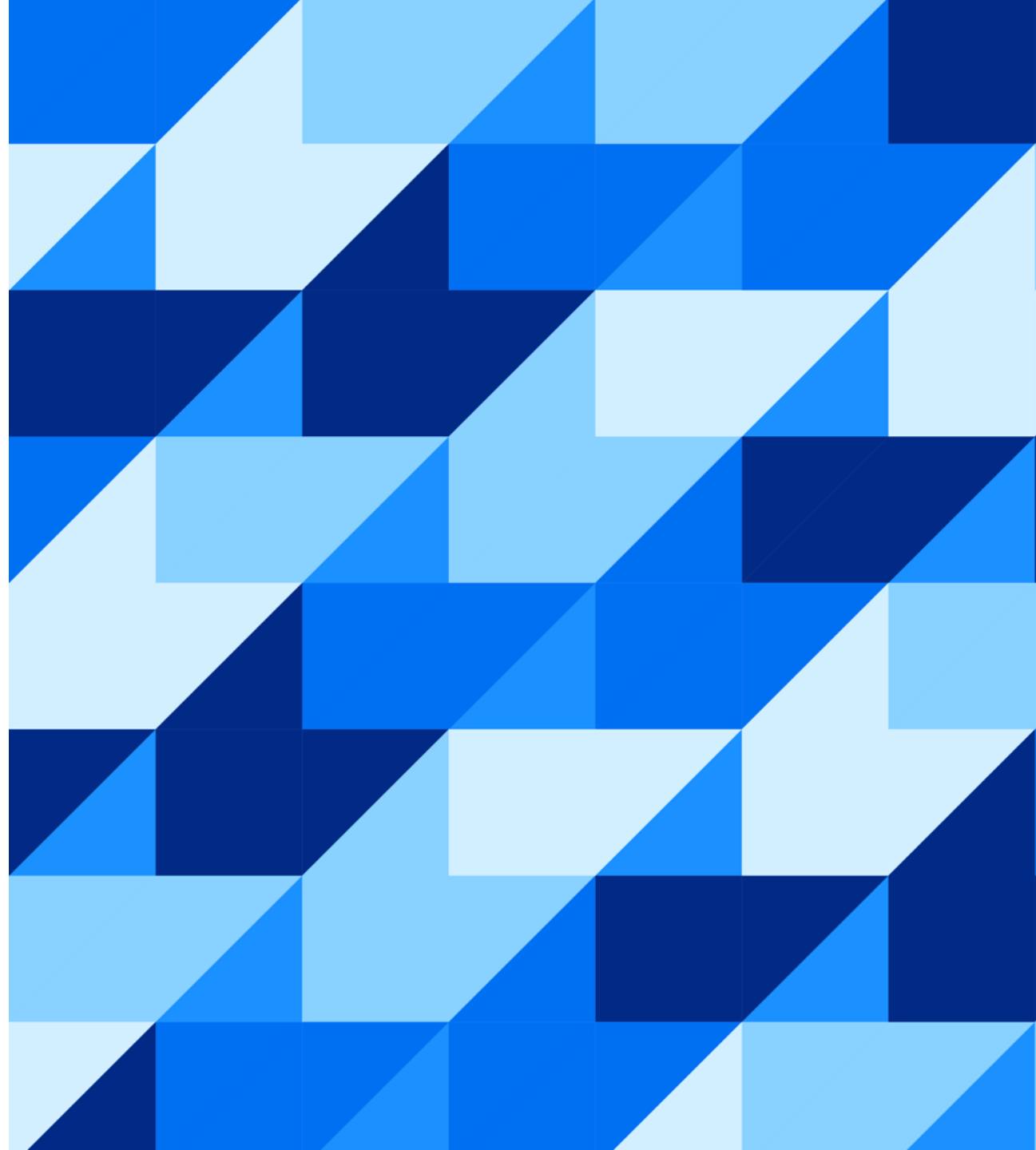**SAP**

SAP Integration Suite Monthly Updates –
February 2025

Product Management Team, SAP Integration Suite
Month , 2025

PUBLIC

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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: <u>Configure the XI Sender Adapter</u>

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

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

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
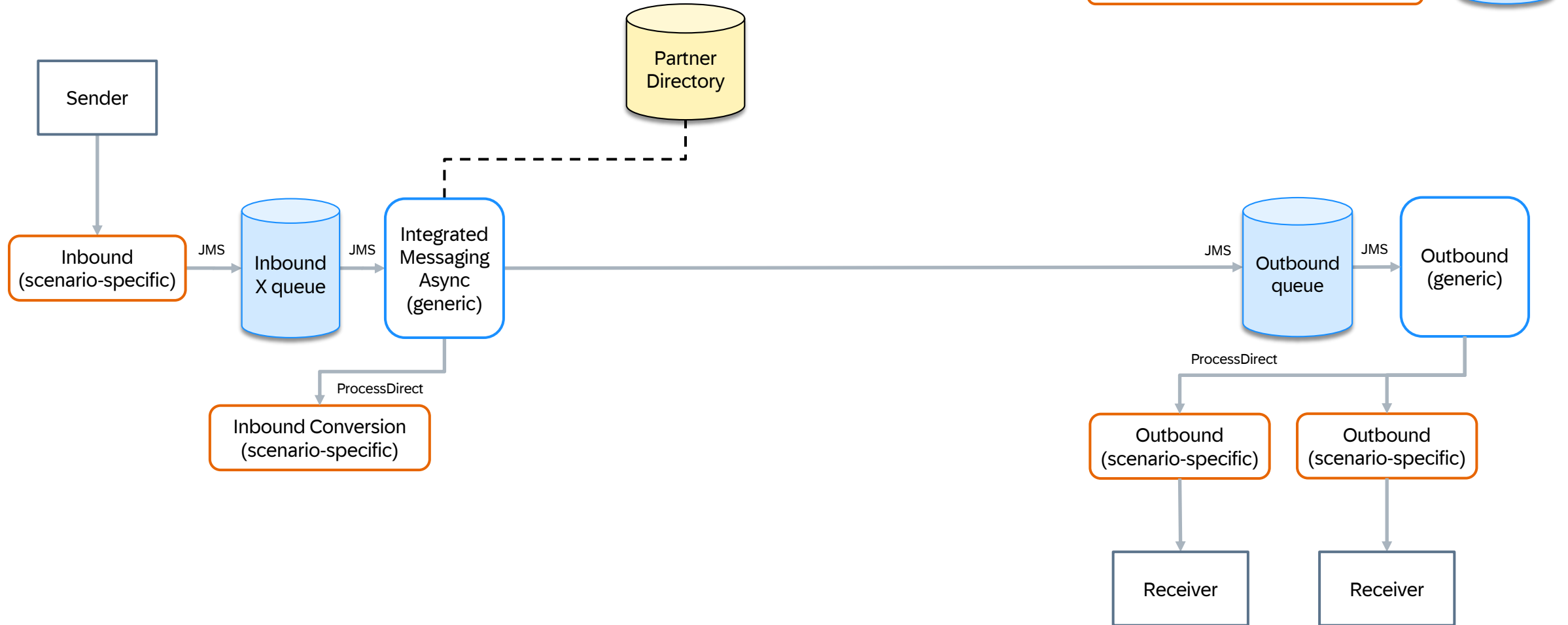
Version 1.0.8

- 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
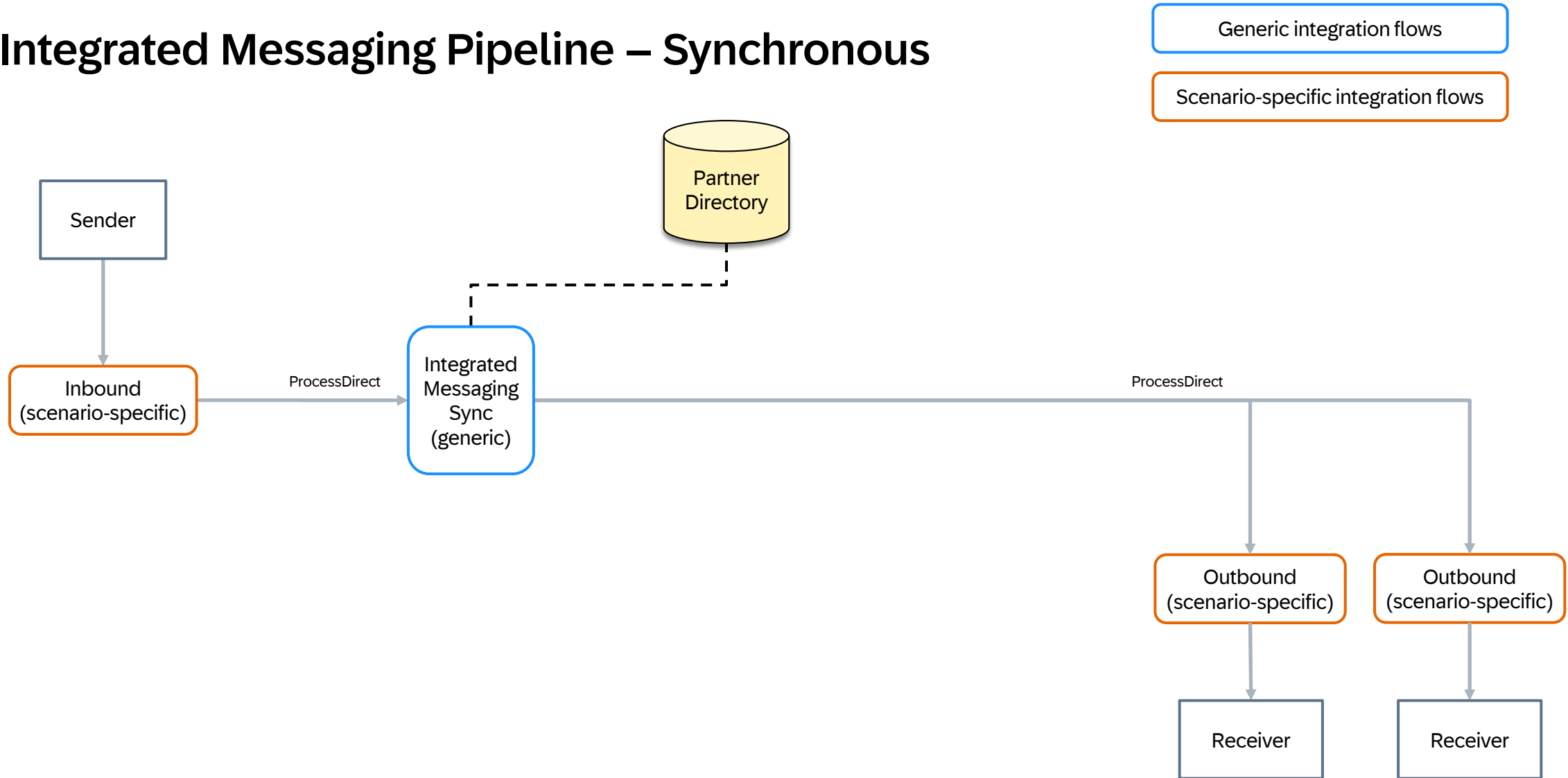 - for custom interface determination instead of XSLT from Partner Directory

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

Generic integration flows

Scenario-specific integration flows

JMS queues

Sender

Inbound (scenario-specific)

JMS

Inbound X queue

JMS

Integrated Messaging Async (generic)

Partner Directory

ProcessDirect

Inbound Conversion (scenario-specific)

JMS

Outbound queue

JMS

Outbound (generic)

ProcessDirect

Outbound (scenario-specific)

Outbound (scenario-specific)

Receiver

Receiver

Integrated Messaging Pipeline – Synchronous

Generic integration flows

Scenario-specific integration flows

Partner Directory

Sender

Inbound (scenario-specific)

ProcessDirect

Integrated Messaging Sync (generic)

ProcessDirect

Outbound (scenario-specific)

Outbound (scenario-specific)

Receiver

Receiver

Supporting landscape stages: Map tenant name to stage

Supporting landscape stages: Maintain mapping between alias and actual names

Try it out

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

https://github.com/peasantsboot/ProcessIntegration
PipelineSampleScenarios
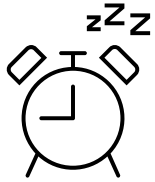
Salesforce PubSub Adapter for SAP Integration Suite

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.

```
┌─────────────┐        ┌──────────────────┐        ┌─────────────┐
│             │        │                  │        │             │
│  Publisher  │  ──▶   │ Salesforce Event │  ──▶   │  Subscribe  │
│             │        │       Bus        │        │             │
└─────────────┘        └──────────────────┘        └─────────────┘
```

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.

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.

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.

High Throughput

High-throughput event consumption

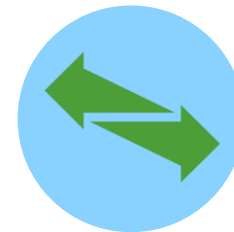# Adapter - Features

Authentication

OAuth2 Client
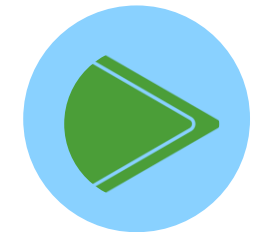Credentials

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

SalesforcePubSub

| General | Connection | **Processing** |

PROCESSING DETAILS

Channel Name:	/event/PlatformEventLoadTest__e
Replay ID Approach:	Events from latest position (Latest)
Request Batch Size:	100
Replay Preset for Invalid Replay ID:	Events from latest position (Latest)
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.
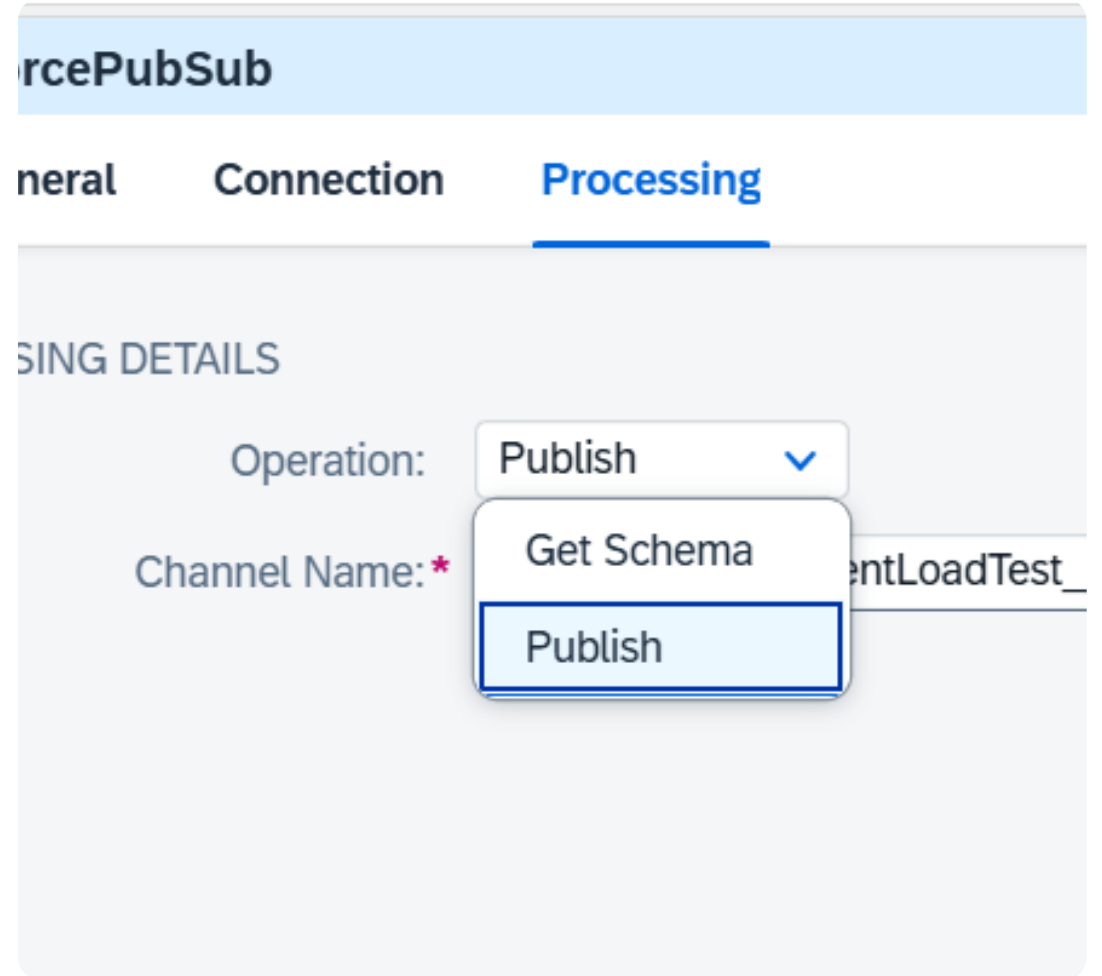
Business Use cases:

- 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.
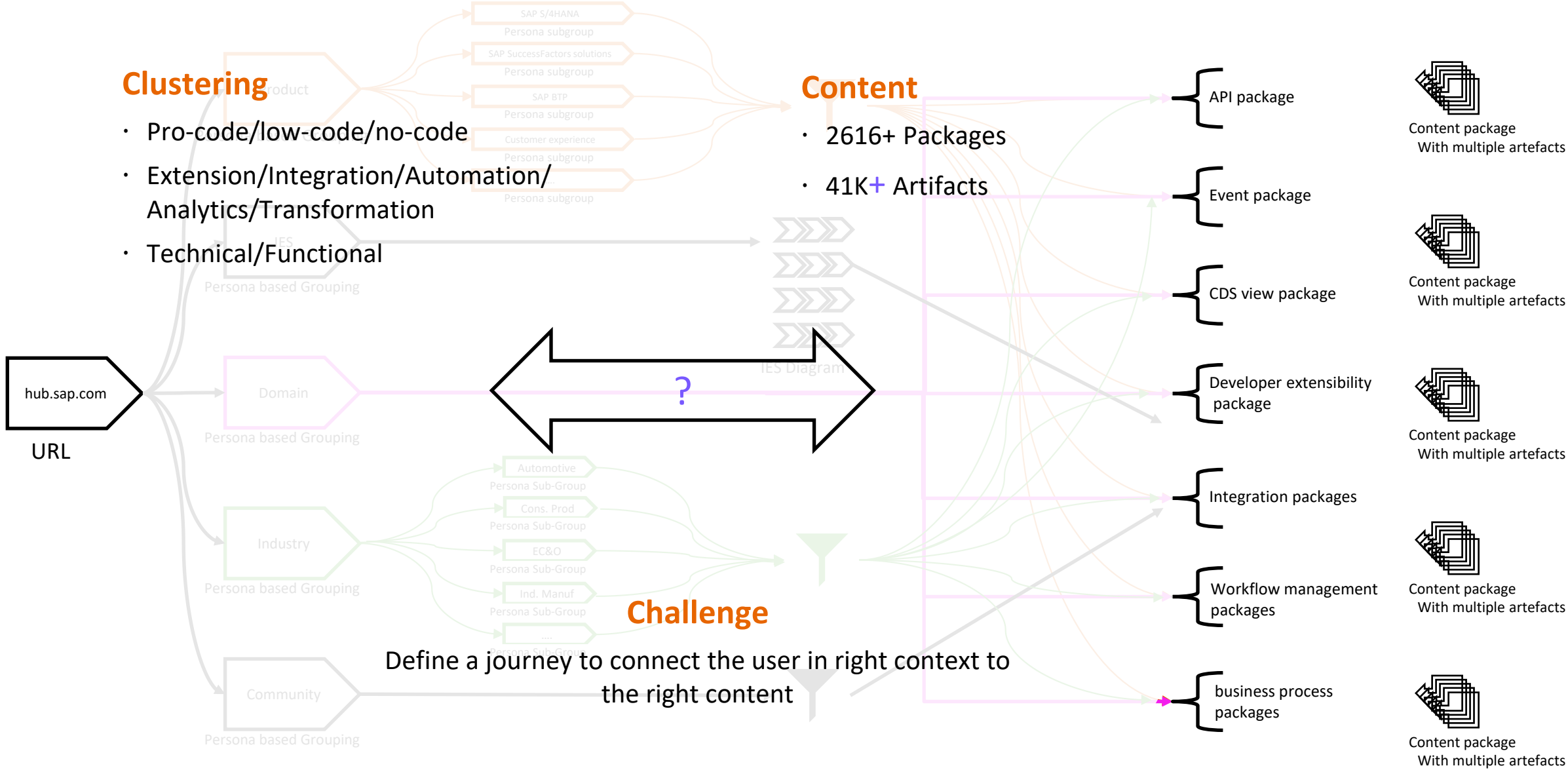
- Supports only JSON response.

Future enhancements:

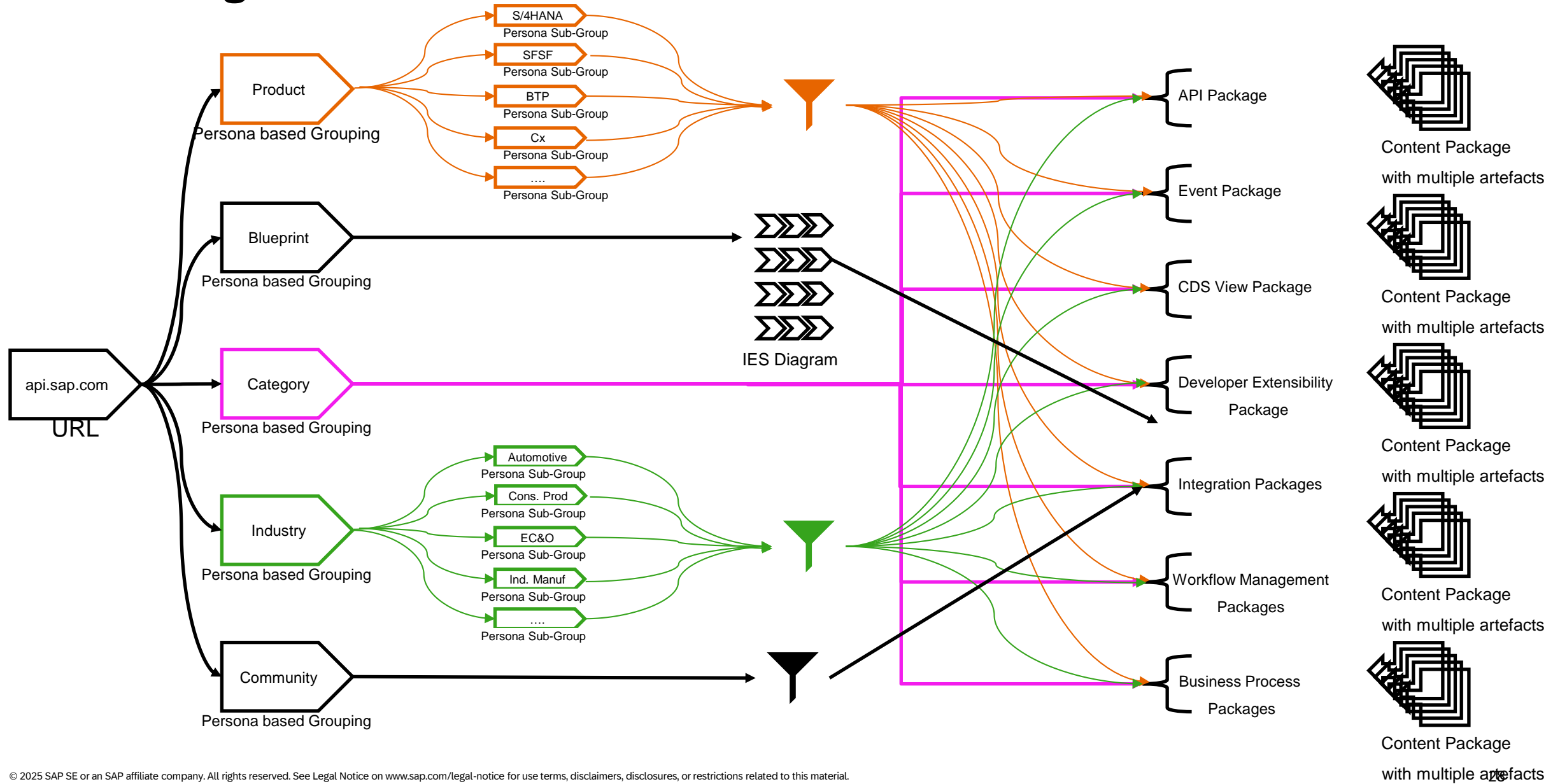- Enhance the Receiver with a new operation to read the messages.

SAP Business Accelerator Hub

SAP Business Accelerator Hub – Problem

Clustering

- Pro-code/low-code/no-code
- Extension/Integration/Automation/Analytics/Transformation
- Technical/Functional

Content

- 2616+ Packages
- 41K+ Artifacts

URL

hub.sap.com

?

Challenge

Define a journey to connect the user in right context to the right content

API package

Content package
With multiple artefacts

Event package

Content package
With multiple artefacts

CDS view package

Developer extensibility package

Content package
With multiple artefacts

Integration packages

Workflow management packages

Content package
With multiple artefacts

business process packages

Content package
With multiple artefacts

Navigations

Demo – SAP Business Accelerator Hub domains

[Blog](#)

Demo

Thank you.

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