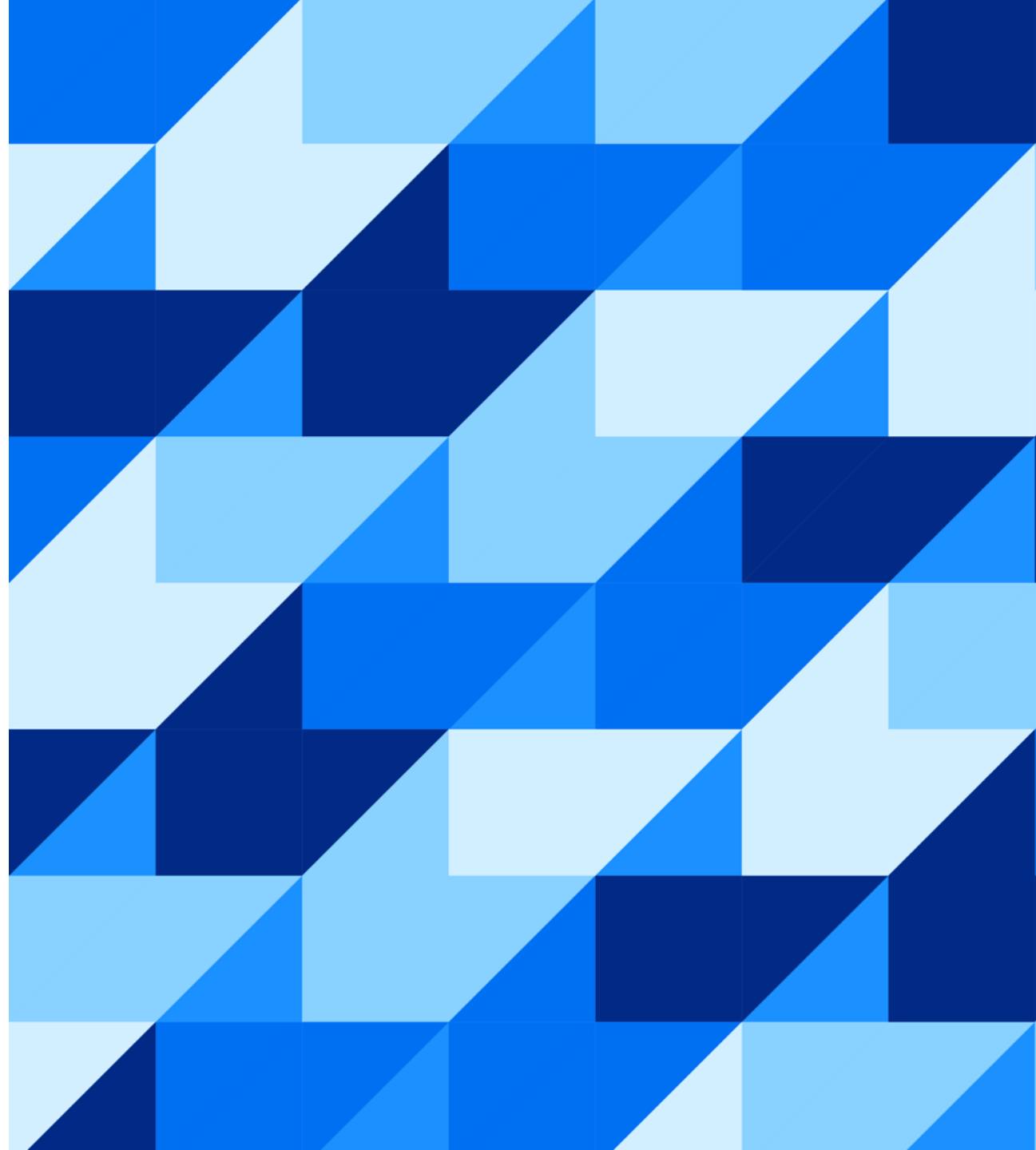




# SAP Integration Suite Monthly Updates – February 2025

Product Management Team, SAP Integration Suite  
Month , 2025

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# Agenda

Topic	Presenter
Onboarding	Joerg
Cloud Integration	Sunny Kapoor
Pipeline Concept	Alexander
Salesforce PubSub Adapter	John B
SAP Business Accelerator Hub	Aaditya Nigam

# Cloud Integration

# New quality of service option for XI sender and receiver adapter

- A new quality of service option, **Handled by Integration Flow**, is now available for the XI sender and receiver adapters. This option allows quality of service to be managed within the Integration Flow for better dynamicity.
- The XI sender channel sets the headers **SapQualityOfService** and **SapQueueId** for the XI quality of service and queue ID of the incoming message. These headers can also be used to set the quality of service and queue ID for the message to be processed by the XI receiver channel.

See: [Configure the XI Sender Adapter](#)

The image shows two parts of the SAP configuration interface. The top part is a diagram of an 'Integration Process' with a 'Sender' adapter on the left and an 'End' node on the right. The process flow includes a 'Start' node and an 'XI' connector. The bottom part is a screenshot of the 'Delivery Assurance' configuration page for an XI adapter. The 'Quality Of Service' dropdown menu is open, showing options: 'At Least Once', 'Best Effort', 'Exactly Once', and 'Handled by Integration Flow'. The 'Handled by Integration Flow' option is highlighted with a red box. Other parameters shown include 'Temporary Storage' (At Least Once), 'Lock Timeout (in min): \*', 'Poll Interval (in s): \*', 'Expiration Period (in d): \* 30', 'Retry Interval (in min): \* 1', and 'Exponential Backoff' (checked).





# Changes to Timer Flow Step

A new version of the timer flow step is introduced. With this, you can:

- Create multiple fixed schedules with one timer flow step to repeatedly trigger the message processing of the same integration flow. Earlier, you had to create multiple timer flow steps within an integration flow to configure such a scheduling.
- Experience a revamped scheduler design giving you much more flexible options to configure your recurring patterns.

See: [Define a Timer Start Event](#)

The screenshot displays the SAP Integration Process Designer interface. On the left, a 'Sender' component is visible. The main workspace shows an 'Integration Process' flow starting with a 'Start Timer' step (represented by a clock icon) and ending with an 'End' step (represented by an envelope icon). A vertical toolbar on the left contains icons for adding, deleting, and moving steps. Below the workspace, the 'Timer Start' configuration panel is shown, with the 'Scheduler' tab selected. The 'Basic' radio button is chosen. Under 'Frequency', the 'Enter As' dropdown is set to 'Multiple Schedule'. The 'Multiple Scheduler Details' section contains a table for defining start dates and times:

Start Date and Time	
e.g. 2025-12-31 23:59	 
e.g. 2025-12-31 23:59	 

At the bottom, the 'Time Zone' is set to '( UTC 0:00 ) Greenwich Mean Time(Etc/GMT)'.

# Local Groovy Script and Script Collection Improvements

- You can now use recommendations provided in the **Problems view** to improve a local groovy script or script in script collection.
- The category **Clean Code Checks** is available now. This category includes incompatibilities like unused and duplicate import statements in your scripts.
- The automatic suggestions are only supported for **Groovy-based** scripts.

See: [Fix Script Incompatibilities](#)

[Creating Scripts in a Script Collection](#)

The screenshot displays the SAP IDE interface for a Groovy script named 'sas.groovy' within a 'Script\_Collection'. The script content is visible in the editor, showing an import statement for 'java.util.HashMap' on line 7, which is highlighted with a red box. Below the editor, the 'Problems' view is open, showing a 'Clean Code Checks' category with one warning. The warning message is: 'There are one or more import statements that are unused in the script.' The 'Problems' view also includes buttons for 'Errors (0)', 'Warnings (1)', and 'Information (0)', and an 'Actions' column.

Name	Type	Size	Actions
References (2)			
Scripts (2)			
sas	Groovy Script	1 KB	↓
sss	Groovy Script	1 KB	↓

```
1 - /* Refer the link below to learn more about the use cases of script.
2 https://help.sap.com/viewer/368c481cd6954bdf5d0435479fd4eaf/Cloud/en-US
   /148851bf8192412cba1f942c17f4bd25.html
3
4 If you want to know more about the SCRIPT APIs, refer the link below
5 https://help.sap.com/doc/a56f52e1a58e4e2bac7f7adb745b2e26/Cloud/en-US/index.html */
6 import java.util.HashMap;
7 import java.util.HashMap;
8 def Message processData(Message message) {
9 //Body
10 def body = message.getBody();
11 /**To set the body, you can use the following method. Refer SCRIPT APIs document for more detail*/
12 //message.setBody(body + " Body is modified");
13 //Headers
14 def headers = message.getHeaders();
15 def value = headers.get("oldHeader");
16 message.setHeader("oldHeader", value + " modified");
17 message.setHeader("newHeader", "newHeader");
18 //Properties
19 def properties = message.getProperties();
20 value = properties.get("oldProperty");
21 message.setProperty("oldProperty", value + " modified");
22 message.setProperty("newProperty", "newProperty");
23 }
```

# OData V4 Receiver Adapter Enhancements

OData V4 Receiver adapter version 1.16 onwards sets the exchange header **CamelHttpResponseCode** with the HTTP response code and sets the exchange body with the error response received from the OData V4 service.

See: [Configure OData V4 Receiver Adapter](#)



# Other updates

- You can now apply Regex filtering on file name in SFTP sender adapter. You can also stop the processing of the current file batch if any exception or error is encountered, Only if **Poll on One Worker Only** is enabled.  
See: [SFTP Sender Adapter](#)
- Expiring refresh tokens are now supported on the Cloud Foundry platform for OAuth2 Authorization Code with Generic Provider.  
See: [Deploying an OAuth2 Client Authorization Code with Generic Provider](#)
- A new version 41.2.6.0 of the Elster Rich Client (ERiC) library is available for the ELSTER receiver adapter.  
See: [Elster Receiver Adapter](#)
- You can now qualify the schema and export the XSD schema for data type.  
See: [Data Type](#)
- You can now export XSD schema for message type.  
See: [Message Type](#)
- You can now import functional libraries with parameter type Simple Type.  
See: [Import Function Library from ES Repository](#)

# Pipeline Concept

# Latest enhancements of the Process Integration Pipeline Concept for Cloud Integration

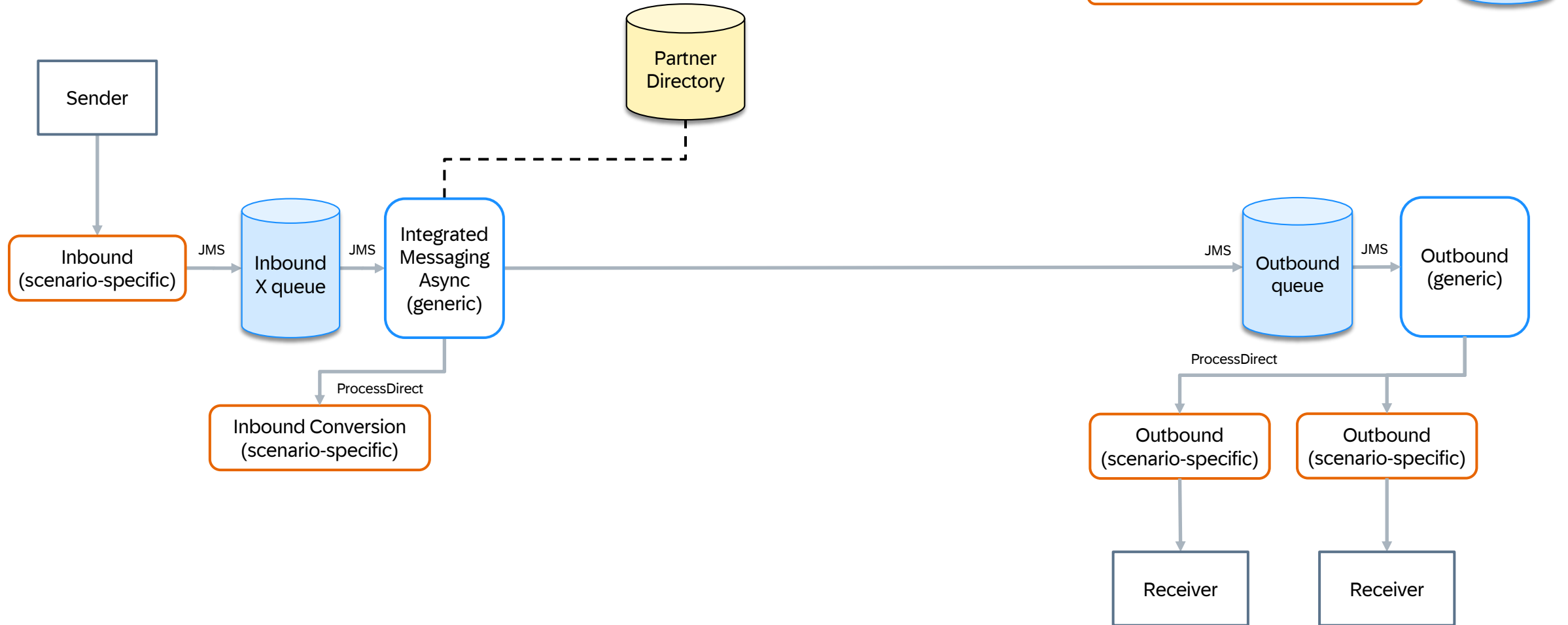
## Version 1.0.8

- Additional bypass options
  - Combine receiver and interface determination
  - Bypass interface determination
  - Bypass receiver determination
- Supporting header-based XSLT routing conditions if message body is non-XML
- Custom extension points
  - for custom receiver determination instead of XSLT from Partner Directory
  - for custom interface determination instead of XSLT from Partner Directory

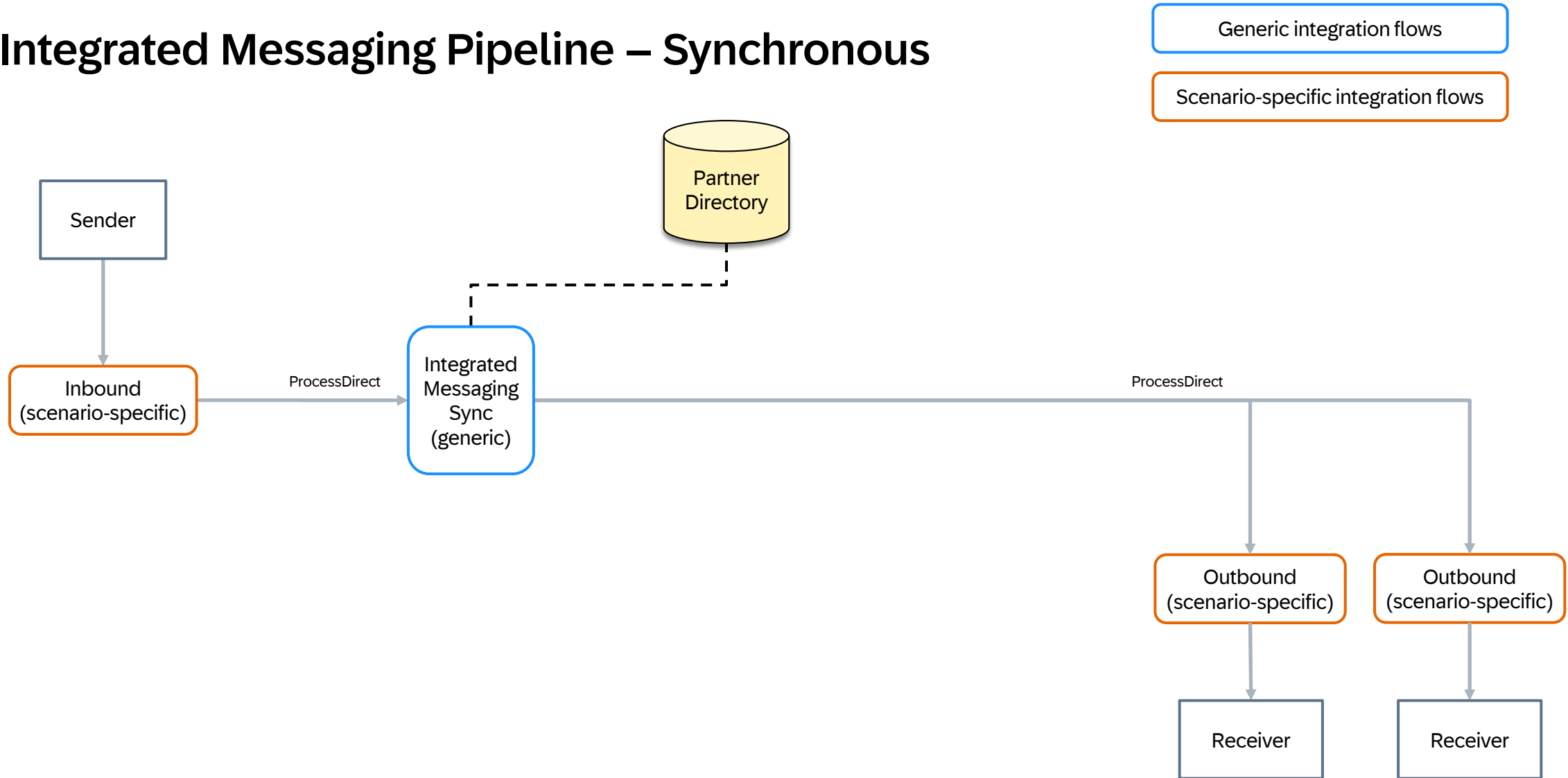
## Version 1.0.9

- New pipelines
  - Integrated Messaging Async
  - Integrated Messaging Sync
- Supporting different tenant stages, e.g., DEV, QA, PRD
- Generic inbound processing for XI supports both asynchronous and synchronous messaging
- Custom error handling for generic XI and IDoc inbound flows

# Integrated Messaging Pipeline – Asynchronous



# Integrated Messaging Pipeline – Synchronous



# Supporting landscape stages: Map tenant name to stage

The screenshot displays the SAP Integration Suite interface. On the left, the 'Partners (1)' list shows 'SAP\_Integration\_Suite\_Landscape' selected. The main area shows the 'SAP\_Integration\_Suite\_Landscape' configuration page with a 'String Parameters' tab active. A table lists three string parameters for different stages: PRD, QA, and DEV, each with a unique ID.

ID	Value	Last Modified By	Last Modified Time	Created By	Created Time	Actions
integrationsuite-eu-07-prd	PRD				Jan 21, 2025, 10:51:21	...
integrationsuite-eu-07-qa	QA				Jan 21, 2025, 10:51:11	...
integrationsuite-eu-07-dev	DEV				Jan 21, 2025, 10:51:01	...

# Supporting landscape stages: Maintain mapping between alias and actual names

The screenshot displays the SAP Integration Suite interface for managing a Partner Directory. On the left, a sidebar shows a list of partners under 'Partners (2)'. The partner 'BS\_DD2' is highlighted with a red box. The main area shows the details for 'BS\_DD2', with the 'Alternative Partners' tab selected. This tab displays a table of alternative partners, with the 'QA' entry highlighted by a red box. The table columns include Agency, Scheme, ID, Last Modified By, Last Modified Time, Created By, and Created Time.

**Partners (2)**

PID	Actions
BS_DD1	>
BS_DD2	>

**BS\_DD2**

String Parameters Binary Parameters **Alternative Partners** Authorized Users

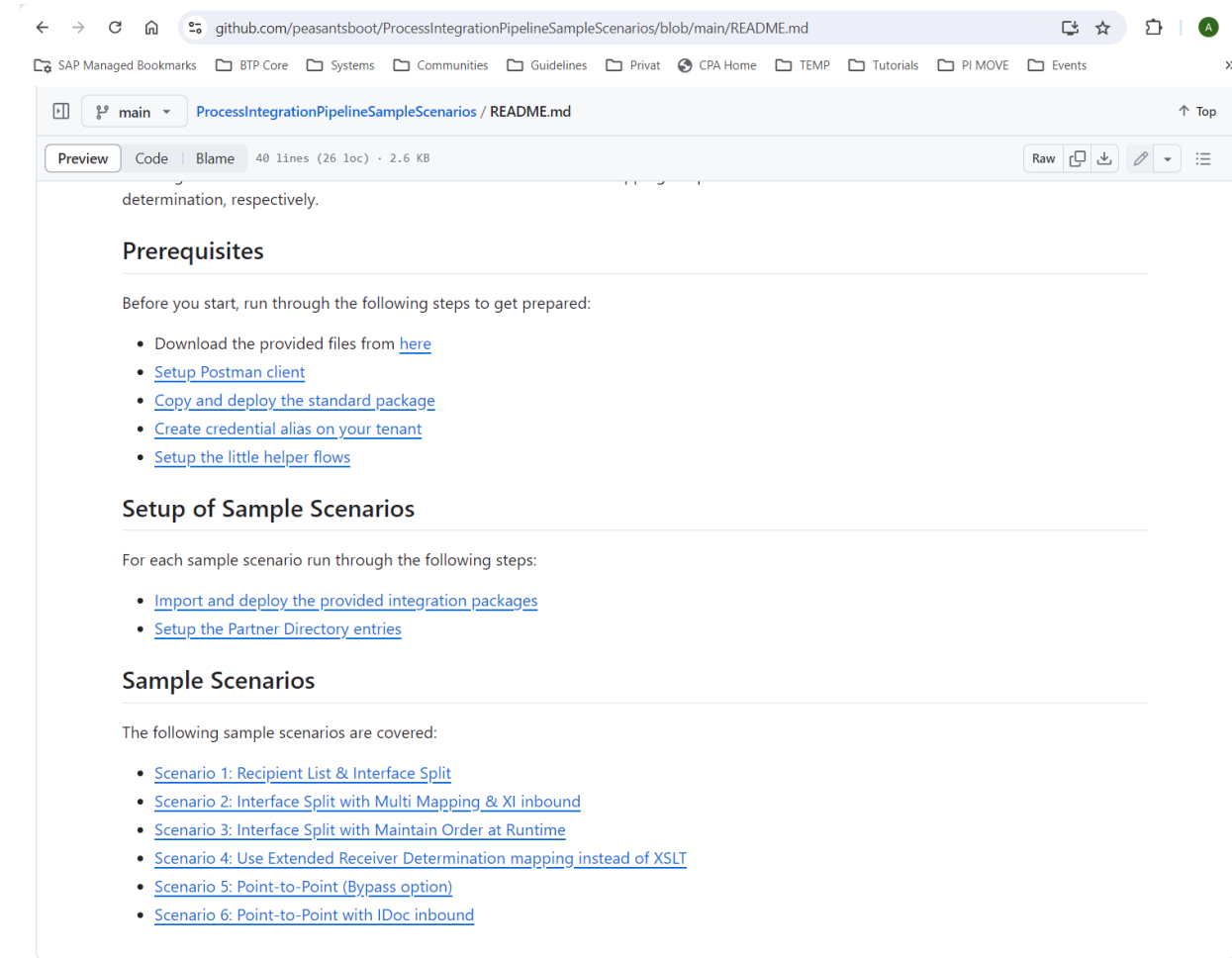
**Alternative Partners (3)** Filter by Agency Filter by Scheme Filter by ID Create Refresh Sort

Agency	Scheme	ID	Last Modified By	Last Modified Time	Created By	Created Time	Actions
PRD	BusinessSystemName	BS_DD2_P	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:22	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:22	...
QA	BusinessSystemName	BS_DD2_Q	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:21	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:21	...
DEV	BusinessSystemName	BS_DD2_D	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:21	sb-e6429eff-74c6-49c9-8d21-88299364f619!b193685jit!b117912	Dec 12, 2024, 15:41:21	...

# Try it out

Github repository with **sample integration packages** and guideline how to setup the pipeline concept

<https://github.com/peasantsboot/ProcessIntegrationPipelineSampleScenarios>



The screenshot shows a web browser displaying the GitHub repository page for `ProcessIntegrationPipelineSampleScenarios / README.md`. The page content includes:

- A heading **Prerequisites** followed by the text "Before you start, run through the following steps to get prepared:" and a bulleted list of links: "Download the provided files from [here](#)", "Setup Postman client", "Copy and deploy the standard package", "Create credential alias on your tenant", and "Setup the little helper flows".
- A heading **Setup of Sample Scenarios** followed by the text "For each sample scenario run through the following steps:" and a bulleted list of links: "Import and deploy the provided integration packages" and "Setup the Partner Directory entries".
- A heading **Sample Scenarios** followed by the text "The following sample scenarios are covered:" and a bulleted list of links: "Scenario 1: Recipient List & Interface Split", "Scenario 2: Interface Split with Multi Mapping & XI inbound", "Scenario 3: Interface Split with Maintain Order at Runtime", "Scenario 4: Use Extended Receiver Determination mapping instead of XSLT", "Scenario 5: Point-to-Point (Bypass option)", and "Scenario 6: Point-to-Point with IDoc inbound".





# **Salesforce PubSub Adapter for SAP Integration Suite**

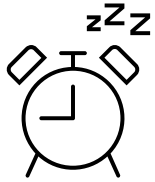
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# Salesforce PubSub Adapter

Salesforce Pub/Sub API (short for Publish-Subscribe API) is a real-time event messaging system that enables event-driven architecture (EDA) within Salesforce. It allows systems to communicate asynchronously by publishing and subscribing to events.



# Advantage



## Low Latency

gRPC uses HTTP/2, which allows multiplexed streams and binary message serialization through Protocol Buffers, resulting in lower latency and faster data delivery.

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## Binary Protocol

gRPC uses Protocol Buffers (Protobuf) as its serialization format, which is more efficient than text-based formats like JSON. This reduces payload size and improves performance.

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## Bidirectional Streaming

gRPC supports bidirectional streaming, allowing both the client and server to send multiple messages asynchronously. This is ideal for real-time applications like Salesforce's event-driven architectures.

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## High Throughput

High-throughput event consumption

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# Adapter - Features



## Authentication

OAuth2 Client  
Credentials

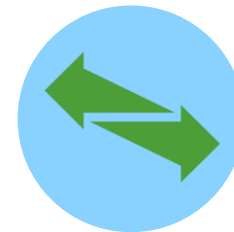
OAuth2 JWT Bearer



## Adapter Type

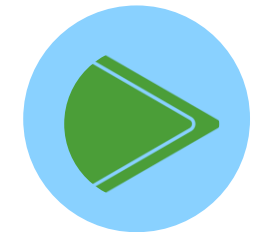
Sender

Receiver



## Message Protocol

gRPC



## Supported Runtimes

Cloud Integration

EIC

# Sender Adapter

## Features:

- Listen messages from subscriptions using the gRPC Protocol
- Camel Expression support
- Support for multiple message batch receive
- Support for various Replay Id message scenarios
- Error Handling Mechanism in case of Subscription failure

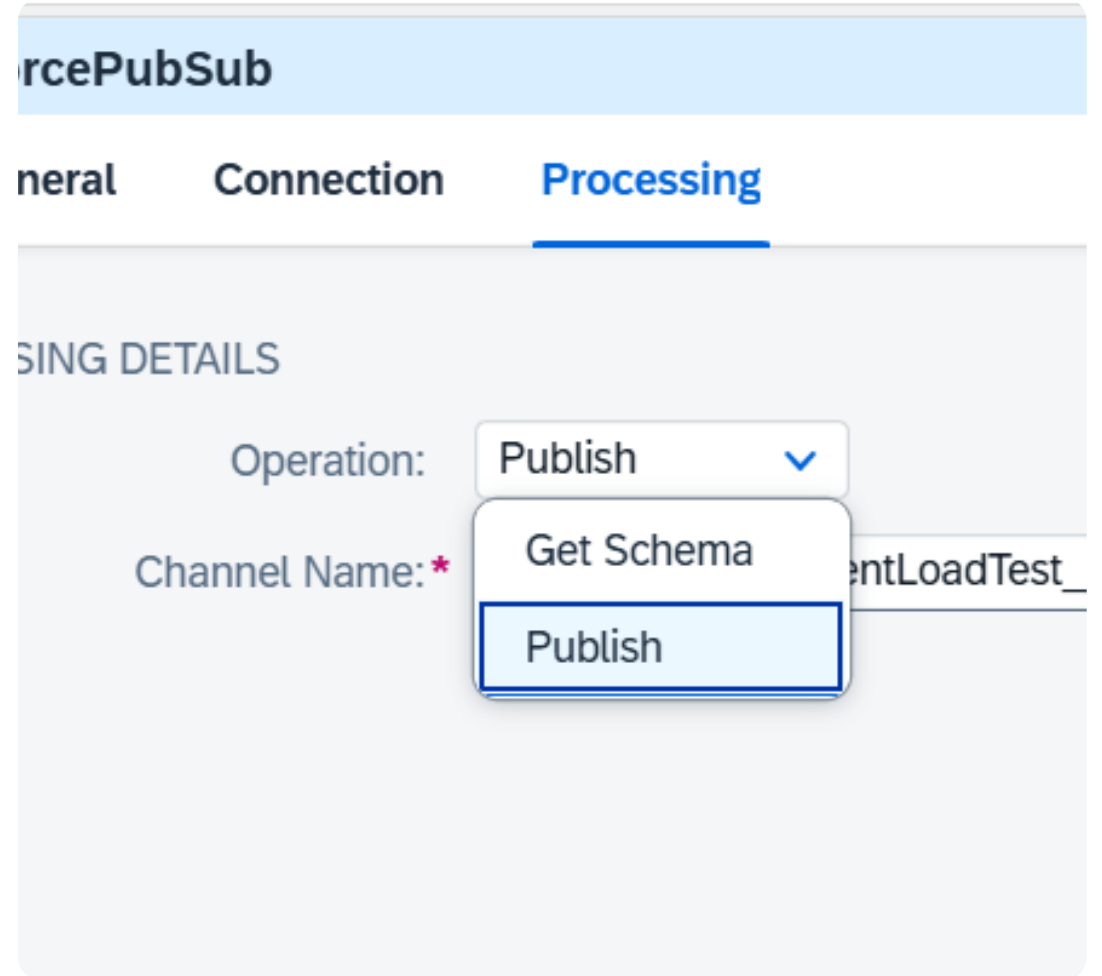
The screenshot shows the configuration interface for the SalesforcePubSub adapter, with the 'Processing' tab selected. The interface is titled 'SalesforcePubSub' and has three tabs: 'General', 'Connection', and 'Processing'. Under the 'Processing' tab, the 'PROCESSING DETAILS' section is visible, containing several configuration fields:

- Channel Name:** /event/PlatformEventLoadTest\_\_e
- Replay ID Approach:** Events from latest position (Latest) (dropdown menu)
- Request Batch Size:** 100
- Replay Preset for Invalid Replay ID:** Events from latest position (Latest) (dropdown menu)
- Duplicate Check Expiration (in ms):** 300000
- Process Errors as an Event:**

# Receiver Adapter

## Features:

- Operations: Publish & Get Schema
- Dynamic headers/property support.
- Adapter will accept the payload JSON and converts in Avro format (expected by the Salesforce Pub/Sub API).
- Provides the ability retrieve a schema for a given topic.



## Business Use cases:

- Sync master data from Salesforce to Snowflake for analytics purpose.
- Sync master data from Salesforce to s4hana database.
- Replicate opportunities using custom platform events to third party application.
- Create a ServiceNow incident as soon as a service request is approved in Salesforce



**DEMO**



## Consider Salesforce adapter to Pub/Sub Adapter for new scenarios

- Existing security material can be used as it was configured for previous salesforce adapter.
- Channel Name, other properties related to the behaviour (replay-Id) remains same.
- Supports only JSON response.

### Future enhancements:

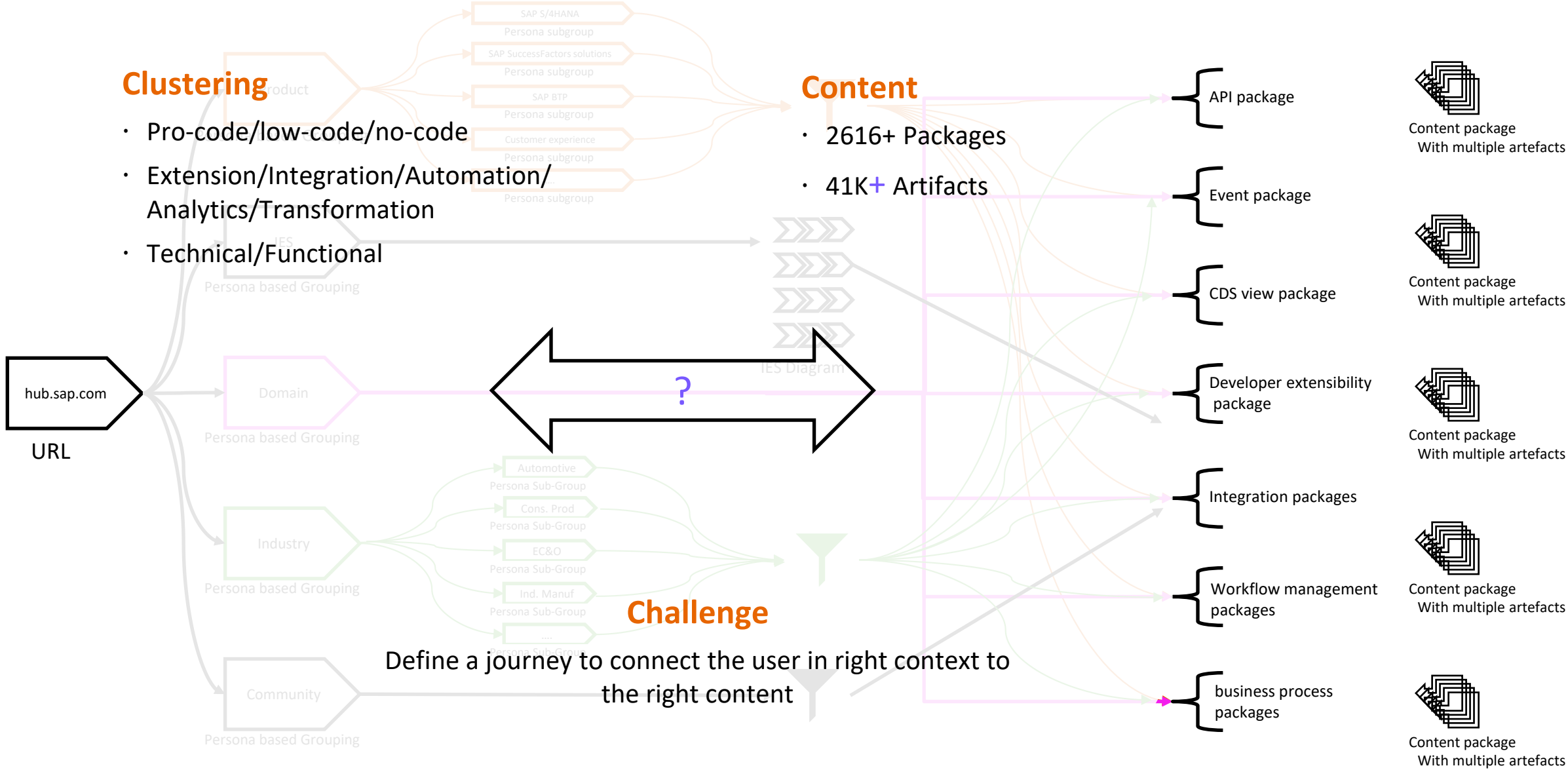
- Enhance the Receiver with a new operation to read the messages.



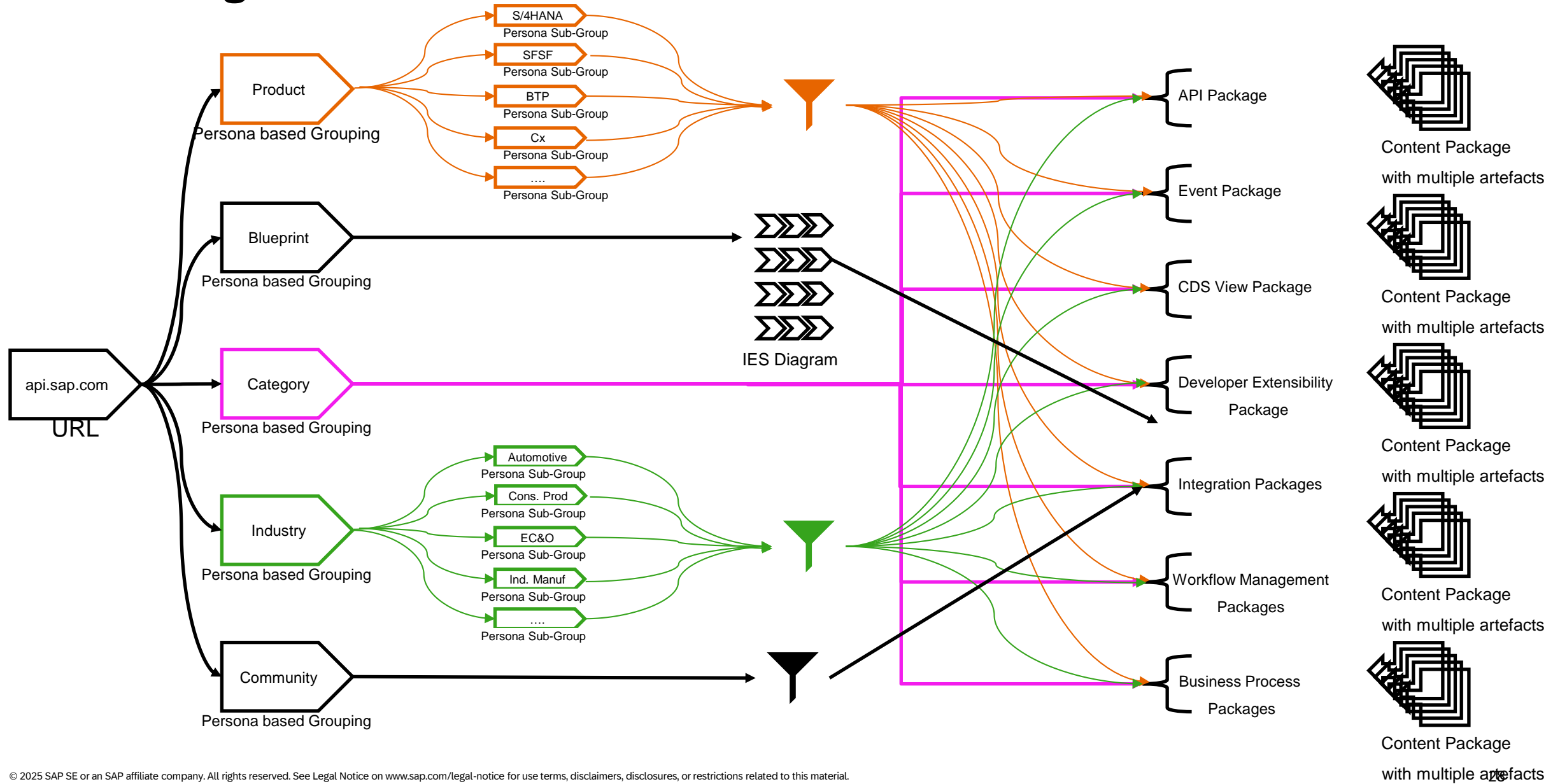
# SAP Business Accelerator Hub

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# SAP Business Accelerator Hub – Problem



# Navigations



# Demo – SAP Business Accelerator Hub domains

[Blog](#)

# Demo



# Thank you.

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