



SAP MM QM Integration



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Detailed Explanation about the MM – QM integration process

Explanation about the step-by-step procedure how to ensure the MM – QM integration process is correctly processed or not and its importance.

Why Quality inspection is needed?

The quality inspection is a procedure that involves checking the various attributes of a product or raw material and by testing it, one can ensure that it meets pre-specified standards, for reducing the downtime of the production or avoid the sales of the damaged product, which reflects the company growth & reputation

Business Scenario:

For a Company, the management decided to follow a inspection procedure for one the raw material in order to confirm the quality and specification agreed with the vendor before clearing the invoice or taken as usage stock.

So, the process usually opted in a manufacturing company, after negotiation with the vendor w.r.t price, payment terms, delivery schedule, quality etc. for a material procurement, the vendor deliver the material. Here after posting the Goods Receipt, based on Invoice Verification, the quantity is blocked to inspection and the company quality assurance team will do sampling based on the sampling procedure and analyze the quality specification, as per agreement and give clearance to use. Now the stock will move to unrestricted use or for direct consumption by the user department.

Once the inspection team give green signal, then only the Invoice Verification will be cleared for payment, or else, the stock will be blocked and future discussion with the vendor will be progressed based on the communication.

Pre-requisites:

1. The material type (e.g., ROH, HALB, FERT) should have the Quality management view
2. When on creating the material, it should have the quality management view or else we can also extend the view through MM01.
3. Under the Quality management view the Inspection setup must be activated and assign the inspection type as 01 – Goods Receipt inspection for order, and tick the post to inspect field.

Display Material 100033 (BFL RAW MATERIAL)

Additional Data Org. Levels

Plant data / stor. 2 Quality management Accounting 1 Accounting 2

Material: 100033 MRP material-1

Plant: BFL BFL pvt.ltd

General data

Base Unit of Measure	PC	Pieces	<input checked="" type="checkbox"/> Inspection setup	Insp. setup
Unit of issue			<input type="checkbox"/> Documentation reqd	
QM material auth.			Inspection interval	0 days
GR Processing Time	0	days	Valid from	
Catalog profile				
Plant-sp.matl status				

Procurement data

QM proc. active


QM Control Key 0007 Delivery Release, Invoice Block

Certificate type

Target QM system

Tech. delivery terms

Plant BFL Material 100033 : Inspection Setup Data

S...	InspType	Short text	Preferre...	Active	Ins...
<input checked="" type="checkbox"/>	01	Goods Receipt Inspection for Order	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Inspection Type: 01 Goods Receipt Inspection for Order

Detailed information on inspection type

<input checked="" type="checkbox"/> Post to insp. stock	Smpl.procedure	<input type="checkbox"/> Serial numbers poss.
<input type="checkbox"/> Insp. for HU	<input type="checkbox"/> 100% inspection	Avg. insp. duration
<input type="checkbox"/> Insp. with mat spec.	Inspection %	0
<input type="checkbox"/> Insp. with task list	<input type="checkbox"/> Manual sample calc.	Q-Score Procedure
<input type="checkbox"/> Insp. by configuratn	<input type="checkbox"/> Manual sample entry	06 Q-score from...
<input type="checkbox"/> Automatic assignment	Dyn. mod. rule	<input type="checkbox"/> Allowed scrap share
<input type="checkbox"/> Check Chars	<input checked="" type="checkbox"/> Skips allowed	0.0000
<input type="checkbox"/> Multiple Specs	<input type="checkbox"/> Automatic UD	Control insLot
		For each materi...
		<input type="checkbox"/> Individual QM order
		QM Order

4. Unlike we have Vendor material combination like PIR, for purchasing material, the QM also has the QIR – Quality info record: Procurement T-Code - QI01, where we have to maintain the relevant information, such as by when the stock has to be released. Based on the average inspection duration, maintained in material master record. Once the data is entered, save it. Here unlike the PIR generate the doc, the QIR won't generate,

Create Q-Info Record

Material	100033
Revision Level	
Vendor	2500010026
Plant	bfl

Copy model	
Material	
Revision Level	
Vendor	
Plant	

Change Q-Info Record

Administrative Data... Status Status management Change documents Purchasing info record

Material	100033	MRP material-1	
Revision Level			
Vendor	2500010026	mrp vendor-1	
Plant	BFL	BFL pvt.ltd	

Deletion flag

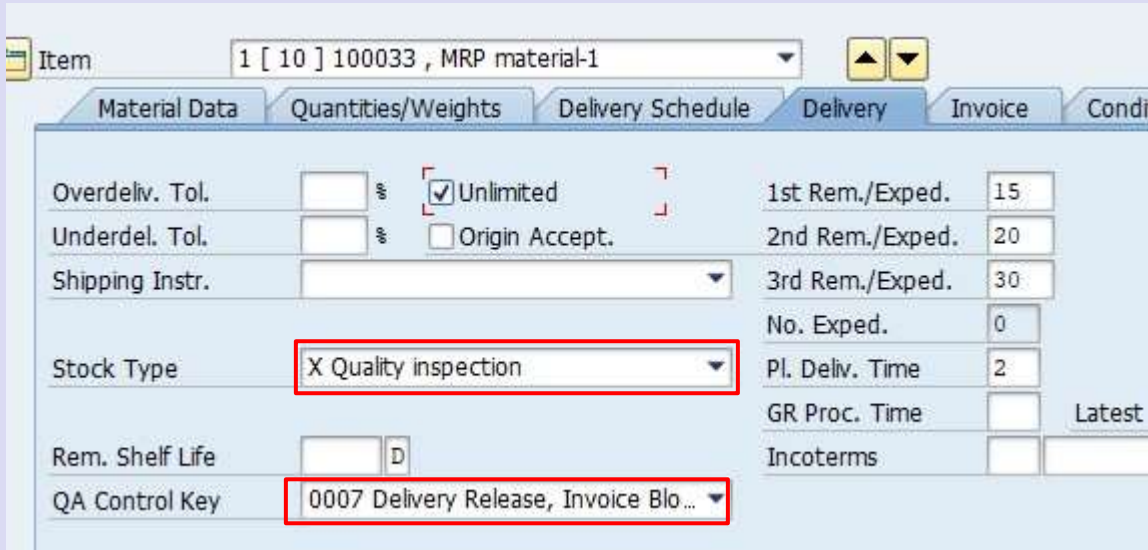
Release Insp. control Status Quality agreement

Release date	
Release Until	25.10.2022

Release quantity	
<input type="checkbox"/> Release qty. active	
Release quantity	Unit of measure PC
Ordered quantity	Reset on 19.10.2022

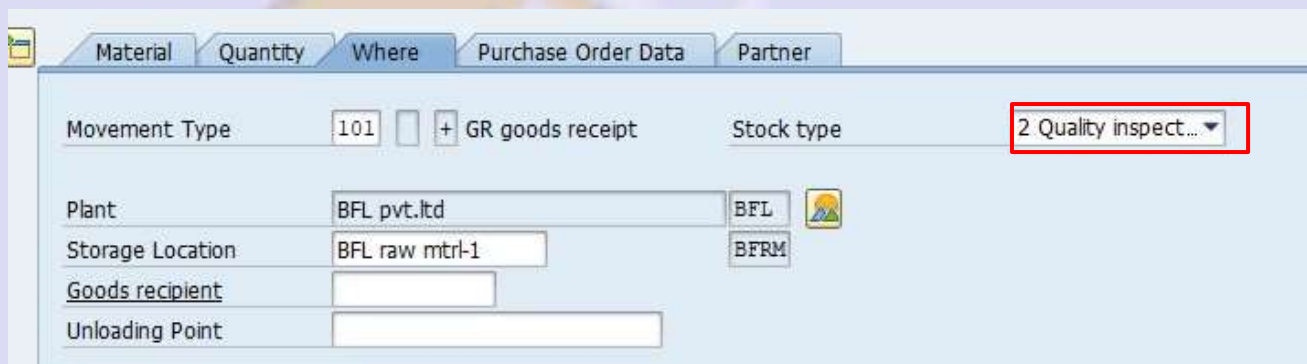
Block	
Block function	01 Block purchase order
Block reason	02 Block req. for quotation and pur.order
Vendor block	03 Block pur.order/RFQ and goods receipt
	04 Block source determination
	99 Total block

- Now while doing the PO for this material, at item detail level, under delivery tab, we could see the stock type & QA control key as defaulted, this is coming through the material master.



The screenshot shows the SAP Item Master configuration for material '1 [10] 100033, MRP material-1'. The 'Delivery' tab is active. The 'Stock Type' is set to 'X Quality inspection' and the 'QA Control Key' is '0007 Delivery Release, Invoice Blo...'. Other fields include 'Overdeliv. Tol.' (Unlimited), 'Underdel. Tol.' (Origin Accept.), 'Shipping Instr.', '1st Rem./Exped.' (15), '2nd Rem./Exped.' (20), '3rd Rem./Exped.' (30), 'No. Exped.' (0), 'Pl. Deliv. Time' (2), 'GR Proc. Time' (Latest), and 'Incoterms'.

- Now after goods entry through MIGO, we could see the stock type flow through the PO. The accounting entries are similar to the regular unrestricted stock, but until the material get cleared by the inspection, the Invoice receipt cannot be cleared for payment to vendor.



The screenshot shows the SAP Purchase Order Data screen. The 'Stock type' is set to '2 Quality inspect...'. Other fields include 'Movement Type' (101), 'GR goods receipt', 'Plant' (BFL pvt.ltd), 'Storage Location' (BFL raw mtrl-1), 'Goods recipient', and 'Unloading Point'.

- Now if we check the stock of this material through MMBE, the stock will be under quality inspection must be cleared by QM.

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Re
Full		100.000	
BFL BFL India Pvt Ltd		100.000	
BFL BFL pvt.ltd		100.000	
BFRM BFL raw mtrl-1		100.000	

8. Now to clear the material which is under inspection, the QM will run T-Code QA32, and give entry of the material number and select the inspection listing as select all inspection lots or appropriate and execute to view and give usage decision (UD)

Inspection Lot Selection

My default

Inspection lot selection

Selection Profile				
Lot created on	13.10.2022	to	20.10.2022	
Insp. start date		to		
End of Inspection		to		
Plant	BFL	to		
Insp.lot origin		to		
Material	100033	to		
Batch		to		
Vendor		to		
Manufacturer		to		
Customer		to		
Material class	Class selection			
Maximum No. of Hits	100			

List settings

- Select all inspection lots
- Select only inspection lots without a usage decision
- Select only inspection lots with a usage decision

Layout: 1STANDARD

Ref. field monitor: 3 Degree of proc. for insp. lot

Change data for inspection lot: Worklist for Inspection Lots

Usage decision (UD) Defects Defects Results Inspection

Monit...	A	Insp. Lot	Material	Plant	Lot Qty	BU	LT...	ST...	Start date	End Date	System Status
		4262	100033	BFL	100	PC	0	0	19.10.2022	19.10.2022	REL CALC SPRQ

9. Now the usage decision screen will appear and here, we need to give the clearance w.r.t the quality and quantity entry of the material and save. Here we can also upload the inspection report.

Record Usage Decision: Stock

Stock posting log Material documents.. Stock Inspection Lot Q-info record Change history

Inspection Lot: 4262
 Material: 100033 MRP material-1
 System Status: UD ICCO SPRQ UserStatus:
 Insp. End Date: 19.10.2022

Defects Inspection lot stock

Insp. Lot Qty: 100 PC Insp. stock
 Sample size: 0 PC

Doc...

Quantity posted	To be posted	StLoc
Total: 0	100	Proposal
To unrestricted use: 0	100	BFRM Document
To scrap: 0		BFRM Document
To sample usage: 0		BFRM Document
To blocked stock: 0		BFRM Material
To new material: 0		0002 Document
To reserves: 0		Document
Return Delivery: 0		

10. Now let us check the stock for this material

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection
Full	100.000	
BFL BFL India Pvt Ltd	100.000	
BFL BFL pvt.ltd	100.000	
BFRM BFL raw mtrl-1	100.000	

11. Now the material can be use by the user dept. and also the Invoice Receipt can be processed for payment.

12. If the material is shifted to blocked then, we communicate with the vendor for next action plan, if this blocked stock should be used then we must move the stock from blocked to unrestricted through MIGO – MvT type – 343

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Blocked
Full	100.000	400.000	100.000
BFL BFL India Pvt Ltd	100.000	400.000	100.000
BFL BFL pvt.ltd	100.000	400.000	100.000
BFRM BFL raw mtrl-1	100.000	400.000	100.000

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Blocked
Full	200.000	400.000		
BFL BFL India Pvt Ltd	200.000	400.000		
BFL BFL pvt.ltd	200.000	400.000		
BFRM BFL raw mtrl-1	200.000	400.000		



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