

SAP Cloud Platform Integration Suite

Monthly Updates – January 2020

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Agenda



- SAP Cloud Platform Integration
- SAP Cloud Platform Integration Advisor
- Q&A



SAP Cloud Platform Integration Suite

A modular iPaaS to connect the Intelligent Enterprise



Seamlessly integrate anything, anywhere (A2A/B2B) in real time.



Expose your data and processes as APIs. Manage E2E life cycle.



Accelerate implementation and maintenance of B2B scenarios using machine learning.



Jump start integration projects with APIs, packaged integration content and adapters.



Deliver data-driven innovation, unifying enterprise AI and intelligent information management.



Accelerate connectivity to 3rd party applications.



Securely access remote services that run on-premise.



Decouple communication and send messages & events.

What's New!! - SAP Cloud Platform Integration Suite

- What's New Initiative -
 - Newsletter: [First Monday](#)
 - Webinar: [Last Tuesday](#)
- One time subscription - no need to register for individual webinars
- Consolidated **Landing page** for all the Suite services – monthly aggregation
- Links to blogs, upcoming events, important news, updates, recordings, etc. for all Suite services in one newsletter



August Newsletter - What's New!!

Upcoming Webinar

Aug 29: [SAP Cloud Platform Integration Suite – Monthly Update](#)



Connectivity Tests

Perform connectivity test against the Cloud Connector or test connection via the Cloud Connector to the backend.

[Learn how](#)



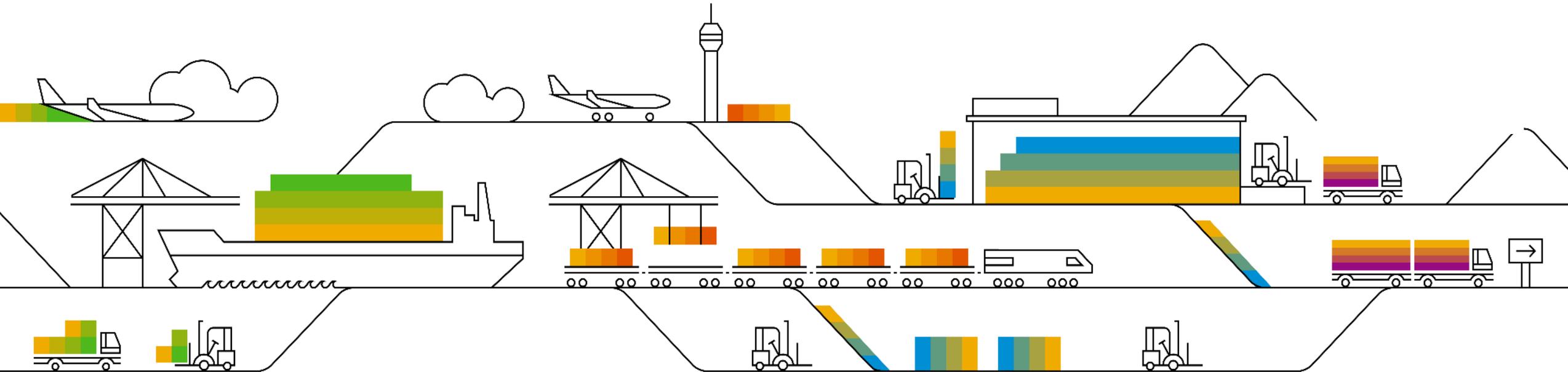
Self-service enablement

Enable Cloud Integration service on consumption-based commercial model for SAP Cloud Platform via self-service.

[Learn more](#)

Subscribe Now!!

SAP Cloud Platform Integration



Agenda



- Recent Enhancements
 - SuccessFactors & OData Adapter
 - Mapping
 - Externalization
 - AMQP Adapter
 - News and Announcements
- Integration Flow Design Guidelines



SAP Cloud Platform Integration

SuccessFactors & OData Adapter Enhancements

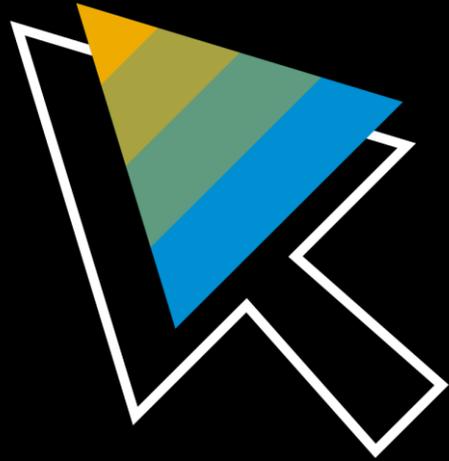
- SuccessFactors SOAP Adapter : Enhanced the adapter to support *StartRow* API property.
 - This now helps, especially in the pagination scenarios, to fetch the next page of record even in case of the session timeout.
- OData V2 outbound adapter
 - Support for GET operation in \$batch
 - Support for content-encoding formats
 - <https://help.sap.com/viewer/368c481cd6954bdfa5d0435479fd4eaf/Cloud/en-US/c5c2e38e0c87472e996dfda04920bfc4.html>

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Mapping Enhancements

- Export Mapping as spreadsheet
- <https://help.sap.com/viewer/368c481cd6954bd5a5d0435479fd4eaf/Cloud/en-US/3d5cb7ff43fb4a4b9c28153472f6d0f1.html>
- Copy & paste of mapping expression
- <https://help.sap.com/viewer/368c481cd6954bd5a5d0435479fd4eaf/Cloud/en-US/3d5cb7ff43fb4a4b9c28153472f6d0f1.html>
- Copying message mapping from other integration flows

Demo



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AMQP Adapter

AMQP Sender and Receiver adapter now supports connectivity to on-premise messaging systems using the SAP Cloud Connector

AMQP

General **Connection** Processing

CONNECTION DETAILS

*Host:

*Port:

Proxy Type:

Location ID:

Connect with TLS

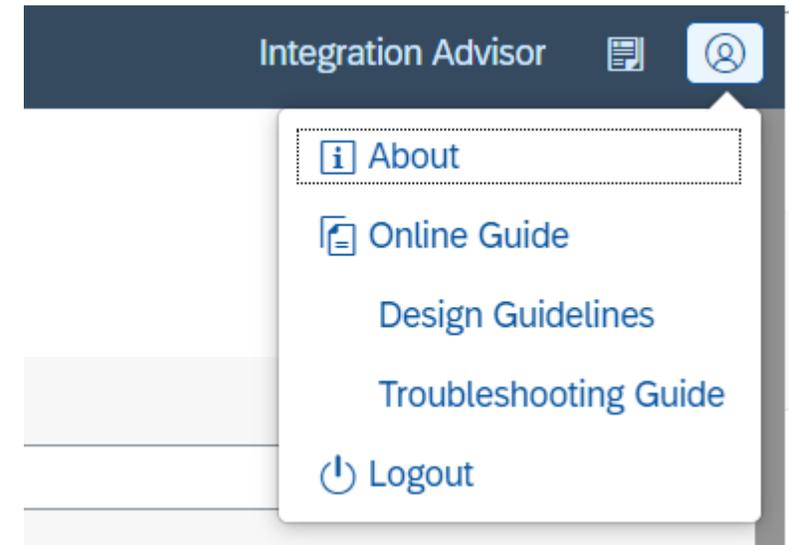
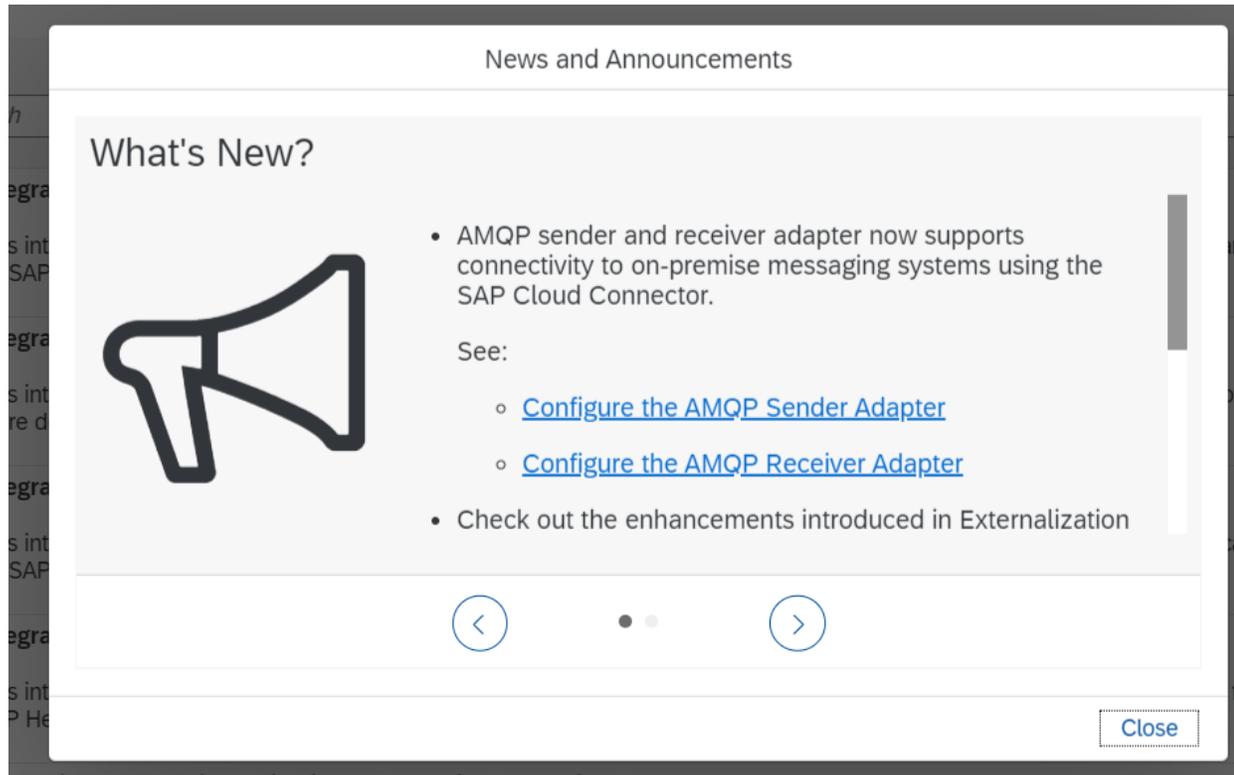
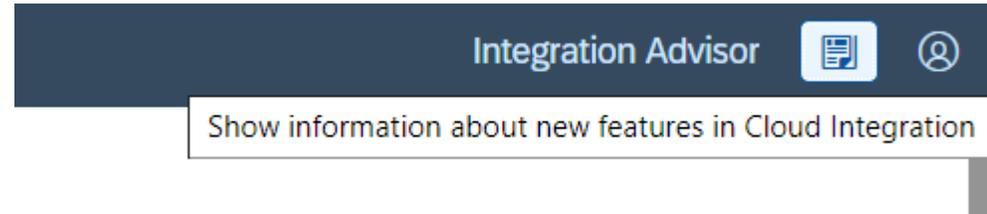
Authentication:

*Credential Name:

<https://blogs.sap.com/2020/01/17/cloud-integration-how-to-connect-to-an-on-premise-amqp-server-via-cloud-connector/>

SAP Cloud Platform Integration

Quick Access to News and Announcements, Design Guidelines & Troubleshooting Guide



SAP Cloud Platform Integration

Externalization Enhancements

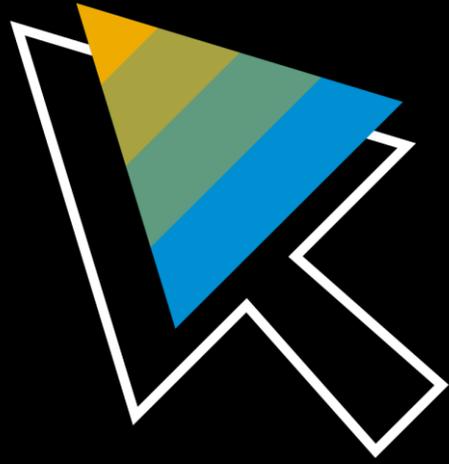
Externalization feature enables an integration developer to define parameter for configurations of adapters or flow steps in an integration flow, whose values can be provided at a later point in time, without editing the integration flow.

Enhancements:

1. Separation of responsibility of the Integration Flow Web Editor and Configuration View
 - **Default Value** - *The value of a parameter defined in the integration flow editor*
 - **Configure Value** – *The value configured from the configuration view*
2. Externalized Parameters View shows both Default & Configured values of parameter for comparison and quality assurance
3. Download Integration Flows with Default Values or Merged Configured and Default Values

<https://blogs.sap.com/2020/01/21/enrichments-of-externalization-feature-in-sap-cloud-platform-integration/>

Demo



SAP Cloud Platform Integration

Integration Flow Design Guidelines

SAP Help Portal SAP Cloud Platform Integration

SAP Cloud Platform Integration Cloud Production

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Guidelines to Implement Specific Integration Patterns

Send feedback

Cloud Integration supports the implementation of enterprise integration patterns that are also referred to as *integration patterns* or *messaging patterns*.

One example of an enterprise integration pattern is the content-based router. As an example, assume that a sender is connected to multiple receiver systems. The business process requires that a message from the sender is forwarded to a particular receiver system depending on the content of the message (for example, a customer ID). The content-based router makes such forwarding possible.

Another example is the splitter, which defines that a single message is split into multiple partial messages that can be processed individually.

This section provides simple example integration flows to show how to implement enterprise integration patterns.

You find the integration flows in the following integration package published on SAP API Business Hub:

Integration Flow Design Guidelines - Enterprise Integration Patterns

More information on enterprise integration patterns: <https://www.enterpriseintegrationpatterns.com/patterns/messaging/toc.html>

Related Information

Aggregator

Table of Contents

- Integration Flow Design Guidelines
 - How to Work with the Example Integration Flows
 - Guidelines to Design
 - Enterprise-Grade Integration Flows
 - Guidelines to Implement Specific Integration Patterns**
 - Aggregator
 - Composed Message Processor
 - Content-Based Routing
 - Content Enricher
 - Content Filter
 - Message Filter
 - Recipient List
 - Scatter-Gather

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Integration Flow Design Guidelines

 **SAP Help Portal** SAP Cloud Platform Integration 🔍 👤

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Guidelines to Design Enterprise-Grade Integration Flows

[Send feedback](#)

As an integration developer, you need to make sure that you design integration flows in a robust fashion in order to safeguard your company's mission-critical business processes.

An integration flow is *enterprise grade* when it's designed in such a way that it's qualified to implement parts of the mission-critical processes of an enterprise. A poorly designed integration flow can lead to certain errors. In the worst case, the integration flow breaks resulting in a service disruption for the business process. It is your responsibility to design an integration flow in such a way that the overall availability of the business process isn't impaired. To fulfill this requirement, you need to embrace certain characteristics constituting an enterprise-grade integration flow.

In this section, we introduce guidelines for designing enterprise-grade integration flows in SAP Cloud Platform Integration.

There are the following **qualities of an enterprise-grade integration flow**.

High Availability

One of the key qualities of a cloud service is high availability. As such, it's essential that you build robust integration flows that never break the business process. A prerequisite is that you consider certain patterns when modeling the integration flow. These patterns can be assigned to different qualities constituting an enterprise-grade integration flow.

Table of Contents   

- Integration Flow Design Guidelines
 - How to Work with the Example Integration Flows
 - Guidelines to Design Enterprise-Grade Integration Flows**
 - Run an Integration Flow Under Well-Defined Boundary Conditions
 - Relax Dependencies to External Components
 - Keep Readability in Mind
 - Handle Errors Gracefully
 - Use Prepackaged Integration Content Provided by SAP
 - Apply Highest Security Standards
 - Guidelines to Implement Specific Integration Patterns








SAP Cloud Platform Integration

Integration Flow Design Guidelines

SAP API Business Hub

Discover and consume digital content packages with APIs, pre-packaged integrations, and sample apps from SAP and select partners

"design guidelines"



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Integration Flow Design Guidelines - Keep Readability in Mind

Integration Package

This integration package contains integration flows to illustrate the design [guidelines](#) for preserving



Integration Flow Design Guidelines - Handle Errors Gracefully

Integration Package

This integration package contains integration flows to illustrate the design [guidelines](#) for handling



Integration Flow Design Guidelines - Enterprise Integration Patterns

Integration Package

This integration package contains integration flows to illustrate the design of the most common Enterprise Integration Patterns



Integration Flow Design Guidelines - Relax Dependencies to External Components

Integration Package

This integration package contains integration flows to illustrate the design [guidelines](#) for relaxing



Integration Flow Design Guidelines - Apply Highest Security Standards

Integration Package

This integration package contains integration flows to illustrate the design [guidelines](#) for applying



Integration Flow Design Guidelines - Run an Integration Flow Under Well-Defined Boundary Conditions

Integration Package

This integration package contains integration flows to illustrate the design [guidelines](#) for managing

SAP Cloud Platform Integration

Integration Flow Design Guidelines

The screenshot displays the Postman application interface. On the left, the 'Collections' tab is active, showing a tree view of API collections. The selected collection is 'ApplyHighestSecurityStandards', which contains a sub-collection 'ApplySecurity_RemoveSensitiveContent' with a 'RemoveSensitiveContent' request highlighted. The main panel on the right shows the details of this request, including the URL, method (GET), and tabs for Params, Authorization, Headers, Body, Pre-request Script, Tests, and Settings. The 'Query Params' table is currently empty.

Postman

File Edit View Help

New Import Runner

My Workspace Invite

Filter

History Collections APIs BETA

+ New Collection Trash

ApplyHighestSecurityStandards ★
6 requests

- ApplySecurity_DisabledDTDs
HEAD DisabledDTDs_GetXsrfToken
POST DisabledDTDs
- ApplySecurity_RemoveSensitiveContent
GET RemoveSensitiveContent
- EncodeDynamicParameters
HEAD EncodeDynamicParameters_GetXsrfToken
POST EncodeDynamicParameters_OffensiveHeader
POST EncodeDynamicParameters_CorrectHeader

SecureIfflows ★
5 requests

RemoveSensitiveContent

GET https://{{host}}/http/ApplySecurity/RemoveSensitiveContent

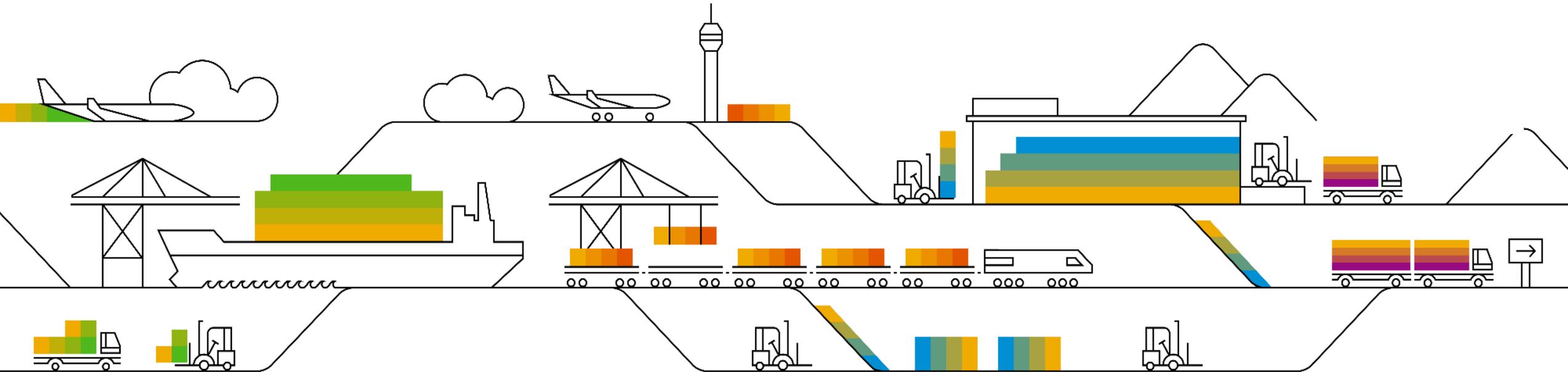
Params Authorization Headers (3) Body Pre-request Script Tests ● Settings

KEY	VALUE
Key	Value

Response



SAP Cloud Platform Integration Advisor



Agenda



- Shared functions
- Comparison of message implementation guidelines
- Exchange of guideline versions in mappings
- Global codelists



SAP Cloud Platform Integration Advisor shared functions

- Mapping functions are often used in the same way
- Increases reuse
- Reuse inside the MAG later inside the tenant

The screenshot displays the SAP Cloud Platform Integration Advisor interface. The main window shows a mapping configuration for 'Mapping INT383-Exercise 1 Source MIG to INT383-Exercise1-00'. The 'Shared Code (1)' tab is selected, and a yellow circle highlights the 'Shared Code' radio button in the 'Scope' section. The 'ConcatWithComma' dropdown menu is also highlighted. Below the scope selection, the 'Shared XSLT Code' is displayed in a text area.

Source: INT383-Exercise 1 Source MIG Target: INT383-Exercise1-00

Structure	Name	Cardinality	Status
> DTM[2005 = 17]	Date/time/period - Delivery ...	1..999999	
> IMD	Item description	0..999	
> FTX	Free text	0..99	
√ SG2	Segment Group 2: NAD-LO...	0..99	
> NAD	Name and address	1..1	
3035	Party function code qualifier	1..1	
√ C058	Name and address	0..1	
3124	Name and address description	1..1	
> UNS	Section control	1..1	
> UNT	Message trailer	1..1	

Definition

Scope:

Local Code Shared Code

Shared XSLT Code

```
<xsl:variable name="name" select="$nodes_in/nodes_in_1[1]"/>
<xsl:variable name="address" select="$nodes_in/nodes_in_2[1]"/>
<xsl:value-of select="($name, $address)" separator=","/>
```

Confidential Function Content

SAP Cloud Platform Integration Advisor

MIG comparison

- Compare MIGs to identify similarities and differences
- Can compare 2 to n MIGs
- Can compare different versions of the same MIG but also different MIGs

The screenshot shows the SAP Cloud Platform Integration Advisor interface. The main window is titled 'Compare' and displays two artifacts for comparison:

- Artifact A:** Automotive Purchase Order Interface, Version: 2.0 (Draft), Message: ORDERS (D.01B S3)
- Artifact B:** Automotive Purchase Order Interface, Version: 1.0 (Active), Message: ORDERS (D.01B S3)

The comparison results are shown in a table with columns for 'Nodes', 'A', and 'B'. The table is filtered to show 'Nodes with Different Values'.

Nodes	A	B
ORDERS	✓	✓
UNH	✓	✓
S010	✓	✗
0070	✓	✗
0073	✓	✗ Not Present

SAP Cloud Platform Integration Advisor exchange MIG version in MAG

- As MIGs can exist in different versions it is now possible to exchange the used version in the MAG

The screenshot displays the SAP Cloud Platform Integration Advisor interface. The main window shows a Mapping IA configuration for 'Mapping IA Webinar Source IDOC to Automotive Purchase Order Interface' (Version: 1.0). The 'Source and Target MIGs' section shows the current source as 'MIG: IA Webinar Source IDOC' (Version: 1.0 Draft) and the target as 'MIG: Automotive Purchase Order Interface' (Version: 2.0 Draft). A modal window titled 'Other MIG Versions' is open, showing a table of available versions for the target MIG.

Version	Status	Modified On	Modified By	Name
1.0	Active	13 Nov. 2018 07:18	I331104	Automotive Purchase Order Interface

The modal window also includes a 'Change Version' button at the bottom right. The background interface includes a 'General Information' section with fields for Name, Version, and Status, and a 'Documentation' section with a text editor.

SAP Cloud Platform Integration Advisor

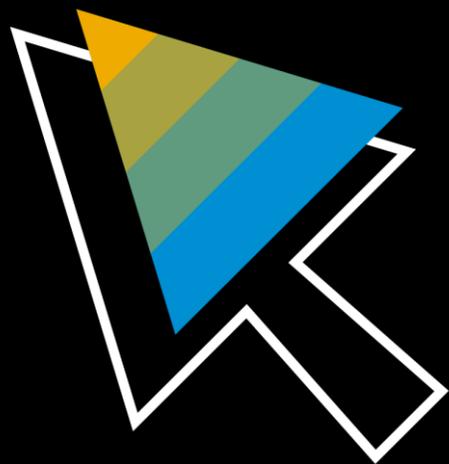
global code value mapping

- Code value mappings are often used in the same way
- Increases reuse
- Makes changes to a value mapping easier

The screenshot displays the SAP Cloud Platform Integration Advisor interface. The main window shows a mapping configuration for 'Mapping IA Webinar Source IDOC to Webinar Automotive PO EDIFACT'. The source is 'IA Webinar Source IDOC' and the target is 'Webinar Automotive PO EDIFACT'. A dialog box titled 'Select a Global Code Value Mapping' is open, showing a list of available mappings. The selected mapping is 'Value Mapping from ISO_CodelistsAndSchemes/ISO_3166-1 to ISO_CodelistsAndSchemes/ISO_3166-1'. Below the dialog, a table shows the mapping details for the selected mapping.

Source Code Value	Definition	Target Code Value
AD - Andorra		AD - Andorra
AE - United Arab Emirates		AE - United Arab Emirates
AF - Afghanistan		AF - Afghanistan
AG - Antigua and Barbuda		none
AI - Anguilla		none
AL - Albania		none
AM - Armenia		none

Demo



Q&A

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