

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Configuration Guide

Treasury Payment Request Creation Approval using SAP Build Process Automation

Table of Contents

Table of Contents.....	2
Overview.....	3
Artifacts.....	3
Process	3
Process Variants	5
Configure Process Variants for Treasury Payment Creation Request Approval with SAP Build Process Automation	5
Decisions & Policies	5
Approver Determination Strategy	6
Determine Administrators	6
Determine Approvers	7
Determine Task Due Date	7
Determine Position	8
Vocabulary Business Rule	9
Determine Approvers from External Service	9
Process Visibility.....	10
Configure Visibility Scenarios in SAP Build Process Automation.....	10
Access Process Workspace in SAP Build Process Automation	11
Configure Work Zone to access the Treasury Payment Creation Request Approval Visibility Dashboard	11

Overview

This document provides information about configuration steps to consume the package **Treasury Payment Creation Request Approval**. The main audience of this document are treasury experts, credit controllers, developers and product owners.

The use case deals with scenario where payments in case of treasury system or Product types are involved. In general, SAP creates individual flows and individual payment requests for each flow for a money market instrument. Once the payment request is generated, the request is taken to the workflow on Business Technology Platform and posted back to SAP S/4HANA after the relevant approvals are made.

Artifacts

A package consists of process templates, process steps, process variants, 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 goal. The Treasury Payment Request Creation Approval package contains the following process template:

Treasury Payment Request Creation Approval– deals with approval of Free Form Payments.

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 activity to determine the approvers, approval task, notifications, and handle the approval result. Table 1 represents the list of process steps/sub flows available to be used in Treasury Payment Request Creation Approval.

Table 1. Process Steps

Process Steps	Cardinality	Detailed Description
Treasury Approvals	1..N Mandatory step	Workflow to approve or reject the Treasury Payment request
Post Treasury Payment	1..1 mandatory step	Workflow to post the Treasury Payment request

A process step can have customizable properties, and they could influence the outcome of the process step. For example, the Approval step can be reused multiple times and based on the properties the approver is determined. Please see Table 2 for more details.

Table 2. Process Step Properties

Process Step	Properties	Detailed Description
Treasury Approvals	Approval Step	Team ID which approves the Treasury Payment entry. This is used to determine approvers from decisions.

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
Company Code	Company Code to which the payment request belongs to.
isRejected	Flag to denote if the payment request is rejected.

Sample Context with Start Conditions

```
{
  "treasuryPaymentRequestDetails": {
    "companyCode": "4001",
    "transactionId": "0001000000236",
    "requestorId": "sample",
    "requestorName": "Sample",
    "requestorEmailId": "sample@example.com",
    "requestedDate": "20220224",
    "productType": "52A",
    "transactionType": "100",
    "productTypeText": "Deposit at Notice",
    "transactionTypeText": "Investment",
    "businessPartner": "BP-4001",
    "cashFlow": [
      {
        "paymentCurrencyAmount": "1000.00-",
        "paymentCurrency": "USD",
        "paymentDate": "20220224",
        "houseBank": "BOA2",
        "accountId": "USD01",
        "payee": "BP-4001",
        "payeeBank": "USD",
        "fiscalYear": "2022",
        "text": "5-1100 (Investment / Increase)"
      }
    ]
  }
}
```

Sample Context without Start Conditions

```
{
  "treasuryPaymentRequestDetails": {
    "transactionId": "0001000000236",
    "requestorId": "Sample",
    "requestorName": "Sample",
    "requestorEmailId": "Sample@example.com",
    "requestedDate": "20220224",
    "transactionType": "100",
    "productTypeText": "Deposit at Notice",
    "transactionTypeText": "Investment",
    "businessPartner": "BP-4001",
    "cashFlow": [
      {
        "paymentCurrencyAmount": "1000.00-",
```

```

    "paymentCurrency": "USD",
    "paymentDate": "20220224",
    "houseBank": "BOA2",
    "accountId": "USD01",
    "payee": "BP-4001",
    "payeeBank": "USD",
    "fiscalYear": "2022",
    "text": "5-1100 (Investment / Increase)"
  }
}
}
}
}

```

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.

The screenshot displays the SAP Build Process Automation configuration interface. On the left, under 'Available Steps (2)', there are two step options: 'PostTreasuryPayment' and 'TreasuryApproval'. The main workspace shows a process flow diagram with three steps: 'Treasury Specialist Approval', 'Treasury Manager Approval', and 'Post Treasury Payment Request Creation'. On the right, the 'Process Variant Properties' panel is visible, showing fields for Name (treasurypaymentrequest), Process (Treasury Payment Request Creation), Subject (treasurypaymentrequest), Business Key, and Description (treasurypaymentrequest).

Configure Process Variants for Treasury Payment Creation Request Approval with SAP Build Process Automation

1. In the Application Development [Lobby](#), click to open the package with name Treasury Payment Creation Request Approval. This opens the package in a new tab/window.
2. Click the + icon next to the process template to create a new process variant.
3. Enter name of the new Process Variant (ex, Two Step Approval).
4. Click the newly created Process Variant tile to save and activate the process variant.
5. The process variant has a default implementation with two steps and at least one level of approval.
6. It is possible to remove steps like “Approval for Treasury Payment Creation Request Approval” 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.
7. 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](#).

Decisions & Policies

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

Treasury payment request enable customers to flexibly configure decisions to gain flexibility to

1. Approver Determination Strategy
2. Determine Task Due Date
3. Determine Administrators
4. Determine Approvers
5. Determine Position

Input details – All the rules have the common Input attributes

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code to which payment request belongs to.	String
ProductType	Product Type	Product Type to which payment request belongs to.	String
ApprovalStep	Approval Step	Approval Step to determine the Level of the approval	String
BusinessPartner	Business Partner	Business Partner to which payment request belongs to.	String
TransactionType	Transaction Type	Transaction Type to which payment request belongs to.	String
TransactionId	Transaction Id	Transaction Id to which payment request belongs to.	String

Approver Determination Strategy

Based on the business requirement approver can be determined by external service or decisions.

Rule Service Name: Approver Determination Strategy

Input: Refer to the input details [section](#)

Result

Name	Label	Description	Business Data Type
DeterminationStrategy	Determination Strategy	Approver Determination Strategy can either “Business Rule” or “External Service” depending on joint venture details.	String

Determine Administrators

Determine administrators in case of any errors in fetching the approvers for Treasury Payment Request Approval.

Rule Service Name: Determine Administrators

Input: Refer to input details [section](#)

Result

Name	Label	Description	Business Data Type
Userld	User ID	User ID of the administrator	String
UserGroup	User Group	User Group of the administrator	String
Email	Email	Email ID of the administrator	String

Determine Approvers

Determine approvers for an approval step in Treasury Payment Request Approval.

Rule Service Name: Determine Approvers

Input: Refer to input details [section](#)

Output:

Name	Label	Description	Business Data Type
Userld	User ID	User ID of the approver responsible for Treasury Payment Request Approval.	String
UserGroup	User Group	User Group ID of the approver responsible for Treasury Payment Request Approval.	String
Email	Email	Email ID of the approver responsible Treasury Payment Request Approval.	String
DueDuration	Due Duration	Due Duration	Number
UnitofTime	Unit of Time	Unit of Time	String

Determine Task Due Date

Determine the due date duration for each step of the Free Form Payment Approval

Rule Service Name: Determine Task Due Date

Input: Refer to input details [section](#)

Output: Refer to output details [section](#)

Determine Position

Determine the position who approves for each step of the Free Form Payment Approval

Input Refer input details [section](#)

Result

Name	Label	Description	Business Data Type
------	-------	-------------	--------------------

PositionNumber	Position Number	Position number of persons who approves Treasury Payment Request	String
PositionName	Position Name	Position name of person who approves Treasury Payment Request.	String

Vocabulary Business Rule

Name	Label	Description	Business Data Type
CompanyCode	Company Code	Company Code to which payment request belongs to.	String
ProductType	Product Type	Product Type to which payment request belongs to.	String
TransactionId	Transaction Id	Transaction Id to which payment request belongs to.	String
TransactionType	Transaction Type	Transaction Type to which payment request belongs to.	String
BusinessPartner	Business Partner	Business Partner to which payment request belongs to.	String

Determine Approvers from External Service

If external service is used to determine the approvers, then document what are the requirements – destination, API, API signature, etc.

API Attributes	Values
Path	/http/getApproverstprcawfm
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "d": { "companyCode": "4001", "positionID": "99999999" } }</pre>
Response Payload from integration flow	<p>RESPONSE STATUS, Ex 200 OK</p> <pre>{ "d": { "approvers": [{ "userID": "app1", "emailID": "app1@test.com", "name": "Approver 1" }, { "userID": "app2", "emailID": "app2@test.com", "name": "Approver 2" }] } }</pre>

```
]
}
}
```

Note: When Status is not 200, then it is considered a failed service call.

Payload Type	Application / JSON
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Process Visibility

Process Visibility capability in SAP Build Process Automation 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.

Treasury Payment Request Creation Approval process content package provide out of the box visibility on all the process variants in SAP Build Process Automation. 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 Treasury Payment Creation Request Approval Project.
3. Click to open **Treasury Payment Creation Request Approval** scenario.
4. Click Activate button.

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

Access Process Workspace in SAP Build Process Automation

The content package includes a process visibility scenario enable you to get real time visibility into the Treasury Payment Creation Request Approval Workflow. There are some performance indicators enable business users to gain transparency on how these workflows are performing. The process visibility configuration tool enables customers to further enhance the performance indicators to fulfill their requirements. Please go through [help documentation](#) on how to configure a visibility scenario.

You can access visibility workspace for Treasury Payment Creation Request Approval Workflow from the Process Workspace tile in Work Zone. If you do not see that tile in your Work Zone workspace then request your admin to give you the access. Please go through [help documentation](#) on how to access process workspace

Configure Work Zone to access the Treasury Payment Creation Request Approval Visibility Dashboard

1. 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 Treasury Payment Creation Request Approval 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.Treasury_Payment_Request_Creation_Approval
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](#).

2. Once created, select app that corresponds to "Treasury Payment Creation Request Approval".
3. User will see the process visibility dashboard below.