

More4apps

Functional Impact Document

Bill of Materials Wizard

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11. Release 8.1.21 – 11/02/2024

This release includes various bug fixes and an enhancement listed below.

11.0 Digital Signatures now required

In efforts to keep our products as secure as possible we've recently updated our Digital Signatures. This Wizard is now more secure for you and provides better visibility for tracking and promptly fixing issues related to broken signatures. Moving forward, when you update your EBS Wizard, a More4apps digital signature will be automatically applied. This means that users may receive a message when copying worksheets from older versions. For more information on how to resolve this, check out the Security section of the [User Guide](#).

10. Release 8.1.15 – 03/10/2023

There are no functional changes in this version, only bug fixes.

9. Release 8.1.09 – 16/08/2023

This release includes Validate Concurrent Upload and significant performance improvements in the upload process, a change to the Cost Type LOV on the Ribbon, a new Inverse Usage column, and digital signatures.

9.1 Cost Types

Version: 8.0.19

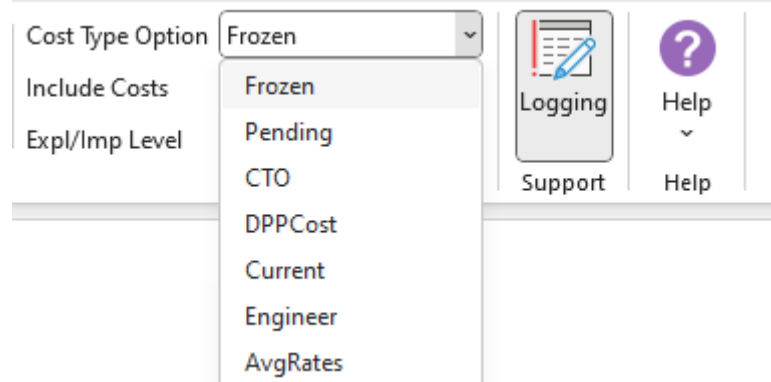
Date: 18/05/2023

Background

The Cost Type Option list of values was being populated on the ribbon and the right-click menu every Login. This caused a very slow Login when the list contained many Cost Types.

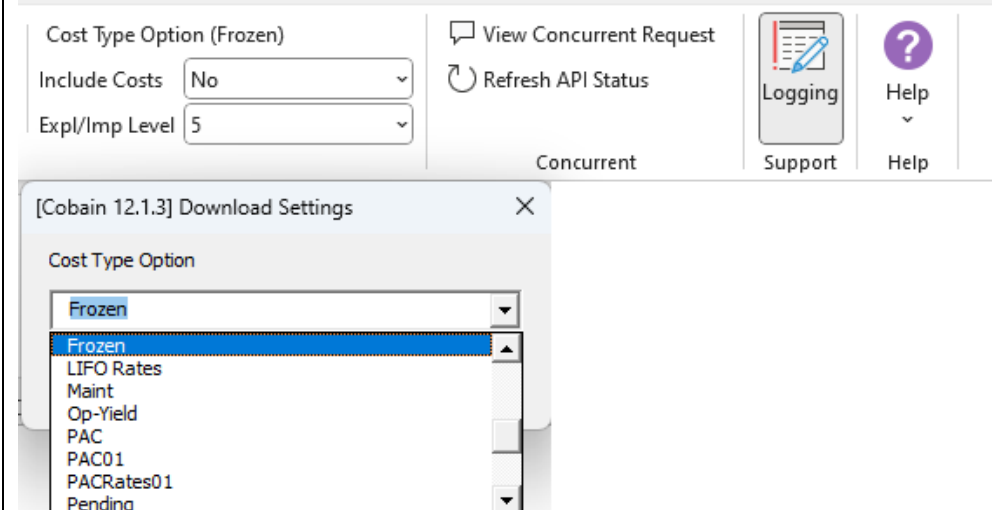
Old

Ribbon



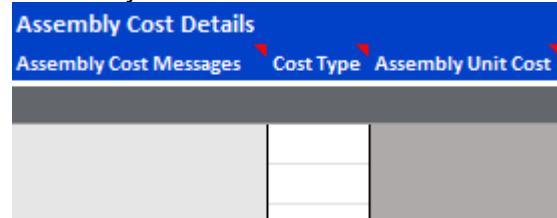
New

New Ribbon

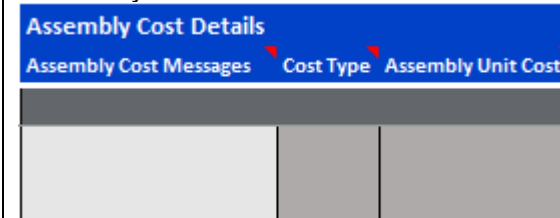


When 'Cost Type Option' is selected the Download Settings form appears. Select the Cost Type to download from the form.

Assembly Costs



Assembly Costs



Component Costs

Component Cost Details		
Component Cost Messages	Component Cost Type	Component Unit Cost

Component Costs

Component Cost Details		
Component Cost Messages	Component Cost Type	Component Unit Cost

The Cost Type columns have been changed to be Display Only to reflect the fact that Costs are not uploaded.

9.2 Validate Concurrent Upload

Version: 8.0.16

Date: 09/05/2023

Background

Large uploads from the Wizard can be slow depending on the structure of the data to be uploaded. The slowest data structure to load is where there is one header to one child. To address this problem a new upload method has been implemented - Validate Concurrent.

How does this method differ from a normal Upload

Normal Method:

Validate and Upload

Validation: Validates all the data that will be uploaded

Upload: Uploads, processes and returns results header by header

Validate Concurrent:

Validation: Validates all the data that will be uploaded

Upload: Loads all the data to the server and starts a concurrent process to process the data

Return Results: Manual Refresh from ribbon button 'Refresh API Status' will return the results for all data if the concurrent job has finished running.

Pros/Cons

Cons:

Return results requires an extra step

Return results rely on sheet data not being manipulated

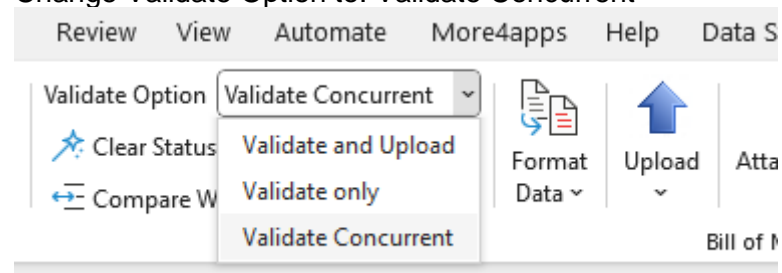
Pros:

Loads Large data sets more quickly

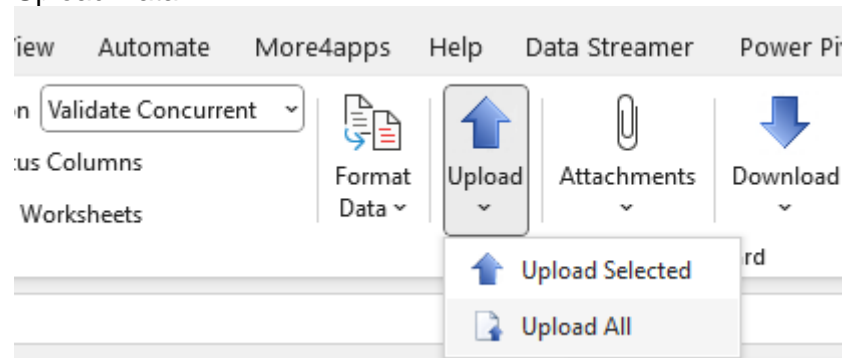
Separates API server processing from Wizard processing.

Example Upload Process

Change Validate Option to: Validate Concurrent



Upload Data



Page 8



The black arrows point to the differences between a 'Validate Concurrent' upload and a 'Validate and Upload' upload. They are described here:

The processing form shows that a Concurrent Request has been sent to the Manager.
Cell B7 stores the concurrent request ID. This Request ID is required to return upload results once the concurrent job has completed.
The status columns display the status of 'Pending'. This is to indicate that the data has been uploaded using the 'Validate Concurrent' upload method. The results of the concurrent job have not been returned to the sheet.

Check to see if the Concurrent Request has finished (Optional).

As pictured below:

Click on the 'View Concurrent Request' button in the Ribbon to display the Requests Form.
You can see Request 7499014 is complete.

Option Cost Type Option 
 Common Components Include Costs 
 Effective Date (09-Mar-2023 13:57:04) Expl/Imp Level
 Concurrent

[Cobain VIS10 12.1.3] Requests - MFG

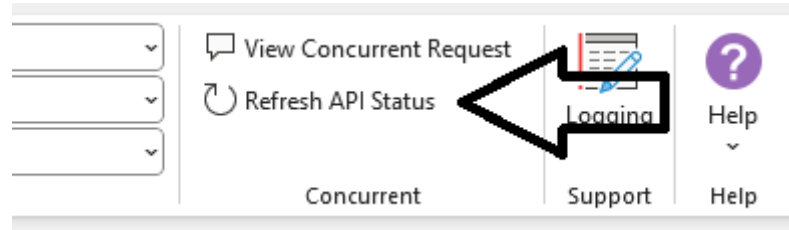
Search by Request ID: Request Name:

Request Id	Name	Parent	Phase	Status	log	out	Param
7499047	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7499026	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7499014	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7499013	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7498972	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7498959	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7498933	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7498932	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12303
7498649	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12301
7498643	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12301
7498253	More4Apps Background Process		Completed	Normal	<input type="button" value="log"/>	<input type="button" value="out"/>	12301

Retrieve Requests for last days.

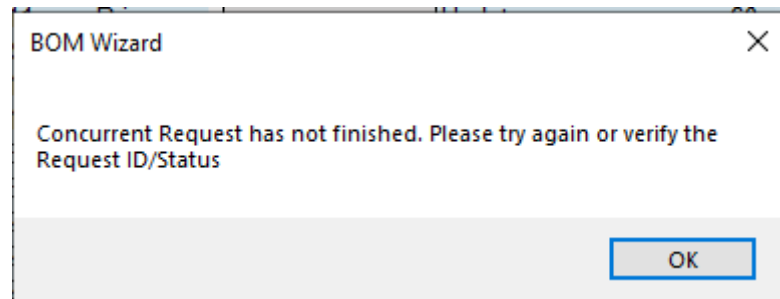
Return the results to the sheet.

Click on the 'Refresh API Status' button in the ribbon.



Sheet Description after the Refresh Action has been completed.

If the Request has not completed the sheet will not be updated and you will receive the following message:



If the Request has completed the results will be returned to the sheet as pictured below?

Bill of Materials 7499014

Upload Results				Header					Main
Upload Status	Assembly Co's	Attachment	Component Status	Header Messages	BOM Upload Action	Inventory Org Code	Assembly	Alternate	Component Message
Default Values				Update					Update
Accepted			Accepted		Update	M1	NS005	Primary	Upd
Accepted			Accepted		Update	M1	NS005	Primary	Upd
Accepted			Accepted		Update	M1	NS006	Primary	Upd
Accepted			Accepted		Update	M1	NS006	Primary	Upd
Accepted			Accepted		Update	M1	NS008	Primary	Upd
Accepted			Accepted		Update	M1	NS008	Primary	Upd
Accepted			Accepted		Update	M1	NS008	Primary	Upd
Error			Error		Update	M1	NS-NEW_EF	Primary	API Error: You ca Upd
Accepted			Accepted		Update	M1	NSTEST400	Primary	Upd
Accepted			Accepted		Update	M1	NSOption100	Primary	Upd
Accepted			Accepted		Update	M1	NS-101	Primary	Upd
Accepted			Accepted		Update	M1	NSIMP07	Primary	Upd
Accepted			Accepted		Update	M1	NSIMP07	Primary	Upd

Recommendations

Keep uploads to less than 10,000 rows.

If larger uploads are required split them into multiple uploads of 10,000 on different sheets.

Don't delete or add rows or manipulate the sheet when it is in the pending state. This will cause the return results to be returned to the wrong rows.

Do not interrupt excel during the upload process or the refresh process. If need to use excel during this time do so in a new/different excel session.

Other considerations:

Uploads (on different sheets) can be performed while waiting for the concurrent job to finish.

Do not perform multiple uploads on one sheet - unless you performed a successful refresh.

Data can be refreshed at a later date.

You will not be prompted to load attachments. To load attachments set this off manually AFTER the concurrent request has completed and you have refreshed the sheet.

The client PC may be subjected to significant resource use. We have seen RAM usage of 3-6GB and CPU usage up to 60%.

9.3 Inverse Usage Column added

The "Inverse Usage" column in the Component Section lets users enter Component Quantity as an inverse quantity, overriding the direct entry in the "Qty Per Assembly" column. If an Inverse Usage value is provided, it will calculate and replace any existing "Qty Per Assembly" value. If no Inverse Usage is entered, the "Qty Per Assembly" value remains unchanged. If both columns are empty, a default value of 1 will be applied to "Qty Per Assembly."

The image below shows various valid scenarios.

Component Item Type				Date Effectivity
Inverse Usage	Qty Per Assembly	Basis Type	Effective From	
Purchased item	1	1	Item	18/08/2020 11:52
		1	Item	18/08/2020 12:14
Purchased item	0.1801802	5.55	Item	18/08/2020 11:53
Purchased item	0.06666666	15	Item	18/08/2020 11:53
Purchased item		25	Item	18/08/2020 11:49
Purchased item	0.1666667	6	Item	18/08/2020 11:49
	0.125	8	Item	18/08/2020 12:13

9.4 Digital Signatures now required

In efforts to keep our products as secure as possible we've recently updated our Digital Signatures.

This Wizard is now more secure for you and provides better visibility for tracking and promptly fixing issues related to broken signatures.

Moving forward, when you update your EBS Wizard, a More4apps digital signature will be automatically applied. This means that users may receive a message when copying worksheets from older versions. For more information on how to resolve this, check out the Security section of the [User Guide](#).

8. Release 7.2.36 – 20/01/2023

This release includes various bug fixes.

7. Release 7.2.34 – 05/12/2022

This release includes various bug fixes and two enhancements listed below.

Whilst we at More4Apps have tried to maintain the same look and user interaction, some functionality may have been modified.

7.1 'New Effective From' Column Added

Version: 7.2.29

Date: 11/11/2022

The 'New Effective From' column has been added to the Date Effectivity subsection of the Components section. This column gives the user the ability to update an Effective From date/time of a Component.

[illegible]

[Gilmour 12.2.3] Manufacturing BOM Component

Inventory Org Code: M1 Assembly NS01 Std Item Component Upload Action:

Revision: A Alternate Primary Assembly UOM: Ea

Component: 40

Item Seq: 1 Operation: - Basis Type: Item

New Operation: Qty Per Assembly: 1 Component Revision: Component UOM:

Component:

Component Details

Date Effectivity Unit Effectivity Component Details Material Control Order Management Shipping Information

Effective From: New Effective From:

Effective To: Implemented:

Component Delete Group:

7.2 Download Filter Batch Size Added

Version: 7.2.19

Date: 04/05/2022

When downloading very large amounts of data users reported hitting an Oracle timeout. To prevent this from occurring, we have added a new download settings feature which allows downloads to be split into smaller batches.

The following 'Download Settings' form opens:

6. Release 7.2.17 – 06/04/2022

6.1 New Package

Version: 7.2.11

Date: 31/03/2022

This release has an updated Package Body.

5. Release 7.2.10 – 10/02/2022

5.1 Engineering Mode

Version: 7.2.00

Date: 13/12/2021

A new Engineering Mode has been added which gives the user the ability to create and update Engineering Bill of Materials for all sections in the Engineering Bill.

[Cobain VIS10 12.1.3] Download

Download | Settings

Choose Download: GL Journals

Query Set Description: GL Journal Header and Line

Journal_Header | Journal_Line | GL_Account

AND | JE SOURCE | =

PERIOD > 'Jan-97'
AND CURRENCY = 'USD'

Download | Cancel | Clear Filters

5.1 Miscellaneous Updates

Version: 7.2.10

Date: 09/02/2022

Extension package has been upgraded.
Upload performance has been improved.

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4. Release 7.1.48 – 24/06/2021

4.1 Update	
Version: 7.1.48	Date: 17/06/2021
There are no functional changes in this version, only bug fixes and enhancements to the code. You can still use your current template worksheets in the new version.	

3. Release 7.1.29 – 25/03/2020

3.1 Cost Rollup Report Print Request Option	
Version: 7.1.20	Date: 04/03/2021
A new Cost Roll-Up report option has been added to Bill of Material Wizard which gives the user the choice to send a print Cost Rollup report request to Oracle EBS from the Wizard. The cost rollup report option is available on the sheet and on the data form as shown below:	

[illegible]

Bill of Material		Revision	
Assembly			
Inventory Org Code	<input type="text"/>	BOM Upload Action	<input type="text"/>
Assembly	<input type="text"/>		<input type="text"/>
Alternate	<input type="text"/>		
Exploder Level	<input type="text"/>	Assembly Item Type	<input type="text"/>
Assembly UOM	<input type="text"/>		
Common Assembly Org	<input type="text"/>		
Common Assembly	<input type="text"/>		<input type="text"/>
Enable Attributes Update	<input type="text"/>	Assembly Delete Group	<input type="text"/>
Supply Chain Cost Rollup			
Roll Up Costs	<input type="text"/>	Cost Type For Rollup	<input type="text"/>
Include Cost Rollup Report	<input type="text"/>		
Ok		Row # 14	Cancel

The processed Cost Rollup report can be viewed and printed from Oracle Request.

2. Release 7.1.14 – 30/10/2020

This is a major release of Bill of Materials Wizard which has significant changes and performance updates.

It is advisable to undertake comprehensive testing before migrating to this release.

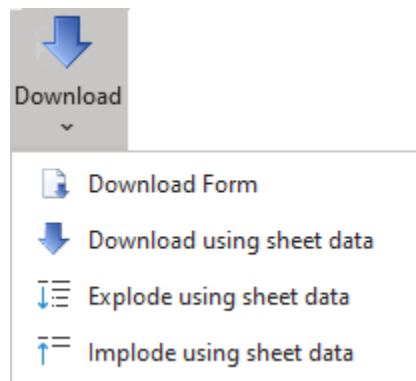
This release requires a package update. The new package is not backward compatible to 7.0.0 but the new package is compatible with the non-common Bill of Materials version.

2.1 Explode/Implode by Sheet

Version: 7.1.12

Date: 31/08/2020

Explode and Implode using sheet data functionality has been added to the Download button on the ribbon.

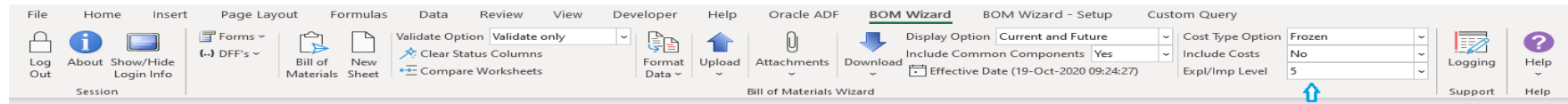


- Both Explode and Implode using sheet data functionality will take input from the Assembly column.
- Both Explode and Implode using sheet data does not require Org but Org can be used to filter the results.
- Multiple Explode/Implode functionality is available by the sheet download.

2.2 Explode/Implode Level on the Ribbon

Version: 7.1.12

Date: 31/08/2020



- The Explode/Implode Level has been removed from the Download form and added to the ribbon.
- The Explode/Implode Level will work with the Download form and Sheet for Explode and Implode actions.

1. Release 7.0.0 – 25/03/2020

Whilst we at More4Apps have tried to maintain the same look and user interaction, some functionality has been modified. You **cannot** use your previous template/worksheets in this new version as the structure of the Wizard has changed with the introduction of Modes and data layout changes.

Note: Any macros used to write data to your current worksheet will need to be updated. If More4Apps previously supplied your macros, please log a support call to have your macros updated.

This release enables templating to better control access to functions with the Wizard and the default behavior of columns. System Administrators may wish to take advantage of implementing this.

1.1 New Color Scheme

Version: 7.0.0

Date: 25/03/2020

More4Apps has implemented a new color scheme, see below for an example:

Bill of Materials								Header							
Upload Results								Header Messages							
Upload Status	Assembly Cost Status	Attachment Status	Component Status	Component Cost Status	Substitute Status	Operation Status	RefDes Status	BOM Upload Action	Exploder Level	Inventory Org Code	Assembly	Alternate	Assembly Description	Assembly UOM	Assembly Item Type
Default Values															
Accepted			Validated	Validated						M1	SB10299	Primary	Cover Assembly	Ea	Purchased item

1.2 New Wizard Ribbon






Version: 7.0.0

Date: 25/03/2020

The ribbon has been updated to improve usability.






BOM Wizard – Setup Ribbon

Old

Setup Visibility	Show at Start-up	▼	 Edit Template	 Export URL
Login Method	Standard Login	▼	 Mandatory Fields	 Import URL
Debug Upload	Debug off	▼	 Store Password	

BOM Wizard - Setup

New

Setup Visibility	Show at Start-up	▼	 Format Sheet	 Export URL
Login Method	Standard Login	▼	 Manage Templates	 Import URL
Debug Upload	Debug off	▼	 Store Password	

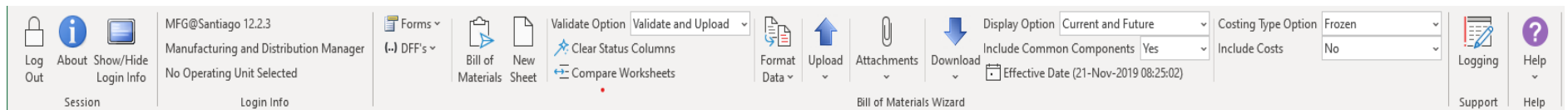
BOM Wizard - Setup

Note:

- 'Format Sheet' allows you to change the More4Apps logo to your Company logo and customize the Wizard's sheet.
- 'Store Password' enables you to password protect the spreadsheet.

- 'Manage Templates' replaces 'Mandatory Fields'.

BOM Wizard New Ribbon



Note:

- Mode/Template icon to access the four new modes Bill of Materials, Asset BOM, Maintenance BOM and Rebuildable BOM and User defined Templates.
- The 'Clear Status Columns' icon, clears the selected status columns.
- 'Format Data' function is added to duplicate parent rows based on child rows and removing duplicate parent rows respectively.
- 'Display Option' function is added to download components of bills based on the following choices: All, Current, Current and Future.
- 'Effective Date' function is added to be a User defined pivotal date that works in conjunction with the 'Display Option'.
- 'Include Common Components' function is added to optionally download source BOM components with the common BOM header information.
- 'Cost Type Option' function is added to select cost types when downloading Assemblies. It will download costings for assembly and components. It works in conjunction with the 'Include Costs' function.
- 'Include Costs' function is added as a control to download or not to download costs for assemblies and components.
- A new 'Logging' support icon, when activated will record upload/download information for support purposes.
- The 'Help' icon will direct you to user instructions and product details.

1.3 Change to 'Validation and Upload' Methods

Version: 7.0.0

Date: 25/03/2020

Previous Version

The method was a combination of Validate and Upload options.

Spreadsheet Data

Header							
Order Message	Order ID	Order Number	Status	Customer Name	Customer Number	Customer Contact	Order Type
			Entered	United Parcel	1003		Mixed

+

Load Option

Create/Update

Validate Option

Validate Only

Validate Only

Validate Commit

Rollup Costs

+

Load Option

Create/Update

Validate Option

Create/Update

Update Only

Create Only

+

Upload

Upload Selected


Upload All


New Version

The **Validate** option has been replaced with a new validate button. Note if you upload it will automatically perform all validation first.

'Load Option' and 'Validate Option' are combined ...Dropdown list.

Validate Option Validate only ▼


 Clear Status Validate and Upload


 Compare With Validate only


Upload is now a combination of a new 'Upload Action' column in the sheet and the Upload ribbon option.

RefDes	Status	Header	Header Messages	BOM Upload Action	Ex
				Create	

Mandatory.
Displays Upload action for each BOM. Update, Update All, Create, Create All

 Upload ▼

 Upload Selected

 Upload All

Details on Action Codes

The Upload Action column is not mandatory, but you need to select an action for the Wizard to process the data entered in that section. If the relevant 'Upload Action' column is left blank the Wizard will ignore the entire section for upload, except when the 'All' actions are used (Create All and Update All). See the table below for Action effects.

Action Column:

RefDes	Status	Header	Header Messages	BOM Upload Action	Ex
				Create	

Mandatory.
Displays Upload action for each BOM. Update, Update All, Create, Create All

The actions are self-explanatory but are detailed below:

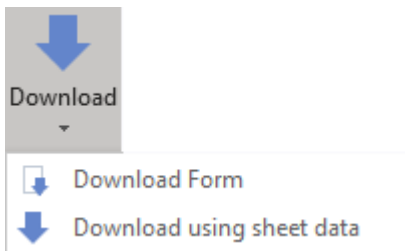
Action	Action Effect
Create	Will Upload Create for the relevant Section only
Create All	Will Create the relevant Section and all Sections below.
Update	Will update the relevant Section only.
Update All	Will update the relevant Section and all Sections below.

1.4 Changes in 'Download Form'

Version: 7.0.0

Date: 25/03/2020

The Download Form option has been enhanced. It has also been separated into a more logical Header and Line sections.



Fields that can be used:

[Santiago VIS9 12.2.4] Download Bill Of Materials

Download Criteria

Inventory Org Code

Assembly ...

Assembly To ...

Revision

Alternate

Category Set Inv.Items

Explode/Implode To Level 1

Category From ...

Category ...

Assembly Item Status

Include Bills with no assigned Category

Where Used

Component ...

Include Other Components within the Bill

Include Implemented Only Components

Costing Type Option

Cost Type

Download Cancel Explode Implode

- Download ECO bill function is no longer available.
- 'Assembly Item Status' field has been added to select the Assembly status from the LOV.
- 'Include Bill with no assigned Category' field has been added. Yes/No option to add or ignore Assembly items with no assigned Category being downloaded in conjunction with download of Items of selected Category /Category. e.g. Phantom Bills

1.5 Changes in Columns on the Data Sheet

Version: 7.0.0

Date: 25/03/2020

The Wizard columns and sections have been reviewed and enhanced as follows.

New Wizard:

- A default row on row 10 (Default Values) has now been added to Bill of Materials Wizard. This functionality allows easier integration of data into your data sets where duplicate values are required across multiple rows.

7	Bill of Materials								Header					
8	Upload Results								Header					
9	Upload Status	Assembly Cost Status	Attachment Status	Component Status	Component Cost Status	Substitute Status	Operation Status	RefDes Status	Header Messages	BOM Upload Action	Exploder Level	Inventory Org Code	Assembly	Alternate As
10	Default Values													
99														

- The data sheet is split into sections based on the Oracle Bill of Material form.
- Header Section: current (Revision, Revision Label, Revision Description, Revision Implementation) has been converted to display only and new (Revision, New Revision Label and New Revision Description) columns have been added.
- Header attachment is moved from the end of the sheet to the header area.
- Roll Up Cost Section: The Cost Type for roll up is added to facilitate selection of cost type when running the cost roll up.
- Assembly Costs Details Section: Cost Type is added to facilitate reviewing various Cost Types via the form.
- Changes in effectivity:

- Standard BOM has Date and Unit Effectivity
- Rebuildable BOM has Date, Unit and Serial Effectivity
- Asset BOM has Date and Serial Effectivity
- Maintenance BOM has Date and Unit Effectivity

- Component Section: 'Quantity Related Reference Designator' has been added to end of the Component Section to facilitate control over Reference Designators.
- Component Cost Details Section: Cost Type is added to Component section to facilitate download component costs.

Columns from old Wizard which are no longer available:

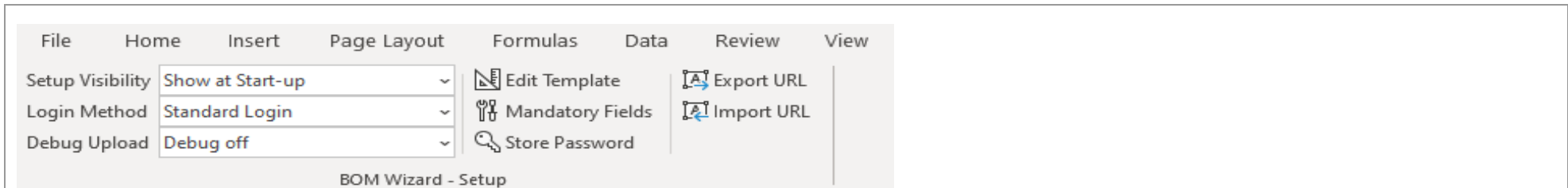
- Header Section: 'Implementation date' from header section.
- Header Section: 'Engineering Change Order' from header section.
- Line Section: 'New Effectivity from' from Main section has been removed.
- Line Section: 'New to item Unit Number' from Main section has been removed.
- Line Section: 'Include in cost roll' up has been moved to ribbon.

1.6 Changes in 'BOM Wizard-Setup'

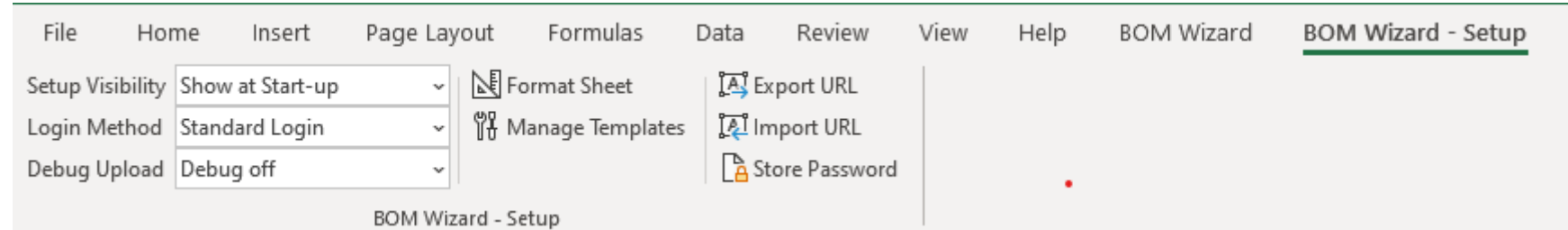
Version: 7.0.0

Date: 25/03/2020

Previous Wizard Ribbon Control to create user's worksheets:



New Wizard Ribbon Control to create user's worksheets:



The 'Manage Templates' gives the following advantages:

- Templates are stored on each instance and can simply be selected by the user in the 'Generate Template' form.
- Templates are secure, preventing users from accessing data they do not have permission to view or change.
- Templates are easily copied from one instance to another.
- Templates are optional, predefined modes can instead be used where users create their own layouts as appropriate.

1.7 Miscellaneous Changes

Version: 7.0.0

Date: 25/03/2020

There have been a few other changes worth noting:

- Attachment columns have been grouped with Assembly and Assembly Cost detail sections to improve functionality.
- Validation has been expanded.
- The addition of new columns to the Wizard has been streamlined to improve the speed of response to customer requests.
- The ability to now clear status columns.