Integration Framework for SAP Business One
Timer-Based Inbound Adapter

Global Roll-Out

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Note: The example templates in this document are not officially supported by SAP.

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TABLE OF CONTENTS

Timer-Based Inbound (Void- Inbound)

With timer-based inbound, you can use the integration framework to check, for example, if a record is available in a database table. If a record exists, the integration framework triggers the scenario step processing. The integration framework controls the timer-based inbound processing using parameters of the inbound definition of the scenario step.

1. PREREQUISITES

1.1. Create a Scenario Package

To create a scenario package in the integration framework for SAP Business One, please refer to the openSAP course In Action - Integration Framework for SAP Business One.

In the *Week 2* and *Unit 1* chapter, you learn how to create a scenario package.

1.2. Create a Scenario Step

To create a scenario step in the integration framework for SAP Business One, please refer to the openSAP course In Action - Integration Framework for SAP Business One.

In the *Week 2* and *Unit 1* chapter, you learn how to create a scenario step.

Please refer to the sample **sap.GetCustomerList** scenario step available in the sap.in.Void scenario package

2. DEFINE TIMER-BASED CALL IN INBOUND

To define the inbound definition of the scenario step, select *Scenarios → Step Design → [Inbound] → [Channel]*.

The integration framework uses the following parameters to control inbound processing:

- Inbound Type = Void
- Process Mode = Asynchronous
- Process Trigger = Timer

- Identification Method = Void

- Identification Parameter = n.a.

- Identifier = Identifier of the scenario step.

- Identification Namespace = We can additionally provide a namespace.

2.1. Scenario Step Design – Inbound – Channel- Timer

Define when and how often the scenario step checks, if the trigger for the scenario step is available. You can adjust the timer settings according to your specific requirements.

Note: This step is triggered every hour at the fifth, tenth and fifteenth minute.

2.2. Outbound Chanel

To define the outbound definition of the scenario step, select *Scenarios → Step Design → [Outbound] → Select **Void** at [Outbound channel]*.

3. GET CUSTOMER DATA FROM A DATABASE TABLE

The chapter guides you through the procedure to retrieve customer data from a database table.

3.1. Add an Atom to Scenario Step Processing

In this example, we have taken Call SQL atom. To add the atom to the process flow:
- (1) Press the ▶ [Add] button on the *Start* atom to insert a new functional processing atom.
- (2) In the *New Flow Atom* field, select the **Call SQL** value*.*
- (3) Click **Add**.
- (4) Click **Close**.
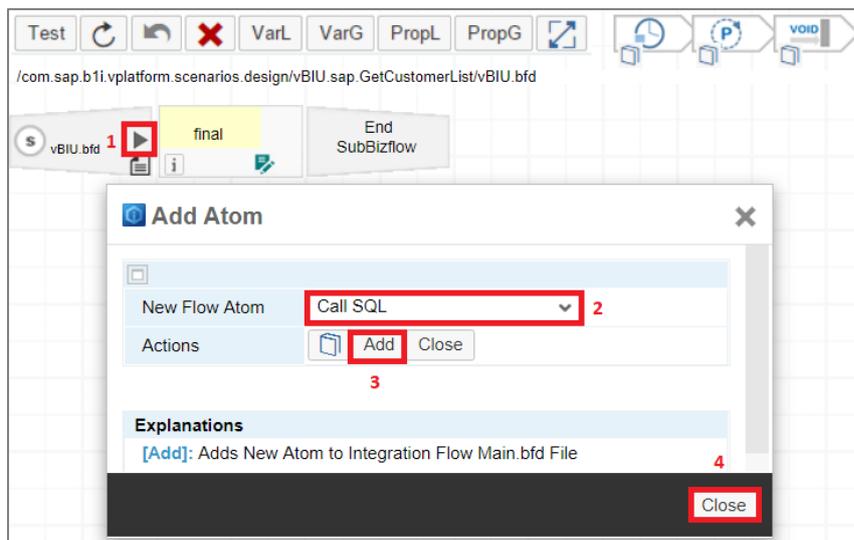
3.2. Configure the Functional Processing Atom

To configure the processing atom:
- (1) Press the 🖉 [Change Configuration] button.
- (2) In the *SysId* field, select the SAP Business One system entry.
- In the *Default SQL Statement* field, enter the SQL query.
- Finally press the 🖫 [Save] button.
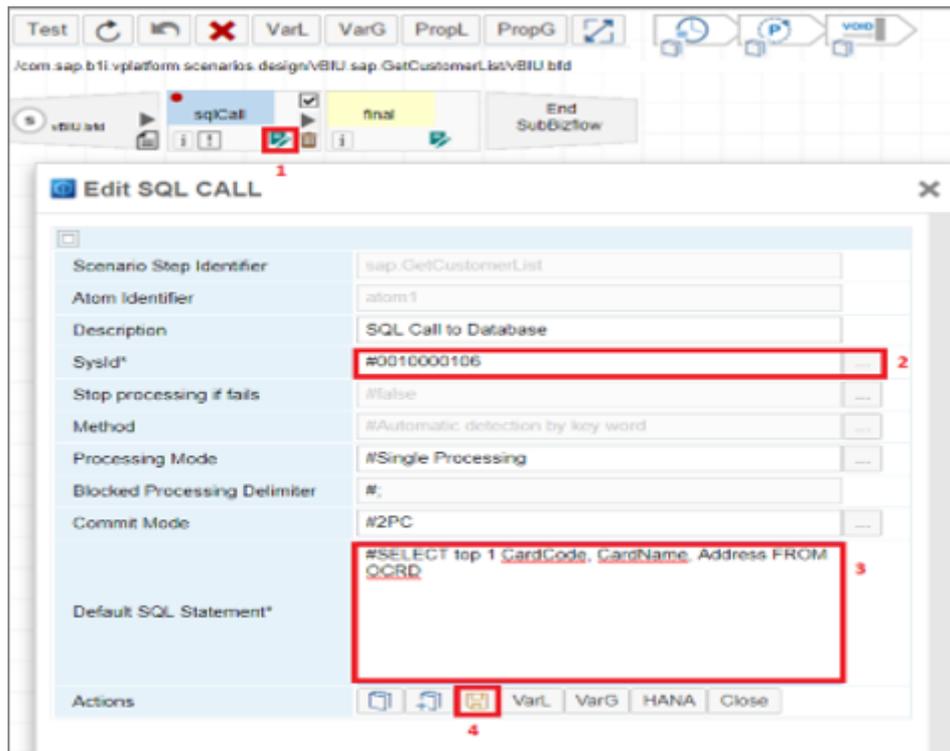
3.3. Customize the final atom XSL Transformation

- Click the *XSL Transformation Atom* (xform). The integration framework opens the *Embedded XML Editor* to edit the XSL file.
- In the XSL file, change the **transform** template accordingly:

```
<xsl:template name="transform">
    <xsl:attribute name="pltype">htm</xsl:attribute>
    <xsl:for-each
select="/vpf:Msg/vpf:Body/vpf:Payload[./@id=&apos;atom1&apos;]/jdbc:ResultSet/jdbc:Row[string-length  (./jdbc:Address)&gt;0]">
        <Result>
            <xsl:value-of select="./jdbc:CardCode"/>
            <xsl:value-of select="./jdbc:CardName"/>
            <xsl:value-of select="./jdbc:Address"/>
        </Result>
    </xsl:for-each>
</xsl:template>
```
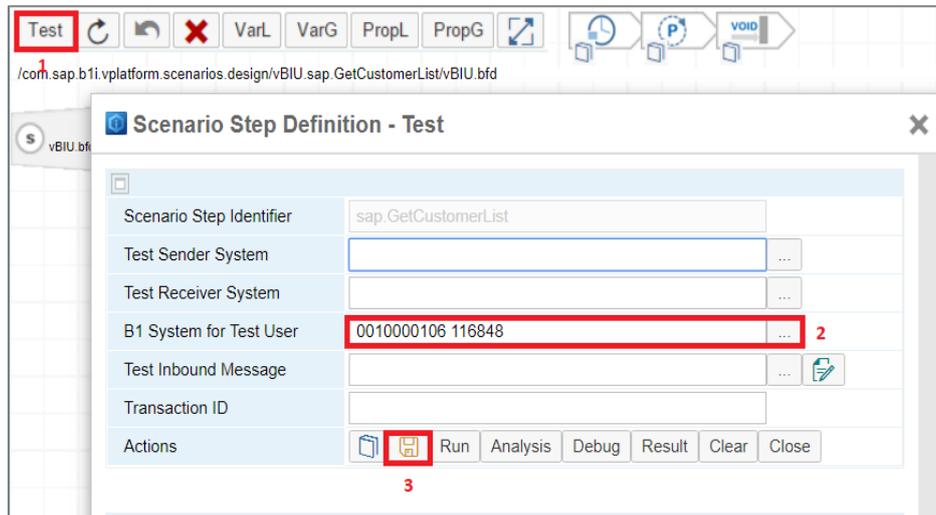
The final transformation atom provides CardCode, CardName and Address of the retrieved database record.

4. SCENARIO STEP DEFINITION – TEST CONFIGURATION

Follow the procedure for the scenario step test:

- Click *Test* button to open the *Scenario Step Definition -Test*.

- In the *B1 System for Test User* field, select an SAP Business One system from SLD.
- Press the 🖫 [Save] button.

4.1. Scenario Step Definition Test- Result

- (1) Click the **Run** button.
- (2) The transaction ID is generated
- (3) Click the **Result** button.
- (4) We can see the result of the final atom XSL conversion.
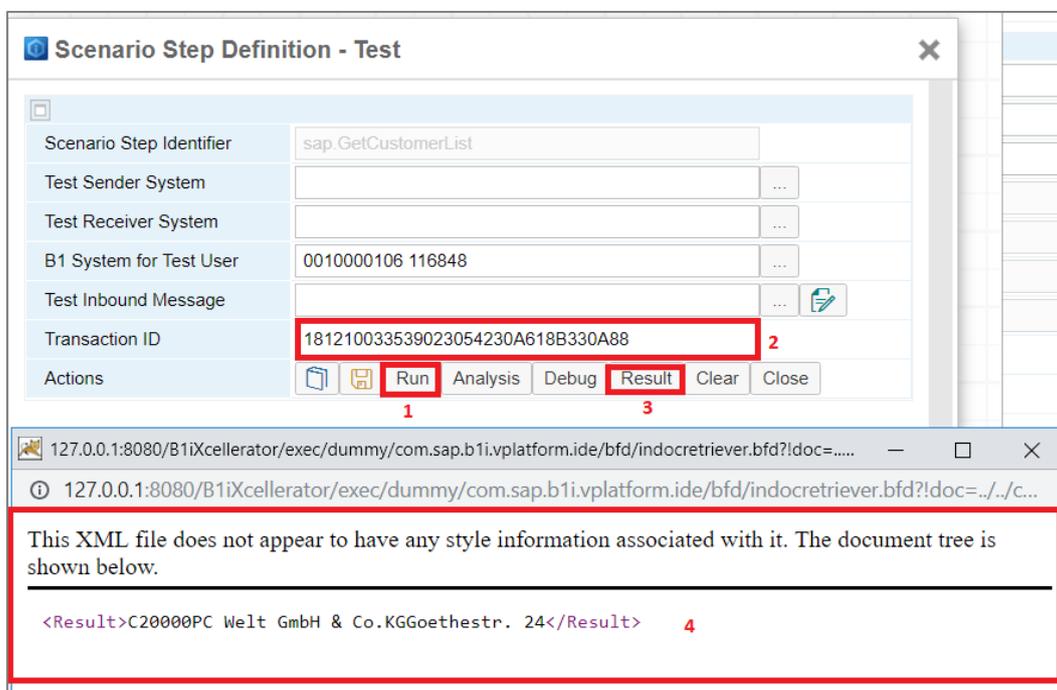
5. ACTIVATE SCENARIO PACKAGE

Follow the steps to activate the scenario package.

- (1) In the *Scenario Package Identifier* field, select your scenario package.

- (2) Click the **Steps** button.

- (3) Select the *Activate* checkbox for the selected scenario steps.

- (4) Press the 🖫 [Save] button.

- (5) Click the **Activate** button to activate the scenario.

6. TRIGGERING THE SCENARIO STEPS

- Once the scenario package is activated, the integration framework provides the trigger of the scenario steps. To display the trigger of the scenario steps, choose *Scenarios → Control*, and for your scenario package, click the [Trigger] button. After triggering the scenario step, you can see the corresponding message log in *Monitoring → Message Log*.

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