

DS0146 GP Manufacturing BOM Import



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Problem Definition

Problem Definition	CCDA
ACMECO is using engineering software to create and manage Bills of Materials (BOM), and using Dynamics GP for manufacturing. Significant user time is required to manually re-key this information into the Dynamics GP BOM, and also presents an opportunity for errors to be introduced.	



Solution Overview

Solution Overview	CCDA
 A BOM Import utility will be created in Dynamics GP that performs the following: Allows user to select a spreadsheet (XLS) for import. Validates the item numbers in the import to ensure they already exist in the Item Master Validates sub-components to ensure that sub-component BOMs already exist prior to importing a parent BOM Creates a new BOM Replaces an existing BOM with a new import Checks the Manufacturers Part Number(s) 	



Design Features

BOM Import		CCDA
The new BOM BOM Import.	Import window will be access from Tools >> Utilities >> Manufacturing >>	
	BOM Import	
į	Import Clear	
	Item Number 100XLG	
	Description Green Phone	
	BOM Type MFG BOM	
	BOM Name	
	File c:\Import\TestFile.csv	
Field	Function	
Item Number	The user will enter, or select from the lookup, the parent Item	
Description	Auto-populates when Item Number is selected	
BOM Type	Defaults to MEG BOM. User can select MEG BOM. ENG BOM. or	
- 0 , , , 0	ARCH BOM. If user selects ARCH BOM then a BOM Name must	
	be provided.	
BOM Name	Not editable unless BOM Type = ARCH BOM. The user can enter	
	or select an Archive BOM Name.	
File	User selects the XLS file to be imported (see file definition below).	

	Note: the screen mock-up shows CSV in the filename, it should be	
	XLS. The import will be a Microsoft Excel spreadsheet.	
IMPORT	Clicking Process will confirm that user is ready to import the BOM.	
	It will first check if a BOM exists for the parent item. If so, the user	
	will be asked if they want to replace it (the BOIM lines will be	
	deleted). If a BOM Header does not exist for the parent item &	
	BOW Type, the user will be asked if they want to create a new	
	by the user). The import will then proceed to the Validation Checks	
	described below	
CLEAR	Clears the window	
OLLAN		
The import file (XLS)	will have the following columns (in this order):	
BOM Position	n Number (1 to 9999)	
 Component 	Part Number	
 Qtv per (max 	5 decimals). Must match GP Qtv Decimals for the Component Item	
 Manufacture 	rs Part Number	
Reference D	esignators (see below)	
There first row will contain Column Names. The Column Names do not have to match what		
is given here, but the column data must match (i.e. the first column must contain Position		
Numbers).		
Kille One state Ded is a state item the instant of the second distance in MEO DOM is helder and		
The POM Cetegory	In is a made item, the import will assume the MFG BOW is being used.	
The BOW Calegory	mil be retrieved from the MFG BOM setup.	
The Component Par	t's Unit of Measure will always be the item's Base Unit of Measure	
The import process will check that the Manufacturers Part Number in the Import File		
matches an MPN in GP (GP supports multiple MPNs for a component part).s If not, the item		
& BOM will still be in	ported, but the item will appear on the Error Report noting that the	
MPN does not match. The user will manually fix the MPN if needed.		
All other values will be defaulted as blank/zero.		



Reference Designators : This field can contain one or more reference designators. The	-
following formatting will be supported:	
Single value, such as: P1	
 Multiple values separated by commas. There can be no spaces. Everything between successive commas will be treated as one reference designator. For example: P1,P3,P5,D1,D10 Ranges separated by dashes. There can be no spaces. For example: P1-P10. This will be translated into: P1,P2,P3P10. 	
Combination of the above. For example: P1,P5-P10,D4,D5	
A single reference designator may contain up to 20 characters	
Given that this is a user entered text field, there are a large number of possible errors that could occur in the formatting. The system will attempt to parse the reference designators based on the rules above. In the even any errors are encountered, the Reference Designator import will have a fall-back method of parsing the string into 20-character pieces, and importing the Reference Designator field in that manner.	
 Validation Checks Prior to importing the XLS file and making changes to the system, the following validations will be performed: The Component Item Numbers must exist in GP All items must be Item Type = Sales Inventory If the Parent Item is Standard Cost, all components must be Standard Cost. If the Parent Item is Actual Cost, components can have any valuation method. Each Item must have an Item Engineering record If the component item's Replenishment Method = MAKE, then it must have a MFG BOM already created in GP. BOM Position Number: there cannot be duplicates in the import file, and it cannot exceed 9999. Quantity: the decimal places cannot exceed the item's Decimal Places Quantity (i.e. if the Item is set to 1 decimal place and the import specified 1.25 it will generate an error). 	
If any of the above checks fails, it will generate an Error Log report, and the import will not occur. The error checking process will run to completion so that the Error Log shows all of	



the errors in the import file.	The import will not be allowed to proceed if there are any errors.	