

WS90500032 - Requisition Release WS, w/Auto Approve

Business Process:

Departments, Labs and Centers (DLC's) have the option of having auto-approve turned on or off. If auto-approve is turned on, when a requisition that hits a release strategy is entered workflow looks to see if the creator of the requisition is also assigned as the appropriate level 1 and/or level2 approver. If the requisition requires both Level 1 and Level 2 approval and the creator is assigned as only a Level 1 or Level 2 approver, WS90500032 will first try to perform auto-approve for the first level of approval. If the auto-approve is not successful WS90500032 calls WS90500022 which routes the work item to the appropriate persons for approval. When the first level of approval is completed WS90500022 returns the work item to WS90500032 to try and apply auto approve for the second level of approval if necessary. If the auto-approve fails for the second level of approval WS90500022 is called again to repeat the routing process for approval. If the auto-approval is successful for all required approval levels, the work item is fully approved and the workflow is completed. At that time, the work item waits for the Procurement Office to run it's report and place the order(s).

Technical Overview:

Task: WS90500032 *Req_Rel_Auto*

Name: *Requisition Release WS, w/Auto Approve*

In July 2009, added steps to evaluate whether central office had rejected the requisition by resetting the release status. When central office does this via ME54N, it triggers the event ReleaseStepCreated, which is the event that is triggered when the requisition is first created or needs a 2nd level approval. If central office rejects the requisition, the change log indicates that the release status has been reset and the item goes back to the creator prior to re-entering its normal DLC approval process.

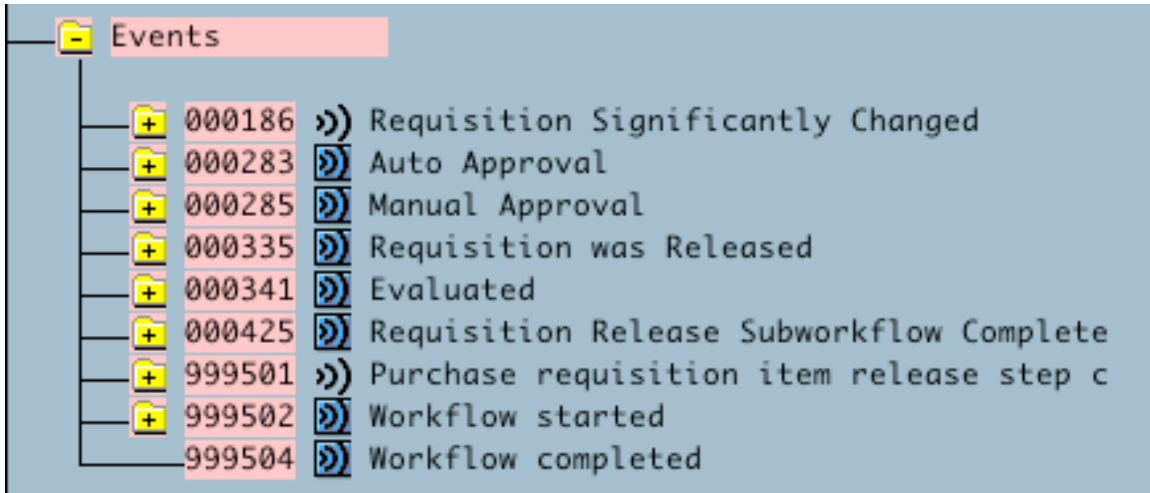
In September 2009, this project was canceled because the Purchasing Office realized it would only impact requisitions subject to release. 60% of MIT's requisitions are not subject to release!

WS90500032 is the auto-approve workflow and use to be called by WS91000009 (Requisition Release WS – FRAME). But now that material group changes can trigger a new release strategy, which would inappropriately clear DLC level approvals, all DLCs will have “auto-approve” evaluated. Therefore WS91000009 was dropped and all requisitions kick off WS90500032. The step 338, that evaluates auto release via method EVALAUTOREL now first checks for a material group change that triggered the workflow. If a material group change did not trigger the workflow it will check to see if the DLC chose the old vanilla workflow, WS91000008, or the auto approve workflow WS90500032. If the vanilla workflow was chosen, then EVALAUTOREL returns false.

As soon as WS90500032 is triggered, event 999502 (Workflow started) is raised. Event 999501 (Req.item release step created) is not linked to a triggering event, and therefore is not used. *(I don't understand these last two sentences But below is the picture*

WS90500032 - Requisition Release WS, w/Auto Approve

from the workflow builder) The WF Administrator can raise event Workflow Started by using transaction SWUS. It use to be that this was not done, because the requisition workflow needed to be started with WS91000009 to ensure the work item flowed through the complete workflow path. But today it can be started directly. If WS91000009 is manually started accidentally it will automatically start WS90500032 anyway because the attribute, RequisitionWorkflow, will always return the value WS90500032.



WS90500032 determines whether or not the creator can approve the work item, or WS90500022 needs to be called. If the creator is listed in the PD Org structure as an approver the approval step will be performed in the background by WF-Batch, otherwise the work item will be routed to the appropriate user(s) inbox for the required approvals. If the work item requires level 1 and level 2 approval and the creator is a level 2 approver but not a level 1 approver, WS90500032 will call WS90500022 and the work item flows through WS90500022 to receive the level 1 approval. Once the level 1 approval is received, the work item is returned to WS90500032 and flows through to get the level 2 approval. When the auto approval is applied in the background (by the system) users do not have the option of changing requisitions once they are created. Since auto approved requisitions can not be changed, WS90500032 does not have to handle any of the decision steps necessary to route work items that have been rejected, deleted, or significantly changed. These decisions are handled in WS91000008 and WS90500022.

Once the work item is fully released, it becomes available for Procurement to convert the requisition to a purchase order. This is done by Procurement in one of three ways to convert the requisitions.

The first is ZREQ003 (transaction ZRQA, which will soon become obsolete once all departments have adopted the 3rd way described below –DoF is still using ZRQA as of July 2009) which goes through table EBAN looking for all fully released requisitions and gives the user a report of the requisitions. The user can then drill down on a requisition and convert it to a purchase order. After the purchase order is created, WS92600012 (PO Created - Notify Requisition Creator) is kicked off by the program ZREQ003. This workflow executes a method, NotifyPOCreated, in business object

WS90500032 - Requisition Release WS, w/Auto Approve

ZBUS2012, which notifies the creator of the web requisition that a purchase order has been created.

The second is ZRQTOPO, which runs in background. This program grabs any requisition with DocType=WB (which signifies an ECAT requisition) that is fully released and converts the requisition to a purchase order in a BDC session. After the purchase order is created, WS92600012 (PO Created - Notify Requisition Creator) is kicked off by the program ZRQTOPO. This workflow executes a method, NotifyPOCreated, in business object ZBUS2012, which notifies the creator of the web requisition that a purchase order has been created.

The third is via SAP transaction ME21N, SAP's Enjoy transaction for creating POs. Essentially, all the special processing logic from ZREQ003 has been included in user exit(s), BADI(s), etc. for this SAP transaction. This special processing logic includes the kicking off of the 'Notify Requisition Creator' workflow. The use of this transaction will eventually replace the use of ZREQ003 described above.

- Step 000184 Wait for Significantly Changed (*I thought that WS90500032 did not have to handle this?!?*) Executes at fork as a wait step. This step will wait until event significantly changed is raised. Result = Event 000186 Requisition Significantly Changed
- Step 000338 Evaluate Requisition Release – Executes at fork. Requisition release contains task TS91000004, which is set to perform in the background, and uses Object Type BUS2009 (extension is ZBUS2009), Method EVALAUTOREL, and gets the container element RELEASECODE, then calls Function Module Z_EVAL_REQ_AUTO_APPROVE. This function module:
 - Importing EBAN and RELEASECODE
 - Exporting XAPPROVEFLAG
 - Tables ACTOR_TAB and AC_CONTAINER
 - Looks for workflow assignment. If assignment = 1 raises exception NOBODY_FOUND and sets the container element APPROVEFLAG as False.
 - If the assignment = 9 PERFORM GET_CENTRAL_APPROVERS, which looks through the PD Org structure and uses the job number to get all positions related to that job. Workflow then looks for the related Fund Center within the related jobs. Once the Fund Center is found workflow then gets a list of possible agents related to the Fund Center. If the creator is also a possible agent (approver) the Container Element APPROVEFLAG is True.
 - Result = Event 000341 Evaluated
- Step 000280 Auto or Manual Approve? – A conditional step that uses Container Element APPROVEFLAG = Y to determine whether approval will be performed with Auto Approval or Manual Approval. The result of this step is a fork with one of the 2 following terminating events as the final action. The terminating event determines which branch of the workflow the work item will continue down.
 - Result = Event 000285 Manual Approval –OR-

WS90500032 - Requisition Release WS, w/Auto Approve

- Step 000422 MIT Requisition Release Subworkflow – If container element APPROVAEFLAG is False WS90500022 (MIT Requisition Release SubWS) is kicked off. Work item continues through end of fork. Result = Event 000425 Requisition Release Subworkflow Complete
- Result = Event 000283 Auto Approval
 - Step 000330 Requisition Release Background. Contains task TS91000003 that uses Object Type BUS2009 (extension is ZBUS2009), and Method RELEASEBACKGROUND. This task gets container element RELEASECODE and calls function module Z_REQUISITION_RELEASE to automatically perform a requisition release in background. If Z_REQUISITION_RELEASE is unable to complete due to an error (agent or Fund Center not found in Org structure) the return will be an error. If no errors occur the requisition will be released in the background. The result of this step is Event 000335 Requisition was Released
- Step 999503 Complete Workflow – The workitem is completed and WS90500032 ends. Result = Event 999504 Workflow completed

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