

SAP Integration Suite

Monthly Updates – July 2023

Product Management Team & Guests, SAP Integration Suite

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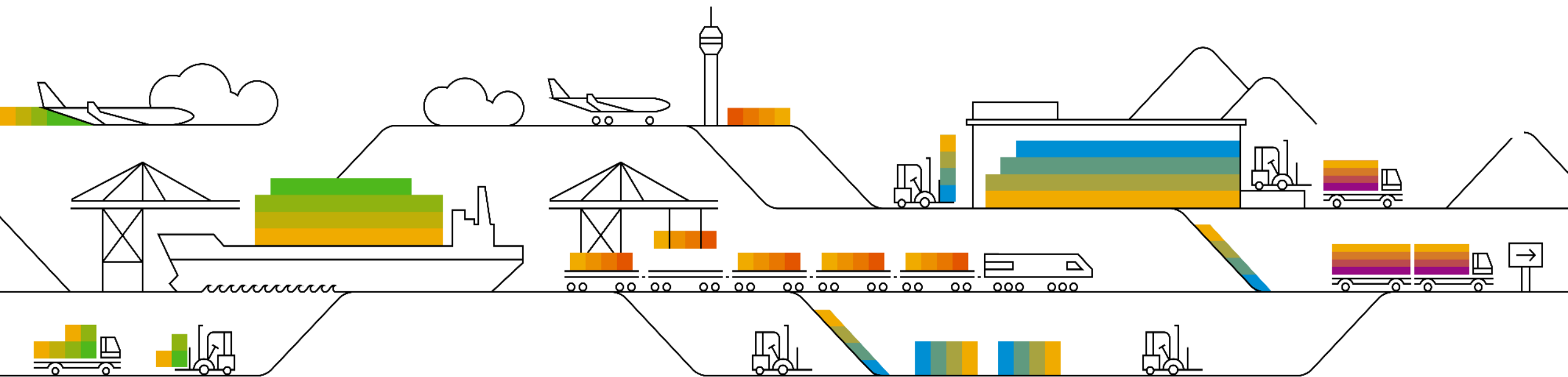
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Agenda

- Upgrade to new version of third- party connectors
- Cloud Integration
- Graph in API Management
- B2B
- Integration Assessment



Integration Suite



Action required: Move previous non-SAP adapters to new adapter versions

As per [SAP note 3001980](#) the following previous adapter versions are deprecated since December 31st, 2020:

- Salesforce, Amazon Web Services, Microsoft Dynamics, SugarCRM

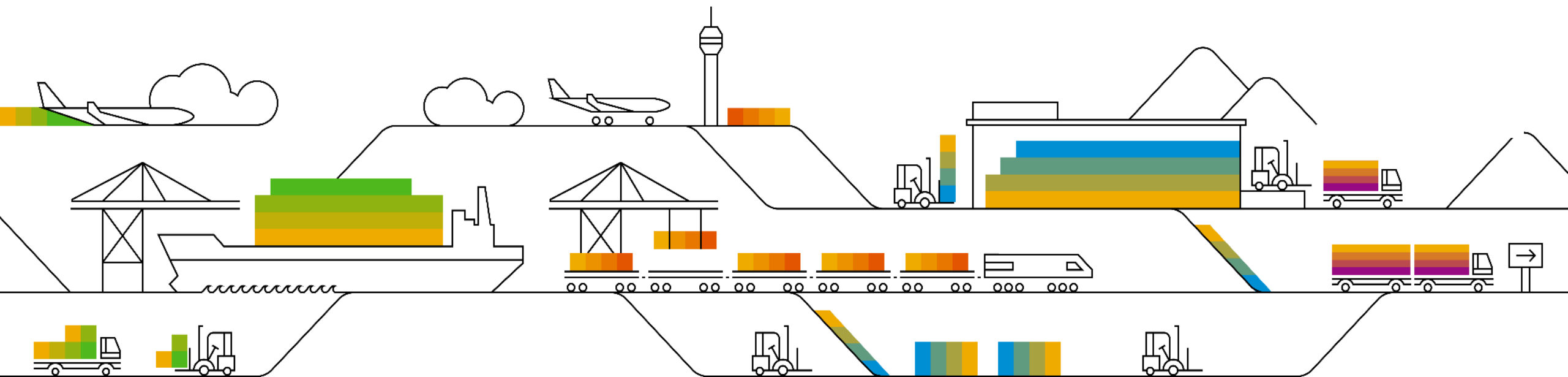
There haven't been any new features or enhancements for these previous adapter versions.

As of January 1st, 2024, the previous adapter versions will no longer run.

Action required

- Option 1: Migrate to updated new adapter versions and benefit from multiple new features
 - Migration support documented in [SAP Work Zone](#), e. g. [Salesforce adapter](#), [Amazon Web Services adapter](#)
 - Request access to [SAP Work Zone](#) at Annemarie Kiefer (annemarie.kiefer@sap.com)
 - SAP offers tips and tricks
 - Rojo Consultancy as the adapter expert offers consultancy services. Fees apply.
 - For further question and support, open a ticket on the “LOD-HCI-PI-CON-TPRO” component, subject: “Help with upgrading to the OEM adapters”
- Option 2: Purchase new Advantco adapter versions from Advantco with support from Advantco only
- For both options: Delete integration flows using the adapters that are no longer in use and undeploy adapters

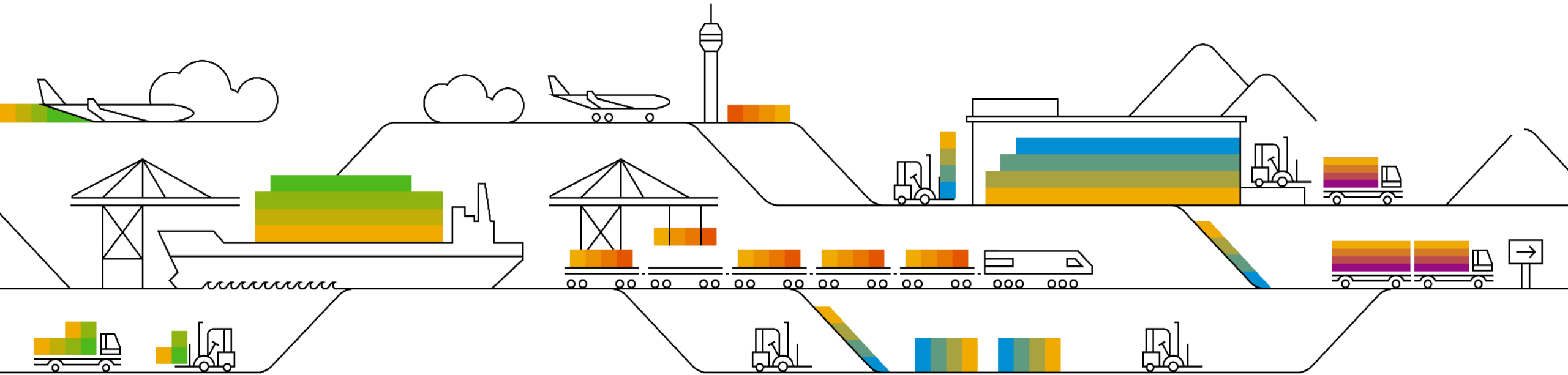
Cloud Integration



Import Function Libraries, Message and Data Types

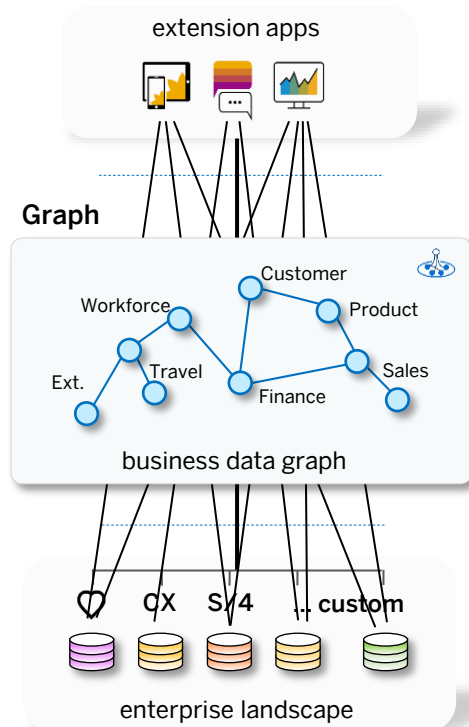
- Import SAP PI/PO **Function Libraries**, **Message Types** and **Data Types** from ES Repository
See: [Working with Function Libraries](#)
[Working with Data Types & Message Types](#)
- **Reference** these artifacts in **Message Mapping**
- Consider current Limitations ,
See: [Import Function Library from ES Repository](#)
- Available in SAP Integration Suite, standard plan and above

API Management incl. Graph



Graph: one connection to your business data

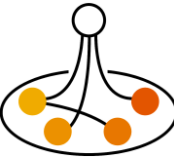
Graph introduces a **new, unified SAP API** to access all business data as a single, semantically connected, **Business Data Graph**



Developers use a single, powerful and connected API to the business data they need, as a **data graph**

Enterprise IT establishes and controls a secure interface to the business data they want to share with developers...

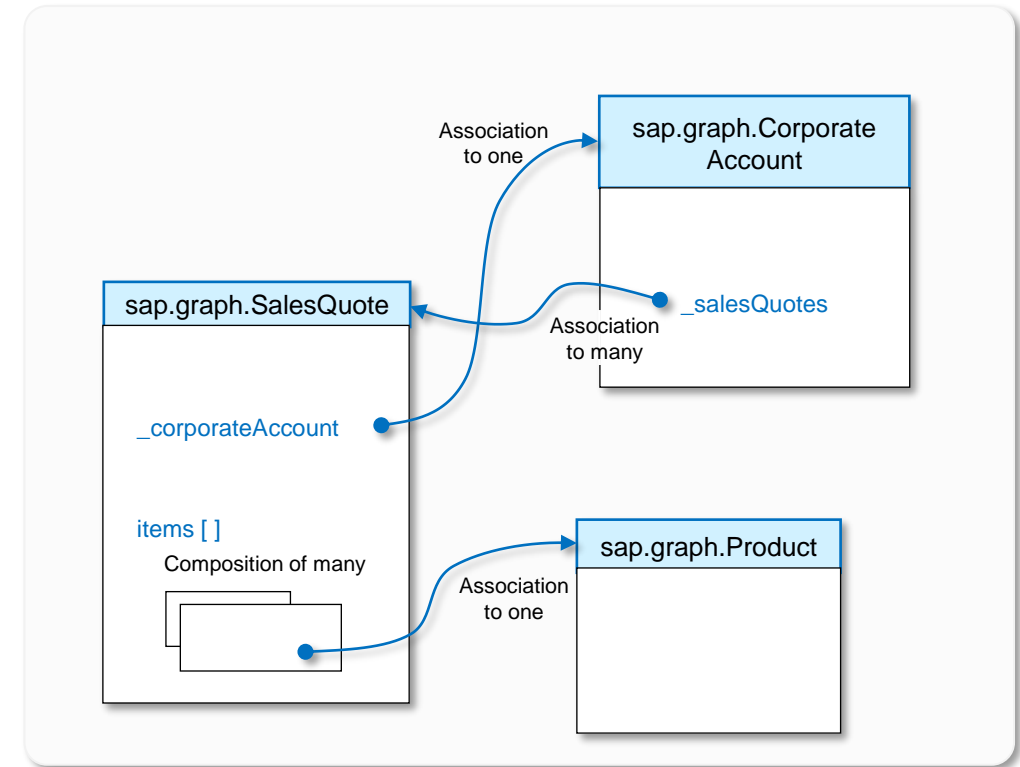
... by easily creating business data graphs



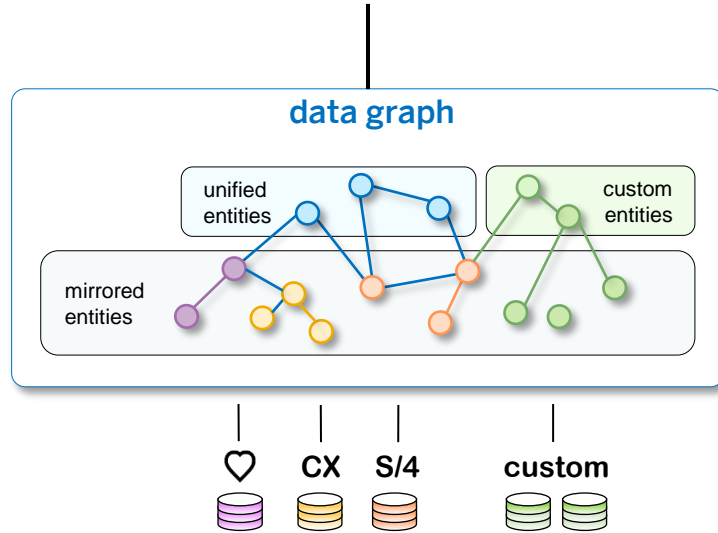
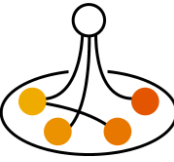
What is a data graph?

- A data graph represents **entities** (data objects) as *nodes* of a graph
 - Entities are grouped in **namespaces**
 - The fields of an entity are called **attributes**
- **Edges** represent semantic relations
 - between independent nodes: an **association**
 - between a root-node and its sub-nodes: a **composition**

data graphs support queries that explore the *data as well as the relationships*



Configuration: overview



- You configure your data sources

1

- The data objects are discovered: a business data graph is constructed out of *mirrored entities*
 - one-to-one, grouped into namespaces

2

- Supported SAP entities are enriched with thousands of semantic connections
- Simplified, and abstracted *unified entities*, connecting models across systems, are added

- You can introduce your own *custom entities*

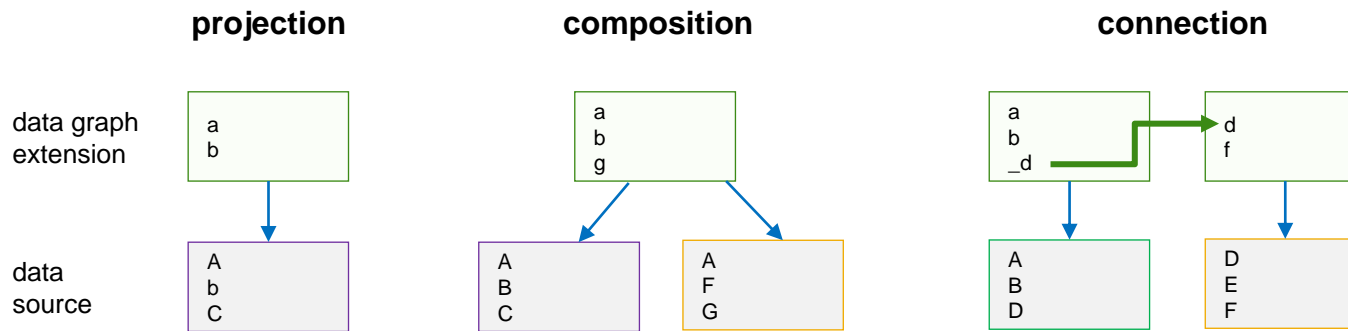
3

- You control the *policy* of how data is exposed

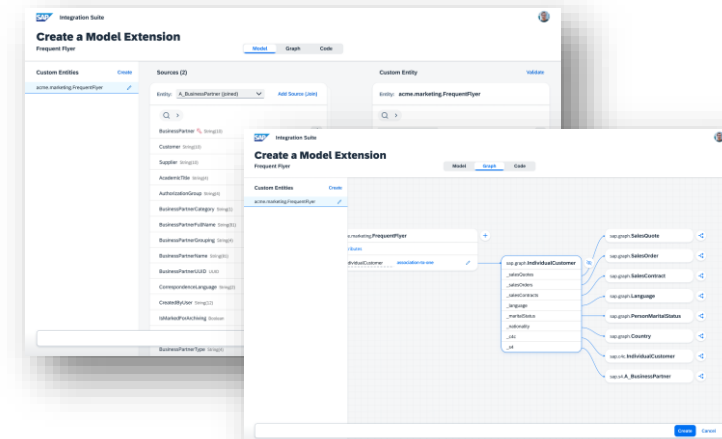
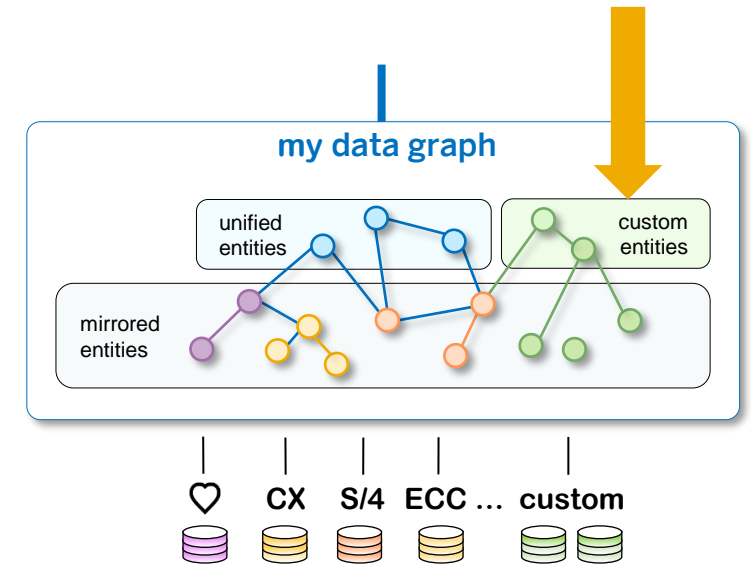
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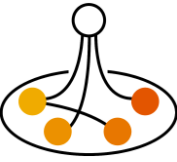
What are custom model extensions?

- Projection – creates a “view” to hide underlying APIs, rename, reduce attributes, etc.
- Composition – creates a “merged” entity, which can include attributes from source entities
- Connection – creates an association between entities



Custom model extensions allow you to compose your own data graph!





DEMO

Entities

Quote

68/2230 Entities [Show Code Lists](#)

sap.graph

SalesQuote

sap.hcm

sap.s4

sap.c4c

Other

Sales Quote

SalesQuoteCollection

sap.graph/
SalesQuote

Create Read Update Delete

Schema Try Out

← Back Reset

/sap.graph/SalesQuote/c4c-257\$select=id,quoteType&\$expand=items(\$select=itemCategory;\$expand=_product(\$select=name))

Run

Download Postman Collection

Response: sap.graph.SalesQuote 200 OK

/sap.graph/SalesQuote/c4c-257\$select=id,quoteType&\$expand=items(\$select=itemCategory;\$expand=_product(\$select=name))

```
{
  "@odata.context": "$metadata#SalesQuote(id,quoteType,items(_product(name),itemCategory))/$entity",
  "@odata.etag": "W/\\\"datetimeoffset'2018-01-31T11:3A39%3A40.3622180Z\\\"\"",
  "id": "c4c-257",
  "quoteType": "AG",
  "items": [
    {
      "itemCategory": "AGN",
      "_product": {
        "id": "c4c-P300104",
        "name": "Green Future Microprocessor"
      }
    },
    {
      "itemCategory": "AGN",
      "_product": {
        "id": "c4c-P300103",
        "name": "ZOMEI F678 55-Inch Flexible Tripod Set"
      }
    }
  ]
}
```

Navigate

[_orderReason →](#)

[sap.graph/SalesDocumentReason](#)

[_distributionChannel →](#)

[sap.graph/DistributionChannel](#)

[_division → sap.graph/Division](#)

[_documentCurrency → sap.graph/Currency](#)

[_netAmountCurrency → sap.graph/Currency](#)

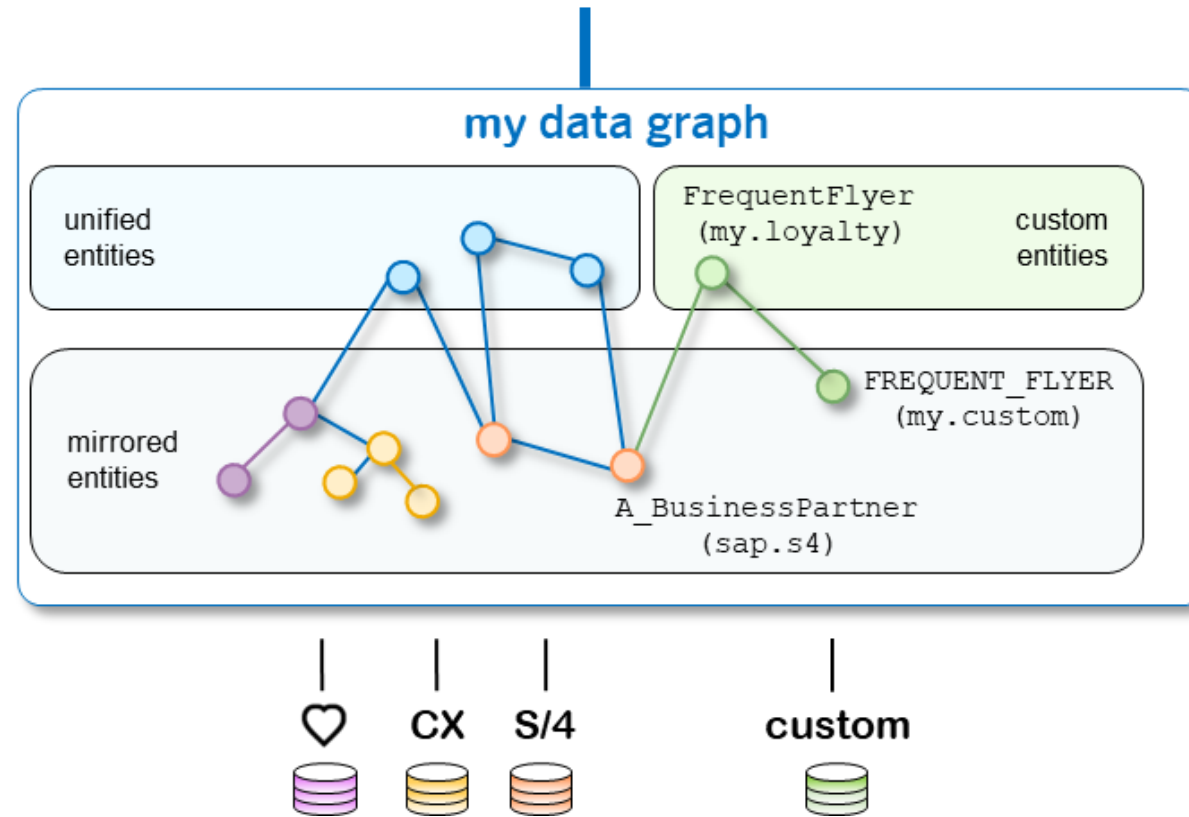
[_incotermsClassification →](#)

[sap.graph/IncotermsClassification](#)

[_c4c → sap.c4c/SalesQuoteCollection](#)

[Expand](#)

Frequent flyer extension



```

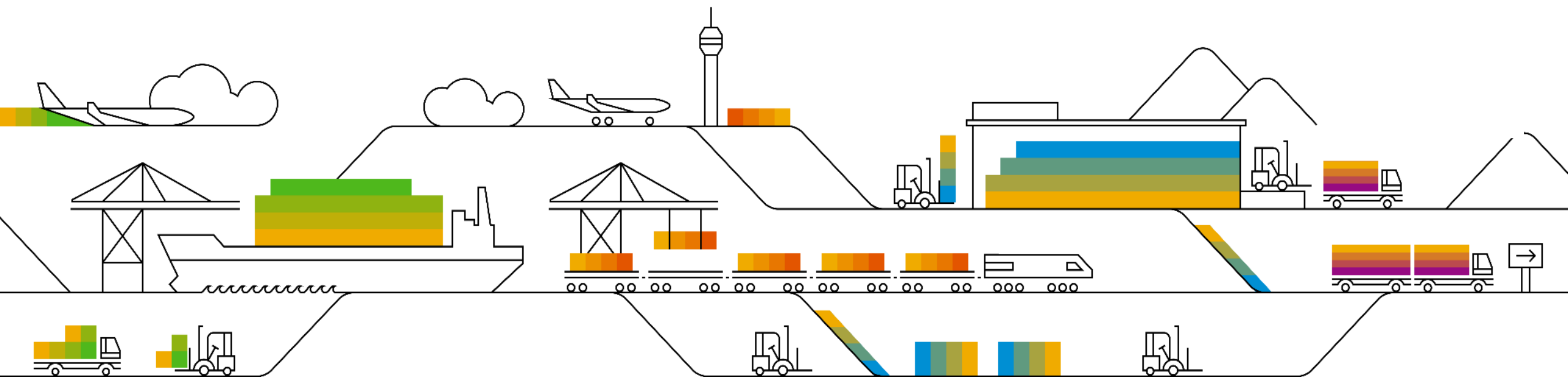
{
  "version": "1.0.0",
  "entity": "my.loyalty.FrequentFlyer",
  "label": "Frequent Flyer",

  "sourceEntities": [
    { "name": "my.custom.FREQUENT_FLYER" },
    { "name": "sap.s4.A_BusinessPartner", "join": [ "BusinessPartner", "BusinessPartner" ] }
  ],
  "dicts": { "loyaltyProgramStatus": { "FTL": "Frequent Traveler", "GOLD": "Gold", "SEN": "Senator", "HON": "HON Circle" } },

  "attributes": [
    { "name": "id", "source": [ "BusinessPartner" ], "key": true },
    { "name": "memberId", "source": [ "BusinessPartner" ] },
    { "name": "name", "source": [ "BusinessPartnerFullName" ], "sourceEntity": "sap.s4.A_BusinessPartner", "type": "String" },
    { "name": "language", "source": [ "Language" ], "sourceEntity": "sap.s4.A_BusinessPartner" },
    { "name": "isActive", "transform": "negation", "source": [ "IsMarkedForArchiving" ], "sourceEntity": "sap.s4.A_BusinessPartner", "annotations": { "readonly": true } },
    { "name": "addresses[]", "source": [ "to_BusinessPartnerAddress[]" ], "sourceEntity": "sap.s4.A_BusinessPartner" },
    { "name": "addresses[].addressId", "source": [ "to_BusinessPartnerAddress[].AddressID" ], "sourceEntity": "sap.s4.A_BusinessPartner", "key": true },
    { "name": "addresses[].addressLines[]", "transform": "arrayFill", "source": [
      "to_BusinessPartnerAddress[].StreetPrefixName",
      "to_BusinessPartnerAddress[].AdditionalStreetPrefixName",
      "to_BusinessPartnerAddress[].StreetName",
      "to_BusinessPartnerAddress[].StreetSuffixName",
      "to_BusinessPartnerAddress[].AdditionalStreetSuffixName"
    ],
      "sourceEntity": "sap.s4.A_BusinessPartner", "type": "String"
    },
    {
      "name": "addresses[].postalCode",
      "source": [
        "to_BusinessPartnerAddress[].PostalCode"
      ],
      "sourceEntity": "sap.s4.A_BusinessPartner"
    }
  ]
}

```

B2B



Type System News: SAP S/4HANA Cloud SOAP 2302

The screenshot displays the SAP Integration Advisor interface. The top navigation bar includes the SAP logo and the text 'Integration Advisor'. The left sidebar shows a 'Library of Type Systems' with a search icon and a list of type systems. The main content area is titled 'SAP S/4HANA Cloud SOAP' and shows the 'Versions (2)' tab selected. The versions listed are '1905 - Release 1905' and '2302 - Release 2302'. The '2302 - Release 2302' version is highlighted. The right pane shows the details for the '2302 - Release 2302' version, including the 'General Information' section with fields for Type System, Version, Revision, Externally Published On, and Syntax Type. The 'Documentation' section contains a definition of the version. The 'Administrative Data' section shows the creation and modification details.

Integration Advisor

Library of Type Systems / **SAP S/4HANA** SAP S/4HANA Cloud SOAP

Overview Versions (2) Messages (322)

Versions (2)

- 1905 – Release 1905
- 2302 – Release 2302**

Integration Advisor

Library of Type Systems / SAP S/4HANA Cloud SOAP / **SAP S/4HANA** SAP S/4HANA Cloud SOAP – Release 2302
Version: 2302

Overview Messages (301) Complex Types (0) Simple Types (0) Codelists (0)

General Information

Type System: SAP S/4HANA Cloud SOAP
Version: 2302
Revision: 1
Externally Published On: 15 Jun 2023
Syntax Type: XML

Documentation

Definition: The content of this version contains SOA messages from S/4 HANA Cloud Release 2302.4.

Administrative Data

Created By: SYSTEM Modified By: SYSTEM
Created On: 17 Jul 2023 02:00 Modified On: 17 Jul 2023 02:00

<https://blogs.sap.com/2023/07/25/integration-advisor-new-version-2302-for-s-4hana-cloud-soap-messages/>

Error handling: updates in the monitoring

Interchange 6e498792395141b2a3aed15d93b6ecbf

Status:

Failed

Processing Status:

Failed

Interchange Creation Date Time:

July 25, 2023 at 2:05:57 PM GMTZ



Error Information

General ▾

Events

Error Category

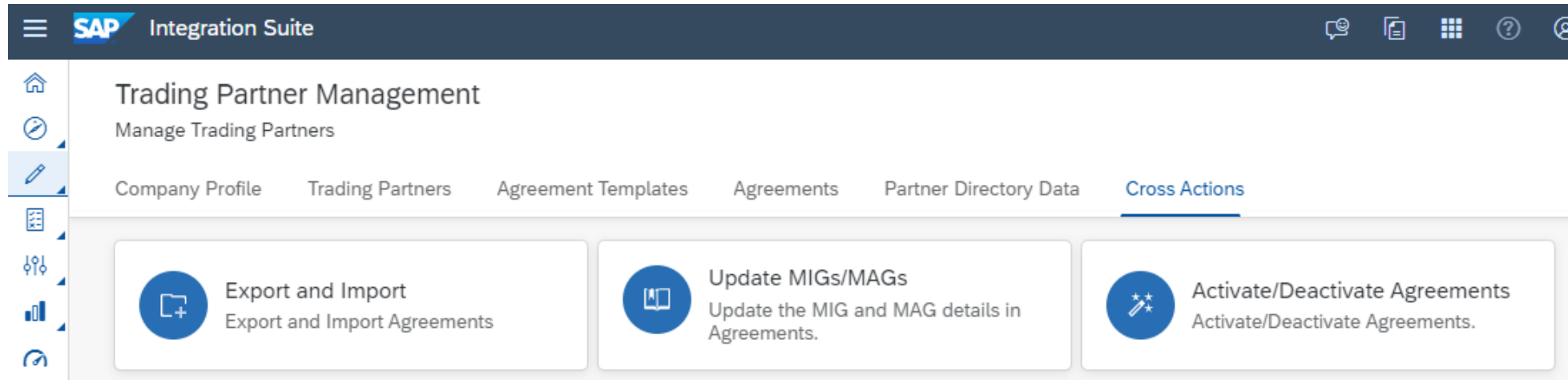
Error Message

Agreement Configuration Access Failed

Partner Directory lookup failed. [Details](#)

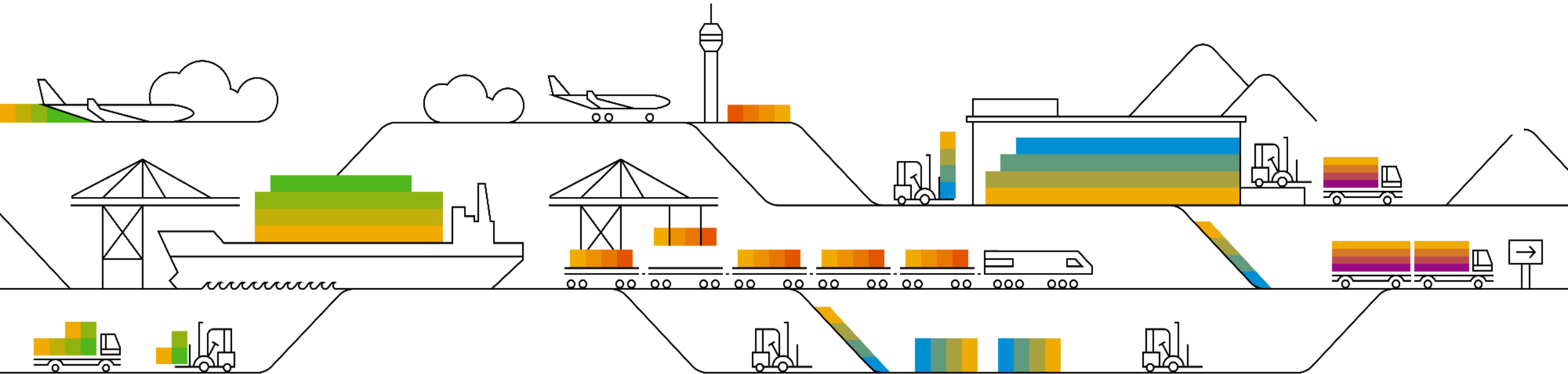
[Check Agreements](#)

Lifecycle Management: Cross Actions



- Export and Import of TPM Entities
- Mass updates of MIG and/or MAGs in Trading Partner Agreements
- Mass activation/deactivation of Agreements

Integration Assessment



NEW: Documentation about ISA-M available at SAP Help Portal

Easier to consume and to apply SAP's integration methodology

The screenshot shows the SAP Help Portal interface for the 'SAP Integration Solution Advisory Methodology'. The page title is 'The Phases of the SAP Integration Solution Advisory Methodology'. The left sidebar contains a navigation menu with the following items: 'SAP Integration Solution Advisory Methodology Overview', 'The Phases of the SAP Integration Solution Advisory Methodology' (selected), 'Assess Your Integration Strategy', 'Design Your Hybrid Integration Platform', 'Define Integration Best Practices', 'Enable a Practice of Empowerment', 'Version History', and 'Glossary'. The main content area displays the title 'The Phases of the SAP Integration Solution Advisory Methodology' and a brief description: 'The SAP Integration Solution Advisory Methodology offers a well-defined adoption path along four phases that guide you through the process from defining to executing an enterprise integration strategy. Each phase is comprised of a set of steps describing the context, procedure and related information. The graphic shows the current scope of phases and steps of this methodology:'. Below this, there are four horizontal flowcharts representing the phases: 1. 'Assess Your Integration Strategy' with steps 'Integration Domains', 'Integration Styles', and 'Integration Use Case Patterns'. 2. 'Design Your Hybrid Integration Platform' with steps 'Technology Mapping', 'Integration Policies', and 'Interface Assessment'. 3. 'Define Integration Best Practices' with steps 'Integration Dos and Don'ts', 'Architecture Blueprints', and 'Development Guidelines'. 4. 'Enable a Practice of Empowerment' with steps 'Organizational Structure', 'Integration Governance', and 'Integration Quality Assurance'. The right sidebar contains sections for 'On this page' (listing 1. Assess Your Integration Strategy, 2. Design Your Hybrid Integration Platform, 3. Define Integration Best Practices, 4. Enable a Practice of Empowerment, Getting Started with Applying the Methodology, and Related Information), 'Comments' (stating 'This page has 0 comment so far.' with a 'View comments' link), and a 'Was this page helpful?' section with 'Yes' and 'No' buttons.

- More context information and explanations, including a glossary
- A set of “real” templates to fill out that are assigned to the steps of the methodology
- Option to choose a templates-based and/or a tool-based approach using the Integration Assessment for applying ISA-M
- Direct access to the methodology including download of templates

[SAP Integration Solution Advisory Methodology available at SAP Help Portal | SAP Blogs](#)

Explore the standard APIs for a broad set of ISA-M entities

Companies using various tools in the areas of Enterprise Architecture and Application Lifecycle Management can leverage APIs to integrate other systems with the Integration Assessment capability. This will allow new scenarios when designing an integration architecture toolchain in future.

- APIs based on OData v2
- Access to
 - ISA-M settings
 - Applications
 - Technologies
 - Business solution / interface requests



[API documentation on SAP Business Accelerator Hub](#)

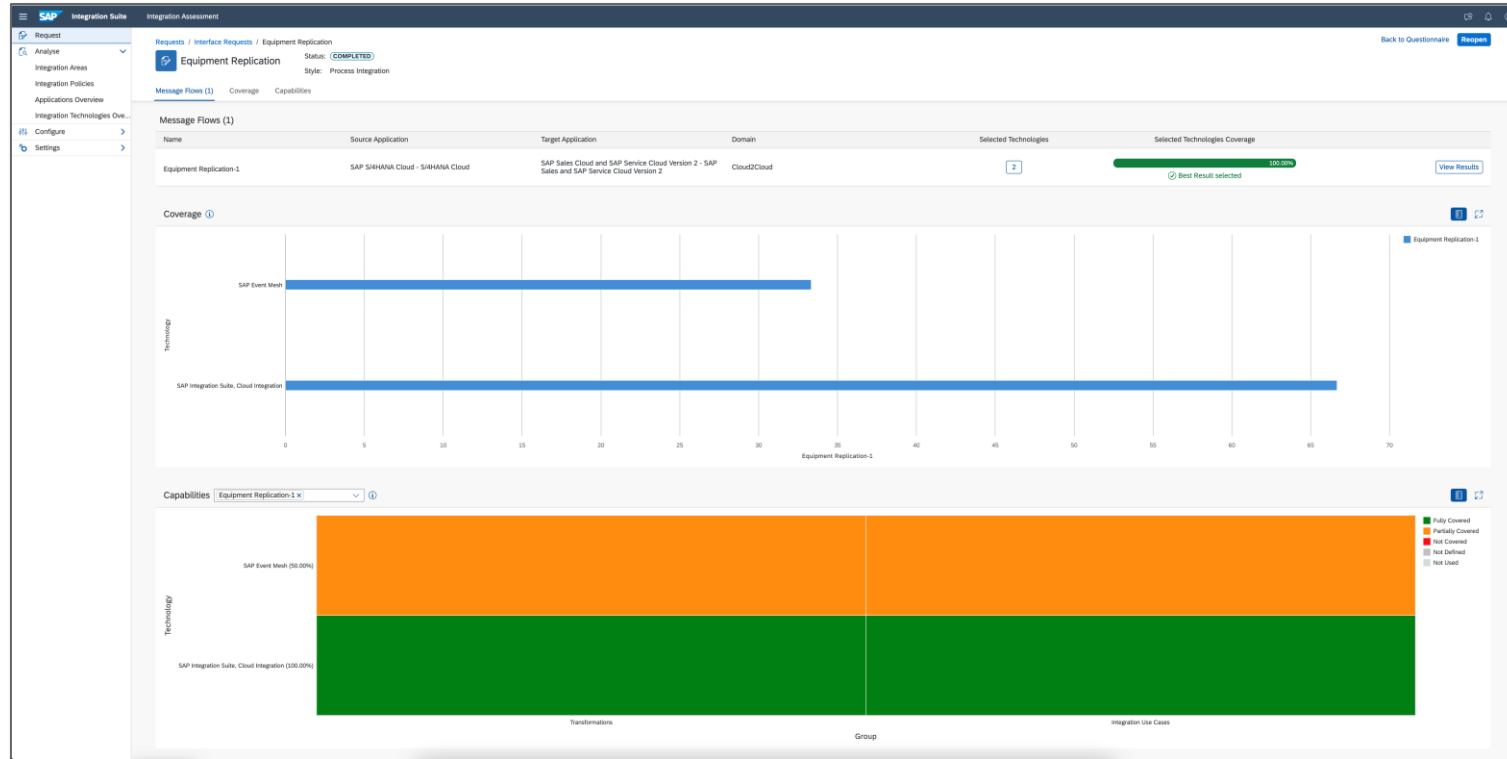
[SAP Integration Suite documentation](#)

The screenshot displays the SAP Business Accelerator Hub interface for the SAP Integration Assessment API. The left sidebar lists various entities and their corresponding HTTP methods for API access. The main content area shows the 'About' section for the API, including version information (1.0.0), last modified date (07 Jul 2023), and support info (BC-CP-IS-INTAS). It also includes a 'Documents' section with a link to the SAP Help Portal and 'Business Tags' for the product.

Entity	Method	Endpoint	Description
Domain	GET	/Technology	Retrieve all technologies.
Style	POST	/Technology	Create new technology.
UseCasePattern	GET	/Technology('{id}')	Retrieve specific technology.
IntegrationPattern	PATCH	/Technology('{id}')	Update specific technology.
KeyCharacteristic	DELETE	/Technology('{id}')	Delete specific technology.
KeyCharacteristicGroup	GET	/Technology('{id}')/Vendor	Get related Vendor
KeyCharacteristicValue	GET	/Technology('{id}')/TechnologyDomains	Get entities from related Technology/Domains
KeyCharacteristicRecommendationDegree	GET	/Technology('{id}')/TechnologyInstances	Get entities from related Technology/Instances
DeploymentModel	GET	/Technology('{id}')/TechnologyStyles	Get entities from related Technology/Styles
DomainDetermination	GET	/Technology('{id}')/TechnologyKeyCharacteristics	Get entities from related Technology/KeyCharacteristics
Application	GET	/TechnologyDomain('{id}')/Technology	Get related Technology
ApplicationInstance	GET	/TechnologyInstance('{id}')/Technology	Get related Technology
Technology	GET	/TechnologyKeyCharacteristic('{id}')/Technology	Get related Technology
TechnologyInstance	GET	/TechnologyStyle('{id}')/Technology	Get related Technology
TechnologyDomain	GET		
TechnologyStyle	GET		
TechnologyKeyCharacteristic	GET		
Vendor	GET		
Request	GET		
RequestLineItem	GET		
IntegrationFlow	GET		
MessageFlow	GET		
IntegrationFlowMessageFlow	GET		
RequestLineItemTechnologyInstanceDecision	GET		
Batch Requests	GET		

NEW: Guiding content for SAP Customer Experience Solutions

Stepwise publication of LoB specific integration policies



- Extension of guiding content by content specific for SAP Customer Experience solutions
- Contains comprehensive list of SAP CX business applications and integration policies
- Supports designing the integration landscape in the SAP Customer Experience area

Invitation: “**Integration Black Belts**”

“Interact with Integration Blackbelts”

- Speakers from customers / partners / stakeholders / consultants to share their innovations, solution architecture, best practices and integration patterns
- 20 mins slot
- Interested to present? Reach out to palak.garg@sap.com



What is #AskAnythingIntegration?

Provides a platform for customers, partners, consultants, and participants to ask their most important and top priority questions and get them answered by the panel of experts.

- Questions can be sent upfront or posted directly in the call
- Questions and answers will then be published as a public FAQ document with regular updates and additions

Panel of Experts: Speakers of the monthly webinar + product Management team

Schedule: Runs every alternate month

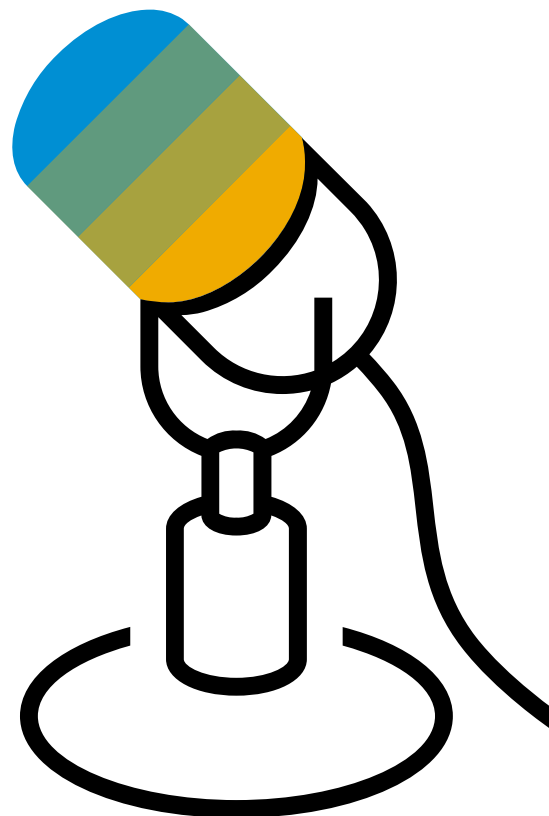
Duration: 20 mins

Moderator: Gautham (gautham.krishna@sap.com)

Note: “Interact with #IntegrationBlackBelt” section will transition to alternate months.



Q & A



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