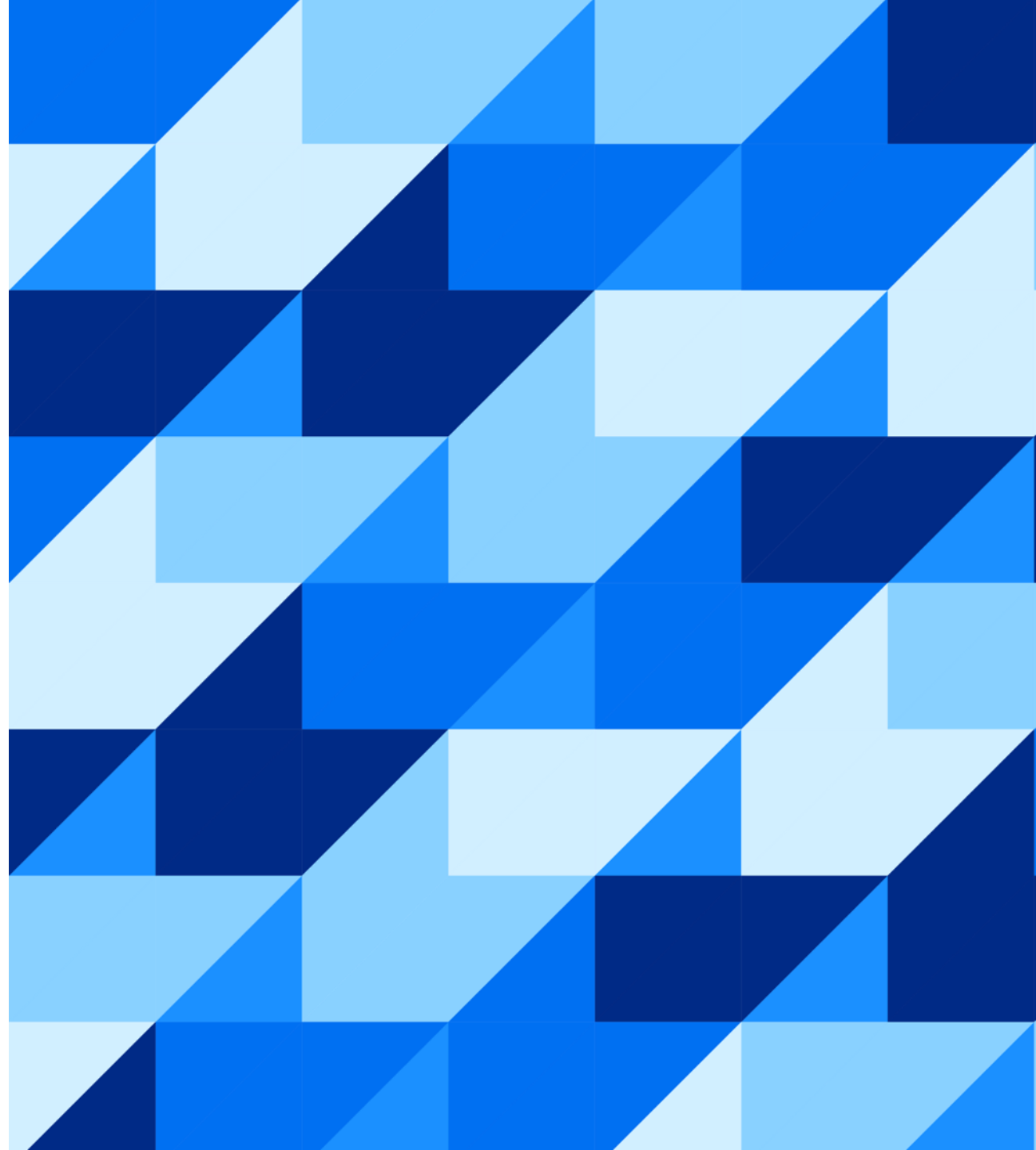




SAP Integration Suite Monthly Updates – July 2024

Product Management Team, SAP Integration Suite
Month 07, 2024

PUBLIC



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Introduction to Enterprise Automation with SAP

PUBLIC

The promise of automation



Speed up processes



Reduce errors



Free up time

But traditional automation had challenges...



Focus on automating individual tasks



Fragmented and incomplete automation

Emphasis on individual tasks, missing the full business process scope



Bot proliferation

Many narrow bots create complexity and increase management overhead

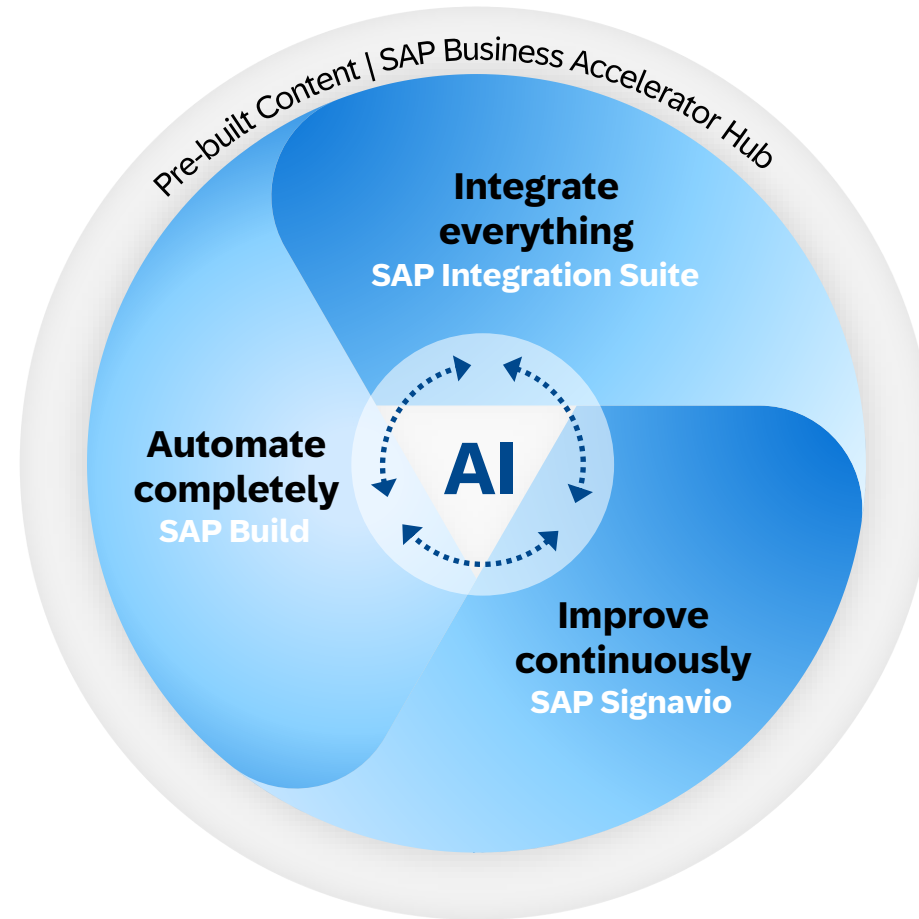


Brittle and expensive

UX-first automation breaks when underlying processes change

Enterprise Automation with SAP

Future proof your journey to become an intelligent and automated enterprise



⊕ Uncover insights from all processes

⊕ Automate processes with ease

⊕ Integrate SAP and non-SAP applications



Demo

Improving the new-hire experience



Enterprise Automation with SAP – Example Use Cases

HXM

Enable advanced onboarding experience and shared service automation



Sustainability

Optimize waste-management with intelligent processes



Finance

Automate invoice auditing process and ensure compliance



Finance

Streamline approval-based Journal Entry Posting in SAP S/4HANA



Finance

Digitize paper-based invoice processing and posting to SAP S/4HANA



Utilities

Optimize electricity meter readings & ensure master data quality



Procurement

Enrich & identify missing master data for Purchase Order processing



Sales

Streamline sales orders credit limits & creation based on the process findings

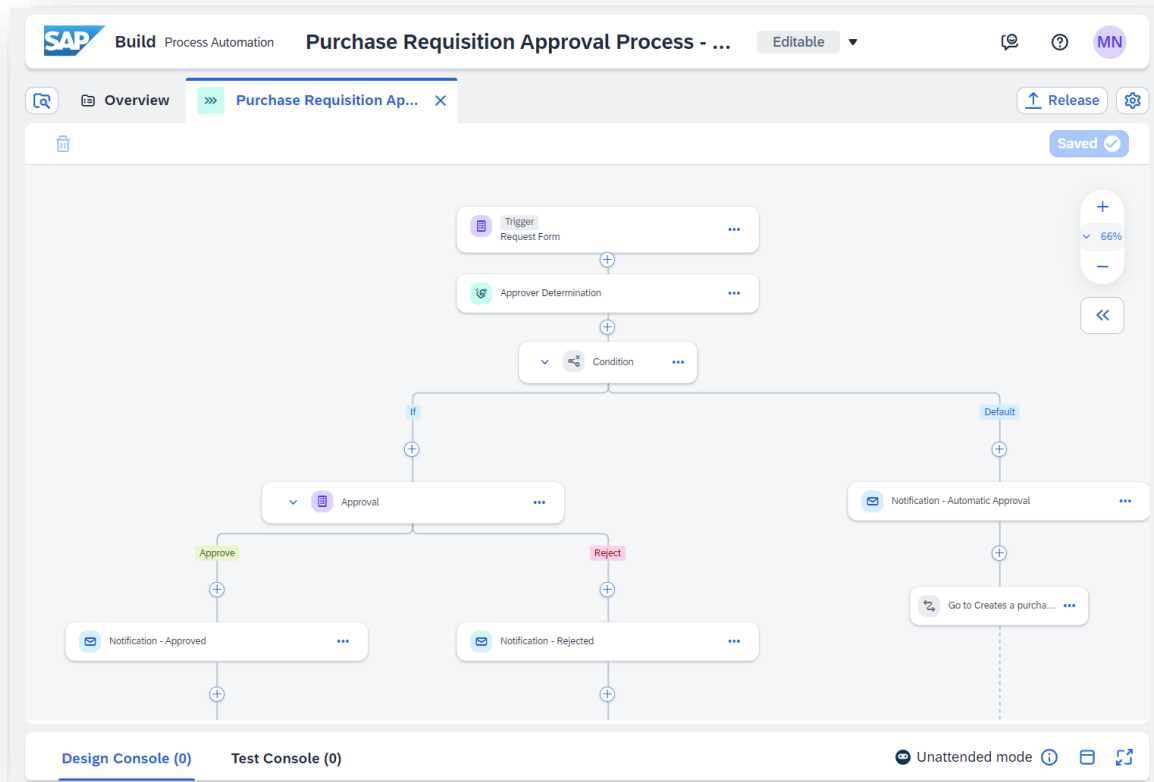




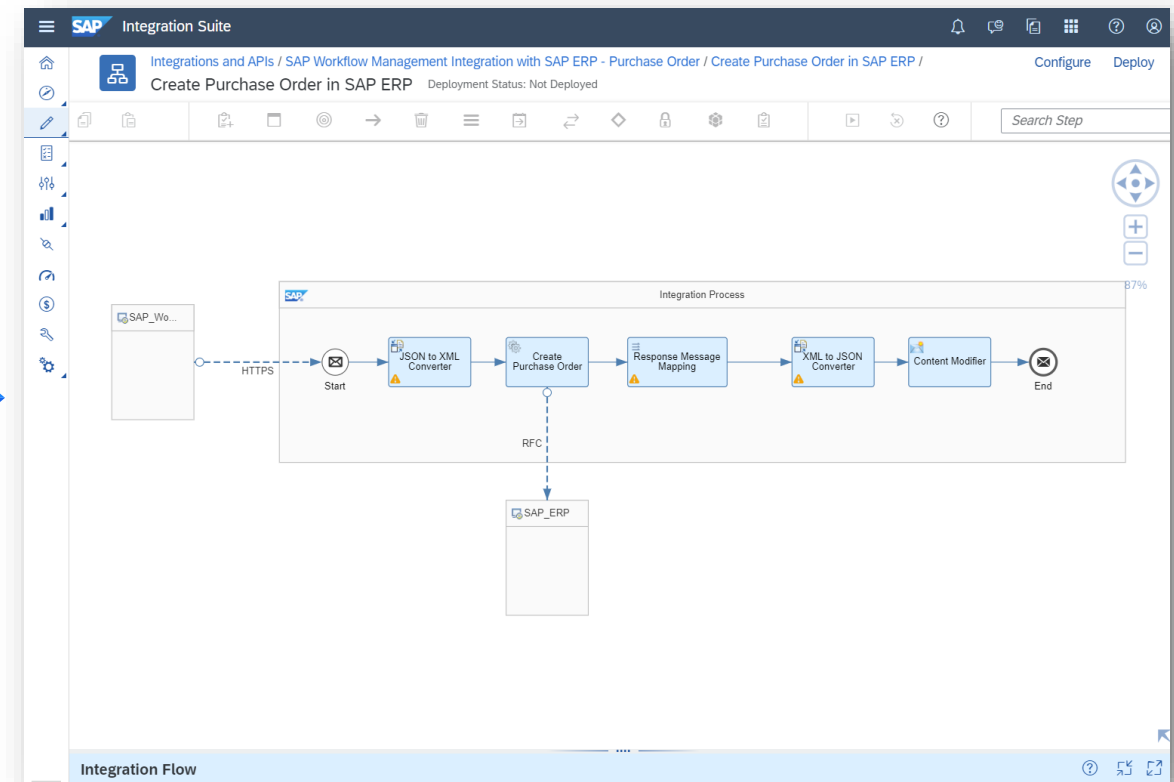
SAP Integration Suite SAP Build Touchpoints

Holistic integration

Combine your automations with a cloud-based integration platform to integrate your processes to any type of backend application with pre-built connectors and adapters



SAP Build Process Automation



SAP Integration Suite

Event-driven architectures

Trigger processes fully automatically with business events. Listen and subscribe to anything that happens inside your system of records to proactively trigger an automation

The screenshot displays the SAP Event Mesh interface. The top navigation bar includes the SAP logo and 'SAP Event Mesh'. A left sidebar contains a 'Default Plan' dropdown menu with options: Message Clients (selected), Queues, Resource Allocation, Resource Usage, Test, and Lite Plan. The main content area is titled 'Message Clients' and shows a grid of 15 client cards. Each card includes a name, type (Subscription or Instance), and a computer icon. The clients are: controls-em-controlservice (Subscription), oph-em-business-service (Subscription), bch-enterprise-messaging... (Subscription), IssueAndRemediationManagement... (Subscription), grc-task-service (Subscription), automatedprocedure-s-production (Subscription), manualprocedures-mpprod (Subscription), regulation-em-prod (Subscription), IssueAndRemediationManagement... (Subscription), Messaging (Instance), mykymaem (Instance), mykymaemtest (Instance), and grc-risk-service (Subscription).

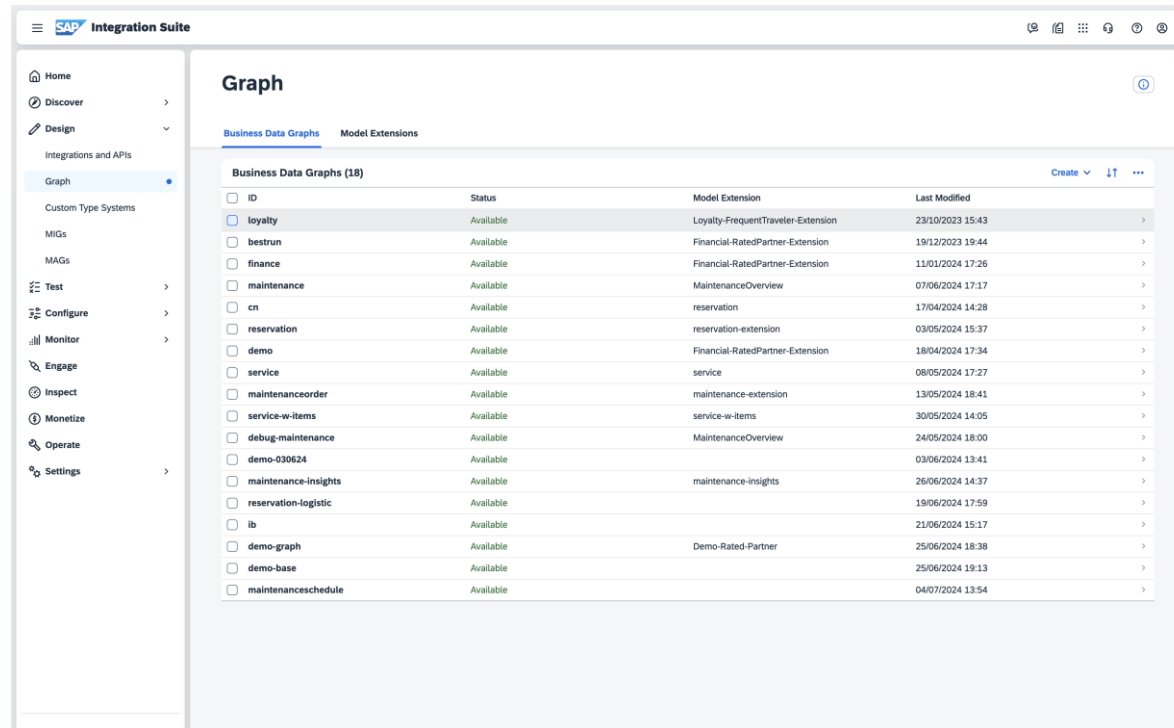
The screenshot shows the SAP Build Process Automation interface for a 'Business Partner Approval Process - Sampl...'. The top navigation bar includes 'SAP Build Process Automation' and the process name. A left sidebar has 'Overview' and 'BusinessPartnerCreation...'. The main area displays a flowchart with steps: 'Trigger createBusinessPartner', 'Enrich Request with Address Data', and 'Approve Business Partner Creation'. The 'Approve' step branches into 'Approve' and 'Reject' paths, leading to 'Business Partner Creation Confirmation' and 'Business Partner Creation Rejection' respectively. The interface includes a 'Design Console (0)' and 'Test Console (0)' at the bottom.

SAP Integration Suite

SAP Build Process Automation

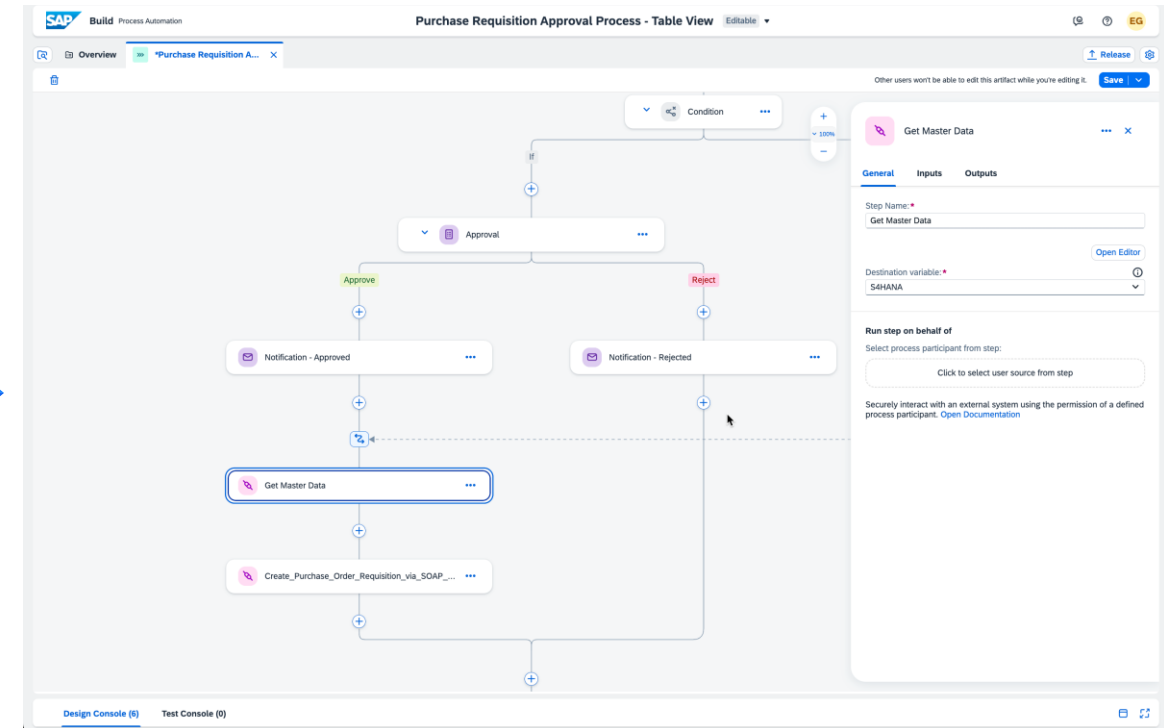
Connectivity at scale

Connect your apps and processes with various data sources using actions. Consolidate the data and re-use it during the process flow or in your application at the runtime.



The screenshot shows the SAP Integration Suite Graph interface. The left sidebar contains navigation options: Home, Discover, Design, Integrations and APIs, Graph (selected), Custom Type Systems, MIGs, MAGs, Test, Configure, Monitor, Engage, Inspect, Monetize, Operate, and Settings. The main area displays a table of Business Data Graphs (18).

ID	Status	Model Extension	Last Modified
loyalty	Available	Loyalty-FrequentTraveler-Extension	23/10/2023 15:43
bestrun	Available	Financial-RatedPartner-Extension	19/12/2023 19:44
finance	Available	Financial-RatedPartner-Extension	11/01/2024 17:26
maintenance	Available	MaintenanceOverview	07/06/2024 17:17
cn	Available	reservation	17/04/2024 14:28
reservation	Available	reservation-extension	03/05/2024 15:37
demo	Available	Financial-RatedPartner-Extension	18/04/2024 17:34
service	Available	service	08/05/2024 17:27
maintenanceorder	Available	maintenance-extension	13/05/2024 18:41
service-w-items	Available	service-w-items	30/05/2024 14:05
debug-maintenance	Available	MaintenanceOverview	24/05/2024 18:00
demo-030624	Available		03/06/2024 13:41
maintenance-insights	Available	maintenance-insights	26/06/2024 14:37
reservation-logistic	Available		19/06/2024 17:59
ib	Available		21/06/2024 15:17
demo-graph	Available	Demo-Rated-Partner	25/06/2024 18:38
demo-base	Available		25/06/2024 19:13
maintenanceschedule	Available		04/07/2024 13:54



The screenshot shows the SAP Build Process Automation interface for a 'Purchase Requisition Approval Process - Table View'. The process flow starts with a 'Condition' step, which branches into 'Approve' and 'Reject' paths. The 'Approve' path leads to a 'Notification - Approved' step, followed by a 'Get Master Data' step, and then a 'Create_Purchase_Order_Requisition_via_SOAP_...' step. The 'Reject' path leads to a 'Notification - Rejected' step. The 'Get Master Data' step is highlighted with a blue border. The right sidebar shows the configuration for the 'Get Master Data' step, including the step name, destination variable (S4HANA), and options to run the step on behalf of a user source.

SAP Integration Suite

SAP Build Process Automation

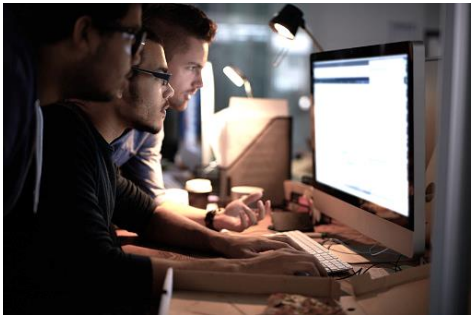
Start Your Enterprise Automation Journey



1

Learn more

- Visit sap.com/enterprise-automation
- Explore pre-built integration and automation content on the [SAP Business Accelerator Hub](#)



2

Get started at no cost

- Speak to your SAP team about the workshops and process assessments available
- Check out your on—stop shop for [partner resources on Enterprise Automation](#)



3

Try a Workshop

- Build a use case with SAP BTP [Free Tier version](#)
- [Activate your SAP Build entitlements](#) or SAP Signavio entitlements included in your RISE for SAP offering



Additional connectivity options for SAP Integration Suite

PUBLIC

NetSuite Adapter for Integration Suite



Authentication

Token Based
Authentication



API Versions

2020_1_0/2020_2_0
2021_1_0/2021_2_0
2022_1_0/2022_2_0
2023_1_0/2023_2_0



Message Protocol

SOAP
REST(in roadmap)



Advanced Features

Functional Error Handling
Custom Object Handling
Eclipse workbench

Receiver Adapter Features

Operations:

- Create
- Delete
- List
- Read
- Update
- Search

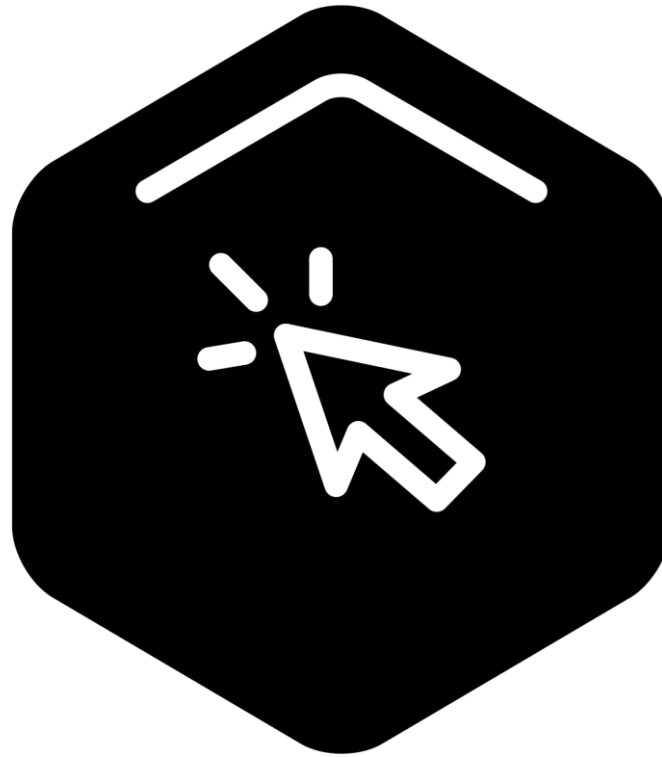
Dynamic headers/property support

Support for custom Request and Response headers

Eclipse Plugin for schema generation

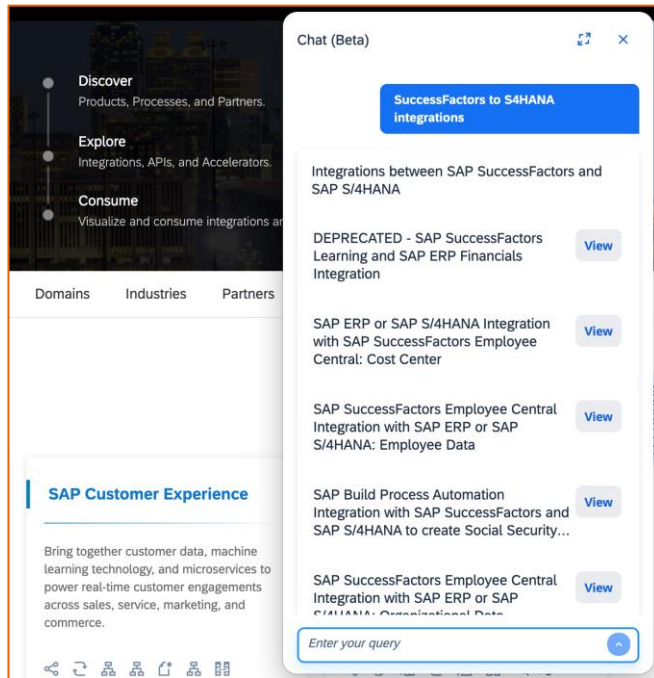
Support for custom objects

Demo

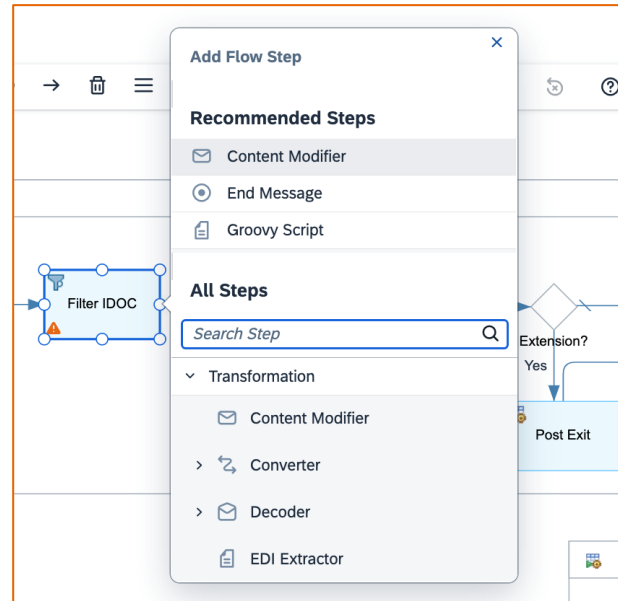


Cloud Integration

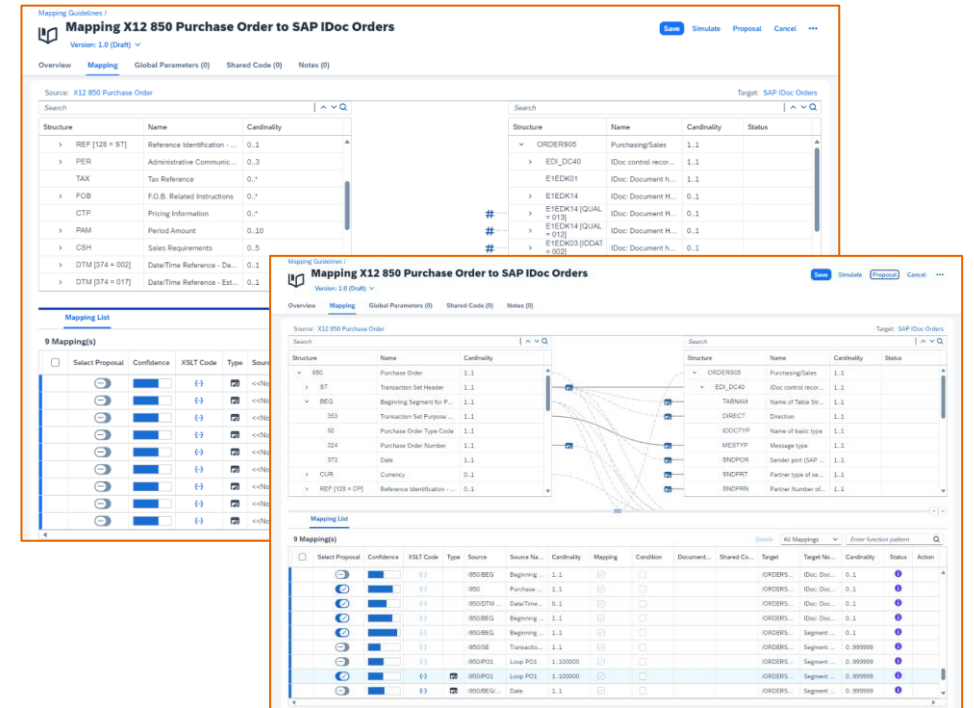
Existing AI & ML Capabilities in SAP Integration Suite



Digital Assistant (beta) in SAP Business Accelerator Hub



Flow step recommendations



Intelligent Assists and Proposal for interfaces and mapping creation

Generation of Integrations

Leverage Gen AI to accelerate developer efficiency

Faster

time to design

Cost Savings

with reduced effort to implement

The screenshot displays the SAP Integration Suite interface for creating an integration flow. The main window shows the 'Replication of Sales Order from SAP S/4HANA to SAP CX' project. A modal dialog titled 'Add Integration Flow' is open, offering two options: 'Generate Integrations with assistance from AI' and 'Add Integrations manually'. The AI option is selected, leading to a 'Generate Integration Flow' window. This window prompts the user to describe the integration scenario, which is filled with 'I would like to replicate sales order from S/4HANA to CX'. Below this, an AI response is shown: 'Thanks! Based on your inputs, I have selected the sender and receiver systems, and a name for the integration flow. Feel free to change them.' The 'Integration Flow Details' section includes a 'Name' field with 'Replication of Sales Order from S/4HANA to SuccessFactors', a 'Sender system' dropdown set to 'Contract Accounting Sales Order Invoice - Read', and a 'Receiver system' dropdown set to 'Invoice VAT-CX cloud'. 'Generate' and 'Cancel' buttons are at the bottom.

[Generative AI](#) | [Creating an Integration Flow](#)



DEMO

Migration Tooling Is Now Pattern-Based

- From a template-based approach, Migration Tooling now moves to a pattern-based migration approach.
- ICOs need not necessarily match a specific template to be ready for migration.
- If the ICO is similar to one of the supported patterns, then you can achieve migration. This way, now you can cover more ICOs via the migration tooling.

See: [Migration Patterns](#), [Supported Patterns](#), [Migrate Integrated Configuration Objects](#)

Create new message type and data type artifacts

You can now create new message type and data type artifacts from your cloud integration tenant.

See: [Creating Data Types and Message Types](#)

Other updates

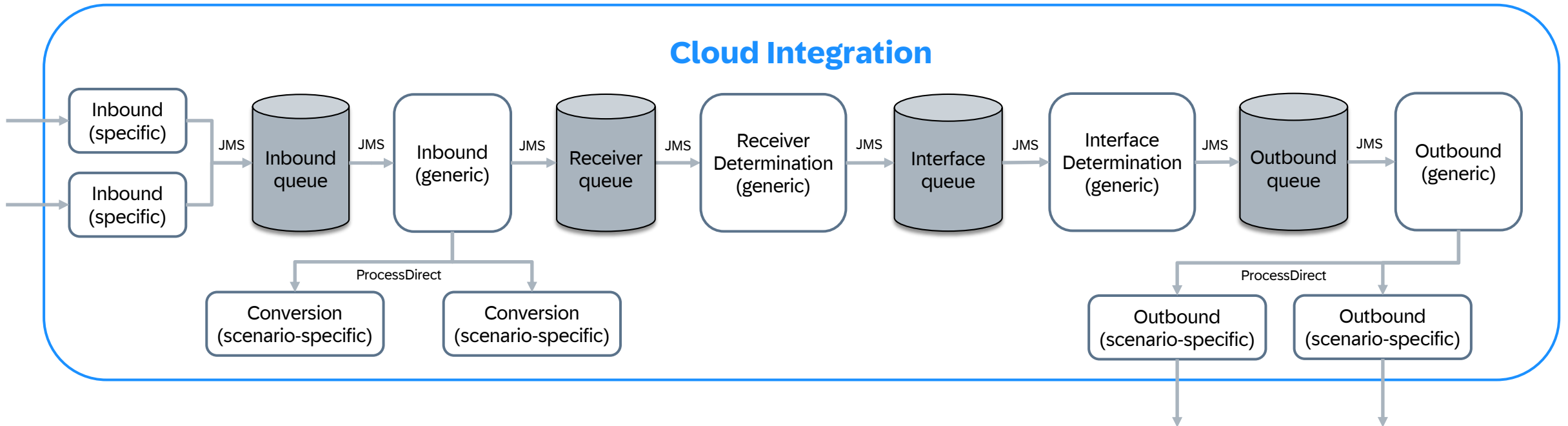
- You can now skip the non-compliant design guideline by providing a reason and consent.
See: [Design Guidelines View](#)
- Search is enabled for Message Flows (Adapters) in the integration flow editor.
See: [Overview of Integration Flow Editor](#)
- A new **Size** column is introduced in the **References** tab of the property sheet to display the file size of local resources that you upload to an integration flow.
See: [Manage Resources](#)
- You can now migrate ICOs that contain references to Message Type and Data Type objects using the migration tooling.
See: [Migrate Integrated Configuration Objects](#).
- For XML to EDI convertor, you can now choose the decimal character of the converted message.
See [Define XML to EDI Converter](#)

Other updates

- You can now generate a unique interchange number while generating an acknowledgement number from EDI Splitter.
See [EDI Splitter](#) (SAP Cloud Integration customers choose: [EDI Splitter](#))
- The Message Digest step supports now the following additional canonicalization methods: XML Canonicalization Version 1.1 and XML Canonicalization with Comments Version 1.1.
See: [Define Message Digest](#) (SAP Cloud Integration customers choose: [Define Message Digest](#))

Pipeline concept for Cloud Integration

Recap: Pipeline Concept for Cloud Integration



The pipeline concept in a nutshell:

- Could handle all async scenarios with just 4 JMS queues
- Consists of generic and scenario-specific integration flows
- Dynamic configuration to process messages individually using Partner Directory

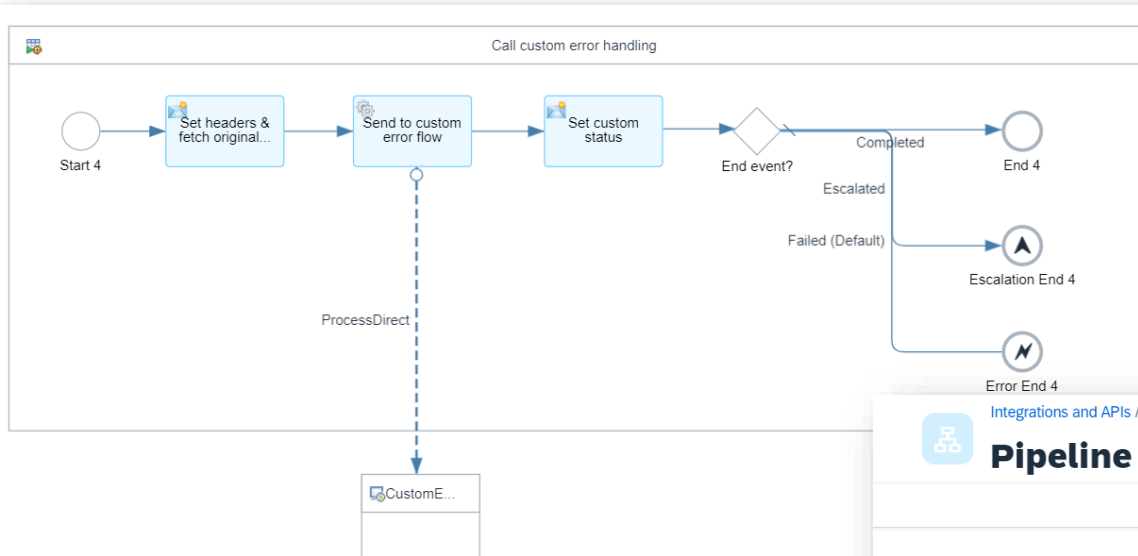


Latest version 1.0.5 of Process Integration Pipeline concept

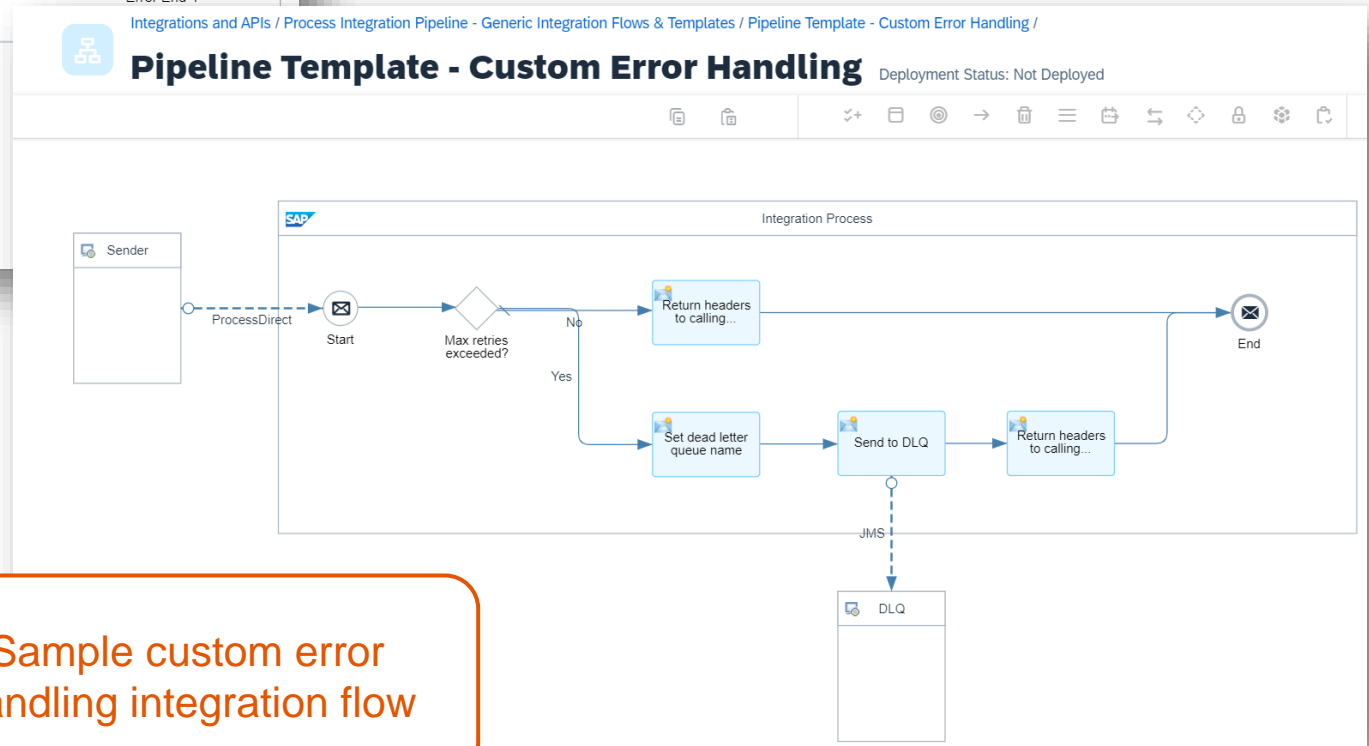
New features at a glance

- Extension for **custom error handling**
- In generic IDoc inbound processing flow, **display list of IDoc numbers** in case of IDoc bulk messages
- For IDoc inbound, **sender interface** is calculated as a combination of MESTYP, IDOCTYP, and CIMTYP
- Supporting test mode via **testMode** header in the allowed headers configuration
- In standard error handling, copied messages from the **dead letter queue** are switched to **DEBUG log level**

Extension for custom error handling



Call custom error handling via ProcessDirect



Sample custom error handling integration flow

Display list of IDoc numbers in case of IDoc bulk messages

The screenshot displays the SAP Integration Suite interface for monitoring message processing. The left sidebar shows navigation options like Home, Discover, Design, Test, Configure, Monitor, Analyze, Engage, Inspect, Monetize, and Settings. The main area is titled 'Overview / Monitor Message Processing' and includes a filter bar with options for Time (Past Hour), Status (All), Artifact (Pipeline Generic Step01 - Inbound Processing for Idoc), and ID (Message, Correlation or Application Mess...). Below the filter bar, there are fields for Sender, Receiver, Custom Status, Application Message Type, and Custom Header (Name = Value). A table of messages is shown, with two entries for 'Pipeline Generic Step01 - Inbound Processing for Idoc' at Jul 25, 2024, 17:45:42 and 17:45:39, both with a status of 'Completed'. The right panel shows the 'Properties' section for the selected artifact, including Message ID, Correlation ID, Sender, Application Message ID, and Application Message Type. A red box highlights the 'Custom Headers (2)' table, which lists two headers: 'idoc' with values '0000000000000006' and '0000000000000007'.

Artifact Name	Status
Pipeline Generic Step01 - Inbound Processing for Idoc	Completed
Jul 25, 2024, 17:45:42	154 ms
Pipeline Generic Step01 - Inbound Processing for Idoc	Completed
Jul 25, 2024, 17:45:39	105 ms

Name	Value
idoc	0000000000000006
	0000000000000007

Outlook: What's coming next?

- Github repository with **sample integration packages** and guideline how to setup the pipeline concept
- **Revised partner id** approach due to lengths restrictions of the partner id
- Option to use **alternative partner** in case of sender wildcard scenarios and to overcome partner id restrictions
- Changed **default max retry** to 5 instead of unlimited retry
- For messages in **test mode**, failed messages are not put into retry
- For generic integration flows, adapter parameters were **externalized**
- Option to configure **message end event type** in case of message stored in dead letter queue, default is Escalated
- Option to **bypass receiver determination** and interface determination steps in case of **Point-to-Point pattern**
- Option to configure a **pipeline JMS queue prefix** which makes configuration of queue names easier if you create another set of generic integration flows

Camel upgrade prerequisites for Custom and OEM Adapters

Notification in your Cloud Integration tenant

The screenshot displays the SAP Integration Suite user interface. At the top, the SAP logo and 'Integration Suite' text are visible. A notification bell icon in the top right corner is highlighted with a white triangle. A notification pop-up window is open, titled 'Notifications (1)'. The notification content is as follows:

Notifications (1)

Apache Camel Upgrade

Apache Camel 3.14 runtime will soon replace the existing 2.24 version. Validate your custom integration adapters in the new runtime before your production tenants are updated. To know more, see [SAP Note 3326553](#)

The main interface behind the notification shows a blue banner with the text 'Welcome to SAP Integration Suite' and 'Simplify and accelerate enterprise integration'. Below this is a 'Recent' section with the text 'View recently accessed artifacts.' and a list of artifacts.

Getting ready for the Apache Camel upgrade

Use the latest version of the SAP Integration Suite OEM adapters offered by Rojo Integrations.

Adapter Name	Technical Name	Download Zip File Name	Latest Version
Amazon Web Services	AmazonWebServices	CPISADPTAWS	1.1.0
Salesforce	Salesforce	CPISADPTSFO	1.0.18
Microsoft Dynamics CRM	MicrosoftDynamicsCRM	CPISADPTMSD	1.0.6
SugarCRM	SugarCRM	CPISADPTSGR	1.0.3

The adapters are Camel 2.x-compatible.

Camel 3.x-compatible adapter versions are available for the **latest adapter version** on SAP for Me.

To do: Check your adapter version and migrate to the latest adapter version first.

Custom and OEM Adapter Upgrade in SAP Cloud Integration and SAP Integration Suite

- Goto Settings >> Camel 3.14 Upgrade
- Upload your customer adapters
- Allows automatic porting of OEM adapters
You can also download the OEM adapters from *SAP for Me* and then upload them

The screenshot displays the SAP Integration Suite interface for the 'Camel 3.14 Upgrade' page. The navigation bar includes 'Runtime Profiles', 'Transport', 'System', 'Custom Tags', 'Malware Scanner', and 'Camel 3.14 Upgrade' (highlighted with a red box). The main content area is titled 'Upload Custom Adapter' and contains the following text: 'Apache Camel 3.14 runtime will be available soon, replacing the existing 2.24 version. You can request a test tenant to validate and upload the adapted custom integration adapters before the software is updated with the new runtime version. Learn more about [Custom Integration Adapter](#).' Below this, there is a section for uploading adapters, with the instruction: 'Upload the custom integration adapters, which are compatible with Apache Camel 3.14 runtime.' The 'Adapters (0)' section features an 'Upload' button (highlighted with a red box) and a table with columns: 'Adapter Name', 'Version', 'Description', and 'Actions'. The table currently shows 'No adapter uploaded'. At the bottom, there is a checkbox labeled 'Enable porting of your existing OEM adapters to Apache Camel 3.14 runtime.' (highlighted with a red box). The left sidebar contains various navigation icons, with the settings gear icon (highlighted with a red box) corresponding to the 'Camel 3.14 Upgrade' page.

Last step and where to find more information

After the Apache Camel upgrade, the Apache Camel 2.x-compatible adapter is still part of the design time.

To do: Delete the Apache-Camel 2.x-compatible version from the **design time** and upload the Apache Camel 3.x-compatible version.

Further Information:

[Apache Camel Upgrade documentation for Neo](#)

[Apache Camel Upgrade documentation for CF](#)

[3326553 - Apache Camel Runtime 3.14.7 Upgrade - SAP for Me](#)

The following adapters must also be on the latest version for the Camel upgrade:



Adapter	Latest Version
ServiceNow	1.0.4
Workday	1.1.0
Dropbox	1.0.6
Slack	1.0.2
Splunk	1.0.4
Azure	1.0.4
Microsoft SharePoint	1.0.2
Rabbit MQ	1.0.7

Thank you.

Contact information:

Name
Email



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