



DS0431

Long Keys



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Problem Definition

<i>Problem Definition</i>	CCDA
<p>ACME Co. has some items with Manufacturer's Serial Numbers (or lot numbers) up to 40-characters in length. These SerLot Numbers need to be printed in Sales Transaction Entry.</p> <p>When the long SerLot items are received in purchasing, ACME needs to be able to record the incoming SerLot provided from the vendor. One item, Smart Boards, have a long serial number comprised of two separate serial numbers. These need to be recorded individually, associated with the SmartBoard (i.e. the Smart Boards need to have two long serial numbers).</p> <p>In the rest of this document, the long serial/lot numbers/multi-part serial numbers will be referred to as Long Keys.</p> <p>There are other serial/lot controlled items in the ACME inventory which do not also have Long Keys.</p> <p>ACME needs to be able to identify which items require Long Keys, and additionally, which of these Long Key items also have the "multi-part" serial numbers.</p> <p>The Long Keys should print on sales documents.</p> <p>Also, they need to be able to locate, or cross-reference, the Long Keys to the GP serial/lot numbers and vice versa.</p>	

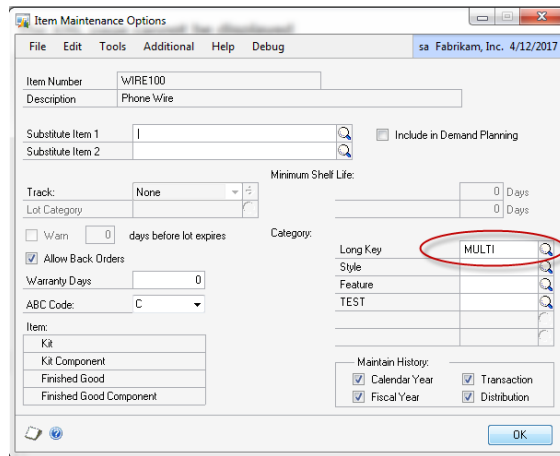
Solution Overview

<i>Solution Overview</i>	CCDA
<p>A new window will be added to PO Receiving which requires enter of Long Keys for items requiring this information. The window will pop-open automatically during receiving.</p> <p>An Inquiry window will be created that locates a GP serial/lot number given:</p> <ul style="list-style-type: none">• An Item number and/or• A Long Key <p>The inquiry will also locate a Long Key given:</p> <ul style="list-style-type: none">• An Item Number and/or• A Long Key	

Design Features

Setup

Serial/Lot Track items that are Long Key items will be indicated as such using Item Category #1 (as shown below) on the Item Maintenance Options window.



There will be two values the software will look for in this field:

1. LONG – any item requiring long serial or lot numbers
2. MULTI – a Long Key item that has a multi-part long serial number (i.e. Smart Boards).

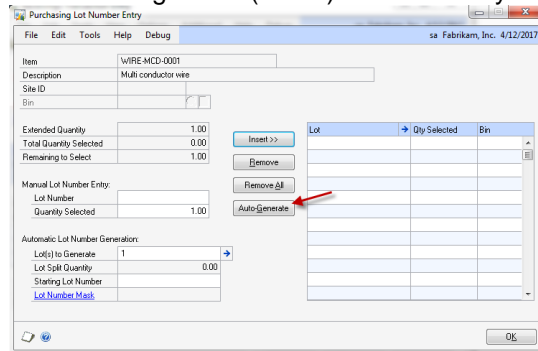
The capitalization is not important. Any other value in this field will be ignored and treated as if the field were empty.

These Long Key items will also be set up to auto-generate serial & lot numbers during PO Receiving. All items that have Long Keys must have a serial/lot Mask created so that GP can auto-generate serial/lot numbers for the item.

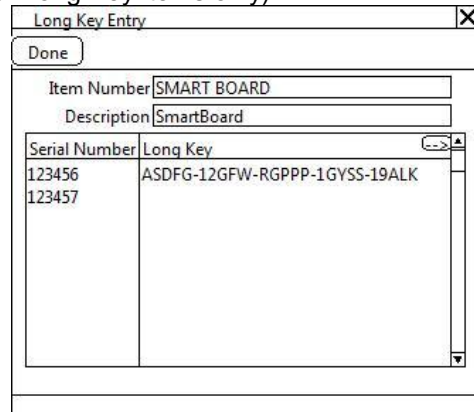
PO Receipt - Long Key Entry

CCDA

All items that have Long Keys will have internal GP serial/lot numbers generated using the Auto-Generate button on Purchasing Serial (or Lot) Number Entry.

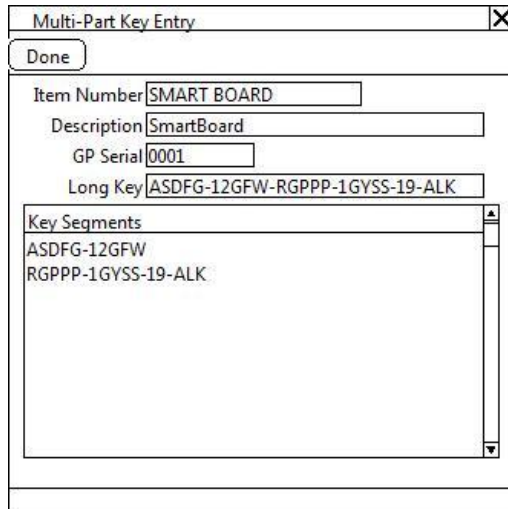


When the Purchasing Serial/Lot Number Entry window closes, the Long Key Entry window will open automatically (for Long Key items only).



The auto-generated serial/lot numbers will be displayed in the left-hand column. The user will manually enter the Long Keys into the Long Key field.

If the Item Category #1 field contains MULTI, the Long Key Expansion Button (arrow) will be enabled. Clicking the Expansion Button opens the Multi-Part Key Entry window (below).



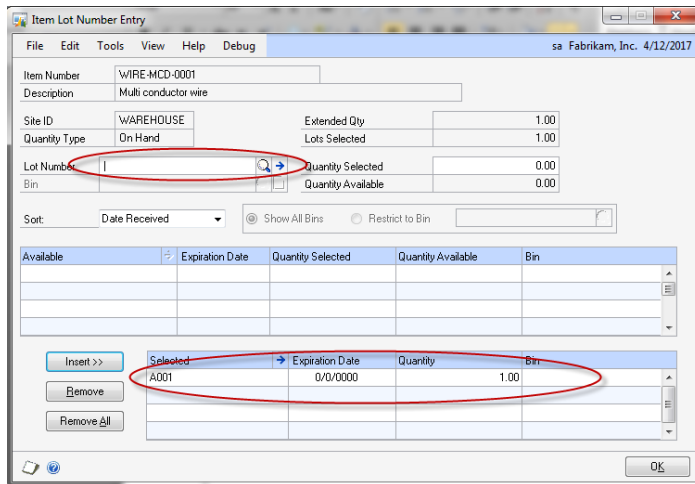
This window is used to enter the separate serial numbers that make up the compound serial number of the Smart Board.

Users will not be able to close the Long Key Entry window without providing a Long Key for each GP serial/lot number in the window. If the user makes changes to the quantity received, and/or the quantity of serial/lot numbers, the Long Key Entry window will open again (if needed) to get additional information from the user. This may not always be necessary. For example, if the user removes specific serial numbers, the Long Keys will be kept in-sync, so the matching Long Key would be removed automatically. If the user adds serial/lot numbers, Long Key Entry will re-open to get additional Long Keys from the user.

The Long Key Entry window can also be opened manually from the Purchasing Serial Number Entry window or Purchasing Lot Number Entry window via Additional >> Long Key Entry. The window may need to be opened in this manner to correct a mistake in a Long Key.

Inventory Transaction - Long Key Entry

Physical inventory may need to be adjusted (such as due to a physical inventory count) using the Item Transaction Entry window. When adding inventory through an Inventory Adjustment or Variance, the Long Key Entry window will work in a manner similar to PO Receiving.



Available	Expiration Date	Quantity Selected	Quantity Available	Bin

Selected	Expiration Date	Quantity	Bin
A001	0/0/0000	1.00	1.00

Unlike PO Receiving, serial/lot numbers cannot be generated automatically by GP in this location. (NOTE: WillowWare has an enhancement for GP that does generate serial/lot numbers on this window).

When the Item Lot Number Entry (or Item Serial Number Entry) window is closed, the Long Key Entry window will open. See the PO RECEIPT section for a description of how the Long Key Entry window works. It will work the same in this location.

Long Key Entry will be available to open manually from the Item Lot/Serial Number Entry windows via Additional >> Long Key Entry.

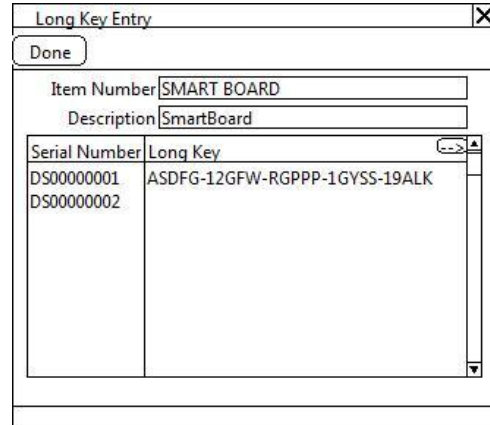
Sales Transaction Entry – Long Key Entry

Since Long Keys are recorded during PO Receiving, they will already exist for any items in inventory. Under most circumstances Long Keys will already exist in GP for inventory sold on sales transactions.

However, for Drop-Ship transactions the inventory is not being pulled from On Hand inventory, and GP does not allow recording serial/lot numbers for drop-shipped items.

The following changes to Sales apply to both the Sales Transaction Entry window and the Sales Order Fulfillment window.

When a drop-shipped line is fulfilled (the Quantity Fulfilled is changed), and the item is a Long Key item, the Long Key Entry window will open automatically.



Serial Number	Long Key
DS00000001	ASDFG-12GFW-RGPPP-1GYSS-19ALK
DS00000002	

If the item is lot controlled the Long Key Entry window will auto-generate 1 lot number (the window above is for a serial numbered item). When the item is serial numbered, GP serial numbers will be auto-generated to match the Quantity Fulfilled.



As shown above, the auto-generated serial numbers will simply be a globally unique integer, starting with 1 and incrementing each time a new auto-generated serial/lot number is needed for drop-shipped items. The serial/lot will be prefixed with DS for drop-ship, and zero-filled to create a 10-digit serial/lot number.

For MULTI items the Long Key expansion will be enabled.

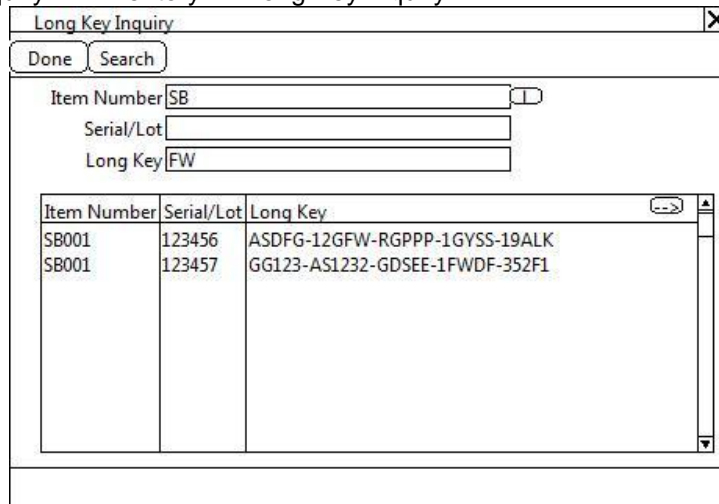
The user will not be able to close this window until a Long Key is provided for each serial/lot number. For MULTI items there must also be at least one Key in the Multi-Part Key Entry window (see PO Receipt for details on this window).

Long Key Entry can be opened manually via Additional >> Long Key Entry from both of these windows. It will only open if the line is drop-shipped and is a Long Key item.


Long Key Inquiry

The Long Key Inquiry window is used to locate GP serial/lot numbers and Long Keys.

Navigation: Inquiry >> Inventory >> Long Key Inquiry



Item Number	Serial/Lot	Long Key
SB001	123456	ASDFG-12GFW-RGPPP-1GYSS-19ALK
SB001	123457	GG123-AS1232-GDSEE-1FWDF-352F1

 = Lookup Button

The Long Key Inquiry window performs a “contains” search on each of the fields. As shown above, it searched for Item Numbers containing “SB” and Long Keys containing “FW”.

Any value can be entered into the Item Number field, or a specific Item Number can be retrieved using the Item Lookup.

The Long Key Expansion button (arrow) opens the Long Key Edit window (below). This window is used to change the Long Key in the event it was entered incorrectly when it was received into the system.

Long Key Edit		X
<input type="button" value="Save"/>		
Item Number	<input type="text" value="SB001"/>	
Description	<input type="text" value="Smart Board"/>	
Serial/Lot	<input type="text" value="123456"/>	
Long Key	<input type="text" value="ASDFG-12GFW-RGPPP-1GYSS-19ALK"/>	
<hr/>		

The only editable field on this window is the Long Key. Security can be set separately on this window to prevent users from accessing it.