Return to Vendor Process (Rework Purchase Orders from Quality Notifications)

Applies to:
SAP R/3 ECC 5.0/ECC 6.0. SAP Material Management and Quality Management : Rework PO creation and Goods Issue to Vendor from Quality Notifications. For more information, visit the Supply Chain Management homepage.

Summary
This Article demonstrates the functionality that automates creation of rework Purchase Orders and Goods issue warehouse to subcontracting stock to vendor and generates Material Transfer form from the Quality Notifications with a single click action. Action Box in the Quality Notification is configured to create rework POs and Transfer posting with Movement type ‘541- Goods Issue Warehouse to Subcontract stock. Most of the required fields are auto-populated into ME21N screen with Document type defaulted as Rework PO and MB1B screen with movement type 541.

All the Information like Material, Quantity, vendor, purchasing group etc. are auto populated into ME21N screen and also for MB1B, all the information from rework PO is copied to this screen with movement type 541.

This article explains about
- Develop a Custom Quality Notification type for defect recording for the materials procured from external vendors. This notification will have details like Material, Quantity, serial number/Batch, description of Defects, Fine diagnosis, Vendor, Purchase order, Tasks/Result etc.
- Configuring the action box in the Quality notification to create Rework POs and Send materials to vendor for rework.
- Validating the process of the rework Purchase order during Goods receipt for the rework PO
- Setup up work flow to send emails to all concerned people from Quality notifications

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Created on: 24 December 2009

Author Bio
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Introduction to Return to Vendor Process

Some Materials procured from External resources might need to go through Quality Inspection to check that all the specifications are within the allowed tolerance of the Material Specifications.

If any defects are found during Quality Inspection, Quality control department will record these defects by creating quality notifications and take a final disposition decision saying whether to scrap it, return the goods to vendor or send the material back to vendor for rework etc.

If the Quality Control department makes a decision to send the material to vendor for rework, they have to communicate with purchasing department to initiate the rework purchase order to the vendor, and then send the material by posting a Material Document with 541 movement type in MB1B – Transfer Posting.
Process Flow for Return to Vendor process

1. Goods Receipt for Purchase order
2. Quality Inspection
3. Defect Found (Yes/No)
   - Yes: Move to Work in Progress Location
   - No: Move to Blocked Stock
4. Quality Inspection
5. Defect found during Work in Progress
6. Move to Material return Location
7. Create Quality Notification
8. Disposition
9. Return to Vendor for Rework
10. Create Rework Purchase order
11. Transfer Posting (Goods Issue Warehouse to Subcon stock)
12. Generate Material Transfer Form
13. PO number populated into Quality Notification
14. Material Document number populated into Quality Notification
15. Send Material to vendor
16. Rework performed by Vendor
Configuration Steps

Step 1: Configure a Quality Notification type for Defect Recording

A New Quality Notification is configured to record all the details of the defect recorded in the products which go through Quality Inspection after being received against the Purchase orders/Scheduling Agreements, Stock Transport orders or contracts etc.

Menu Path: SPRO --> Quality Management --> Quality Notifications --> Notification creation --> Notification Types --> Define Notification Types

This Quality Notification will have all the details of the defect like Material, Quantity, Tracking ID, Inspection lot, Description, Defect location, defect type etc.

Tasks will be created and assigned to the concerned people so that they can take action.

Work flow has been set up such that system sends an email to the user responsible for the task thru this quality notification. The email will contain the task and quality notification details. Once the user completed the task in Quality notification, work flow will send the task completion notice thru email to the author of the Quality notification.
Return to Vendor Process (Rework Purchase Orders from Quality Notifications)

Field Selection: Influencing Field

Modified fields

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<th>Modified field</th>
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<th>Cap</th>
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Status: OSNO OSTS
Description: TestNotification

Funct    Partner   Name                     Address
Author   MANJUNATHAN Manjunatha Neelammaga... Neelammagari, ,
         
AuthorAddress
         MANJUNATHAN Neelammagari
         Manjunatha
Step 2: Configure the Action Box in Quality Notifications

Menu Path: SPRO --> Quality Management --> Quality Notifications --> Notification processing --> Additional Notification Functions --> Define Action Box

Function defined to create Rework Purchase Order

- A Function Module is assigned to this function while defining for the Action Box. This function module enables the user to create Rework Purchase orders from the Quality Notification.

- It is configured in such a way that when user clicks the button ‘Create Rework Purchase order’, system navigates to ME21N with Document type defaulted as ‘Rework PO’ and most of the details like Material, Quantity, Vendor, Purchasing Group, the line item is by default marked as a Free Item’.

- Once Rework PO is created, it is populated into the PO# field in the Quality Notification which can be viewed from here.
Function defined for Transfer Posting with movement type 541 – Goods issue to subcon stock

- A Function called ‘Send Material to vendor’ is configured as a Function for the action box of the quality notification.
- Clicking on the button ‘Send Material to vendor’ will take the user to MB1B screen with movement type defaulted as ‘541 - Goods Issue Warehouse to Sub contracting stock’ and the PO details from VR is auto populated into this Screen which copies Material, Quantity and the Vendor.
- Once Material document is posted, it is populated into the Material Document field in the Quality Notification.
Function defined to Print Material Transfer Form

- Material Transfer form Smart Form has been configured to provide additional details from the Notification like Purchase order, Quality Notification number and other details.
- Output type for Transfer Posting is configured to generate a Material Transfer form immediately after the material document is posted.
- This Material Transfer form contains all details of the Material Document along with some additional information like Quality Notification#, Vendor details etc and can be printed from Notification.
Process Steps in Return to Vendor Process

Step 1: Creation of Quality Notification

Transaction: QM01

A Quality Notification is created to record the defect found in the product during quality Inspection.

After creating the Quality Notification, Quality Control Department will take a disposition decision to scrap it, return the goods to vendor or send the material back to vendor for rework etc.

If the Quality Control department makes a decision to send the material to vendor for rework, they can create the Rework Purchase order by clicking the button ‘Create Rework Purchase order’ in Change view of quality notification.
Step 2: Creation of Rework Purchase order

Transaction: ME21N

- System opens ME21N(Create PO) in same screen
- Document type defaulted as rework PO
- Supplier info, Material and Qty is copied from Quality Notification and auto-populate into PO
- Material, Qty will be copied from Quality Notification into Components of Rework PO
- Purchasing group will be the Quality controller who creates PO
- Any required Components have to be entered manually by Quality controller
- Quality Notification # and Description copied into Text of rework PO
- Item marked as ‘Free Item’
- Once saved, PO will be populated in PO# Field in Quality notification and a task will be added in the Quality notification saying Rework PO# is created and assign it to the Purchasing group (From Material Master).
- once Quality Notification is saved, system sends out an email containing PO details to Purchasing group
- If a PO is cancelled or deleted and a new PO is created, the PO field in Quality notification will be updated with new PO.
- Workflow is configured and activated for this quality notification so that Email communication can be triggered between the author and user responsible when a task is created or completed in Quality Notification.

Transaction: MB1B

- **Goods issue to vendor for rework directly from VR**
  - ‘Goods issue to Vendor’ button to appear in the action box of Quality Notification in QM02
  - Supplier info, Material, Qty, serial number/Batch is copied into MB1B screen with movement type ‘541’
  - Goods Issuing location will be ‘Material Return Location’
  - Material Document will be populated in the field provided in Quality Notification.
  - PO#, PO Text description copied to document header Text from Quality Notification.

---

**Enter Transfer Posting: Initial Screen**

- **Document Date:** 12/28/2009
- **Posting Date:** 12/28/2009
- **Material Slip**
- **Doc. Header Text**
- **Reference: Purchase Order**
- **Movement Type:** 541
- **Plant**
- **Storage Location**
- **Purchase Orders**
  - **PO**
  - **Item**
  - **GR/GI Slip**
  - **Print**
  - **Find POs**
    - Material
    - Supplying plant

- **Adopt + Details**
Step 4: Generate Material Transfer Form

Output type WA03 is configured to generate the Material Transfer form as soon as the 541 movement type Material document is posted.

The Smart form of this material Transfer form is customized to accommodate some additional details like Quality Notification, RMA#, vendor details.

**Change GI Note Vers.3 (WA03): Selection**

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<th>GI, Trsfr Posting, Other Good</th>
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<td>Individual Slip with Inspecti</td>
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**Change Condition Records (GI Note Vers.3): Fast Change**

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<td>Print Version</td>
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<td></td>
<td>Material Document Pr</td>
<td>1</td>
<td>4</td>
<td>EN</td>
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</tbody>
</table>
Step 5: Goods Receipt against Rework PO

- A Task will be assigned in the Quality Notification to the Purchasing group of the Material after the rework PO is created for this Material from the Quality Notification.
- An email will be sent to the User responsible while saving the Quality Notification which contains the details of the task assigned in Quality Notification.
- Purchasing group will review the Rework PO and make the required changes like changing price, Delivery date etc and completes the task in Quality Notification.
- User exit in the MIGO screen will be coded such that System will validate whether the task assigned to the Purchasing group to review the Rework PO created is completed.
- If the Task to review rework PO is not yet completed in Quality Notification, System will give the error regarding this incomplete task.
- Receiving department will coordinate with Quality assurance and Purchasing department to complete the task in Quality Notification so that they can receive the parts on rework PO.
Conclusion:
The new enhancement will save lot of time creating the rework POs automatically and also perform the Transfer posting just by a mouse click from Quality Notification; all the details from the Quality Notification will be copied to Rework PO.

Related Content:
For more details please see-
www.help.sap.com
Related Content
For more information, visit the Supply Chain Management homepage.
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