

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Configuration Guide

Goods Receipt Inspection Lot Supplier Negotiation
using SAP Build Process Automation or SAP Workflow
Management

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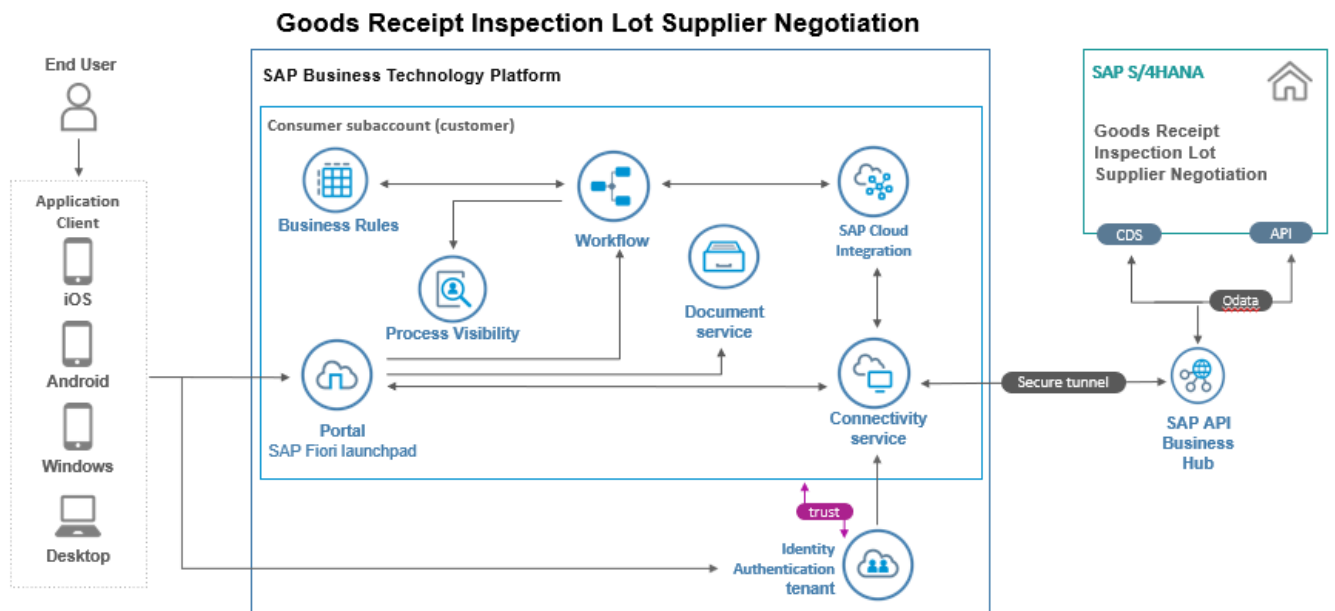
Overview

This document provides information about configuration steps to consume the live process package Goods Receipt Inspection Lot Supplier Negotiation. The main audience of this document are Procurement Experts, Finance experts, Developers and Product owners.

The Goods Receipts Inspection Lot Supplier Negotiation content package enables SAP S/4HANA customers to automate the approvals required to negotiate with the Supplier about the rejected lots and post the material document using SAP Build Process Automation or SAP Workflow Management without additional development in SAP S/4HANA.

Salient features of this content package are:

- Plug and Play with SAP S/4HANA without any additional development.
- Process steps delivered to approve Rejected Goods Receipt Inspection Lots.
- Automatic email notification to parties involved.
- Business Rules provides flexibility in determining approver determination strategy and approvers.
- New variant of the process can be created using the pre-delivered process steps in a no-code / low-code approach.
- Out-of-the-box visibility into key process performance indicators of the Rejected Goods Receipt Inspection Lot.



Live Process Artifacts

A package consists of process templates, process steps, decisions, and process visibility models. Please refer [help documentation](#) about these artifacts.

Process

A process template is a set of business activities and tasks that, once completed, fulfills an organization approval process. The **Goods Receipt Inspection Lot Supplier Negotiation** package contains the following process template:

Goods Receipt Inspection Lot Supplier Negotiation – Create material document posting for the rejected Goods Receipts inspection lots in SAP S/4HANA with a multilevel approval process. It includes start and end process steps for easy no-code/low-code configuration.

A business process can be broken down logically into smaller parts or steps. Each process step is a collection of activities to perform a specific task. For example, an approval process step can contain an activity to determine the approvers, an approval task itself, notifications activities, and handle the approval result. Table 1 represents the list of process steps available to be used in Goods Receipts Inspection Lot Supplier Negotiation.

Table 1. Process Steps

Process Steps	Cardinality	Detailed Description
PriceNegotiation	1..1	This step initiates the negotiation process between Procurement Team and the Supplier about the rejected inspection lots. Negotiation process can happen either with 'Supplier with User Task' or 'Supplier without User Task'. The Procurement team is determined based on Plant and Purchase Organization. The Procurement team and Supplier automatically notified via mail about the negotiation happened between each other.
InspectionLot Approval	1.. N	This step initiates and completes one level of approval for the Rejected Inspection Lot. This step can occur multiple times in the process variant. Based on the number of approvals required, this step can be re-used multiple times. It is possible to rename the step to appropriate approval roles, for example, 'Approval by Procurement Head'. The approver is determined based on various conditions using a business rule. The requestor and the approver are automatically notified via mail about the decision and approval task, respectively.
MaterialDocumentPosting	1..1	Create Material document posting for the rejected lot quantity in SAP S/4HANA system after completion of all the configured approval steps. This step can occur only once, and it should be the last step in a process variant. If there is any success or error while creating material document posting, notification mail will be triggered to the Procurement team.

A process step can have customizable properties and they could determine the outcome of the process step. For example, the Approval step can be reused multiple time and based on these properties the approver is determined.

Approver can see Goods Receipts Inspection Lot history such as negotiation happened between Procurement Team and the Supplier etc., Please see Table 2 for more details

Table 2. Process Step Properties

Process Step	Properties	Detailed Description
InspectionLotApproval	Level Name	Based on the name of the approval level, the approver is determined using a business rule. Default value is 'Procurement Head', and it can be configured to any approval level, provided the same approval level name is configured in the business rule

The process has attributes, and these attributes are available in process visibility to search approval process instances and to define process performance indicators. Please see Table 3 for more details.

Table 3. Process Attributes.

Process Attributes	Detailed Description
companyCode	Company Code
Material	Material
plantName	Plant Name
storageLocation	Storage Location
Supplier	Supplier
ApprovalStatus	Approval Status
purchasingOrganization	Purchasing Organization
approvalStatus	Approval Status
baseUOM	Base UOM
poNumberItem	Purchase Order/Item
inspLotBlockedQuantity	Inspection Lot Blocked Quantity
inspectionLotQuantity	Inspection Lot Quantity
inspectionLot	Inspection Lot Number

The following (sample) context required to start the Workflow:

```
{
  "ManageInspLot": {
    "companyCode": "1110",
    "materialDocument": "5000000047",
    "materialDocumentItem": "0001",
    "purchasingOrganization": "1110",
    "batch": "INS",
    "usageDecision": "R1",
    "materialDocumentYear": "2021",
    "storageLocation": "111A",
    "inspectionLot": "10000000163",
    "baseUOM": "PC",
    "materialDescription": "QM Regular",
    "inspectionLotQuantity": "20",
    "valuationCode": "R",
    "material": "INSLOT",
    "poNumberItem": "4500000010/00010",
    "plant": "1110",
    "systemStatus": ""
  }
}
```

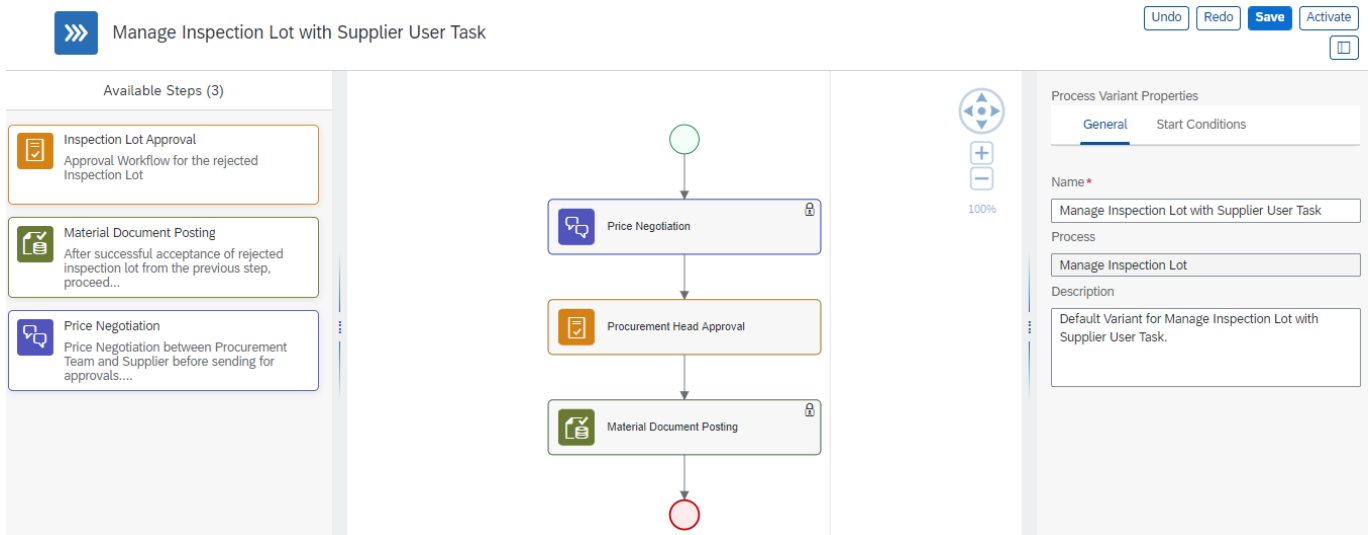
```
"supplier": "11200001",
"inspLotBlockedQuantity": "10",
"plantName": "Plant 1 GB"
},
"manageInspectionDetails": {
  "companyCode": "1110",
  "plant": "1110",
  "purchasingOrganization": "1110"
},
"History": ""
}
```

Process Variants

A process variant consists of multiple process steps configured by a line of business expert. It is possible to create multiple variants of the same process.

Please refer [help documentation](#) about how to import content packages and configure a process variant.

An example of Manage Inspection Lot variant is given below. It is possible to configure multiple variants of this process.



Import Goods Receipt Inspection Lot Supplier Negotiation and Configure Process Variants with SAP Build Process Automation

1. In the [SAP Build Process Automation Store](#), search for live process package Goods Receipt Inspection Lot Supplier Negotiation and import the same. This content package has one process template and process variant(s) for that template.
2. In the Application Development [Lobby](#), click to open the package with name Goods Receipt Inspection Lot Supplier Negotiation. This opens the package in a new tab/window.
3. Click the + icon next to the process template to create a new process variant.
4. Enter Name of the new Process Variant (ex, Two Step Approval).
5. Click the newly created Process Variant tile to save and activate the process variant.
6. The process variant has a default implementation with two steps and at least one level of approval.
7. It is possible to remove steps like “Approval for Goods Receipt Inspection Lot Supplier Negotiation” from a process variant only if there are multiple approvals. Please note that whether a step is mandatory or optional, and how many a times any step can be used within a variant, are dependent on the constraints defined on the process steps.
8. Save and activate the variant. A successful activation will create a new workflow definition in the account that can be viewed in the [Monitor Processes and Workflows app](#).

Import Goods Receipt Inspection Lot Supplier Negotiation and Configure Process

Variants with SAP Workflow Management

1. In Process Flexibility Cockpit app, search for content package Goods Receipt Inspection Lot Supplier Negotiation and import the same. Please refer the standard help document about [how to import a content package](#). This content package has one process template and process variant(s) for that template.
2. Open content package in Flexibility Cockpit and click Process Variants tile.
3. Click New Process Variant.
4. Enter Name of the new Process Variant (ex, default) and select “Goods Receipt Inspection Lot Supplier Negotiation” as Process.
5. Click the newly created Process Variant tile to save and activate the process variant.
6. The process variant has a default implementation with two steps and at least one level of approval.
7. It is possible to remove steps like “Approval for Goods Receipt Inspection Lot Supplier Negotiation” from a process variant only if there are multiple approvals. Please note that whether a step is mandatory or optional, and how many a times any step can be used within a variant, are dependent on the constraints defined on the process steps.
8. Save and activate the variant. A successful activation will create a new workflow definition in the account that can be viewed in the Monitor Workflows – Workflow Definition app in SAP Fiori Launchpad.

Decisions & Policies

Decisions allow to encapsulate the business logic from core applications and supports the reuse of business rules across different business processes. Decisions enable customers to adopt changes in processes without changing the underlying workflows or application logic. SAP Build Process Automation or SAP Workflow Management has business rules capabilities that enables customers to centrally manage all decisions. Please go through the [business rules capabilities](#) in SAP Build Process Automation or SAP Workflow Management.

Goods Receipt Inspection Lot Supplier Negotiation process will enable the customers to flexibly configure decisions to gain the flexibility.

1. **Determine Procurement Team**
2. **Determine Approver**
3. **Approver Determination Strategy**
4. **Determine Process Administrator**

Determine Procurement Team

Rule service used to identify the Procurement Team based on different company policy. Procurement User will be determined depending on Plant and Purchase Organization. In this business rules Due date

will be the business rules determined by a text rule based on Manage Inspection details. Every approver will have their respective due date in their approval task.

Rule Service: Determine Procurement Team
Input Data Object: Procurement Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Plant	String	Plant associated with the Inspection Lot
Purchase Organization	String	Purchasing Organization of an Inspection Lot

Output: Procurement Team Result (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Mail ID	String	Email address of the Procurement Team
Group ID	String	The user group who can negotiate the step-in workflow
User ID	String	User ID of the individual Procurement User

Rule Definition

Rule Service used to determine the Procurement Team that needs to be notified to negotiate with Supplier of a Rejected Lot

Determine Approvers

Rule service used to identify the potential approvers based on different company policy. Approver will be determined depending on Company code, Plant and Purchase Organization and Level Name. In this business rules Due date will be the business rules determined by a text rule based on Manage Inspection details. Every approver will have their respective due date in their approval task.

Rule Service: Determine Approver
Input: Manage Inspection Lot Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Company Code	String	Company Code to which the Manage Inspection belong to.
Plant	String	Plant associated with the Inspection Lot
Purchase Organization	String	Purchasing Organization of an Inspection Lot
Level Name	String	Level Name

Along with the above attributes the other attributes can also be added as input parameters in this business rule.

Output: Approver Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Mail ID	String	Email address of the approver or approvers.
Group ID	String	A user group who can approve the step-in workflow. .
User Id	String	User ID of the individual approver.
Is Approval Required	Boolean	Check if approval is required. True for required and false not required.
Unit of Time	String	Unit of time of due duration.
Task Due Duration	Number	The task due duration target by which the user task needs to be completed.
Due Duration Reference Event	String	Reference to an event in the workflow to determine the target of the user task

Rule Definition

Rule service used in the approval process step to identify the potential approvers based on different company policy

Due Date Determination Policy

Determine the due date duration for each approval step of the Manage Inspection Lot approval process. Based on the reference to determine the due date and the due duration, the approval task's deadline is calculated automatically.

Rule Name: Determine Task Due Date

Input: Manage Inspection Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Company Code	String	Company Code to which the Manage Inspection belong to.

Output: Duration Due (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Duration Reference	String	Reference event in workflow that is used to determine the due date of user task
Unit of Time	String	Unit of Time
Duration	Number	Duration

Rule Definition

Rule service used in the approval process step to identify the potential approvers task due date details based on different company policy

Approver Determination Strategy

The application will have two ways to identify approver. To identify the approver determination strategy

below rule service will be used.

Rule Service: Approver Determination Strategy

Input: Manage Inspection Lot Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Company Code	String	Company Code to which the Manage Inspection belong to.
Plant	String	Plant associated with the Inspection Lot
Purchase Organization	String	Purchasing Organization of an Inspection Lot

Output: Approver Determination Strategy (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Determination Strategy	String	Determination strategy can either "Business Rule" or "External Service" depending on Invoice details.

Rule Definition

Rule service used in the approval process step to identify the approver determination type. It can be 'Business Rules' based or 'External Service' based.

Determine Process Administrator

If Procurement Team or Supplier or Approvers are not determined, then call a configuration rule where the customer has maintained the details about Process Administrator.

Once the process administrator is determined, then send a notification to the admin and create a user task. In the user task, the admin could either directly enter the user id/group and email address of the task owner or the administrator could fix the rule.

Rule Service: Determine Process Administrator

Input: Manage Inspection Lot Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Company Code	String	Company Code to which the Manage Inspection belong to
Purchase Organization	String	Purchasing Organization of an Inspection Lot
Plant	String	Plant associated with the Inspection Lot

Output Process Administrator Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Administrator User IDs	String	User ID List (comma separated)
Administrator Group IDs	String	Group ID List (comma separated)
Administrator Email IDs	String	Email ID List (comma separated)

Rule Definition

Rule Service used to determine the Process Administrators that need to be notified to resolve any issue with the process.

Manage Inspection Vocabulary

For Goods Receipt Inspection Lot Supplier Negotiation Workflow start condition or step condition a separate business rules project will be used, named as **Manage Inspection Vocabulary**. Depending on Manage Inspection Vocabulary process variant will be determined.

Input: Manage Inspection Details (Structure)

ATTRIBUTE	TYPE	DESCRIPTION
Company Code	String	Company Code to which the Manage Inspection belong to.
Purchasing Organization	String	Purchasing Organization of an Inspection Lot
Plant	String	Plant associated with the Inspection Lot
Supplier ID	String	Supplier of Manage Inspection Lot

Approver Determination Strategy – External Service

The process content provides an option to determine approvers using an alternative strategy, i.e., External Service instead of Business Rule.

To leverage this strategy, the Approve Process step has a provision to call an iFlow with the following configuration. This iFlow needs to be implemented as per your business requirement.

Destination	CPI [Refer to Setup Guide]
CPI Adapter	HTTP
Endpoint	/http/InspectonLotApproverDetermination
HTTP Method	POST
Request Payload Type	JSON(application/json)
Request Payload Structure	<pre>{ "ManageInspDetails": { "companyCode": '1010', "plant": '1010', "purchaseOrg": '1010' } }</pre>

Response Payload Structure	<pre> { "Result": [{ "ApproverDetails": { "DueDurationReference": "Task", "UnitOfTime": "h", "UserID": "xyz@example.com", "DueDuration": 2, "IsApprovalRequired": true, "GroupID": "Approver_GroupId", "MailID": "xyz@example.com" } }] } </pre>
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Process Visibility

Process Visibility capability in SAP Build Process Automation or SAP Workflow Management enables Process Owners and Process Operators to gain real time visibility on processes and key process performance indicators. It also enables customers gain out of the box process visibility into their deployed processes. Please refer [help documentation](#) for more details.

Goods Receipt Inspection Lot Vocabulary process content package provides out of the box visibility on all the process variants in SAP Build Process Automation or SAP Workflow Management. Line of business expert will be able to enhance the visibility scenario to their requirements.

Configure Visibility Scenarios in SAP Build Process Automation

1. Go to the Application Development Lobby.
2. Select Goods Receipt Inspection Lot Supplier Negotiation Project.
3. Click to open **Goods Receipt Inspection Lot Supplier Negotiation** scenario.
4. Click Activate button.

Please go through the [help documentation](#) on how to configure the visibility scenario.

Configure Visibility Scenarios in SAP Workflow Management

1. Go to Process Visibility Cockpit.
2. Select **Goods Receipt Inspection Lot Supplier Negotiation** Request tile.
3. Click Visibility Scenarios tile.
4. Select **Goods Receipt Inspection Lot Supplier Negotiation** scenario

Please go through [help documentation](#) on how to model a visibility scenario.

Access Process Workspace in SAP Build Process Automation

1. The process visibility scenario can be accessed using SAP Launchpad Service. Refer to the help document for [creating UI applications on central SAP Fiori Launchpad](#) for SAP Build Process Automation.
2. Once you have added the applications process Visibility Scenario Instances (with app ID com.sap.spa.pv.instances) and Visibility Scenario Dashboard (with app ID com.sap.spa.pv.ovp), follow the below steps to add a tile to access the Goods Receipt Inspection Lot Supplier Negotiation dashboard.
 - a. Navigate into “Visibility Scenario Dashboard”.
 - b. On the screen that opens, choose Create a Local Copy.
 - c. To use custom texts, choose Edit and adapt the texts in the General section.
 - d. You can use a custom title, description, and subtitle for the tile.
 - e. Choose the Navigation tab.
 - f. Under the Intent section, ensure that the value in the Action tab is unique for every application.
 - g. Under the Parameters section, provide the following:

Parameter Name	Parameter Value
Name	scenariold
Default Value	com.sap.content.grinsp
Required	Toggle to Yes

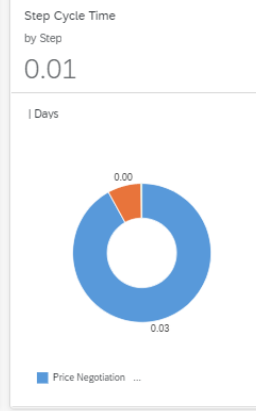
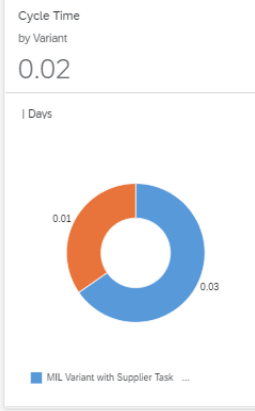
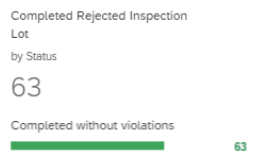
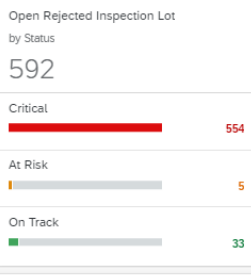
- h. Choose Save.
 - i. Assign the local copy to a group and make sure that they’re visible to users. For more information, see [Assign Apps to a Group and to a Catalog](#) and [Assign Content to a Role](#).
3. Once created, select app that corresponds to “Goods Receipt Inspection Lot Supplier Negotiation”.
4. User will see the process visibility dashboard.

Access Process Workspace in SAP Workflow Management

1. Go to Process Flexibility Cockpit
2. Select Goods Receipt Inspection Lot Supplier Negotiation
3. Click Live Process Insights Goods Receipt Inspection Lot Supplier Negotiation
4. User will see the detailed process visibility dashboard below.

Please go through [help documentation](#) on how to access process workspace.

Standard
Not Filtered



Price Negotiated GR Inspection Lots
Approved Inspection Lots

29

1010	9
1110	20

GR Inspection Lots for Write-Off
by Company Code

4

1110	2
1010	2

GR Inspection Lots for Return to Vendor
By Company Code

9

1010	4
1110	4
	1

