2016
Part Classification	-	Quality Release			
Description	BUTTON				
Design Purchase	Design	Long Lead Time Component	FALSE		
End Item	No	CMS Part Status	Malta:		

Version	5	Date:	28-Nov-2017	
Status	Released			96

Make / Buy definition at MBOM level, for each Manufacturing Plant

Manage "Make / Buy" info related to plant: a dedicate user-interface is provided to allow attributes definition related to a component for a specific plant (i.e: one plant could make it and another could buy it from an external vendor; a component is built in Egypt and Malta buys it from Egypt)

Step 1 Search for Engineering part and select CMS Information tab

In Plant table, select the icon related to a Manufacturing Plant; the system opens a new window with Plant information

i		Modified : May 12, 2016 11:23:45	AM			
52824-04 00	Properties Ma	terial Parts CMS Information	Lifecycle Where	Used Revisio	ns »	
Bill Of Materials		2 %				
Change Management	Part Number	52824-04	CMS Code Rule	Code		
Specs & Documents	Global Info					
Related Parts	Description 1	SOCKET - BRAKE(2.5MM SW PT)				
Collaboration	Description 2	7% REGRIND				
Manufacturing Details	Description 3					
Vendor Part Numbers	Units of Measure and	d Weight				
CMS Information	Unit of Measure	PCS - PIECES	Net Weight	0.0	Net Weight UOM	
Tool Parts	Plant Info					
Referenced By	Plant Name	GL Code	GL Expense Co	de		
Classification PowerView	ef Faunt					\frown
Issues	egypt					()
Related Change Notices	⊟ Malta	OTH - SALES OTHERS	MAN - INJECTED	:MANUFACTURED	PARTS	

Step 2 In Plant information form, select the Edit icon

Plant Info				
🖉 🔮 🔆				
Plant Name	Malta			^
Global Info				
Description 1	SOCKET - BRAKE(2.5MM SW PT)			
Unit of Measure	PCS - PIECES	Net Weight UOM		
Catalog Id	PLASTICS	Commodity Category Code	-	
Plant Info				
Production Make Ruy Code	Make			
Receive To Loc	-	Repetitive Control	Y	
GL Code				
GL Code	OTH - SALES OTHERS	GL Expense Code	MAN - INJECTED :MANUFACTURED PARTS	
Major Group Code	S9 - LOCATION - S9	Minor Group Code		
Major Sales Code	SMO - SEMI-FINISHED/MALTA/OE	Minor Sales Code	VW	
Plant Part - Manufac	cturing			
Schedule Type	MRP	Production Multiplier	0.0	~

Version	5	Date:	28-Nov-2017	
Status	Released			97

Production Make/Buy Codeis dependent on attribute "Design Purchase" value, specified by Engineer users:

- If the Design Purchase attribute is set to "Design", "Production Make Buy Code" attribute is initially set to "Make"
- If the Design Purchase attribute is set to "Purchase", "Production Make Buy Code" attribute is initially set to "Buy".

Plant Info				
🚱 🔆 -				
	Flekds in red Italics are required			^
Plant Name	Malta			
Global Info				
Description 1	SOCKET - BRAKE(2.5MM SW PT)			
Unit of Measure	PCS - PIECES	Net Weight UOM		
Catalog Id	PLASTICS	Commodity Category Code	-	•
Plant Info				
Production Make Buy Cude	Make			
Receive To Loc	Buy Make	Repetitive Control	Y	
GL Code	Unassigned			
GL Code	OTH - SALES OTHERS	GL Expense Code	MAN - INJECTED	
Major Group Code	S9 - LOCATION - S9	Minor Group Code	V	۲
		(Done Cancel	

Step 3 Update "Production Make Buy Code" value and Save

Step 4 Export information to CMS

In order to export to CMS the Global and Plant information, select "Export to CMS" command in "CMS Information" tab.

Drop Images here 52824-04 R Part (00)	SOCKET - BRAKE(2.5MM SW	PT) State : Publish Owner : Corporate Modified : May 12, 2016 11:23:45 AM
52824-04 00	Properties Mat	terial Parts CMS Information Lifecycle
Bill Of Materials		1 22-
Change Management	Part Number	52824-04 CMS Co
Specs & Documents	Global Info	
Related Parts	Description 1	SOCKET - BRAKE(2.5MM SW PT)
Collaboration	Description 2	7% REGRIND

Version	5	Date:	28-Nov-2017	
Status	Released			98

MBOM09 Copy MBOM for other Plant

Purpose	MBOM Engineer can copy a MBOM created for one plant to another plant	Status	Define
Stakeholders	MBOM Engineer		
Beginning	MBOM created for a specific Plant		
Interactions	MBOM Engineer searches for MCO related to a manufacturing Plant, credifferent Plant	ate a new	MBOM for a
End	MBOM created for a new Plant		
Constraints	None		

The "Copy MBOM" command extends a part number from one Manufacturing Plant to another; the same operation is performed also to all sub-components that are contained in MBOM.

Step 1 Select part with MBOM to be copied

MBOM Engineer has to search for the part to be extended; select "Bill of Material" command, select "MBOM Plant Specific" tab; select Edit icon and "Copy MBOM" command



Version	5	Date:	28-Nov-2017	
Status	Released			99

Step 2 Select Source Plant and Target Plant

The system opens a new window; the user has to select the icon "…" and select the new Manufacturing Plant (in this case, the system shows immediately Egypt because there is only one Plant, other than Malta); select Done

	Сору МВОМ
	🚱 🔆-
5	Fields In red Italics are required Source Plant
	Malta 🗸
	Target Plant
	\mathbf{U}
2	Done Cancel

The system opens a new window with the new MCO created with new Manufacturing Plant

Drop Images here MCO-0022713	State : Create	o3:21 PM
MCO-0022713	🖉 🖣 🔳 🔆	-
History	Туре	MCO
Lifecycle	Name	MCO-0022713
Affected Part Revisions	Description	
Route	Policy	MCO Standard
HOOL	Start Date	Dec 31, 2049 1:00:00 AM EET
мсо ітрасі Керогі	Target Start Date	
Related MCOs	Originator	User Agent
Related Change	Manufacturing	Egypt
Related Change Notices	Responsibility	
Involved MBOMs	Manufacturing Responsibility Timezone	(GMT+02:00) Cairo

Version	5	Date:	28-Nov-2017	
Status	Released			100

The command "Affected Part Revision" contains all parts that are extended to new Manufacturing Plant



Top Assembly part and all sub-parts have a new Manufacturing Plant

52821-01 00	Manufacturing Res MB	OM Revi	sions						
Bill Of Materials	📃 - 🥒 🔛 View Curre	nt & Pen	ding 🗸	Revision Curre	ent 🗸	Filter 🧑 🛄 🗍 -	🖪 • 📰 • 🔜 🧷	💎 😪 🗏 🔆 -	
Change Management	Name	Type	Sea	Part Revision	Status	Description	WEG Change	Target Start Date	Change
Specs & Documents	Nume	1300	ooq	T ut the the test of the	otatao	becomption	in o onango	ranget start bate	onungo
Related Parts	E 52821-01	Part				COUPLER - BRAKE			
Collaboration	🖅 🔄 📾 Egypt	Plant	1	00	Cur	(MCO-0022713	Dec 31 2049;	System
Manufacturing Details	🔍 🗖 📾 Malta	Plant	1	00	Cur		MCO-0011209	Mar 29 2016;	CA-0012
Vendor Part Numbers									
CMS Information									
Tool Parts									

The table "Parts to Complete" contains all parts extended to new Manufacturing Plant, because MBOM Engineer has to complete the CMS Information, Routing and MBOM

 Collaboration and Approvals 	P	Parts to Publish Parts	to Complete	ICOs Ma	nufac	turing Par			
Home	Co	omplete Select 🥒 📃	+ □ ⊅`	• 🖉 🏹 (× -			
Home RFQ User		Name 🛆	(Classification	Rev	Description	DesignPurchase	End Item	ltem Master
Home Engineering User		52799-03			03	HOUSING	Design	Yes	
Home Change Management User		52799-04			00	HOUSING	Design	Yes	
Home Manufacturing		52819-02			00	PLUNGER - BRAKE	Design	Yes	Compl
Issues Summary		52821-01			00	COUPLER - BRAKE	Design	Yes	
Shortcuts	_	FB 50004 04				SOCKET -	- .		

The table "MCOs" contains the new MCO

 Collaboration and Approvals 	Parts to Publish Parts	s to Complete	MCOs Manufacturing Par						
Home	name rev revision: Structur	ame rev revision: Structure View Filter:Active							
Home RFQ User	📮 🛄 - 📑 -	🗒 🖉 🏹 🤇	2 🏽 🔆 -						
Home Engineering User	🗌 Name 🚽	Start Date	Manufacturing Responsibility	Affected Items	Involved MB				
Home Change	□ 😸 MCO-0022713	Dec 31, 204	Egypt	52821-01)				
Management User	□ 🕍 MCO-0022712	Dec 31, 204	Malta	6 00002644					
Home Manufacturing	□ 🕍 MCO-0022711	Dec 31, 204	Egypt	₿ 9.5E10899XB8					
Issues Summary	□ 🔠 MCO-0022710	Dec 31, 204	Egypt	👪 9.5E10166					

Version	5	Date:	28-Nov-2017	
Status	Released			101

MBOM10 MBOM approval

Purpose	MCO approval process is required to release a MBOM related to a Status Define
	Manufacturing Plant, in order to release MBOM and publish
	Manufacturing information to CMS
Stakeholders	MBOM Engineer
Beginning	MBOM is complete
Interactions	MBOM Engineer searches for part number to release, select MCO (Manufacturing Change Order)
	related to a Manufacturing Plant and start approval process.
	Other managers can be notified, before MBOM approval.
	When all managers have complete approval tasks, MBOM Engineer can promote MBOM to status
	Implemented
End	MBOM for a Manufacturing Plant is implemented
Constraints	None

Step 1 Search for MCO to release

Several functionalities can be used to search MCOs (search from toolbar, hyperlink from BOM Power View table, hyperlink from Manufacturing Details table, hyperlink from Dashboard MCOs).

 Collaboration and Approvals 	Parts to Publish Parts to	o Complete	MCOs Manufacturing Par		
Home	name rev revision: Structure	View Filter:Activ	ve		
Home RFQ User	📮 🛄 - 🛛 🐺 - 🔝 -	2 7	😫 🛒 🎌 -		
Home Engineering User	🗌 Name 🗸	Start Date	Manufacturing Responsibility	Affected Items	Involved M
Home Change	□ 🕍 MCO-0022708	May 20, 20	Malta		
Management User	□ 🕍 MCO-0022707	Dec 31, 20	Egypt	60000010	
Home Manufacturing User	□ 🞽 MCO-0022706	Dec 31, 20	Malta	60000010	
Issues Summary	□ 🕍 MCO-0022705	Dec 31, 20	Egypt	52819-02	
Shortcuts	□ 🕍 MCO-0022704	Dec 31, 20	Egypt	👪 C40768-01	
Collections	□ 🕍 MCO-0022703	Dec 31, 20	Malta	600002674	6 000026
Subscriptions	□ 🕍 MCO-0022702	Dec 31, 20	Malta	B 00002664	
	□ ≦ MCO-0022699	Dec 31, 20	Malta	 ➡ 00002545 ➡ 00002575 ➡ 00002585)
	☐ 🕍 MCO-0022698	Dec 31, 20	Malta	00002703	

Example 1: using "Dashboard MCO" tab, user can select MCO related to a specific Part Number

Example 2: starting from Part Number and using "Manufacturing Details" table, user can select MCO related to a specific Manufacturing Plant

Drop Images here 00002545 Part (00)	Switch lest I State - Publish Owner : Corporate Modified : May 12, 2	2016 3:33:4 BOM Revi	18 PM sions				
Bill Of Materials	📃 – 🖉 🛃 View Curr	ent & Pen	ding 🗸	Revision Currer	nt 🗸 📔	Filter 🥑 📮 斗 -	📑 - 📰 - 🔜 🖉
Specs & Documents	Name	Туре	Seq	Part Revision	Status	Description	MFG Change
Related Parts	00002545	Part				Switch Test 1	
Collaboration	🕀 🔲 📾 Malta	Plant	1	00	Curr		MCO-0022699
Manufacturing Details							
Vendor Part Numbers							
CMS Information							
Version	5			Date	:		28-Nov-2017
Status	Released						

Step 2 Setup Start Date to approve MCO

Select MCO hyperlink; select Edit icon

Drop MCO-0022699 Images MCO	State : Create + R Owner : Samantha	eview Drop files here
C	Modified : May 20, 2016 2	::59:34 PM
MCO-0022699	🥖 🏊 🔳 💸	-
History	Туре	MCO
Lifecycle	Name	MCO-0022699
Affected Part Revisions	Description	
Route	Policy	MCO Standard
	Start Date	Dec 31, 2049 12:00:0
MCO Impact Report		

User has to enter Start Date (this is a mandatory field) and select Done

Edit Details

*.				
	Fleids in red Italics are required			^
Туре	MCO			
Name	MCO-0022699			
Description				.:
Policy	MCO Standard			
Start Date	Dec 31, 2049			
Target Start Date		December 🔹	2049 🔻	
-		Su M T W	2047	^
Originator	Samantha	28 29 30 1	2048	-
Manufacturing Responsibility	Malta	5 6 7 8 12 13 14 15 1	2049	
Manufacturing		19 20 21 22 2	2050	-
Responsibility Timezone	(GMT+01:00) Amsterdam, Berl	26 27 28 29 3 2 3 4 5	2051	
Distribution List		. <u>Clear</u>	2052	
Approval List		. <u>Clear</u>	2016	¥
Responsible Manufacturing	Unansigned	Close	\sim	
			Done	Cancel

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Status	Released			103

User can complete also other fields:

- Target Start Date: optional field: MBOM Engineer user can define a Target Start Date that has to be validated by a Senior MBOM Engineer, before move the MCO to state Implemented.
- Responsible Manufacturing Engineer and Responsible Senior Manufacturing Engineer: users that are notified when MCO moves from state Create to state Review.
- Distribution List: users contained in Distribution List are notified when MCO is implemented.
- Approval List is an optional field and is used to define an approval process: MBOM Engineer can select the route template that contains the list of people to participate in the approval.
- Modify all BOMs (single CN): default value is "YES"
 The attribute is used only for MCO related to changes. In this case, after the MCO state reaches the state Implemented, the system will create one Change Notice related to all BOM containing the previous part revision (in CMS, the Change Notice will be created with mode "*ALL"). In order to create a Change Notice for each BOM that contains the previous part revision, the user has to update the attribute value to "NO"

Approval List is an optional field and is used to define an approval process: select the route template that contains the list of people to participate in the approval; could be different from organization, plant or part type

Search Refinement	S	Search Results Results: 3					
Search Q	¥	E 🔈 - 📰 -	⋸ 🖦 - 📴 - 📰 - 💭 🏹 💢 🛠 -				
Case Sensitive	1	Name 🔺	Rev	Description	Availability	Organization	
Limit to 100 results	C) 嶙 Approve CN	1	Approve Change Notice	Enterprise	Company Na	Ð
Туре	^ C) 🤹 Approve EBOM	1	Approve EBOM	Enterprise	Company Na	₽
Route Template	C) 🤹 Approve MBOM	1	Approve MBOM	Enterprise	Company Na	Ð
Name							
Revision							
Highest My State	<	>	<				>
Policy	*					Sub	omit

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Status	Released			104

Step 3 Approve MCO

MCO Coordinator user has to promote to state Implemented using icons contained in MCO header or Lifecycle command

Drop Images here MCO-0016452	000007070: add Raw Material State : Implemented Owner : Corporate Modified : 2/19/2016 2:45:55 PM
MCO-0016452	Lifecycle
History	MCO-0016452 rev : Lifecycle
Lifecycle	
Affected Part Revisions	
Route	Create — Review — Released — Implemented
MCO Impact Report	
Related MCOs	
Related Change	
Envolved MBOMs	

If MBOM Engineer has defined an Approval List,



If an Approval List is defined, the people contained in Approval List are notified to participate in the approval. When all people involve approve the task, the MCO state is moved to Released and MBOM Engineer is notified. MBOM Engineer can move the MCO state from Released to Implemented.

The following rule governs MCO approval:

- If MBOM contains parts that are extended to same Manufacturing Plant with a different MCO not yet implemented, the Start Date related to parent part MCO has to be defined after the Start Date related to sub-component MCO.

Version	5	Date:	28-Nov-2017	
Status	Released			105

MBOM11 Create and update Finished Products

Purpose	Engineer users create BOM for Product and for Packaging; Finished	Status	Define
	Product has to be created by MBOM Engineer		
Stakeholders	MBOM Engineer		
Beginning	EBOM for Product is complete; EBOM for Packaging is complete		
Interactions	MBOM Engineer searches for part number to publish, creates a part numb	per classifie	d as Finished
	Product, creates and approves the EBOM.		
End	EBOM for a Finished Product is created		
Constraints	None		

Create new Finished Product

When a Customer requests for a new product, a RFQ process is started; If RFQ is approved and the PRF is approved, Engineer can create the EBOM for a new product.

When Engineer completes and approves the EBOM, MBOM Engineer has to create the Finished Product part number and create the EBOM with Product part number.

Product definition

Step 1 Search for new Product part number

MBOM Engineer can recognize when a new Product part number is approved using the "Parts to Publish" table. Engineer can also notify MBOM Engineer users with current process (using application outside PLM).

	 Collaboration and Approvals 	Parts to Publish Parts to	Complete MCOs	Man	ufacturing Par
	Home		- 🔜 🕜 🏹 😫	画	×.
	Home RFQ User	□ Name 🔺	Classification	Rev	Description
	Home Engineering	00001164	РСВ	00	housing
	Home Change	00002654	Packaging	00	Packaging Switch 3
	Management User	00003662	Product	00	BRAKE DUAL CCT 3.5 MM
	Home Manufacturing	□ 👪 1.52779GRY	Finished Product	00	SUB ASS BEZEL
		1.551106		00	JLR START STOP SWITCH
	Shortcuts	1.553094	Finished Product	00	JLR SPOILER
1	Collections	1.750202	Finished Product	00	MITSUBISHI STEERING-L6

User can search for part number classified as "Product"

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User can also refine the table selecting only parts classified as "Packaging"



Step 2 Add to Clipboard the Product part number

Drop Images here Part (00)	State : Review ← Owner : Samantha Modified : May 20, 201	Approved H	Publish	Drop files here
00003662 00	Properties	Material Par	ts CMS Inf	ormati
Bill Of Materials	A A A A A A A A A A A A A A A A A A A	Ap 🔟 📔		*
Change Management	Name	00003662	Revision	00
Specs & Documents		Samantha		Мау
Related Parts	Originator	Grima	Originated	20, 201

Finished Product creation

Step 1 Create new Finished Product

User has to select "Create Parts" command in "Home Engineering User"

 Collaboration and Approvals 	My Parts Parts to Approv	ve Sketch to EC P
Home		
Home <u>RFQ User</u>	Name 🔺	Туре
Home Engineering	00003652	EC Part
Home Change	1.453050	EC Part
Management User		
Home Manufacturing		

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Status	Released			107

Create Part			
🚱 🔆 -			
	Fleids in red italics are required		
Туре	Part	Policy	EC Part
AutoName Series	Part Number 🗸	Number of Parts	1
			Done Cancel

Step 2 Select policy "EC Part" and select Done

Step 3 Select new parts from "My Parts" tab

 Collaboration and Approvals 	My Parts Parts to Approv	ve Sketch to EC Par	rt My CA
Home			
Home RFQ User	Name 🔺	Туре	Rev Descri
Home Engineering	00003652	EC Part	00
Home Change	00003672	EC Part	00
Management User	1.453050	EC Part	01 BRAK

Step 4 Complete the information

Select Edit icon and complete the information; select Done when completed

mounieu.	. may 20, 1	2010 0.57.0	00 - 10 - 1	
_				

	mounicu . may 20, 2010 0	0.57.00 PM	· · · · ·
00003672 00	Properties	Material Parts	CMS Informatio
Bill Of Materials		≽ 🔟 📔 🕻	7 😪 🔆 -
Change Management	Name	00003672	
Specs & Documents	Originator	Samantha G	ima
Related Parts	Part Classification	-	
	Description		

Version	5	Date:	28-Nov-2017					
Status	Released			108				
Properties	Material Parts	CMS Information	Lifecycle	Where Use	d Revisio	ons Versions	>>	
------------------------	------------------------------------	-----------------	-----------	-----------	--------------------------------	--------------	--------	----------------------
	≫-							
	Fields in red Italics are required							
Name	00003672				Revision	00		State
Originator	Samantha Grima				Originated	May 20, 2016		Modified
Part Classification	-			¥	Quality Release			
Description	BRAKE DUAL CCT 3.5	MM						
Design Purchase	Design V				Long Lead Time Component	FALSE V		
End Item	Yes 🗸				CMS Part Status			
Technical	\smile							
Net Weight		0.0			Gross Weight		0.0	Net Weight UOM
Carry Over					Description		\sim	
							Done	Cancel

The user has to update the field "End Item" to "Yes" (it's necessary before publishing the part)

Step 5 Classify the part as "Finished Product"

About classification, see "CBOM and EBOM Use Cases" document.

00003672 00	Properties Ma	aterial Parts CMS Information	Lifecycle Wh	iere Used Rev	visions
Bill Of Materials	🖉 🔊 🖣 🍫	• 🔟 🔲 🗔 🚱 🔆 -			
Change Management	Name	00003672	Revision	00	St
Specs & Documents	Originator	Samantha Grima	Originated	May 20, 2016	Mo
Related Parts	Part Classification	-	Quality Release		
Collaboration	Description	BRAKE DUAL CCT 3.5 MM			
Manufacturing Details	Design Purchase	Design	Long Lead Time Component	FALSE	
Vendor Part Numbers	End Item	Yes	CMS Part Status		
CMS Information	Technical				
Tool Parts	Net Weight	0.0	Gross Weight	0.0	Ne
Referenced By	Carry Over Parts		Remarks		
Classification PowerView	Similar Parts				
Issues	Obstitution				
Related Change Notices	Path	Technical Classification → Finished	d Product		
	Finished Product				
	Einished Dreduct				

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Step 6 Complete EBOM with Product part number

About Bill of Material management, see "CBOM and EBOM Use Cases" document.

	Drop 00003672 E Images Part (00)	BRAKE DUAL CCT 3.5 MM State : Owner : Modified	Preli Sama : May	minary ntha 20, 20	16 6:42	Review	Drop files here					(令) (1)	Ø
	00003672 00	3672 00 EBOM EBOM Common MBOM Plant Specif Where Used Markups											
0	Bill Of Materials	🚍 - Reports - 🛛 🗶 🛓 🚅 🏞 🔽 🚱 🔲 🚳 🚳 Markup - 🥑 🙈 🔐 Change - » 拱 - 💷 - »											
	Change management	Mass Update	1									Save	Res
	Specs & Documents									1	1		
	Related Parts	✓ Name	4	é		Туре	State	Rev	F/N	Qty	U of M	Description	De
	Collaboration	■ ■ ■ 00003672				EC Part	Preli	00		\sim	PCS	BRAKE DUAL CCT 3.5 MM	De
	Manufacturing Details	🕀 🔄 👪 00003662				EC Part	Appr	00	1	150.0	CS	BRAKE DUAL CCT 3.5 MM	De
	Vendor Part Numbers									\sim			

Version	5	Date:	28-Nov-2017	
Status	Released			110

Create new Finished Product by copy

Customers can request for a product, already in production phase, with a different packaging size. In this case, the MBOM Engineer has to create a new Finished Product part number composed by the same Product part number and a new Packaging part number.

In order to create a new Finished Product, the MBOM Engineer can clone an existing Finished Product and update the EBOM replacing the previous Packaging part number with a new one. When new Finished Product EBOM is completed, the new part revision can be approved and published.

Packaging definition

Step 1 Search for new Packaging part number

The new Packaging part number has to be created and approver by Packaging Engineer; MBOM Engineer can recognize when a new Packaging part number is approved using the "Parts to Publish" table. Packaging Engineer can also notify MBOM Engineer users with current process (using application outside PLM).



User can search for part number classified as "Packaging"

User can also refine the table selecting only parts classified as "Packaging"

Parts to Publish - Refinemen	ts 🥐	Parts to Publish	Parts to Complete	MCOs	Manufacturing Par
▼ Name		a 🗖 🖉	📑 • 📰 • 🔜 (272	▦ і 🎗 -
00002654 (1)		🗌 Name 🔺	Classific	cation 😽 Rev	Description
 Classification [Blank] (146) Finished Product (26) PCB (1) Packaging (1) Rev 00 (1) 		00002654	Packagin	ıg 00	Packaging Switch 3
Version	5	Dat	e:	28-Nov	-2017
Status	Released				111

Drop Images here Part (00)	Packaging Switch 3	State : Review Approved Publish Owner : MarioP Modified : May 11, 2016 11:35:41 PM			
00002654 00	^ Properties	Material Parts	CMS Inform	nation	Lifec
Bill Of Materials	A A A A A A A A A A A A A A A A A A A	A 🔟 📋		§-	
Change Management	Name	00002654	Revision	00	State
Specs & Documents				May	
Related Parts	Originator	Mario Pullicino	Originated	11, 2016	Modif

Step 2 Add to Clipboard the Packaging part number

Finished Product creation

Step 1 Search for existing Finished Product

User has to search for existing Finished Product

Drop Images here B Part (00)	BRAKE DUAL CCT 2.5MM	State : Publish Owner : Corporate Modified : May 3, 2016 2:59:1	
1.453050 00	Properties Ma	terial Parts CMS Infor	
Bill Of Materials	🔊 🖣 🎭 💷	📔 🗔 🔇 🔆 -	
Change Management	Name	1.453050	
Specs & Documents	Originator	Joseph Zammit	
Related Parts	Part Classification	-	

Version	5	Date:	28-Nov-2017	
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Step 2 Select "Create Part Clone" icon

User has to select the AutoName checkbox and select Done; the selection of checkbox EBOM will copy the EBOM to new part number

1.453050 Clone Par	rt
🚱 🔆 -	
	Fields in red Italics are required
Clone Based On	1.453050
Include Related Data	Alternates Attachments EBOM with Substitutes EBOM Equivalents Spare Parts Specification
Туре	Part
Part Name	AutoName
AutoName Series	Part Number 🗸
Policy	EC Part
Custom Revision Level	00
Part Family	Finished Product
Number of Parts	1
	Done Cancel

Step 3 Complete information and select Done

The system creates a new part number copying information and Bill of Material from previous part number.

	Images B Part (00) C	Owner : Samantha Nodified : May 20,	Uno Ites here 016 5:14:22 PM	
(00003652 00			
	Bill Of Materials	Droperties	Material Darte CMS Information Lifecycle Where Used Revisions Varsion	e History Images
	Change Management			s mistory images
	Specs & Documents	M	1 🌮 📖 🕘 🚅 💊 🏊 🖌	
	Related Parts	Name	Neus in real tables are required 00003652 Revision 00	State
	Collaboration	Originator	Samantha Grima Originated May 20, 20	016 Modified
	Manufacturing Details	Part	Quality	
	Vendor Part Numbers	Classification	- County Release	
	CMS Information	Description		
	Tool Parts	Design	Long Lead	
	Referenced By	Purchase	Component	1
	Classification PowerView	End Item	Yes V CMS Part Status	
	Issues	Technical		
	Related Change Notices	Net Weight	0.036 Gross Weight	0.0 Net Weight UOM
		<		
				Done Cancel

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The new part maintains the same classification of previous part number.

00003652 00	Properties Ma	aterial Parts	CMS Information	Lifecycle	Where Used Revisio
Bill Of Materials	🖉 🔊 🖣 🍫) 🗊 😩 🗖	1 😪 🔆 -		
Change Management	Name	00003652		Revision	00
Specs & Documents	Originator	Samantha Gri	ma	Originated	May 20, 2016
Related Parts	Part Classification	-		Quality Release	e
Collaboration	Description				
Manufacturing Details	Design Purchase	Design		Long Lead Tim Component	e FALSE
Vendor Part Numbers	End Item	Yes		CMS Part Statu	s
CMS Information	Technical				
Tool Parts	Net Weight	0.036		Gross Weight	0.0
Referenced By	Carry Over Parts			Remarks	
Classification PowerView	Similar Parts				
Issues	Cassification			_	
Related Change Notices	r th	Technical Cla	ssification → Finished	Product	
	Finished Product				

Step 4 Update and approve the Bill of Material

Using the EBOM functionalities (see "CBOM and EBOM Use Cases" document), MBOM Engineer can update the EBOM in order to replace the Packaging part number and updating the quantities.

EBOM	EBOM Common	М	BOM F	Plant S	pecif	Where	Used	Marku	ips			
_ R	eports 🗸 🔀		\$	- 🗸			3D M	arkup 🗸	•	💼 Ch	nange 🗸 » 📴 - 🔠 -	>>
Mass Upd	ate										Save	Reset
🗌 Name		4		Ë	Туре	State	Rev	F/N	Qty	U of M	Description	Desi
-	00003652				EC Part	Preli	00			PCS		Des
•	4 53050		ű	80 03J (80 00G 80 00A (EC Part	Publish	00	1	250.0	PCS	BRAKE DUAL CCT 2.5MM	Desi
•	● 453050P				EC Part	Publish	00	2	1.0	PCS-	BRAKE DUAL CCT 2.5MM	Desi
+ 🗆 🖩	00002654				EC Part	Appr	00	2	1.0	PCS	Packaging Switch 3	Desi

About Bill of Material management, see "CBOM and EBOM Use Cases" document.

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Revise a Finished Product

During Finished Product definition, usually the Packaging part number is defined during PDPLS Phase 4 when Product and Finished Product part numbers are already defined and published to CMS. In order to update the Finished Product Bill of Material, the MBOM Engineer has to create a new Finished Product revision and update the EBOM adding the Packaging part number. When Finished Product EBOM is completed, the new part revision can be approved and published.

Packaging definition

Step 1 Search for new Packaging part number

MBOM Engineer can recognize when a new Packaging part number is approved using the "Parts to Publish" table. Packaging Engineer can also notify MBOM Engineer users with current process (using application outside PLM).



User can search for part number classified as "Packaging"

User can also refine the table selecting only parts classified as "Packaging"

Parts to Publish - Refinements	Parts to Publish Parts t	o Complete MCOs	Manufacturing Par.
▼ Name	🖉 🗔 - 🗔 - 🗄	I- 🔜 🖉 🏹	3 🏽 🛠
00002654 (1)	Name 🔺	Classification 🖓 Re	v Description
 Classification [Blank] (146) Finished Product (26) PCB (1) Packaging (1) Rev 00 (1) 	00002654	Packaging 00	Packaging Switch 3

Version	5	Date:	28-Nov-2017	
Status	Released			115

Drop Images here Part (00)	Packaging Switch 3	State : Review Owner : MarioP Modified : May 11	 Approved , 2016 11:35:41 F 	→ Pub	lish
00002654 00	^ Properties	Material Parts	CMS Inform	mation	Lifeo
Bill Of Materials	A A A A A A A A A A A A A A A A A A A	A 🔟 📋		8-	
Change Management	Name	00002654	Revision	00	State
Specs & Documents				May	
Related Parts	Originator	Mario Pullicino	Originated	11, 2016	Modif

Step 2 Add to Clipboard the Packaging part number

Finished Product revision

Step 1 Search for existing Finished Product

User has to search for existing Finished Product and select Revisions tab

Drop Images here Part (00)	BRAKE DUAL CCT 2.5MM State : Owner : O Modified :	Publish Corporate May 20,	e 2016 5:14:22 PM		
1.453050 00	Properties Material Part	s (CMS Information Lifecycle	Where Used Revisions	Vers
Bill Of Materials	🔹 🖉 🗔 🐻 · 📰 ·		7 😪 📰 🔆 -		
Change Management				Turne	Davis
Specs & Documents	Name 🔺	Rev	State	туре	Revis
Related Parts	1.453050	00	Publish	EC Part	
Collaboration					

Step 2 Select "Create Revision" command

The command is available only for part classified as "Finished Product"; the user has to enter a revision comment (mandatory) and select Done (the new revision is retrieved by the system).

Revise		
🚱 🔆 ·		
	Fields In red Italics are required	^
Туре	Part	-
Part Name	1.453050	
Policy	EC Part	
Custom Revision Level	01	
Basic		
Revision Comments	New revision for packaging definition	-
Description	BRAKE DUAL CCT 2.5MM	•
¢	Done	

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Step 3 Update and approve Bill of Material

Modified : May 20, 2016 5:14:22 PM 1.453050 00 Properties Material Parts CMS Information Lifecycle Where Used Revisions Versions >> **Bill Of Materials** Q. 🗐 🔁 - 🎫 - 🗾 7 -≪ * 0 -Change Management Rev State Туре Name 🔺 **Revision Comments** Specs & Documents 1.453050 00 Publish EC Part Related Parts 1.45305 EC Part 01 Preliminary New revision for packaging d Collaboration Manufacturing Details

The Revision table is updated with new Finished Product revision; user has to select the new revision

Select "Bill of Materials" command, select EBOM tab and select Edit icon

Intered Transformed Transforme	wner : Samant odified : May 2	ha 0, 2016 5:49:37 PM	D fi	op les ere		
1.453050 01	EBOM	EBOM Common	n ME	BOM P	lant S	pec
Bill Of Materials		eports 🗸 🔀	1 1	1		¢
Change Management	Mass Upd	ate				
Specs & Documents		L				
Related Parts	Name		4	ĽΏ		Ту
Collaboration		1.453050				EC
Manufacturing Details					b	
Vendor Part Numbers		450050			03J (-

Using the EBOM functionalities (see "CBOM and EBOM Use Cases" document), MBOM Engineer can update the EBOM in order to add the Packaging part number

EBOM	EBOM Common	M	BOM F	Plant S	pecif	Routing	, v	Vhere Use	d Ma	rkups		
E. Re	eports 🗸 🔀		\$	- 🗸	(1)] 🛃 [3D M	arkup 🗸	9		iange - 🚿 🗖 - 🔡 -	>>
Mass Upd	ate										Save	Re
Name		4		:	Туре	State	Rev	F/N	Qty	U of M	Description	De
- 🖌 📑	1.453050				EC Part	Preli	01			PCS	BRAKE DUAL CCT 2.5MM	D
• 🗆 🖩	4 53050		ű	80 03J 80 00G	EC Part	Publish	00	1	250.0	PCS	BRAKE DUAL CCT 2.5MM	D
*	00002654				EC Part	Appr	00	2	1.0	PCS	Packaging Switch 3	D

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MBOM12 MML Parts to Complete

Purpose	In order to push information to CMS or to define MBOM, MML Engineer has to be enter or update CMS information related to Manufacturing and Logistic	Status	Define
Stakeholders	MML Engineer		
Beginning	EBOM is released, Plant is defined		
Interactions	User has to enter information		
End	Global and Plant information are defined and exported to CMS		
Constraints	None		

In order to push information to CMS, MML Engineer has to be enter or update CMS information; the users can complete the information using a specific function "MML Parts to Complete"

Complete information using table MML Parts to Complete

The table shows all parts that have been published and with information not completed, that is mandatory for CMS. The table doesn't contain information useful to group parts by EBOM or products; it's a flat list with all parts to complete.

The only information that can be used by MML Engineer users to recognize the parts with Bill of Materials is the columns Classification: if the part is classified as Finished Product, Product, Packaging and PCB means there is a Bill of Material.

Step 1 Select Part Number to complete

From "Home Manufacturing User" menu, select "MML Parts to Complete" command (the function is available only to users with role "MML Manager")

	V.S													
•	 Collaboration and Approvals 	MML Parts to Co	mp											
	Home	Complete Select	2omplete Select □ □ □ · □ □ · □ · □ · □ · □ · □ · □											
	Home RFQ User	□ Name △		Classification	Rev	Description	DesignPurchase	End Item		MML				
	Home Change Management User	00000324	e	Component	00.A	Housing C519	Design	Yes	MML					
(Home Manufacturing User	00000493	Ð	Component	00	SMD Res 1206 5% - Generic	Purchase	No	MML					
	Summary Page	00000641)	03	Ski Hatch Switch	Design	Yes						
	Issues Summary	00000651	Ð		01.B	Fold Flat Switch	Design	Yes	MML					
	Shortcuts	00000661	ē		01.A	Easy Load Switch	Design	Yes	MML					
	Collections	00001580	Ð		00	Packed Button Set 57302	Design	Yes	MML					
1	Subscriptions	00001666	Ð		00	TOT Clutch switch plunger	Design	Yes	MML					

In order to complete the information, the user can choose the following options:

- to enter the details related to Global and Plant information users can select the dedicate icon MML
- users can select also the hyperlink related to part number or the icon \square

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Icon "MML": form with plant information

Part 00002644 rev 00: Properties										
1 🛃 🚱	%.									
Part Number 00002644		CMS C Rule	ode							
Global Info										
Description 1	cription 1 Packaging Switch 2									
Description 2										
Description 3										
Units of Measure a	and Weight									
Unit of Measure	PCS - PIECE	ES	Net Weight		0.0	Net Weight UOM	KG			
Plant Info										
Plant Name		GL Code		GL Exp	ense Code					
🖆 Malta							Ð			

Part Number or icon : portal with all functions available to user (the system opens the part details form: user has to select tab "CMS Information" for Item Master information)

	Drop Images here Part (00)	Pa	ackaging Switch 2	State : Owner : Modified	Publish Corporate : May 19, 201	16 3:35:1	17 PM				62	
	00002644 00	^	Properties	Materia	I Parts	CMS Ir	formation	Lifecyc	le »			
	Bill Of Materials		/ 🔓 🗔	8. 3	€ -							
	Change Management		Part Number	00	002644		CMS Co	de Rule				
	Specs & Documents		Global Info									
	Related Parts		Description 1	Pa	ackaging Sw	vitch 2						
	Collaboration		Description 2									
	Manufacturing Details		Description 3									
۹	Vendor Part Numbers		Units of Measure	e and We	ight							
	CMS Information		Unit of Measure	P	CS - PIECES	3	Net Weig	pht	0.0	Net Weight UOM		KG
	Tool Parts		Plant Info									
	Referenced By		Plant Name		GL C	Code		GL Expens	e Code			
	Classification PowerView		🖨 Malta							¢		
	Issues											
	Deleted Observe	Υ.										

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Step 2 Enter CMS Plant information

In order to define the Plant information (the information that are specific for each plant), select the icon contained in the plants table

Resistor Part 00000493 rev 00: Properties										
🗟 🚷 🔆										
Part Number	00000493	CMS Code	Check MBOM Allow Export							
Item Master Exported		Routing Exported				BOM Exported				
Global Info										
Description 1	SMD Res 1206 5%	MD Res 1206 5% - Generic								
Description 2										
Description 3										
Units of Measure and	d Weight									
Unit Of Measure	PCS - PIECES	Net Weight		0.0	Net Weight UOM					
Plant Info										
Plant Name	CMS Part Status		GL Code		GL Expense Code					
i Malta										

The system opens a new window with all plant information; in order to update the information, select the Edit icon.

Plant Info				
I I I I I I I I I I I I I I I I I I I	A -			
Plant Name	Malta			,
Global Info				
Description 1	SMD Res 1206 5% - Generic			
Unit Of Measure	PCS - PIECES	Net Weight UOM		
Catalog Id		Commodity Category Code	-	
Shipping Volume	0.0	Shipping Volume UOM	PCS - PIECES	
Color Code	-			
Manufactured Item N	laster			
Planner Code	-			
Purchased Item Mast	ter			
Vendor Number	-	Vendor Part #		
Buyer Code	-			
Plant Info				

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¢

The user has to complete the information and select Done.

Plant Info	-	^	
3	710 PLASTICS - 710 PLASTICS AFTERMARKET - AFTERMARKET BAND AUTO - BAND AUTO		^
Plant Name	COMPLEX - COMPLEX		
Global Info	CONTI - CONTI		
Description 1	DONATELLA ? - DONATELLA ? FAMILY TOOL - FAMILY TOOL		
Unit Of Measure	FINISHED - FINISHED INACTIVE - INACTIVE		Net Weight UOM
Catalog Id	INSERT MOULDING - INSERT MOULDING LARA - LARA LM - ALFA 952 - LM - ALFA 952		Commodity Category - Code
Shipping Volume	LM - ALFA SEAT ADJ - LM - ALFA SEAT ADJ LM - AML - LM - AML	~	Shipping Volume UOM PCS - PIECES
Color Code	-	¥	
Manufacture	ed Item Master		
Planner Code	- 🗸		
			Done Cancel

The information can be completed also in more than one edit session.

The form is used also by MBOM Engineer; for MML Manager, only a sub-set of fields contained in the form are editable.

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Step 3 Export information to CMS

In order to export the Global and Plant information to CMS, the user has to close the window with Plant information and select the window with Global information

 Interpretation Interpretation<th>8:8111/3dspace/comm 5x 🛞 Pivotal 2015x 3d</th><th>non/emxNavigator.jsp?colla Ipassport 🧔 Methode2015</th><th>bSpace=GLOBAI</th><th>L 2015x Prod 🔕 Methode2</th><th>ල් 015x Prod P 🚉 Google Tra</th><th>🔍 Search</th><th>aDoc 2015x</th><th></th><th>ê 🛡</th><th>↓ â</th><th>ì ∕ 1 9</th><th><mark>6</mark> 🦗</th><th>- =</th>	8:8111/3dspace/comm 5x 🛞 Pivotal 2015x 3d	non/emxNavigator.jsp?colla Ipassport 🧔 Methode2015	bSpace=GLOBAI	L 2015x Prod 🔕 Methode2	ල් 015x Prod P 🚉 Google Tra	🔍 Search	aDoc 2015x		ê 🛡	↓ â	ì ∕ 1 9	<mark>6</mark> 🦗	- =
O Disabler L Cookies X Disabler Disabler Disabl	CSS• 🚺 Forms• 🗔 ERIENCE ENOVIA C	Images- 1) Information-	Miscellaneo	ous• 🦉 Outline• 🥒 Resi ENOVIA - Mozilla //emxNavigatorDialog.jsp	ze• 🎇 Tools• 🔳 View Sour a Firefox	rce• 🖪 Optic	ns•				Samantha Gri	ma <u> </u> 🛃	✓ <mark>२</mark> 🔺
 Collaboration and Approvals 	Parts to Publish	Part 00002644 rev 0	0: Properties										
Home Home RFQ User	0000257	Part Number	0002644	۲	E	NOVIA - M	ozilla Firefox			- 🕞			₽ ^
Home Engineering User	0000258	Global Info	0002044	(i) 10.1.68.28 :8111/3d	lspace/common/emxNavigate	or Dialog.jsp							8
Home Change Management User	B 0000259	Description 1 P	ackaging Switc	Plant Info							8001180 8001		9
Home Manufacturing User	0000260	Description 3	Weight	Plant Name	Malta						800 801		8
Issues Summary	0000262	Unit of Measure P	CS - PIECES	Global Info	Deckering Quilth 0						BORT BORTING BORT		8
Collections	0000263	Plant Info		Unit of Measure	PCS - PIECES		Net Weight UOM	KG			8087186 600 8001		8
Subscriptions	0000264	Plant Name	GI	Catalog Id			Category Code	•			800786 800 8001		8
4	0000266	Maita		Production Make Buy Code	Make						800 801		8
	0000268	14	Finished Pr	Receive To Loc			Repetitive Control	Ν			ROUTING	Complete	8
	0000270	13	Finished Pr	GL Code	EXP - SALES EXPORTS M	EM	GL Expense Code	M03 - MST MA	NUFACTURI	ED PARTS	8087186 480 8001		9
	Name 🛆		Classificati	Major Group Code Major Sales Code			linor Group Code linor Sales Code				uting BO	BOM	
	0000271	3	Finished Pr	Plant Part - Manufact Schedule Type	uring MRP		Production Multiplier	0.0			8001 8001 8007180	Complete	8
	1.550148	5	Finished Pr	Optimum Run Purchase Size	0.0		linimum Run Purchase Size	0.0					8
	1.556640	D		00 MCLAREN	P14 ROCKER BUTTON	Design	tes		Ŧ		8087186 600 9001		8
	1.55664	1		00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4		ROUTING BOOT		8
	1.556642	2		00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4		ano Bont		₽ ∨

The user has to select the "Export to CMS" icon contained in the toolbar

Part 00002644 rev 00: Properties								
Part Number	00002644		CMS C Rule	ode				
Global Info								
Description 1	Packaging S	witch 2						
Description 2								
Description 3								
Units of Measure a	and Weight							
Unit of Measure	PCS - PIECE	S	Net Weight		10.0	Net Weight UOM	KG	
Plant Info								
Plant Name		GL Code		GL Exp	ense Code			
📾 Malta							-	

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User has to confirm the CMS information export



If some mandatory information is missing or if there is a validation error during export, an alert is prompted

e Di	The following parts are not exported: 000007070 The following attributes are mandatory: GL Code (Malta) GL Expense Code (Malta) Prevent this page from creating additional dialogs
n n n	ОК

If part is exported correctly, a notification message is prompted

The following parts are exported: 00002644	
ОК	

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Maintain "MML Parts to Complete" table

The table "MML Parts to Complete" shows all parts that have been published; the table contains a column to show if a specific "Export to CMS" function has been completed.

 Collaboration and Approvals 	MML Parts to Comp.								
Home	Complete Select 🔲 🖓 🖌 🖉 🧏 🎇 🗸								
Home RFQ User	□ Name △		Classification	Rev	Description	DesignPurchase	End Item		MML
Home Change Management User	D 500000324		Component	00.4	Housing C519	Design	Vec	MMI	Complete
Home Manufacturing	□ <i>#</i> 00000493		Component	00.4	SMD Res 1206 5% - Generic	Purchase	No	MMI	Complete
User	D 00000641	_	Component	03	Ski Hatch Switch	Design	Yes	MMI	
Summary Page		_		04.0		Design			
Issues Summary				01.B	Fold Flat Switch	Design	Yes	MML	

When the MML information of a part is exported to CMS, the column "MML", related to the specific part, is changed to "Complete".

MML	Complete	
MML		
MML		
MML		

Only the MML Engineer can decide when all the MML information of a part is exported to CMS because an automatic trigger is not provided.

In order to "clean up" the table, removing the parts exported, the user can use the Complete Selected function: user has to select the parts completed and select the command Complete Selected; the parts selected are removed from the table content.

MML Parts to Co Complete Select	omp	2 7	7 🔮 ⅔-			
□ Name △			Classification	Rev	D	
00000324		₽	Component	A.00	Н	
□		⋳	Component	00	S	
00000641		⋳		03	S	
Version	5	Date:		28-Nov-2	2017	
Status	Released					124

MBOM13 PURCH Parts to Complete

Purpose	In order to push information to CMS or to define MBOM, Purchasing users have to be enter or update CMS information related to Purchasing department	Status	Define
Stakeholders	Purchasing users		
Beginning	EBOM is released, Plant is defined		
Interactions	User has to enter information		
End	Global and Plant information are defined and exported to CMS		
Constraints	None		

In order to push information to CMS, Purchasing users have to be enter or update CMS information; the users can complete the information using a specific function "PURCH Parts to Complete"

Complete information using table PURCH Parts to Complete

The table shows all parts that have been published and with information not completed, that is mandatory for CMS. The table doesn't contain information useful to group parts by EBOM or products; it's a flat list with all parts to complete.

The only information that can be used by Purchasing users to recognize the parts with Bill of Materials is the columns Classification: if the part is classified as Finished Product, Product, Packaging and PCB means there is a Bill of Material.

Step 1 Select Part Number to complete

From "Home Manufacturing User" menu, select "PURCH Parts to Complete" command (the function is available only to users with role "Purchasing" or "Senior Purchasing")

 Collaboration and Approvals 	PURCH Parts to Co		7 👩 VA						
Home			í 🔛 🎊 🗍						
Home RFQ User	□ Name △		Classification	Rev	Description	DesignPurchase	End Item		PURCH
Home Change Mana <u>gement Us</u> er	00000324	ē	Component	00.A	Housing C519	Design	Yes	PURCH	Complete
Home Manufacturing User	00000641	Ð		03	Ski Hatch Switch	Design	Yes	PURCH	
Summary Page	00000651)	01.B	Fold Flat Switch	Design	Yes	PURCH	
Issues Summary	00000661			01.A	Easy Load Switch	Design	Yes	PURCH	
Shortcuts	00001580	0		00	Packed Button Set 57302	Design	Yes	PURCH	

In order to complete the information, the user can choose the following options:

- to enter the details related to Global and Plant information users can select the dedicate icon PURCH
- users can select also the hyperlink related to part number or the icon \Box

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Icon "PURCH": form with plant information

Part 00002644 rev 00: Properties									
1 🛃 🚱	1 🗟 😪 🔆 -								
Part Number	Part Number 00002644 CMS Code Rule								
Global Info									
Description 1	Packaging S	witch 2							
Description 2									
Description 3									
Units of Measure a	and Weight								
Unit of Measure	PCS - PIECE	ES	Net Weight		0.0	Net Weight UOM	KG		
Plant Info									
Plant Name GL Code		GL Expense Code							
🖆 Malta							Ð		

Part Number or icon : portal with all functions available to user (the system opens the part details form: user has to select tab "CMS Information" for Item Master information)

	Drop Images here Part (00)	Pa	ackaging Switch 2	State : Owner : Modified	Publish Corporate : May 19, 2016	6 3:35:17 PM				02	
	00002644 00	^	Properties	Material	Parts	CMS Informatio	Dn Lifecyc	le »			
	Bill Of Materials		/ 🔓 🗔	Q 3	§-						
	Change Management		Part Number	00	002644	CMS C	ode Rule				
	Specs & Documents		Global Info								
	Related Parts		Description 1	Pa	ackaging Swi	tch 2					
	Collaboration		Description 2								
	Manufacturing Details		Description 3								
٩	Vendor Part Numbers		Units of Measure	e and Wei	ight						
	CMS Information		Unit of Measure	PC	CS - PIECES	Net We	ight	0.0 Net Weight UOM		KG	
	Tool Parts		Plant Info								
	Referenced By		Plant Name		GL Co	ode	GL Expens	se Code			
Rela Coll Man Venu CMS Tool Refu Cla: Pow Isst	Classification PowerView		🖨 Malta	-			-			¢	
	Issues										
	Deleted Observes	Υ.									

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Step 2 Enter CMS Plant information

In order to define the Plant information (the information that are specific for each plant), select the icon contained in the plants table

Resistor Part 00000493 rev 00: Properties												
🗟 😪 🔆 -												
Part Number	00000493	CMS Code	Rule Code	Check MBOM Allow Export								
Item Master Exported		Routing Exp	ported	BOM Exported								
Global Info												
Description 1	SMD Res 1206 5%	- Generic										
Description 2												
Description 3												
Units of Measure and	d Weight											
Unit Of Measure	PCS - PIECES	Net Weight	0.0	Net Weight UOM								
Plant Info												
Plant Name	CMS Part Stat	tus	GL Code	GL Expense Code								
📾 Malta												

The system opens a new window with all plant information; in order to update the information, select the Edit icon.

Plant Info			
I I I I I I I I I I I I I I I I I I I	A -		
Plant Name	Malta		
Global Info			
Description 1	SMD Res 1206 5% - Generic		
Unit Of Measure	PCS - PIECES	Net Weight UOM	
Catalog Id		Commodity Category Code	-
Shipping Volume	0.0	Shipping Volume UOM	PCS - PIECES
Color Code	-		
Manufactured Item N	laster		
Planner Code	-		
Purchased Item Mas	ter		
Vendor Number	-	Vendor Part #	
Buyer Code	-		
Plant Info			

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Plant Info			
🚳 🗟 🔆 -			
	Fields in red italics are required		^
Plant Name	Malta		
Global Info			
Description 1	Housing C519		
Unit Of Measure	PCS - PIECES	Net Weight UOM	G
Catalog Id		Commodity Category Code	- 🗸
Shipping Volume	0.0	Shipping Volume UOM	PCS - PIECES
Color Code	-		
Manufactured Item N	laster		
Planner Code	-		
Purchased Item Mas	ter		
Vendor Number	-	Vendor Part #	
Buyer Code	-		
Plant Info			× ×
			Done Cancel

The user has to complete the information and select Done.

The information can be completed also in more than one edit session.

The form is used also by MBOM Engineer; for Purchasing users, only a sub-set of fields contained in the form are editable.

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Step 3 Export information to CMS

In order to export the Global and Plant information to CMS, the user has to close the window with Plant information and select the window with Global information

 Interpretation Interpretation<th>28:8111/3dspace/commo</th><th>n/emxNavigator.jsp?collab assport 🧔 Methode2015:</th><th>oSpace=GLOBAI x 🧔 Methode2</th><th>L 2015x Prod 🕢 Methode2</th><th>C^e 015x Prod P 🗣 Google Tra</th><th>Q, Search anslate 🛞 Jav</th><th>aDoc 2015x</th><th>5</th><th>n 🖻 🛡</th><th>+ á</th><th>ì 4 9</th><th><mark>6</mark> 🦗</th><th>- =</th><th>=</th>	28:8111/3dspace/commo	n/emxNavigator.jsp?collab assport 🧔 Methode2015:	oSpace=GLOBAI x 🧔 Methode2	L 2015x Prod 🕢 Methode2	C ^e 015x Prod P 🗣 Google Tra	Q, Search anslate 🛞 Jav	aDoc 2015x	5	n 🖻 🛡	+ á	ì 4 9	<mark>6</mark> 🦗	- =	=
Disabler L Cookies Disabler Society	CSS+ 🔁 Forms+ 🖾 I ERIENCE ENOVIA Co	mages• (i) Information•	Miscellaneo	Dus• / Outline• / Resi ENOVIA - Mozilla	ze• 💥 Tools• 🔳 View Sour a Firefox	rce• 🖪 Optio	ns*				Samantha Grin	¹³ 🚺 🏕	✓ ②	2
 Collaboration and Approvals 	Parts to Publish	Part 00002644 rev 0	0: Properties											
Home Home RFQ User	00002575	Part Number 00	0002644	•	E	NOVIA - Me	ozilla Firefox			- 🗲			Ð	^
Home Engineering User	00002585	Global Info		(i) 10.1.68.28 :8111/3c	lspace/common/emxNavigat	torDialog.jsp							æ	
Home Change Management User	00002595	Description 1 Pa Description 2	ackaging Switc	Plant Info							800 8011 8001186 800		Ð	
Home Manufacturing User		Units of Measure and	Weight	Plant Name	Malta						A 8007 860		Ð	
Shortcuts	00002624	Unit of Measure Po Plant Info	CS - PIECES	Description 1	Packaging Switch 2		Net Weight LIOM	KC			ROUTING BOIT		Ð	
Subscriptions	00002644	Plant Name	GI	Catalog Id	103-112023		Commodity Category Code	-			ROUTING AND BOT		Ð	
4	00002664	📾 Malta		Plant Info Production Make Buy	Make						ROUTING SHO BOTI ROUTING		Ð	
	00002674		Finished Pr	Receive To Loc		F	Repetitive Control	N			ROUTING GOD	Complete	Ð	
	00002703		Finished Pr	GL Code Major Group Code	EXP - SALES EXPORTS M	IEM (GL Expense Code	M03 - MST M/	ANUFACTURE	ED PARTS	ROOTING SHO BOOT		Ð	
	Name △		Classificati	Major Sales Code	-	1	linor Sales Code				uting BOI	BOM Complete		
	00002723		Finished Pr	Schedule Type Optimum Run	MRP	1	Production Multiplier Minimum Run	0.0			ROUTING AND BOT	Complete	Ð	
	1.550145			Purchase Size	0.0	1	Purchase Size	0.0			✓ ROUTING SHO BOIT		F	
	1.556641			00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4		BOPT ROOTING GRO BOPT		e	
	□ 👪 1.556642			00 MCLAREN	P14 ROCKER BUTTON	Design	Yes		4		SRO BOT		Ð	~
													0	

The user has to select the "Export to CMS" icon contained in the toolbar

Part 00002644 rev 00: Properties											
Part Number	00002644		CMS C Rule	ode							
Global Info											
Description 1	Packaging S	witch 2									
Description 2											
Description 3											
Units of Measure a	and Weight										
Unit of Measure	PCS - PIECE	S	Net We	ight	10.0	Net Weight UOM	KG				
Plant Info											
Plant Name		GL Code		GL Exp	ense Code						
😅 Malta							-				

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User has to confirm the CMS information export



If some mandatory information is missing or if there is a validation error during export, an alert is prompted

e	The following parts are not exported: 000007070 The following attributes are mandatory: GL Code (Malta) GL Expense Code (Malta) Prevent this page from creating additional dialogs
r r	ОК

If part is exported correctly, a notification message is prompted

The following parts are exported: 00002644	
ОК	

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Maintain "PURCH Parts to Complete" table

The table "PURCH Parts to Complete" shows all parts that have been published; the table contains a column to show if a specific "Export to CMS" function has been completed.

 Collaboration and Approvals 	PURCH Parts to Co		7 63 9.X						
Home			1 🔛 🌾						
Home RFQ User	□ Name △		Classification	Rev	Description	DesignPurchase	End Item		PURCH
Home Change Management User	00000324	ē	Component	00.A	Housing C519	Design	Yes	PURCH	Complete
Home Manufacturing User	00000641	Ð		03	Ski Hatch Switch	Design	Yes	PURCH	
Summary Page	00000651	Ð		01.B	Fold Flat Switch	Design	Yes	PURCH	
Issues Summary	D B 00000661	Ð		01.A	Easy Load Switch	Desian	Yes	PURCH	

When the Purchasing information of a part is exported to CMS, the column "PURCH", related to the specific part, is changed to "Complete".

	PURCH
PURCH	Complete
PURCH	
PURCH	
PURCH	

Only the Purchasing users can decide when all the Purchasing information of a part is exported to CMS because an automatic trigger is not provided.

In order to "clean up" the table, removing the parts exported, the user can use the Complete Selected function: user has to select the parts completed and select the command Complete Selected; the parts selected are removed from the table content.

PURCH Parts to (;o		
Complete Select), (, · ·) 🗟		
□ Name △			
00000324			
☑ 00000641			
☑ 00000651			
rsion	5	Date:	28-Nov-2017
tus	Released		