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DS0105
GP Manufacturing BOM Import



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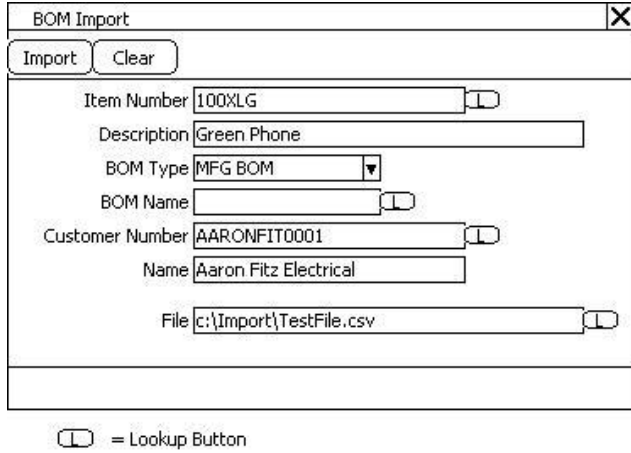

Problem Definition

| <i>Problem Definition</i> | CCDA |
|---|-------------|
| <p>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.</p> | |

Solution Overview

| <i>Solution Overview</i> | CCDA |
|--|-------------|
| <p>A BOM Import utility will be created in Dynamics GP that performs the following:</p> <ul style="list-style-type: none">• Allows user to select a spreadsheet (CSV) 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 exists prior to importing a parent BOM• Creates a new BOM• Replaces an existing BOM with a new import | |

Design Features

| BOM Import | CCDA | | | | | | | | | | |
|---|--|----------|-------------|--|-------------|---|----------|--|----------|--|--|
| <p>The new BOM Import window will be access from Tools >> Utilities >> Inventory >> BOM Import.</p>  <p> = Lookup Button</p> <table border="1" data-bbox="191 1084 1272 1364"> <thead> <tr> <th>Field</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>Item Number</td> <td>The user will enter, or select from the lookup, the parent Item Number. This Item Number must already exist in Dynamics GP</td> </tr> <tr> <td>Description</td> <td>Auto-populates when Item Number is selected</td> </tr> <tr> <td>BOM Type</td> <td>Defaults to MFG BOM. User can select MFG BOM, ENG BOM, or ARCH BOM. If user selects ARCH BOM then a BOM Name must be provided.</td> </tr> <tr> <td>BOM Name</td> <td>Not editable unless BOM Type = ARCH BOM. The user can enter or select an Archive BOM Name.</td> </tr> </tbody> </table> | Field | Function | Item Number | The user will enter, or select from the lookup, the parent Item Number. This Item Number must already exist in Dynamics GP | Description | Auto-populates when Item Number is selected | BOM Type | Defaults to MFG BOM. User can select MFG BOM, ENG BOM, or 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. | |
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| BOM Name | Not editable unless BOM Type = ARCH BOM. The user can enter or select an Archive BOM Name. | | | | | | | | | | |

| | |
|-----------------|---|
| Customer Number | User can enter, or select a customer number from the lookup. If a Customer Number is provided, the import will perform a translation between Customer Items and GP Items. |
| Name | Auto-populates when the Customer Number is entered |
| File | User selects the CSV file to be imported (see file definition below). |
| 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 BOM lines will be deleted). If a BOM Header does not exist for the parent item & BOM Type, the user will be asked if they want to create a new default header with default values (blank values can be edited later by the user). The import will then proceed to the Validation Checks described below. |
| CLEAR | Clears the window |

The import file (CSV) will have the following columns (in this order):

- Component Item Number: must already exist in GP, or be a valid Customer Item
- BOM Type: if component is a made item, the import by default will use BOM Type = 1 (MFG BOM) and BOM Category = 1 (Regular), unless other information is provided.
- BOM Category: if component is a made item, the import by default will use BOM Category = 1 (Regular), unless other information is provided.
- BOM Name: if Component BOM Type = 3 (ARCH BOM), a BOM Name must be provided.
- BOM Position Number (1 to 9999)
- Qty per (max 5 decimals). Must match GP Qty Decimals for the Component Item
- Unit of Measure: must match a U of M on the component item's Unit of Measure schedule
- Issue From Site: must be a valid site in GP, and an Item-Site record must already exist
- Lead Time Offset days (+/- integer)
- Backflush (0 = no, 1 = yes)

All other values will be defaulted as blank/zero.

NOTE: The BOM Maintenance field "BOM Type" actually maps to BOM Category

(BOMCAT_I) in the database. And “BOM Category” maps to BOMTYPE_I.

Validation Checks

Prior to importing the CSV file and making changes to the system, the following validations will be performed:

- The Component Item Numbers exist in GP, or if a Customer Number is provided, that a valid Customer Item – GP Item mapping is found in Customer Item Maintenance
- 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 item’s Replenishment Method = MAKE, then the BOM Type and BOM Category fields must be provided. Or, if both are zero, a MFG BOM must exist. By default, the import will use an item’s MFG BOM.
- If the item’s Replenishment Method = BUY, the BOM Type and BOM Category must be zero.
- If the BOM Type = 3 (ARCH BOM), a BOM Name must be provided.
- If it is a made item, and BOM Type and Category information are provided, the specified BOM must exist in GP.
- BOM Position Number: there cannot be duplicates in the import file
- 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).
- The Unit of Measure must exist on the item’s Unit of Measure Schedule.
- Issue From Site: must exist in GP, and there must be an Item-Site record

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.

