

Lesson 4: Managing Inventory Processes

STATE INFORMATION TECHNOLOGY



Lesson 4 Learning Objectives



- Output Upon completion of this lesson, you should be able to:
 - Identify Key Terms and Concepts of Inventory
 - Understand impact of Open Purchase Requisitions (PRs) and POs.
 - Understand other year-end considerations for managing inventory.
 - Understand what reports to review at year-end to assist in managing the replenishment of inventory.

Inventory Key Terms and Concepts



Purchase Requisitions / MRP С С С

*Inventory Replenishment

Shopping Cart

*Inventory Consumption *Non-Inventory Procurement

SRN

- Inventory replenishment in Ô SAP is done via a Purchase Requisition.
- Material Reservations for Ô inventory are initiated via SRM Internal Goods/Services Shopping Cart or manually in ECC.

Consuming Inventory



- Output Control Cont
- Output Open Upon approval of the Shopping Cart, a Material Reservation is generated in ECC
 - Funds are NOT encumbered at this time
 - Funds are consumed at the time of Goods Issue from the account assignment entered on the Shopping Cart

Material Reservations



- If a Material Reservation crosses fiscal years and the goods issue is completed in the new fiscal year, the funds will be consumed from the original account assignment but in the new year budget.
- If the account assignment changes from one year to the next, the Material Reservation will need to be deleted and recreated with the new account assignment.

Material Reservations cont.



Close or Delete all Material Reservations that you will not fulfill

Mark Final Issue indicator on the Material Reservation

OR

Mark the Final Issue indicator in the Goods Issue transaction if you do not want to leave items on backorder

OR

Mark the Deletion indicator on the Material Reservation if you have not issued or will not issue any quantity against this Material Reservation

Material Reservation – Final Issue



MB22 – Change Reservation

Change Reservation 0000004648 : Collective Processing 🥖 🔍 Details from Item Movement Type 201 GI for cost center Goods recipient N040345313 Cost Center Fund Grant NOT RELEVANT N040_2213 **Functional Area** Commitment Item Funds Center ⇔ Earmarked Funds 0 Done More **Final Issue Indicator** Items UnE Pint SLoc Batch Itm Material Quantity in FIS D. 20 PAA DC03 1 104141

Material Reservation – Final Issue



MIGO – Goods Issue

Material Qu	Jantity Where	Reservation	Account Ass	ignment
Reservation	<u>4648</u> 1		Created by	ANGELA BELCHER
Reqmt Date	03/28/2011			
Regmt Qty	20	PAA		
Withdrawal Qty	Einal Issue India	ator		
<u> Qty.f.avail.chk</u>				
🗌 Final Issue 🖌				

Material Reservation - Deletion



MB22 – Change Reservation

Change Reservation 0000004648 : Collective Processing								
🗋 🥖 🕄 Details	🗋 🥖 🕄 Details from Item							
Movement Type	Movement Type 201 GI for cost center							
				Goods recipient				
Cost Center	N040345313							
Fund				Grant	NOT RELEVANT			
Functional Area	N040_2213							
Funds Center				Commitment Item				
Earmarked Funds		0	Done	Del		<u> </u>		
				Dele	ation Indicator			
Items								
Itm Material			Quantity	in UnE Pint SLo	C Batch	MFIS	D	
1 104141	le l	20		PAA DC03				

Managing Material Reservations



- Construction Co
- Only Inventory Management personnel should close a Material Reservation.

Replenishing Inventory



Inventory replenishment is done via ECC (not SRM) by using a Purchase Requisition (PR) and Purchase Order (PO) process.



Inventory Purchasing Documents



- Funds are encumbered when a Purchase Requisition is created.
- Buyers convert Purchase Requisitions into Purchase Orders in ECC.
- When the Purchase Requisition is converted to a Purchase Order, the encumbrance transfers from the Purchase Requisition to the Purchase Order.

Inventory PR & PO cont.





If the <u>Purchase Order is deleted</u>, the <u>encumbrance</u> <u>transfers from the Purchase Order back to the Purchase</u> <u>Requisition.</u>

	PR	\$-0-	PO \$100
Delete PO	PR	\$100	PO (\$100)
Result	PR	\$100	PO \$-0-

Inventory PR & PO cont.



If the quantity on a Purchase Requisition is not fully converted to a Purchase Order, the balance of the encumbrance remains on the Purchase Requisition

Task	Quantity/Value	Encumbrance on PR	Encumbrance on PO
Create Purchase Requisition	100 ea @ \$5.00	\$500 (quantity 100 ea)	\$0
Create PO	10 ea @ \$5.00	\$450 (90 @ \$5.00)	\$50



- Quantity on the Purchase Order must equal the quantity on the Purchase Requisition or you will leave an encumbrance balance on the Purchase Requisition
- Purchasing units of measure can be established by the Agency Material Master Liaision to assist buyers with conversion between base unit of measure and the purchasing unit of measure

WRONG METHOD!



Task	Quantity/Value	Encumbrance on PR	Encumbrance on PO
Create Purchase Requisition	100 ea @ \$5.00	\$500 (quantity 100 ea)	\$0
Create PO	10 ea @ \$50.00	\$450 (90 @ \$5.00)	\$500

In this example, the buyer ordered 10 ea meaning to order boxes from the vendor. With no purchasing unit of measure in place, the system does not recognize this purchase as anything other than ea and assumes there are 90 ea more that still need to be ordered.

CORRECT METHOD!



Task	Quantity/Value	Encumbrance on PR	Encumbrance on PO
Create Purchase Requisition	100 ea @ \$5.00	\$500 (quantity 100 ea)	\$0
Create PO	10 bx @ \$50.00 (Purchasing UoM = bx)	\$0	\$500

In this example, the buyer ordered 10 bx where the purchasing unit of measure has been implemented. In this purchasing unit of measure, 10 ea = 1 bx. The system understands that all requested units (100 ea) have now been ordered (100 ea = 10 bx).

Deleting a Line on a PO



- If you <u>delete</u> a line on an Inventory Purchase Order, encumbrance transfers back to the Purchase Requisition
- The corresponding line on the Purchase Requisition must also be <u>deleted</u> in order to free the encumbrance
- **BEST PRACTICE:** <u>Close</u> Inventory Purchase Orders rather than delete them

Inventory PR & PO cont.



- In order to liquidate funds encumbrance on Inventory Purchase Orders, set the **Delivery** Complete indicator ONLY
 - Delivery complete is the indicator that releases encumbrance on <u>inventory</u> PO's, <u>not</u> the Final Invoice indicator
- Output Buyers have the ability to set Delivery Complete indicator on inventory PO's

Setting Delivery Complete



Setting Delivery Complete can be accomplished by agency procurement staff with transaction ME22N

OR

 By Inventory Management personnel during Goods Receipt when no further materials are expected from the vendor

Delivery Complete Indicator



ME22N Change Purchase Order

Item 1 [10] 137766, JUMPER, FIBER OPTIC, 2 FIBE							
Delivery Schedule / Delivery / Invoice / Cond				ns 🍟 Account Assig	gnment	Purchase Order History Te	
		_				_	
Overdeliv. Tol.	*	Unlimited		1st Rem./Exped.		Goods Receipt	
Underdel. Tol.	*			2nd Rem./Exped.		GR Non-Valuated	
Shipping Instr.			8	3rd Rem./Exped.		🗹 Deliv. Compl.	
				No. Exped.	0		

Complete can be found on the Delivery tab in the Item Detail section of the Purchase Order

Delivery Complete Indicator



MIGO Goods Receipt

Material Qu	antity Where Pur	chase Order Data
<u>Purchase Order</u>	<u>4500014932</u> <u>10</u>	0 🚾
"Del.Completed" Ind	. 1 Set automatic 🖹	Choose "Set" from the dropdown box
Requisitioner	1 Set automatically	
	2 Set 🧹	
	3 Do not set	
•		

Closing Inventory Purchase Orders



- Setting Delivery Complete releases funds encumbrance on the Purchase Order
- No further action is required on the Purchase Requisition as long as the full quantity of the Purchase Requisition was converted to the Purchase Order



- If you have any Inventory Purchase Orders with open quantities that you intend to receive in the new fiscal year, you must carry forward that purchase order
- If an Inventory Purchase Order must be carried over to the new fiscal year, use transaction ZFMJ2.

Reports to manage Open P.O.s and P.R.s



ME5A – Open Purchase Requisitions

- Helps identify purchase requisitions that were not fully converted to purchase orders
- Helps identify which purchase requisitions have had encumbrance transferred back from the purchase order
- ME2N Open Purchase Orders
- Open Encumbrance Report (BW)

Managing Inventory Payments



- Always insure that invoices associated with an inventory PO's are posted against the inventory purchase order and proper goods receipt.
- On the pay any inventory POs.
- On not use the P-card to make any inventory purchases.

Physical Inventory (per CG's office)



- Take a physical count of inventories on hand at the end of the fiscal year.
- O this on some date between April 1 and June 30 but choose a date as close to June 30 as possible.
- The date should not vary significantly from year to year.
- Notify the State Auditor's Office at least two weeks in advance of the date of the physical count. They may wish to send someone to observe the count.

Physical Inventory Reconciliation



- Pay attention to unit of measure when entering your count. The default is the <u>base unit of</u> <u>measure.</u>
- Physical inventory documents must have differences <u>POSTED</u> no later than June 30, 2011.
- On't wait until June 30 to get started.

Helpful Transactions



MIDO: Display Physical Inventory Documents

- Items not yet counted
- Documents not yet posted.

Display Phys. Inv. Overview: Stock Mgmt Units - w/o Ph. Inv.										
🌾 🖹 🛜 🔀 Choose 😤 Save 🛛 🗟 📝 📰 Phys. Inventory Doc.for Material Ph										
Company CodeSC01Evaluation for2011Current Fiscal Year2011Current Period10Created on04/29/2011bySYOUNGPlantDC23SCDC Livesay B Camp Warehouse StockStorage Location 0001Livesay B Camp										
Material	Batch S	Assignment	Unr. Qual	Blck Val.	SL					
101490 101491 101501 101502 101503	Exar coun	Example: materials not yet counted in this fiscal year								

Helpful Transactions



MI22: Display Physical Inventory Documents by Material

- Shows all physical inventory documents
- Active documents must be POSTED or DELETED by June 30, 2011.



Other Year End Considerations



Inventory scrapping

- Review any inventory that my be considered obsolete or damaged
- Excess inventory Can another section/department in your agency use the inventory?
- Surplus inventory comply with your agency's guidance and 19-445.2150
- Consure that Goods Receipts for the current fiscal year are posted

Lesson 4 Summary



You should now be able to:

- Understand integration of Materials Reservations with Funds Reservations and the Budget.
- Understand impact of open PRs and POs.
- Understand other year-end considerations for managing inventory.
- Understand what reports to review at year-end to manage inventory.