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| Test ScriptSAP S/4HANA - 18-09-20 | public |
| Advanced Payment Management (4MT) |

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# Purpose

Advanced Payment Management allows you to monitor, approve and route the payment into financial institutes, with the integration of Multi-Bank Connectivity. The payment information can integration with not only S/4HANA system but also third-party systems.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data, and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Payment Specialist | SAP\_BR\_PAYMENT\_SPECIALIST | Payment Management | SAP\_BR\_PAYMENT\_SPECIALIST |  |
| Business Integration Specialist - Bank Integration | SAP\_BR\_BANK\_INT\_SPECIALIST | Bank Integration | SAP\_BR\_BANK\_INT\_SPECIALIST |  |
| Configuration Expert - Business Process Configuration | SAP\_BR\_BPC\_EXPERT |  |  |  |

## Master Data, Organizational Data, and Other Data

The organizational structure and master data of your company has been created in your system during activation. The organizational structure reflects the structure of your company. The master data represents materials, customers, and vendors, for example, depending on the operational focus of your company.

Use your own master data to go through the test procedure.

## Business Conditions

Before this scope item can be tested, meet the following business conditions.

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| J77 - Advanced Bank Account Management | Payment approvers are maintained per bank account to enable payment approvals. |
| 16R - Bank Integration with SAP Multi-Bank Connectivity | 16R - Multi-Bank Connectivity is in scope and connection is set up. |
| J78 - Advanced Cash Operations | After payment processing in 4MT - Advanced Payment Management, the outgoing payment is approved in J78 - Advanced Cash Operations. |

## Preliminary Steps

### Maintain DMEE Outbound Settings for MBC Connector

Use

In this activity, you maintain the message for the DMEE outbound format tree.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Gui System as a Configuration Expert - Business Process Configuration. | The SAP Gui System displays. |  |
| 2 | Enter Transaction Code | Enter Transaction Code SPRO in Command Bar. | The Customizing: Execute Project screen displays. |  |
| 3 | Open SAP Reference IMG | Open SAP Reference IMG. | The SAP Reference IMG screen displays. |  |
| 4 | Maintain Routing Settings | Choose the following navigation option:Financial Supply Chain Management > Advanced Payment Management > External Interfaces > File Handler > Format Specific Configuration > DMEE – generic outbound format > Define DMEE Outbound Settings for MBC Connector | The Change View DMEE Outbound Settings for MBC Connecotr”: Overview displays. |  |
| 5 | Maintain Message Type for Format Tree | Choose New Entries, make the following entries in the New Entries: Details of Added Entries view and choose Save:Clearing Area: PFFormat Tree: CGI\_XML\_CTMessage Type: PAIN.001.001.03 | A message type is added. |  |

### Maintain Payment Agreements

Use

In this activity, you maintain the Advanced Payment Management master data.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Payment Specialist. |  |  |
| 2 | Access App | Open Manage Payment Agreements. |  |  |
| 3 | Payment Agreements | Choose the Payment Agreements tab. |  |  |
| 4 | Create Agreement | Choose Create Agreement.Make the following entries and choose Save and Release:Agreement ID: for example, BANK\_CTDescription: for example, Bank Credit TransferCompany Code: <the company code that the payment, for example FI-CA, belongs to>Processing Option: Forward the entire Incoming Order (B)Converter ID: MBDMEOFormat Tree: CGI\_XML\_CT | A payment agreement is created.If there is no workflow defined which matches the payment agreement, the payment agreement will not be released. An error message will pop up and the payment agreement will remain In Process status.Refer to preliminary step Manage Workflow for Payment Agreement for more information. |  |
| 5 | Create Payment Rule for Payment Agreement | Choose Go and a list of payment agreements is displayed.Choose the payment agreement you created and choose Create Payment Rule for Payment Agreement.In Payment Rule PF the screen, make the following entries and choose Save:Description: for example, Rule for Bank Credit Transfer | A payment rule is created and Manage Payment Agreements is displayed. |  |
| 6 | Create Condition | Choose Go and a list of payment agreements is displayed.Navigate to the payment agreement you created and choose >.In the Payment Rule PF screen, navigate to the payment rule you created and choose >.Choose Edit and choose Create New Condition.Make the following entries and choose Save and Release:Field Name: PI\_KINDInclusive/exclusive: IOption: EQValue Low: 01Field Name: DEBCREDInclusive/exclusive: IOption: EQValue Low: D | Conditions are maintained for the payment rule. |  |

### Receive Payment Files

Purpose

Advanced Payment Management supports payments initiated by non-SAP systems. The routing of payments is via the incoming integration of Multi-Bank Connectivity and described in Route Payment Files and Payment Transaction Messages in test script Bank Integration with SAP Multi-Bank Connectivity (16R). This step is triggered in respective business conditions and processed in the back-end automatically.

#### Receive Payment Files Initiated by non-SAP Systems

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

Advanced Payment Management supports CSV/TXT files for payments initiated by non-SAP systems.

.Prerequisites

Download a copy of the payment file template<https://support.sap.com/content/dam/SAAP/Sol_Pack/Library/Others/IFME_TESTFILE_P1.xlsx>.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Modify the Payer Information | Open the payment file template and make the following entries for payer:ID: <unique ID of the payment>, for example, File1Country: <the country code of the payer bank account>, for example, DEBank key: <the bank key of the payer bank account>, for example, 82080000BIC: <the bank BIC code of the payer bank account>, for example, DRESDEFF827Account: <the bank account number of the payer>, for example, 2580061 |  |  |
| 2 | Modify the Payee Information | Make the following entries for payer and save the change:ID: <unique ID of the payment item>, for example, TX1Country: <the country code of the payee bank account>, for example, DEBank key: <the bank key of the payee bank account>, for example, 10020030BIC: <the bank BIC code of the payee bank account>, for example, DEUTDE5MAccount: <the bank account number of the payee>, for example, 1234567899Amount: for example, 10Currency: for example, EURReferenceID: for example, E2E-TX1-10€Payment Note: for example, Invoice 12345-1-20If there are multiple recipients, the respective payee information is maintained in respective rows. | The change is successfully saved. |  |

### Prepare Payment Media File for Watch List Screening (Optional)

Use

In this activity, you prepare a payment media file for Watch List Screening.

The file is required for internal test purpose to simulate the business process.

Procedure

In a text editor, paste the following sample code:

<?xml version="1.0" encoding="UTF-8"?>

<!--> Used for Watch List Screening -> Receiver should be found, but later on by identified as false positive <!-->

<Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.001.003.03"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<CstmrCdtTrfInitn>

<GrpHdr>

<MsgId>0000990101</MsgId>

<CreDtTm>2020-08-27T07:13:50</CreDtTm>

<NbOfTxs>2</NbOfTxs>

<CtrlSum>120.00</CtrlSum>

<InitgPty>

<Nm>Company Code 1010</Nm>

</InitgPty>

</GrpHdr>

<PmtInf>

<PmtInfId>0000000101-000001</PmtInfId>

<PmtMtd>TRF</PmtMtd>

<BtchBookg>true</BtchBookg>

<NbOfTxs>2</NbOfTxs>

<CtrlSum>120.00</CtrlSum>

<PmtTpInf>

<SvcLvl>

<Cd>SEPA</Cd>

</SvcLvl>

</PmtTpInf>

<ReqdExctnDt>2020-08-27</ReqdExctnDt>

<Dbtr>

<Nm>Company Code 1010</Nm>

<PstlAdr>

<Ctry>DE</Ctry>

<AdrLine>Walldorf</AdrLine>

</PstlAdr>

</Dbtr>

<DbtrAcct>

<Id>

<IBAN>DE28820800000258006100</IBAN>

</Id>

</DbtrAcct>

<DbtrAgt>

<FinInstnId>

<BIC>DRESDEFF827</BIC>

</FinInstnId>

</DbtrAgt>

<ChrgBr>SLEV</ChrgBr>

<CdtTrfTxInf>

<PmtId>

<InstrId>02-910000000010</InstrId>

<EndToEndId>B910000000010</EndToEndId>

</PmtId>

<Amt>

<InstdAmt Ccy="EUR">100.00</InstdAmt>

</Amt>

<CdtrAgt>

<FinInstnId>

<BIC>DEUTDE5M</BIC>

</FinInstnId>

</CdtrAgt>

<Cdtr>

<Nm>Obiedinennaya Promyshlennaya</Nm>

<PstlAdr>

<Ctry>RU</Ctry>

<AdrLine>Main Street 10</AdrLine>

<AdrLine>12345 Moscow</AdrLine>

</PstlAdr>

</Cdtr>

<CdtrAcct>

<Id>

<IBAN>DE32100200300234556777</IBAN>

</Id>

</CdtrAcct>

<RmtInf>

<Ustrd>ACCAPM01</Ustrd>

</RmtInf>

</CdtTrfTxInf>

<CdtTrfTxInf>

<PmtId>

<InstrId>02-910000000011</InstrId>

<EndToEndId>B910000000011</EndToEndId>

</PmtId>

<Amt>

<InstdAmt Ccy="EUR">20.00</InstdAmt>

</Amt>

<CdtrAgt>

<FinInstnId>

<BIC>DEUTDE5M</BIC>

</FinInstnId>

</CdtrAgt>

<Cdtr>

<Nm>Herbert APM2</Nm>

<PstlAdr>

<Ctry>DE</Ctry>

<AdrLine>Churchstreet 1</AdrLine>

<AdrLine>23456 Hannover</AdrLine>

</PstlAdr>

</Cdtr>

<CdtrAcct>

<Id>

<IBAN>DE48100200300567899123</IBAN>

</Id>

</CdtrAcct>

<RmtInf>

<Ustrd>ACCAPM02</Ustrd>

</RmtInf>

</CdtTrfTxInf>

</PmtInf>

</CstmrCdtTrfInitn>

</Document>

Save the file to a folder on your PC as pain.001.003.03\_AB1234\_01.xml. If the file is to be tested more than once, it is recommended that you adjust the address data of the first creditor slightly (for example, change street number, postal code), or change the name of the first creditor like ‘Al Kaida’, ‘Osama bin Laden’, ‘Kasim al rimi’ or ‘Hamsa Bin Laden’.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Gui System as a Configuration Expert - Business Process Configuration. | The SAP Gui System displays. |  |
| 2 | Enter Transaction Code | Enter Transaction Code SA38 in Command Bar. | The ABAP: Program Execution screen displays |  |
| 3 | Execute Upload Program | Make the following entries and choose Execute:Program: /BSNAGT/TEST\_INBOUND\_MSG2In the MBC Connector – Inbound Interface Test screen, make the following entries and choose Execute:Message Type: PAIN.001.001.03File Name: choose the file from local PC by the F4 search help, for example C:\Users\AB1234\Desktop\ pain.001.003.03\_AB1234\_01.xmlNo Security (all flags off): SELECTED | A payment message is routed by Multi-Bank Connectivity to Advanced Payment Management, an inbound payment order with one originator item and several recipient items is created.You can display the payment orders in Manage Payments. |  |

# Overview Table

This scope item consists of several process steps provided in the table below.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step, Report or Item | Business Role | App/Transaction | Expected Results |
| [Approve Payment Batch File](#unique_13) [page ] 16 | Payment Specialist | Manage Payments (F3647) | The processing status of the order set to Pending Approval, the Release Status set to In Approval. |
| [Approve Payment Batch](#unique_14) [page ] 19 | Accounts Payable Manager |  | A payment batch is approved. |
| [Process Payment Batch](#unique_15) [page ] 20 | Payment Specialist | Manage Payments (F3647) | The processing status of the order set to Payment Media Created, the Release Status set to Approved. |

# Test Procedures

This section describes the test procedures for each process step that belongs to this scope item.

## Approve Payment Batch File

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

Once a payment message is routed by Multi-Bank Connectivity to Advanced Payment Management, an inbound payment order with one originator item and several recipient items is created.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Payment Specialist. |  |  |
| 2 | Access App | Open Manage Payments (F3647). |  |  |
| 3 | Start Selection for Incoming Payment Orders | On the entry screen of the Manage Payments (F3647) app, make the following entries and choose Go:Clearing Area: Payment Factory Default ConfigurationCreated On: for example, Today | A list of orders is displayed. The processing status of the new incoming order should be Inbound Processing Completed (128). An outgoing order is created. |  |
| 4 | Display Incoming Payment Order | Choose one incoming payment order, for example 10.02.2020/000000001002. | The detail screen of the Incoming Payment Order is displayed. |  |
| 5 | Navigate to Outgoing Payment Order | Choose the output order on the tab of ORIGINATOR, for example 10.02.2020/000000003001.Note Down the BCM Batch ID, for example, 10300 | The detail screen of the Outgoing Payment Order is displayed. The processing status of the order should be Pending Approval, the Release Status should be In Approval. |  |

### Process Outgoing Order Hitting in Watch List Screening (Optional)

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

With SAP Watch List Screening, the name and address of the creditor in Advanced Payment Management payment orders can be screened against the sanctioned-party list.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Payment Specialist. |  |  |
| 2 | Access App | Open Manage Payments (F3647). |  |  |
| 3 | Start Selection for Incoming Payment Orders | On the entry screen of the Manage Payments app, make the following entries and choose Go:Clearing Area: Payment Factory Default ConfigurationCreated On: for example, Today | A list of orders is displayed. The processing status of the new incoming order should be Inbound Processing Completed (128). An outgoing order is created. |  |
| 4 | Display Incoming Payment Order | Choose one incoming payment order, for example 20.08.2020/000000001002. | The detail screen of the Incoming Payment Order is displayed. |  |
| 5 | Navigate to Outgoing Payment Order | Choose the output order on the tab of ORIGINATOR, for example 20.08.2020/000000003001.Note down the BCM Batch ID, for example, 10300 | The detail screen of the Outgoing Payment Order is displayed. The processing status of the order should be Resubmission. |  |
| 6 | Log On | Log on to the Watch List Screening APP URL <https://wls-test.ui-screeninghits-sap.cfapps.eu10.hana.ondemand.com/screeninghits/index.html> asa WLS expert.The URL is just for internal test purpose, check with your administer for the URL and user account. | The Process Address Screening Hits screen displays. |  |
| 7 | Display the Hits | Make the following entries and choose Enter:Status: OpenCreated On: for example, Today | A list of hits is displayed. |  |
| 8 | Select the Hits Item | Select the hits item caught by Watch List Screening, choose >. | The Screening Hits screen displays and possible hits items are listed. |  |
| 9 | Submit the Decision | Check the list of the hits, choose YES or NO for each hit item and choose Submit. | Depending on the check decision made, the outgoing order will be set to different status as following:False positive hit: all the hits are set as NO. A regular job is scheduled for resubmission. The status of the order will be changed to Pending Approval.Positive hit:If there is only one recipient item hits ( the hits item is set as YES) in the outgoing order, both status of the item and the outgoing payment order will be changed to Rejected.If there is more than one recipient item in the outgoing order and not all the recipient item hits, the status of the item will be changed to Rejected, and the status of the order will be changed to Pending Approval. |  |

## Approve Payment Batch

Purpose

A payment batch is to be approved or rejected.

The approval of a payment batch is enabled in Bank Communication Management. The batch of an outgoing payment approval is described in step Approval and Bank Integration in test script Advanced Cash Operations (J78).

The approvers and approval pattern are determined in Bank Account Management. The approvers can be maintained individually in each bank account or collectively for multiple bank accounts.

Depending on the bank account revision setting, the test step for multiple bank accounts is described in step Maintain Payment Approver for Multiple Bank Accounts (Direct Revision Activate), Maintain Payment Approver for Multiple Bank Accounts (Dual Control Revision Activate) and Maintain Payment Approver for Multiple Bank Accounts (Workflow Revision Activate) in test script Advanced Bank Account Management (J77).

## Process Payment Batch

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | Duration | Enter a duration. |

Purpose

Once the payment batch is approved, the outgoing payment order is also approved. A payment message will be sent to Multi-Bank Connectivity only after the order is processed.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Payment Specialist. |  |  |
| 2 | Access App | Open Manage Payments (F3647). |  |  |
| 3 | Start Selection for Outgoing Payment Orders | On the entry screen of the app, make the following entries and choose Go:Clearing Area: Payment Factory Default ConfigurationCreated On: for example, Today | A list of orders is displayed. |  |
| 4 | Display Outgoing Payment Order | Choose the outgoing payment order, for example 10.02.2020/000000003001. | The detail screen of the Outgoing Payment Order is displayed.The processing status of the order should be Payment Media Created, the Release Status should be Approved. |  |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

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