

CHANGE REQUEST	
Change Request #	CR0439 – Assembly Serial Linking Entry
Description of Change	
<p>Description of Need:</p> <p>ACME Co. has a new product being released that is going to affect how they create configurations in service. Currently they are using the MO Serial Linking to build configurations. This new product has serial numbered components in a purchased assembly and these serial numbers need to be included in the configuration. Since the assembly is purchased, the component serial numbers never hit GP inventory and are not on a MO.</p> <p>ACME Co. needs an Assembly Linking function to add to the current MO Linking results. The Assembly Linking window will need to allow the user to specify the MO number and top-level serial number and then populate a list of non-GP components that require linking. ACME will create a mfg BOM that will be used as the basis for the Assembly Serial Linking.</p> <p>The linking structure may go like this:</p> <p>Top FG: On MO</p> <ul style="list-style-type: none"> • 1st level Cpnt: On MO and linked via MO linking. <ul style="list-style-type: none"> • 2nd level Cpnt: On MO and linked via MO linking. <ul style="list-style-type: none"> • 3rd level Cpnt: On PO and linked via MO linking • 4th Level Cpnt: SN never in GP and linked via Assembly Linking <p>The user needs to be able to enter or change the Cpnt SN up to the point where the TOPFG SN is sold.</p> <p>Description of Solution:</p> <p>A new window called Assembly Linking Entry will be added to the customization. This window will be available from the following locations:</p> <ul style="list-style-type: none"> • MO Receipt Entry via Extras >> Additional >> Assembly Linking Entry • Transactions >> Manufacturing >> Assembly Linking Entry 	

Tree View	Shows the exploded view of the linked serial numbers from MO Linking that are part of the tree belonging to the non-inventory items needing serial numbers. As shown above, empty serial numbers (?) are created for each unit of a subassembly. Only the serial numbers that are not linked via MO Linking can be selected and have their serial numbers added in this window.
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When the window opens, the system will read through the MO Linking information for the selected MO and build the Tree. When the system finds an serial number that was purchased, is set to "Make or Buy" and has a Mfg BOM, it will use the Mfg BOM to add a new level to the tree. This new level will be selectable and serial numbers will need to be added.

Only the finished good components that that have their hierarchy terminate with a non-inventory item will be displayed in this window, not the entire MO Linking structure. In the mock-up above, item TOPFG may have had multiple components at the 1st Level, but only the one serial number that had with a non-inventory item at the bottom of its tree is displayed.

The system will be setup to allow for efficient use of a scanner while entering the sub-component serial numbers. When the parent serial number is entered into the window, the system will locate the first sub-component on that needs a serial number and select it. When the user scans the component serial number, the LINK button will automatically be clicked and then the next item number without a serial number assigned will be selected.

The method that the system uses to find the next required serial number is to process down each branch of the tree before proceeding to the next branch.

The user can also use the keyboard and mouse to assign serial numbers in any sequence.