

## **Casual Cushion Corp – Inventory Part/ Router Creation**

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### **Stakeholders**

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### **Business Case**

Customer wants to automate the process of creating an Inventory Part Master and Router at the Sales Order Lines screen when a manually entered part is identified as a non-Inventory part (meaning there is no Inventory Part Master that exists).

The Inventory Part Number convention is standardized. It consists of a Style Code hyphenated with a Fabric Code (“Style-Fabric”). Customer will manually create a template Inventory Part Number (Style). If a new Fabric is introduced, the Customer will manually create an Inventory Part Number for the Fabric as well. In this example, there will be an inventory part for 10 (style) and 3012 (Fabric)

### **Expected Behavior (?):**

When the user is entering in a new sales order line with a part that does not exist, they will get the standard message “this part is not an inventory part, do you want to continue” they will say yes to this message and then select a script button to run the custom program of copying parts and routers a specified above.

### **Proposed Solution:**

Deliver a GAB script that will create the inventory part, router, and pricing structure from the applicable templates at the time of entry on an order line.

### **Features (Definition of Done)**

1. Identify if a manually entered Part Number on the Sales Order Lines screen has an associated Inventory Part Master -Prompt user the part does not exist
2. If the Inventory Part Master does not exist, the User will invoke the Script 1-3 (TBD – since we will have other things tied to these Script buttons from ARC).

3. Determine whether the Part Number is a Drop Ship Part – these are designated by the first two characters of the Part Number as “DS”. So an example DS10-3012

4. If the Part Number is not a “DS”, then assume the following logic:

- A. The script will scan the Part Number to identify the Style. The Style can consist of a code that varies in length (2-10 chars) but always precedes the hyphen (-).
- B. Verify that an Inventory Part Number exists for the Style, which will be used as a template, if it does, continue, but if it does not then halt and prompt the User that the STYLE part does not exist.
- C. The script will scan the Part Number to identify the Fabric. The Fabric can consist of a code that varies in length (3-6 chars) but always follows the hyphen (-).
- d. Verify that an Inventory Part Number exists for the Fabric (“FAB-fabric code”), which will be used as a template, if it does, continue, but if it does not then halt and prompt the User the Fabric part does not exist.

Both these parts for the style and fabric will need to exist to move forward. We can give them a message to create these parts and exit at this time or have a wait screen until they are entered.

e. Build an Inventory Part Master for the value in the Part Number field on the sales order and execute the following:

- i. Copy Inventory Part Master based on the Inventory Part Master (template) entered for the Style (value that precedes the hyphen -10 in this case). To the new part 10-3012
- ii. Update the Alternate Description 1 to match the Description of the Inventory Part Number for the Fabric Part (FAB-fabric code – 3012 in this case).
- iii. Build a Router for the value in the Part Number field 10-3012 and execute the following.
- iv. Copy the Router based on the Router entered for the Style (value that precedes the hyphen router 10 in this case).
- v. Replace the Part Number and Description of Material Sequence 5 with that of the Fabric (the Inventory Part Master for the Fabric – “FAB-3012 in this case”)
- vi. Check Router Complete flag.

If the Part Number is a “DS”, then assume the following logic:

- This process is the same as above except for these differences.
  - o Verify that an Inventory Part Number exists for the Skin (need to check Material Sequence 5 of the Style Part Number Router, which will be a base Part Number and then affix the Fabric Code),
    - The router sequence 5 has a material part number of SKHD8854 and we need to add the -3012 to that to become part SKHD8854-3012

NOTE: see the example below for the Drop Ship Parts since this part of the logic is confusing.

- The router copy instructions are the same as above

Examples:

- Non-DS Part Number (Section 4) - Part Number on SO Line: 10-3012 (Part Number doesn't exist in Inventory)
  - Style is 10, Verify that Inventory Part Master exists for 10. Halt and Prompt User if not.
  - Fabric is 3012, Verify that Inventory Part Master exists for FAB-3012. Halt and Prompt User if not.
  - Copy Inventory Part Master for 10 and create for 10-3012. Adjust Alt Desc 1 to reflect full description from FAB-3012 (Canvas Navy).
  - Copy Router for 10 and create 10-3012. Update Material Sequence 5 to FAB-3012. Check the Router Complete flag.
  - DS Part Number – Part Number on SO Line: DS2854-3032
    - a. Style is DS2854, Verify that Inventory Part Master exists for DS2854. Halt and Prompt User if not.
    - Fabric is 3032, Verify that Inventory Part Master exists for FAB-3032. Halt and Prompt User is not.
    - Pull the Part Number in Sequence 5 in Router DS2854. Take this value, append a hyphen (-), and then append the Fabric Code (SKHD8854-3032). Verify that an Inventory Part Master exists for part SKHD8854-3032. Halt and Prompt User if it does not.
    - Copy Inventory Part Master for DS2854 and create for DS2854-3032. Adjust Alt Desc 1 to reflect full description from FAB-3032 (Canvas Jockey Red).
    - Copy Router for DS2854 and create DS2854-3032. Update Material Sequence 5 to SKHD8854-3032. Check the Router Complete flag.

Add pricing to the new inventory part that gets created based on grade of the Fabric. The fabric parts (ex: FAB-3012) will hold Grades A-G and will be store in the user input field 2 on the inventory master. alternate field 1 =A, Alternate field 2 =B, etc.

- New part on sales order is 10-3012
- Fabric 3012 will hold a value of Grade “C” in the user input field 2 on inventory master
- Part 10 holds pricing in the Alternate pricing field 3 for grade C.

When the new part is created 10-3012, pull the pricing from Alternate pricing field 3 (Grade C) on the original part 10 into the list price on this new part

## Data

No custom tables needed

## Benefits

- Inventory parts and routers can be created automatically without user intervention.

## Potential Issues

- If there is no template part or template router for the prefix entered on the order line, the script will throw an error to the user informing them that no template was found.

## Assumptions

- The script will only handle creating new parts and routers. Existing parts will cause the script to exit.
- Bills of Material are not used and thus do not need to be copied.

## Programming Notes

- Use Inventory.Part object to copy one part to another as well as making the modifications.
- Use Manufacturing.CopyRouter callwrapper on the routers.

## Time Estimates

Item	Hours
GAB	9
Testing/QA	2
Documentation	1
<b>Total</b>	<b>12</b>

## Appendix

N/A