SAP Integration Suite Monthly Updates – March 2025

Product Management Team, SAP Integration Suite
Month , 2025

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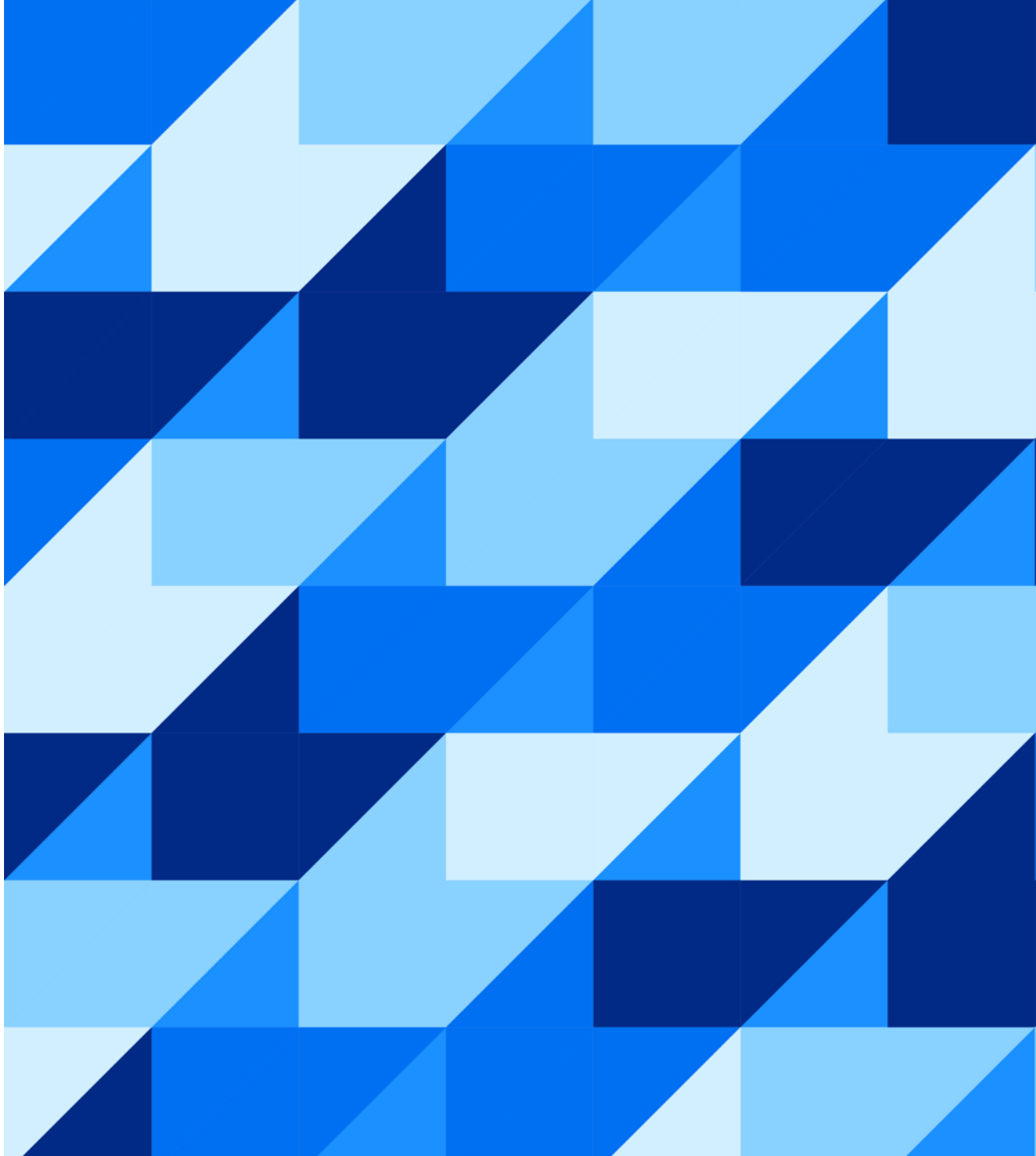

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Agenda

Topic	Presenter
Onboarding	Joerg
Google Sub Pub adapter	Swati
Cloud Integration	Sunny
Pipeline for Cloud Integration	Alex
B2B & Cloud Connector	Marco

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3rd Party Connectivity with Integration Suite

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3rd Party Connectivity Adapters

Recently Released

Google Cloud Storage

Salesforce Pub Sub

IBM MQ Series (REST)

Google Pub/Sub

LeanIX

Coming Soon

- IBM MQ Series (JMS)
- MS Teams

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Google Pub Sub Adapter for Integration Suite

Google Pub/Sub is an asynchronous and scalable messaging service that decouples services producing messages from services processing those messages.

Pub/Sub allows services to communicate asynchronously, with latencies typically on the order of 100 milliseconds.

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Google Pub Sub Adapter - Features

Authentication

- OAuth2 Service Account

Adapter Type

- Sender
- Receiver

Message Protocol

- Sender : REST - polling
- Sender: gRPC - listening
- Receiver: REST – publishing etc

Supported Runtimes

- Cloud Integration
- EIC

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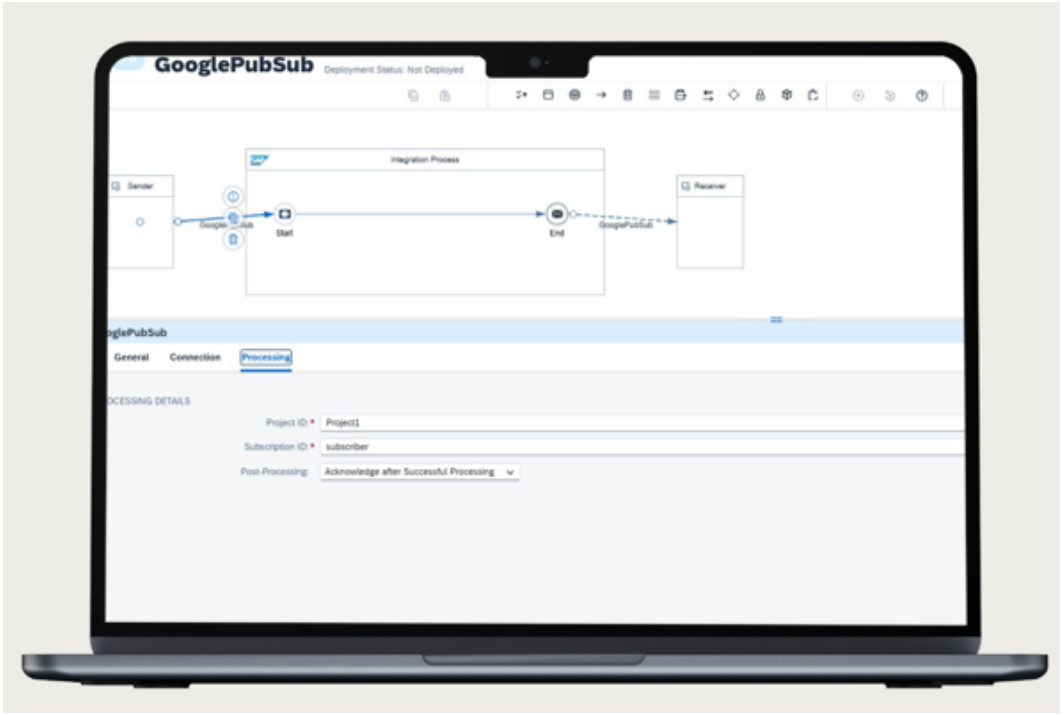
Sender Adapter

- Operations:
  - Poll Messages from the subscriptions - REST
  - Listen messages from subscriptions – gRPC
- Camel Expression support
- Support for multiple message poll at the same time (applicable for REST)
- Support for implicit duplicate check
- Support for various post processing handling



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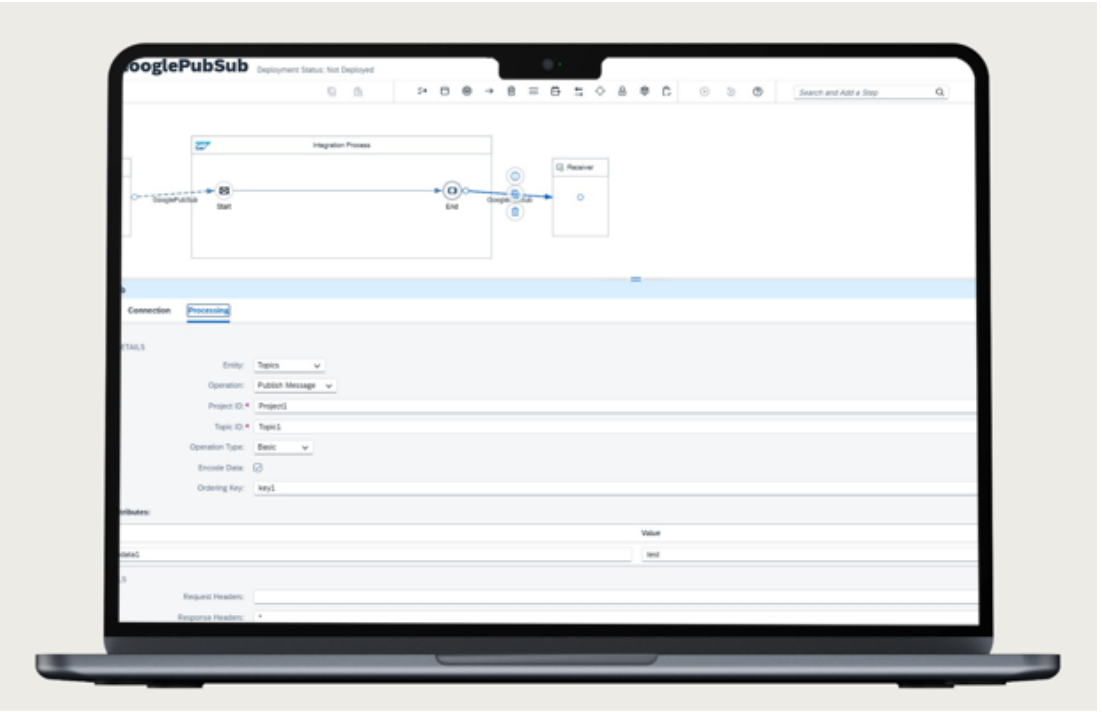
Receiver Adapter

- Topics
  - Publish
  - List
- Subscriptions
  - Acknowledge Message
  - Modify acknowledgement Deadline
- Dynamic headers/property support
- Basic and advanced modes are supported to publish multiple messages in one request
- Support for custom message attributes and ordering key
- Support for custom Request and Response headers



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Cloud Integration

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Enterprise Grade Integration Development Framework

Automated **Design Guideline** checks enable integration developers to create robust integration flows, ensuring the protection and reliability of critical business processes.

Inspect Resource utilization empowers to assess and optimize the **efficient use of resources,** such as databases, system memory, and content size, by integration artifacts.

AI-driven recommendations provide tailored optimization proposals to assess and improve the **efficient use of resources** by integration artifacts.

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Script optimization

Leveraging generative AI to propose optimization in scripts

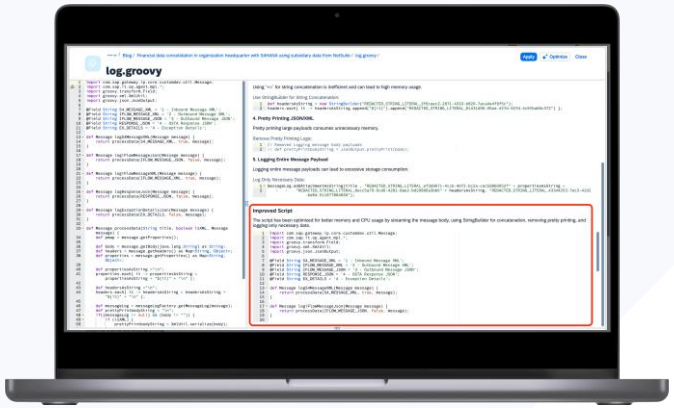
Challenge

David

Integration developer

"As an integration developer, I want to design enterprise-grade integrations and ensure that existing integrations are optimized."

Solution



Leveraging LLMs grounded with specific domain knowledge, tenant runtime behavior, and industry best practices, you can identify hot spots, recommend tailored optimization proposals, and gain insights into the impact.

Benefits

Improved
operational excellence

Higher
uptime SLA

Better
resource Utilization

See: Help Documentation, Blog Post

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SAP TechEd

DEMO

Optimize Your AI

with Michael Ameling

Exactly-Once-In-Order (EOIO) support in Java Message Service (JMS) adapter

Exactly-Once-In-Order (EOIO) Quality of Service (QoS)

- no duplicate
- no loss of messages
- preserve the sequence during processing

Applications

- Business contexts where the destination system requires messages to be received exactly once and in the proper order.
  - For instance, deposits and withdrawals in a bank account
- Migration from PI/PO as PI/PO supports EOIO QoS

Implementation

- Introduced new JMS Sender adapter (version 1.4) and Receiver Adapter (version 1.6).
- You can now configure message queues to either exclusive or non-exclusive access types.
- With exclusive access, messages are processed sequentially by a single consumer, ensuring strict sequencing, and maintaining the order in which messages are received.
- In combination with previous features this allows manual modelling of EOIO flows.
- For more information on these configuration options, see: Configure the JMS Sender Adapter, Blog Post

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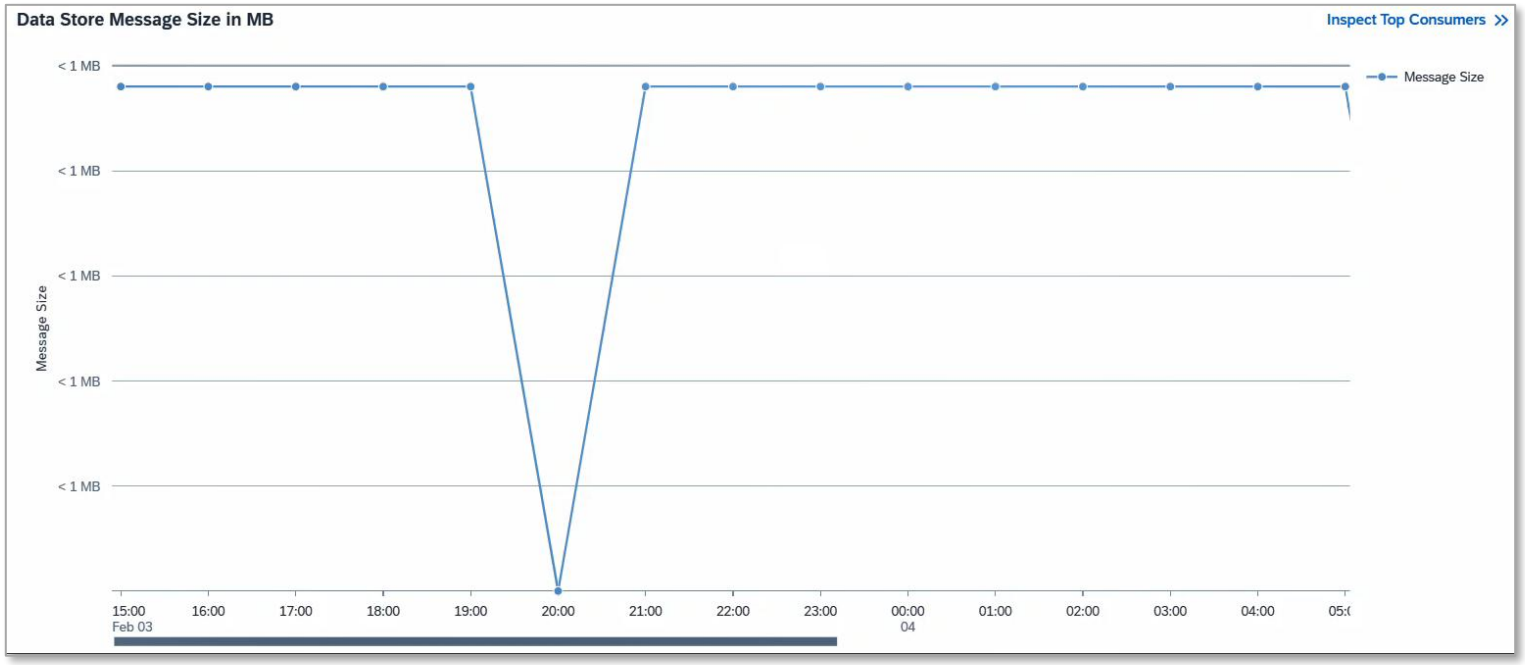
Inspect Enhancements

- A new chart detailing message sizes is now available in the Data Store section within the Inspect function.
- The Top Data Stores heatmaps illustrate the most frequently accessed data stores based on usage and message size.
- The Temporary Storage chart in the Inspect function now shows health status.
- Refer to: Inspect Data Store Usage
- Refer to: Inspect Temporary Storage



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Enhanced AS4 Response Handling and Streamlined Push Operations

- Choose to add an attachment to the payload of AS4 message.
  For more information, see Configure Receiver Channel with ebMS3 Push

- Decide how to handle the response type, as user message or receipt message.
  For more information, see Configure Receiver Channel with ebMS3 Push

- Choose the two-way synchronous communication pattern as the response type.
  For more information, see Configure the Sender Channel with ebMS3 Push

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Other updates

- While using XML to CSV converter, you can now include the field names as headers in the converted CSV file.
  See: Configure XML to CSV Converter
- You can now set the proxy type settings for the AS2 Sender and Receiver Adapter if you have activated the Edge Integration Cell runtime.
  See: Configure the AS2 Sender Adapter, Configure the AS2 Receiver Adapter

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Pipeline for Cloud Integration

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Latest Pipeline for Cloud Integration features at a glance

Supporting service interface operations on the sender side

- New script in script collection to map service interface operations to message type
- Updated templates for inbound processing and inbound conversion to support service interface operations

Updated the allowed header list to increase flexibility when using SAP headers starting with the terms *SAP_Sender* and *SAP_Receiver* as well as custom headers starting with the term *customX*

Script optimizations using new features to fix script incompatibilities and optimizing Groovy scripts via generative AI

XI message ID is converted now to upper case in the generic XI inbound processing flow to be compatible with the format in the message monitoring of the sender system's Integration Engine

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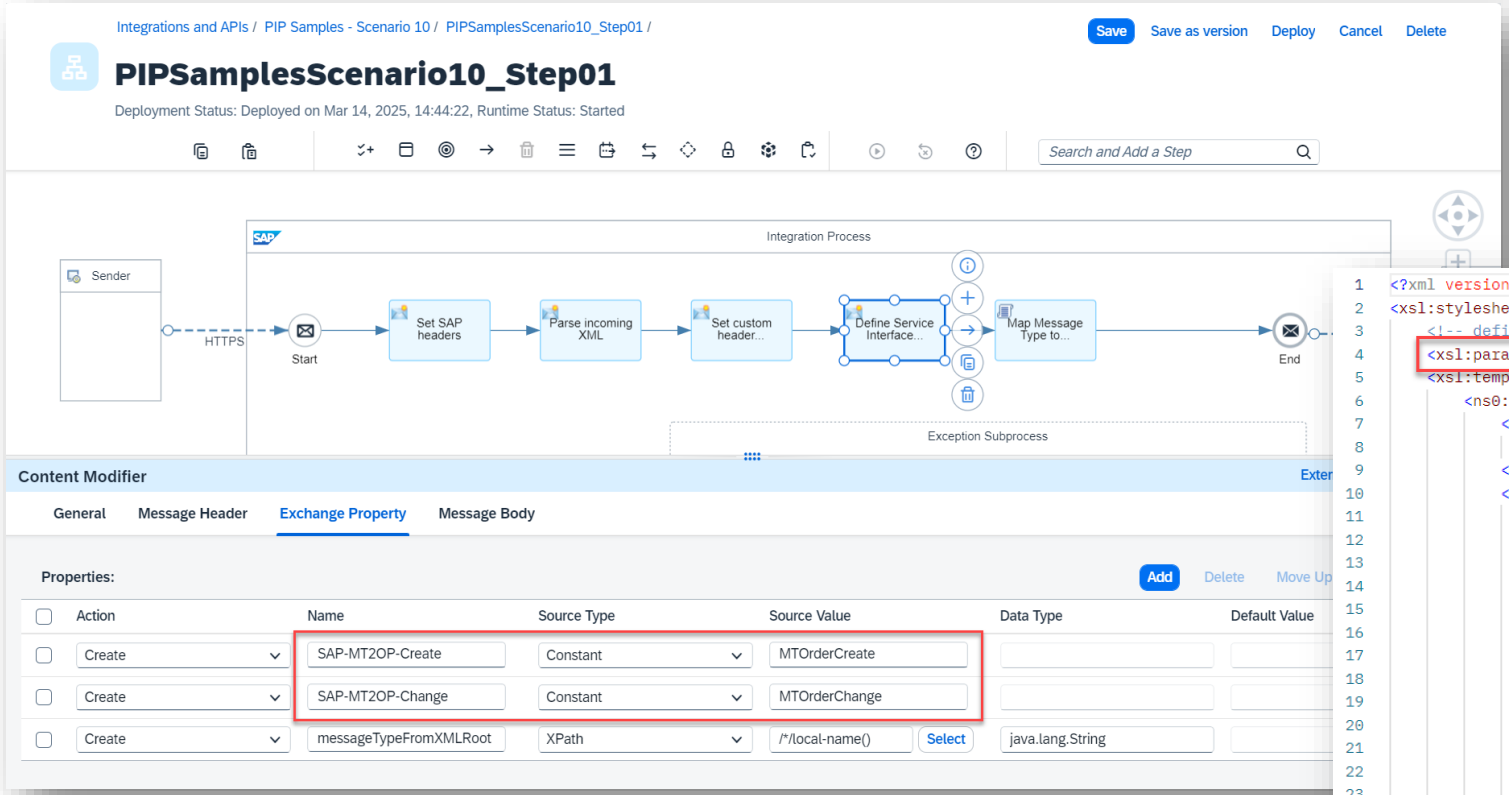
Supporting service interface operations in the Pipeline for Cloud Integration




```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="3.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <!-- define header SAP_SenderOperation -->
    <xsl:param name="SAP_SenderOperation"/>
    <xsl:template match="/">
        <ns0:Receivers xmlns:ns0="http://sap.com/xi/XI/System">
            <ReceiverNotDetermined>
                <Type>Ignore</Type>
            </ReceiverNotDetermined>
            <Receiver>
                <Service>BS_ERP10</Service>
                <Interfaces>
                    <xsl:if test="$SAP_SenderOperation = 'Create'">
                        <Interface>
                            <Index>1</Index>
                            <Service>/PIP/Step07/Samples/Scenario_10/BS_ERP10/Create</Service>
                            <Name>OrderCreate</Name>
                        </Interface>
                    </xsl:if>
                    <xsl:if test="$SAP_SenderOperation = 'Change'">
                        <Interface>
                            <Index>2</Index>
                            <Service>/PIP/Step07/Samples/Scenario_10/BS_ERP10/Change</Service>
                            <Name>OrderChange</Name>
                        </Interface>
                    </xsl:if>
                </Interfaces>
            </Receiver>
        </ns0:Receivers>
    </xsl:template>
</xsl:stylesheet>
```

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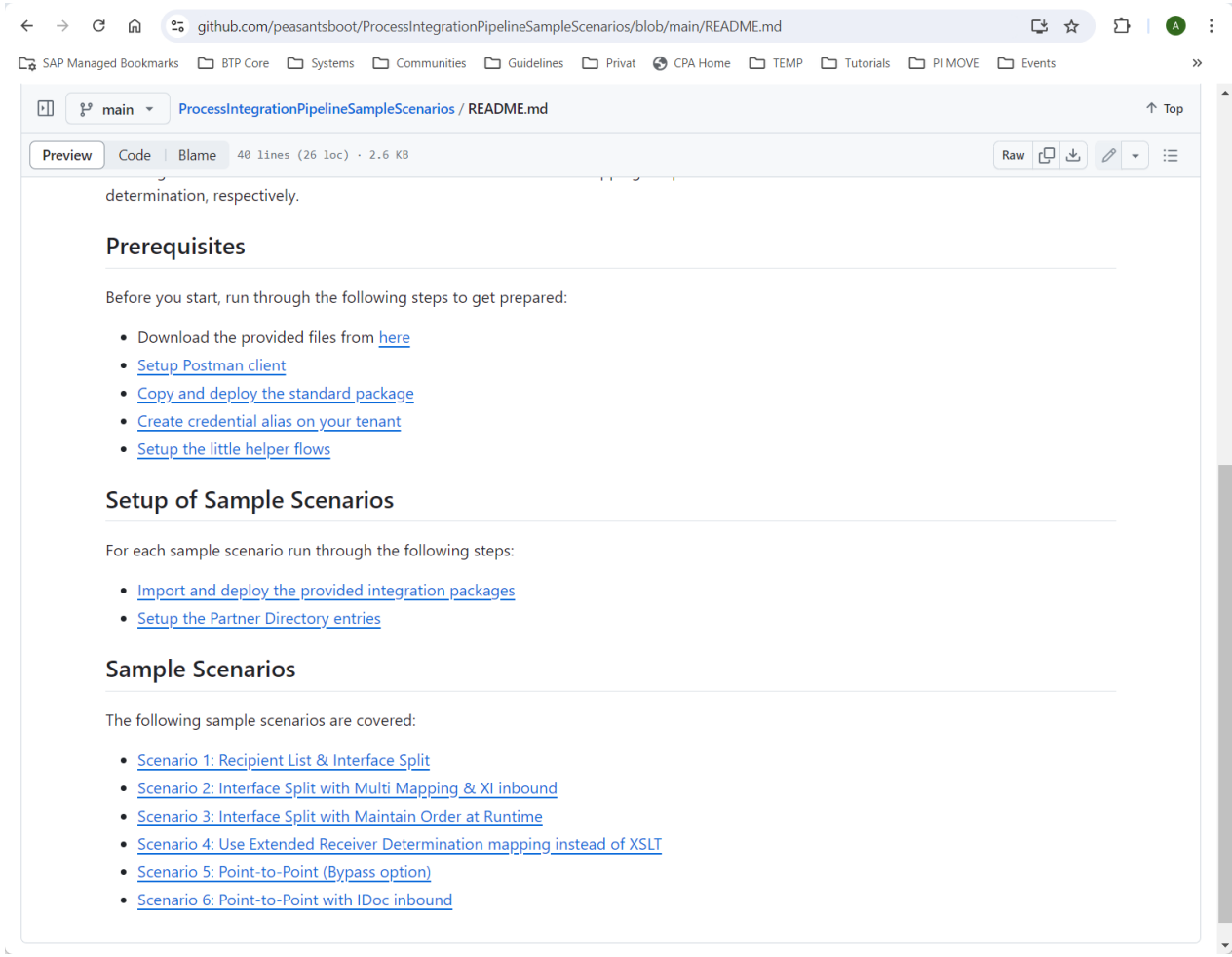
Try it out

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

https://github.com/peasantsboot/ProcessIntegrationPipelineSampleScenarios



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B2B

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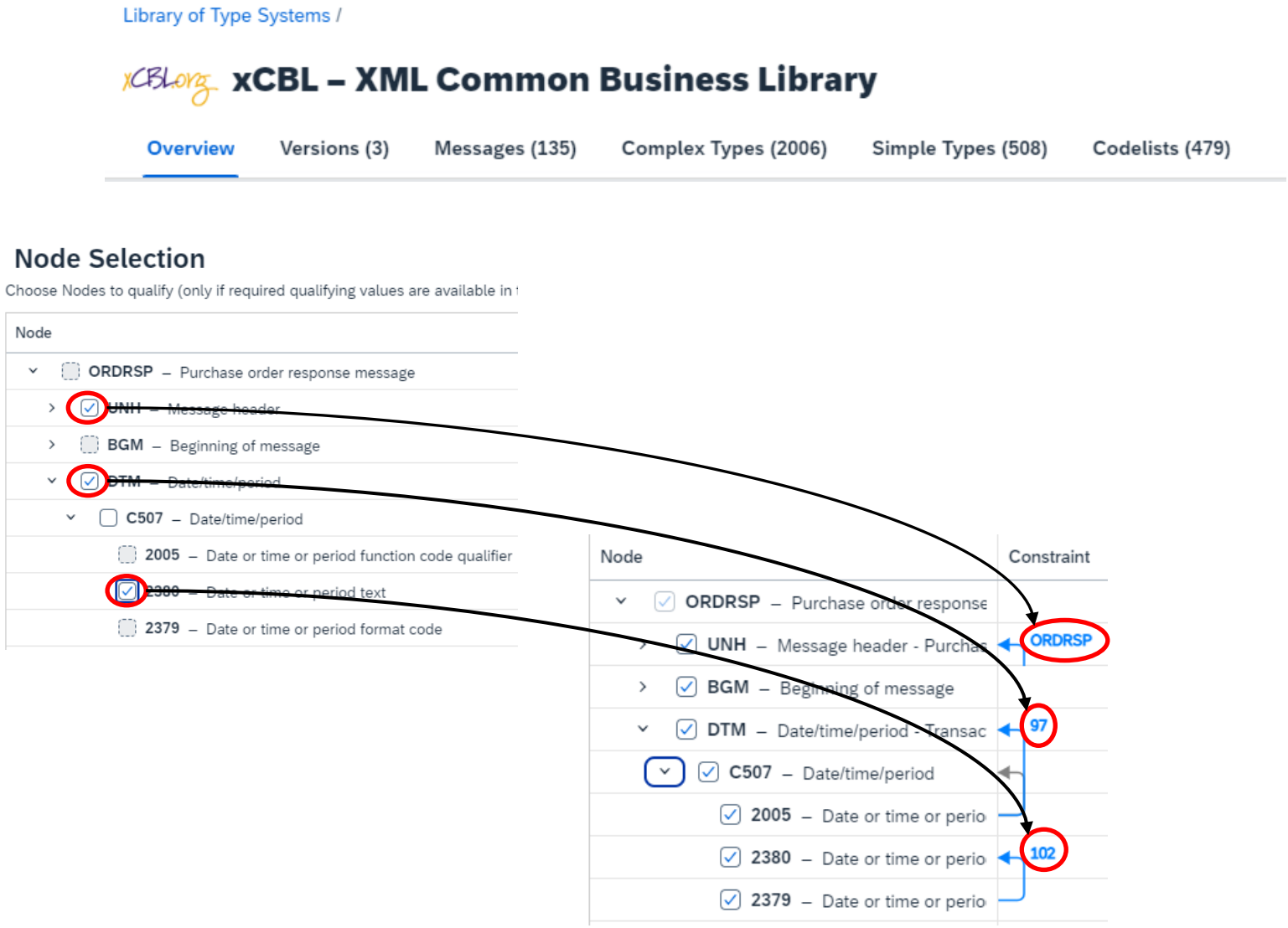
B2B News – Integration Advisor

- New Typesystem xCBL
- Read-only role
- MIG Generation with payload to simplify creation of qualifiers



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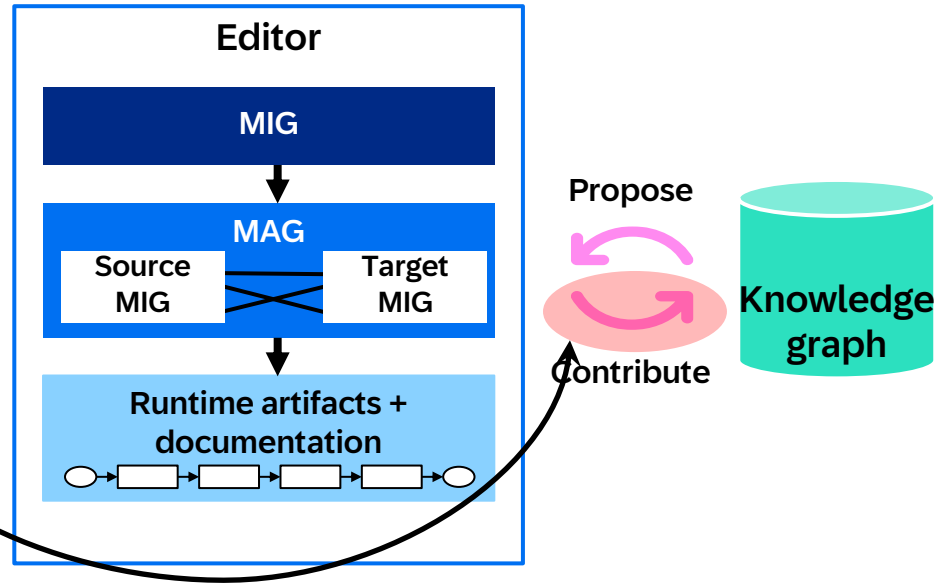
B2B News – Integration Advisor

- Knowledge graph contribution mechanism changed
- XSLT 3 and XPath 3.1 support



Definition

Scope:

Local Code Shared Code

XSLT Code

```
<xsl:variable name="vPartnerID" select="$nodes_in/PARTN"/>
<xsl:variable name="vIdtNr" select="$nodes_in/IDTNR"/>
<xsl:variable name="vCurrency" select="$Trading_Partner_Currency"/>
<xsl:variable name="vLookupTable" select="tokenize($CVM_TaxCode , '\|')"/>
<xsl:value-of select="for $i in $vLookupTable return if(tokenize($i, ';'
    )[1] = $vPartnerID and tokenize($i, ';')[2] = $vIdtNr and tokenize($i,
    ';')[3] = $vCurrency) then tokenize($i, ';')[4] else ()"/>
```

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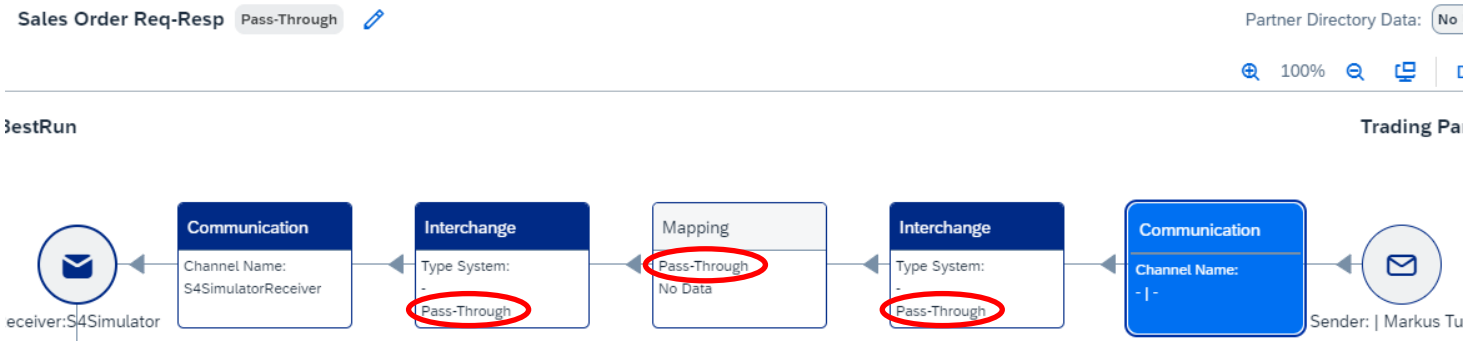
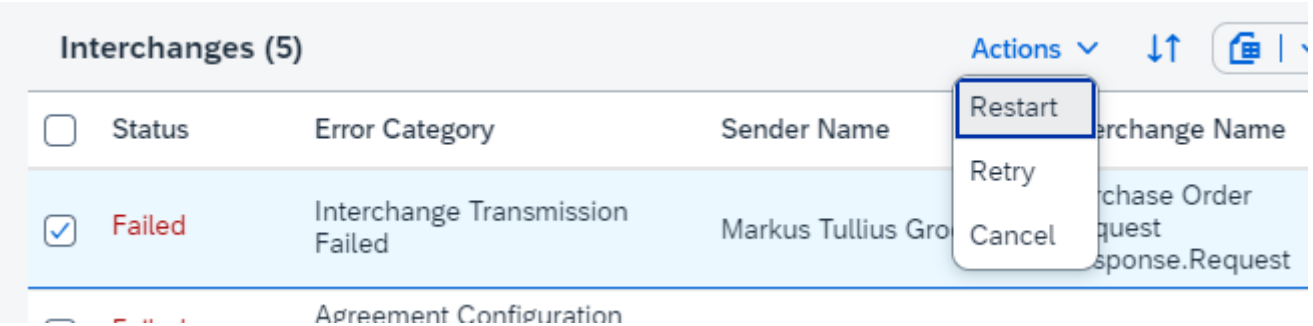
B2B News – Trading Partner Management

- Pass-through Scenarios
- Cancel
- Retry/resend of failed messages

Restart for re-initiating the process
Retry for sending the already mapped payload





Find more details here:

https://help.sap.com/docs/integration-suite/sap-integration-suite/resend-retry-interchanges

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Cloud Connector

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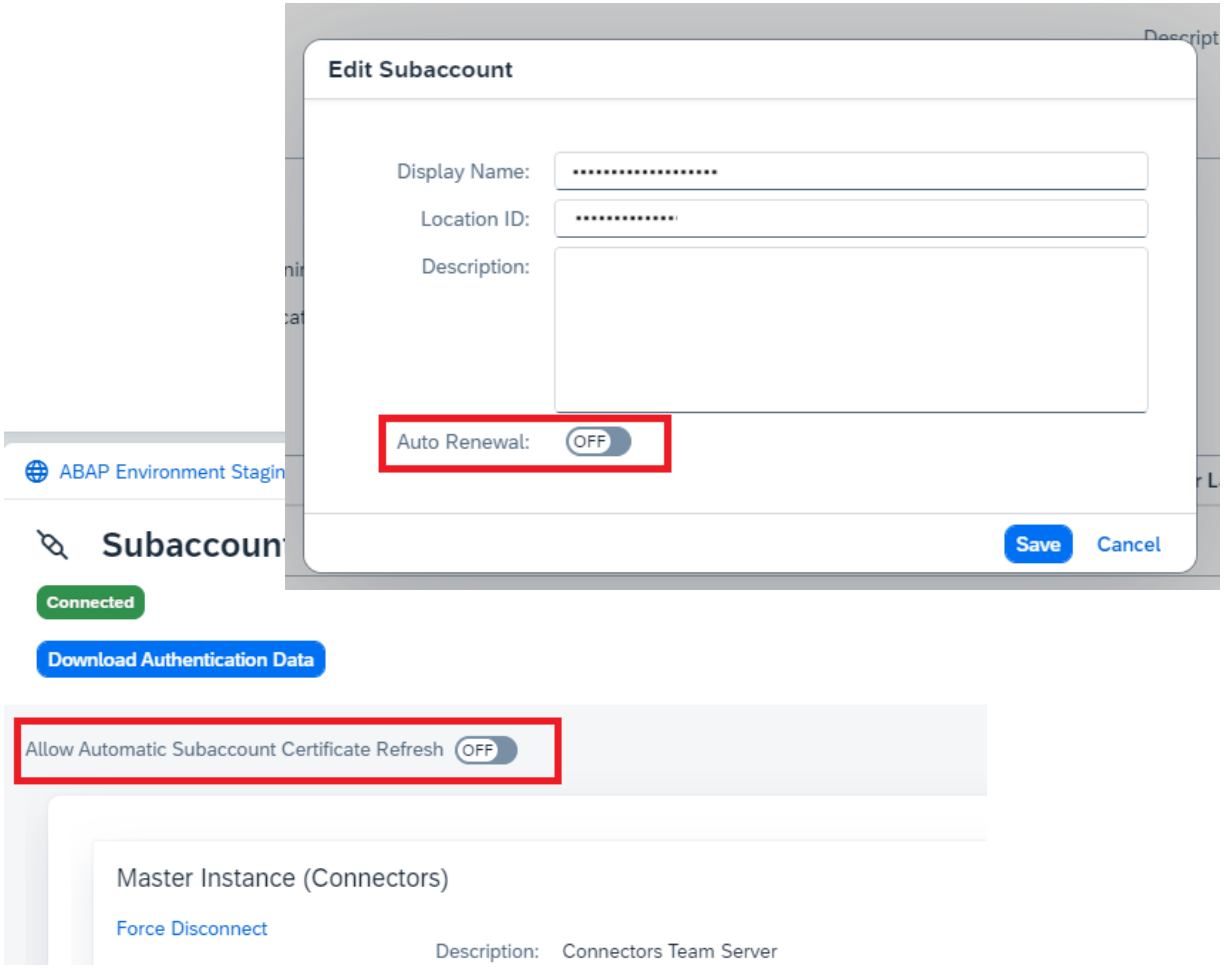
Cloud Connector News – V2.18 is available

- Support of Windows Server 2025
- Certificate renewal
- Morning Horizon Theme is default
- JDK Trust store can by bypassed
- Troubleshooting section
- …

Find more: [Cloud Connector 2.18 blog]



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Thank you.

Contact information:

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