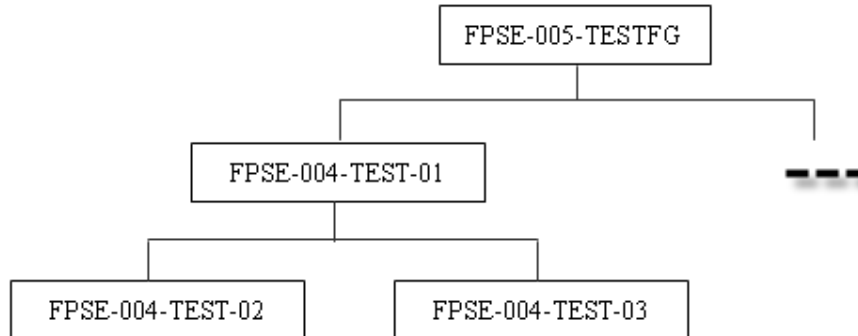


1. Create 3 Purchased Items for Testing

Item Code	Description	Type	Phantom in Item Production Data(IPD)
FPSE-004-TEST-01	Test for phantom purchasing	Purchased	Yes
FPSE-004-TEST-02	Test for phantom purchasing	Purchased	Yes
FPSE-004-TEST-03	Test for phantom purchasing	Purchased	Yes

BOM Structure:



tiipd0101s000(Item Production Data)

BOM | Routing | Item Methods | Repetitive

Item:
 Test for phantom purchasing

Search Key:

Bill of Material

BOM Unit: ea

Scrap Factor [%]:

Scrap Quantity: ea

☒ Phantom

☐ Use Phantom Inventory

☐ BOM Updated by Configurator

Phantom setting in Base Data, but no use phantom inventory

All purchased items setup as above screen-printing.

2. Maintain Standard Cost for Purchased Items and Roll-up Costing

ticpr1170s000(Simulated Purchase Prices)

Price Calculation Code	001	Inventory Valuation	Close
Item	<input type="text" value="FPSE-004-TEST-01"/>		Save
Description	Test for phantom purchasing		Revert
Purchase Currency	USD	US Dollar	Rotate Currency
Simulated Purchase Price	<input type="text" value="5.000000"/>		Help
Simulated Purchase Price	<input type="text" value="0.000000"/>		
(Multi Currency)			
Purchase Price Unit	ea	EACH	
Cost Component	900	AGGREGATED MATERIAL COSTS	

Price Calculation Code	001	Inventory Valuation	Close
Item	<input type="text" value="FPSE-004-TEST-02"/>		Save
Description	Test for phantom purchasing		Revert
Purchase Currency	USD	US Dollar	Rotate Currency
Simulated Purchase Price	<input type="text" value="5.000000"/>		Help
Simulated Purchase Price	<input type="text" value="0.000000"/>		
(Multi Currency)			
Purchase Price Unit	ea	EACH	
Cost Component	900	AGGREGATED MATERIAL COSTS	

Price Calculation Code	001	Inventory Valuation	Close
Item	<input type="text" value="FPSE-004-TEST-03"/>		Save
Description	Test for phantom purchasing		Revert
Purchase Currency	USD	US Dollar	Rotate Currency
Simulated Purchase Price	<input type="text" value="5.000000"/>		Help
Simulated Purchase Price	<input type="text" value="0.000000"/>		
(Multi Currency)			
Purchase Price Unit	ea	EACH	
Cost Component	900	AGGREGATED MATERIAL COSTS	

After Standard Cost Roll-Up, get Costing Price of FG:

General Price

Item FPSE-005-TESTFG
UPLOAD M_PART1

Settings
Currency USD US Dollar

Costs

	Estimated	Actual
Cost Price	5.000000	0.000000
Material Costs	5.000000	0.000000
Operation Costs	0.000000	0.000000
Last Calculation Date	10-12-09	15:19:01

Item Code	Description	Simulated Purchase Price	Estimated Cost Price
FPSE-004-TEST-01	Test for phantom purchasing	5.000000	5.000000
FPSE-004-TEST-02	Test for phantom purchasing	5.000000	5.000000
FPSE-004-TEST-03	Test for phantom purchasing	5.000000	5.000000

Please noted that the cumulative cost of FG is only 5 USD, which does not include the cost of item FPSE-004-TEST02 and FPSE-004-TEST03.

3. Create Production Order for FG

tisfc0510m000(Estimated Materials)

File Edit View Group Workflow Tools Specific Window Help

Production Order CFT100045 Status Planned

Item FPSE-005-TESTFG

Description UPLOAD M_PART1

Quantity Ordered 100.0000 ea ☒ Backflush Materials

Pos.	Item	Description	Net Quantity	Bck fls	Opr	Ass Opr	Ware-house
10	FPSE-004-TEST-01	Test for phantom purchasing	100.0000 ea	<input checked="" type="checkbox"/>	0	0	343010

In the estimated materials list, there is only one item FPSE-004-TEST-01 as component.

4. Create 2 Purchase Orders for the item FPSE-004-TEST-01

Purchase Order 1:

Use Main Item as Post Item

tdpur4101s000(Purchase-Order Lines)

General | Purchasing | Shipping | Invoicing | Receiving | Inventory | Project | Finance | Changes

Position Number J43N00385 10 0

Code Item Type

Item FPSE-004-TEST-01

Description Test for phantom purchasing

Project

Payment Agreement

E-Item Revision Search Revision

Ordered g 1000.0000

Price [HKD] 30.000000 / ea

Amount 30,000 HKD

Miscellaneous

- ☐ Canceled
- ☒ Std. Description
- ☐ Order Line Text
- ☐ Split Delivery Lines

Go to Receiving Tab:

General | Purchasing | Shipping | Invoicing | Receiving | Inventory | Project | Finance | Changes

Position Number J43N00385 10 0

Warehouse J43012 XIX RM incl Location

Del. address FLX000001 POWER SYSTEMS TECHNOLOGIES

Item FPSE-004-TEST-01

Lot Selection Any

Lot

Posting Status Post to Main Item

Received Qty [g] 0.0000

Release Date 10122009 15:52

Confirmed Dl.Dt.

Changed Del. Dt.

Current Planned Delivery Date 10122009 15:52

Confirmed ETD

☐ Inspection

☐ Request Value Active

Ordered [g] 1000.0000

Request Qty 0.0000

Request Date

Request ETD

Trans. Time (ISI) 0

If the posting status is 'Post to Main Item', then when you do the receipt, the inventory will go into the main item, here it's FPSE-004-TEST-01 itself.

Purchase Order 2:

Use Component as Post Item

tdpur4101s000(Purchase-Order Lines)

General | Purchasing | Shipping | Invoicing | Receiving | Inventory | Project | Finance | Changes

Position Number: J43N00386 10 0

Code Item Type: []

Item: [] FPSE-004-TEST-01

Description: Test for phantom purchasing

Project: []

Payment Agreement: []

E-Item Revision: [] Search Revision

Ordered: [g] 1000.0000

Price: [HKD] 30.000000 / ea

Amount: 30.000 HKD

Miscellaneous:

- ☐ Canceled
- ☒ Std. Description
- ☐ Order Line Text
- ☐ Split Delivery Lines

General | Purchasing | Shipping | Invoicing | Receiving | Inventory | Project | Finance | Changes

Position Number: J43N00386 10 0

Warehouse: J43012 XIX RM Ind Location

Del. address: [] FLX000001 POWER SYSTEMS TECHNOLOGIES

Item: FPSE-004-TEST-01

Lot Selection: Any

Lot: []

Posting Status: Post to Component

Received Qty: [g] 0.0000

Release Date: 10122009 16:01

Confirmed DI.Dt: []

Changed Del. Dt: []

Current Planned Delivery Date: 10122009 16:01

Confirmed ETD: []

☐ Inspection

Request Value Active: ☐

Ordered: [g] 1000.0000

Request Qty: 0.0000

Request Date: []

Request ETD: []

Trans. Time (IS1): 0

Check Planned Inventory Transaction for this 3 items:

Since we already set the Unit Conversion Factor for this 3 items before, so the inventory here is $1000 \times 0.001 = 1$

Item FPSE-004-TEST-01

whinp1500m000(Planned Inventory Transactions by Item)

File Edit View Group Workflow Tools Specific Window Help

Item: FPSE-004-TEST-01

Description: Test for phantom purchasing

On Hand: 138.0000 ea

Transaction Date	Order Type	Order Number	Pos.	Warehouse	Trans. Type	Planned Quantity	Expected Inventory	Business Partner	Success Percent.
10-06-09 14:38:00	Purchase Order	J43M00076	10	J43010	+ (Planned Receipt)	504.0000	-2.0000	SP3H00001 Anson Solder & Tin P	100.00
10-06-09 14:38:00	Purchase Order	J43M00077	10	J43010	+ (Planned Receipt)	1000.0000	-2.0000	SP3H00001 Anson Solder & Tin P	100.00
10-06-09 14:38:00	Purchase Order	J43M00079	10	J43010	+ (Planned Receipt)	1000.0000	-2.0000	SP3U00001 AR DIODG	100.00
10-06-09 14:38:00	Purchase Order	J43M00081	10	J43010	+ (Planned Receipt)	1000.0000	-2.0000	SP3U00001 AR DIODG	100.00
10-06-09 14:38:00	Purchase Order	J43M00083	10	J43010	+ (Planned Receipt)	1000.0000	-2.0000	SP3U00001 AR DIODG	100.00
10-06-09 14:38:00	Production Order	CFT300017	10	J43010	- (Planned Issue)	1000.0000	-2.0000		100.00
10-09-09 00:00:00	Production Order	J43N00183	10	J43010	- (Planned Issue)	23.6000	-25.6000		100.00
10-12-09 15:41:00	Production Order	CFT100045	10	J43010	- (Planned Issue)	100.0000	-125.6000		100.00
10-12-09 15:52:46	Purchase Order	J43N00385	10	J43012	+ (Planned Receipt)	1.0000	-124.6000	SP3H00001 Anson Solder & Tin P	100.00

Item FPSE-004-TEST-02

Item	FPSE-004-TEST-02										
Test for phantom purchasing											
On Hand	0.0000 ea										
	Transaction Date		Order Type	Order Number	Pos.	Ware-house	Trans. Type	Planned Quantity	Expected Inventory	Business Partner	Success Percent.
	10-12-09	16:01:51	Purchase Order	J43N00386	10	J43012	+(Planned Receipt)	1.0000	1.0000	SP3H00001 Anson Solder & Tin P	100.00

Item FPSE-004-TEST-03

Item	FPSE-004-TEST-03										
Test for phantom purchasing											
On Hand	0.0000 ea										
	Transaction Date		Order Type	Order Number	Pos.	Ware-house	Trans. Type	Planned Quantity	Expected Inventory	Business Partner	Success Percent.
	10-12-09	16:01:51	Purchase Order	343N00386	10	J43012	+(Planned Receipt)	1.0000	1.0000	SP3H00001 Anson Solder & Tin P	100.00

Then, Process the Purchase Order to receive this 2 orders.

Check inventory first:

File Edit View Group Workflow Tools Specific Window Help										
Item	FPSE-004-TEST-01									
Description	Test for phantom purchasing									
	Whr	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
	J43010	Normal		8.0000	0.0000	9908.0000	9141.6000	774.4000	ea	
	J43012	Normal		101.0000	0.0000	-1003.0000	10.0000	-912.0000	ea	
	J43013	Normal		0.0000	0.0000	10.0000	0.0000	10.0000	ea	
	J43030	Normal		4.0000	0.0000	0.0000	0.0000	4.0000	ea	
	J43040	Normal		25.0000	0.0000	8.0000	34.0000	-1.0000	ea	
Item	FPSE-004-TEST-02									
Description	Test for phantom purchasing									
	Whr	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
	J43010	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43012	Normal		0.0000	0.0000	1.0000	0.0000	1.0000	ea	
	J43013	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43030	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43040	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
Item	FPSE-004-TEST-03									
Description	Test for phantom purchasing									
	Whr	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
	J43010	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43012	Normal		0.0000	0.0000	1.0000	0.0000	1.0000	ea	
	J43013	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43030	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
	J43040	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	

Raise one GRN for this 2 order then confirm receipt:

File Edit View Group Workflow Tools Specific Window Help									
Receipt Number R43001903									
Order	Set	Pos.	Sequence	Item	Received Quantity	Received Quantity In Inventory Unit	Conf.		
J43N00385	1	10	1.000	FPSE-004-TEST-01	1000.0000 g	1.0000	<input checked="" type="checkbox"/>		
J43N00386	1	10	1.000	FPSE-004-TEST-01	1000.0000 g	1.0000	<input checked="" type="checkbox"/>		

Check Inventory again:

Item FPSE-004-TEST-01									
Description Test for phantom purchasing									
Wrh	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
J43010	Normal		8.0000	0.0000	9908.0000	9141.6000	774.4000	ea	
J43012	Normal		102.0000	0.0000	-1004.0000	10.0000	-912.0000	ea	
J43013	Normal		0.0000	0.0000	10.0000	0.0000	10.0000	ea	
J43030	Normal		4.0000	0.0000	0.0000	0.0000	4.0000	ea	
J43040	Normal		25.0000	0.0000	8.0000	34.0000	-1.0000	ea	

New inv. is 102

Item FPSE-004-TEST-02									
Description Test for phantom purchasing									
Wrh	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
J43010	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43012	Normal		1.0000	0.0000	0.0000	0.0000	1.0000	ea	
J43013	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43030	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43040	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	

New inv. is 1

Item FPSE-004-TEST-03									
Description Test for phantom purchasing									
Wrh	Warehouse Type	Cluster	Inventory on Hand	Inventory on Hold	Inventory On Order	Allocated Inventory	Economic Stock	Unit	
J43010	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43012	Normal		1.0000	0.0000	0.0000	0.0000	1.0000	ea	
J43013	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43030	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	
J43040	Normal		0.0000	0.0000	0.0000	0.0000	0.0000	ea	

New inv. is 1

The conclusion:

From the document you can see that once the purchased items has its components and they are set as phantom item, you must be careful when you create PO for receiving since the inventory can be post to Main Item or Component Item either. In addition, the phantom inventory can be used due to the check box of 'Use Phantom Inventory' in IPD is checked or not.