

SAP Integration Solution Advisory Methodology

Shape and execute an enterprise integration strategy

Public

Agenda

Motivation

SAP Integration Solution Advisory Methodology

Integration Assessment capability within SAP Integration Suite

Key Take Aways

Q & A

Integration is a Business Priority

83%

report that enterprise integration is a top-five business priority for the next 12 to 24 months*

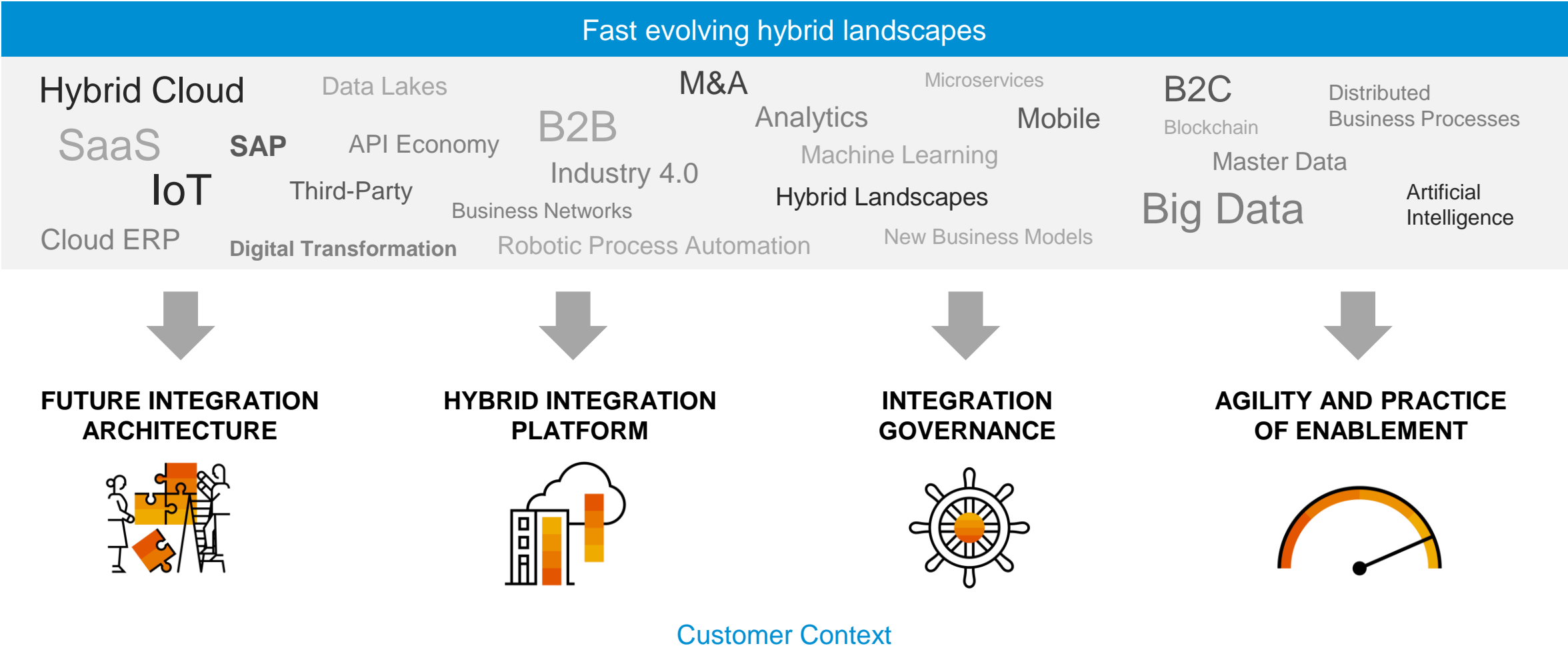
96%

say that the need for enterprise integration was identified by the office of the CIO*

27%

report that they have a mature enterprise integration practice*

Rising Scope and Demand for Enterprise Integration

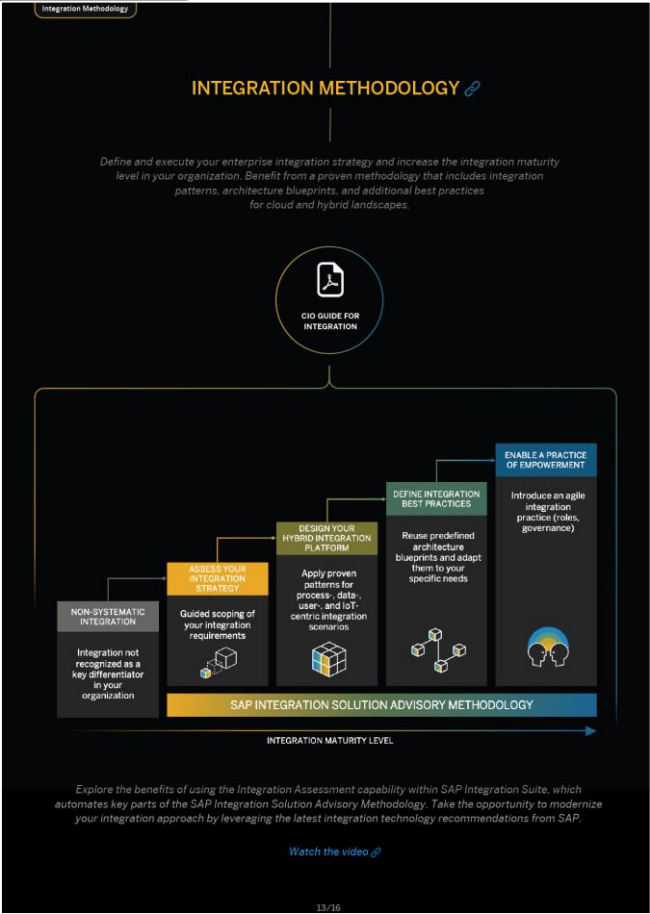


Enterprise Architecture Strategy | Future Application Landscape | Existing Investments | Skillsets | Commercial Aspects

SAP Integration Strategy Paper



[SAP Integration Strategy Paper](#)



1

SAP's integration highlights and road map

2

End-to-end business process integration along suite qualities

3

SAP AI solutions and mobile experience

4

Integration methodology and services

5

Transform your business processes with RISE with SAP

Agenda

Motivation

SAP Integration Solution Advisory Methodology

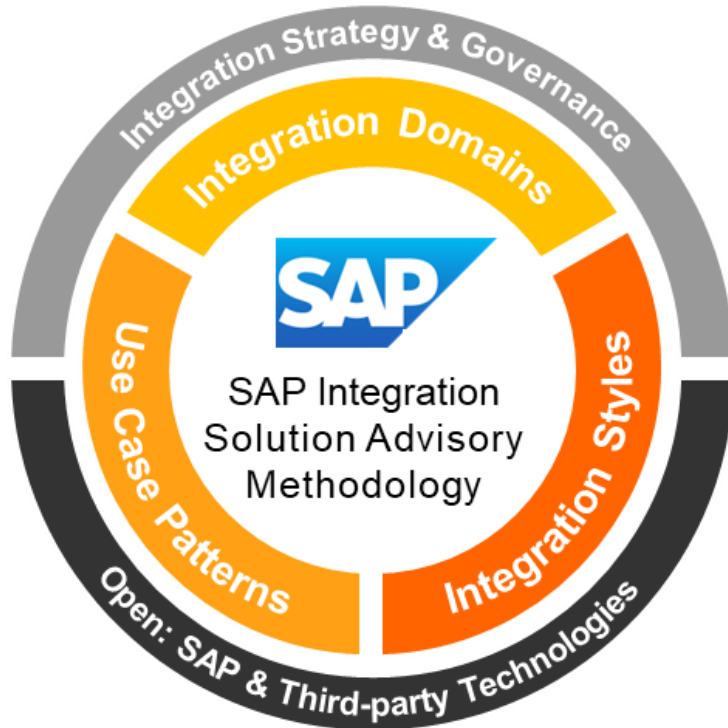
Integration Assessment capability within SAP Integration Suite

Key Take Aways

Q & A

What is the SAP Integration Solution Advisory Methodology (ISA-M)?

In a nutshell

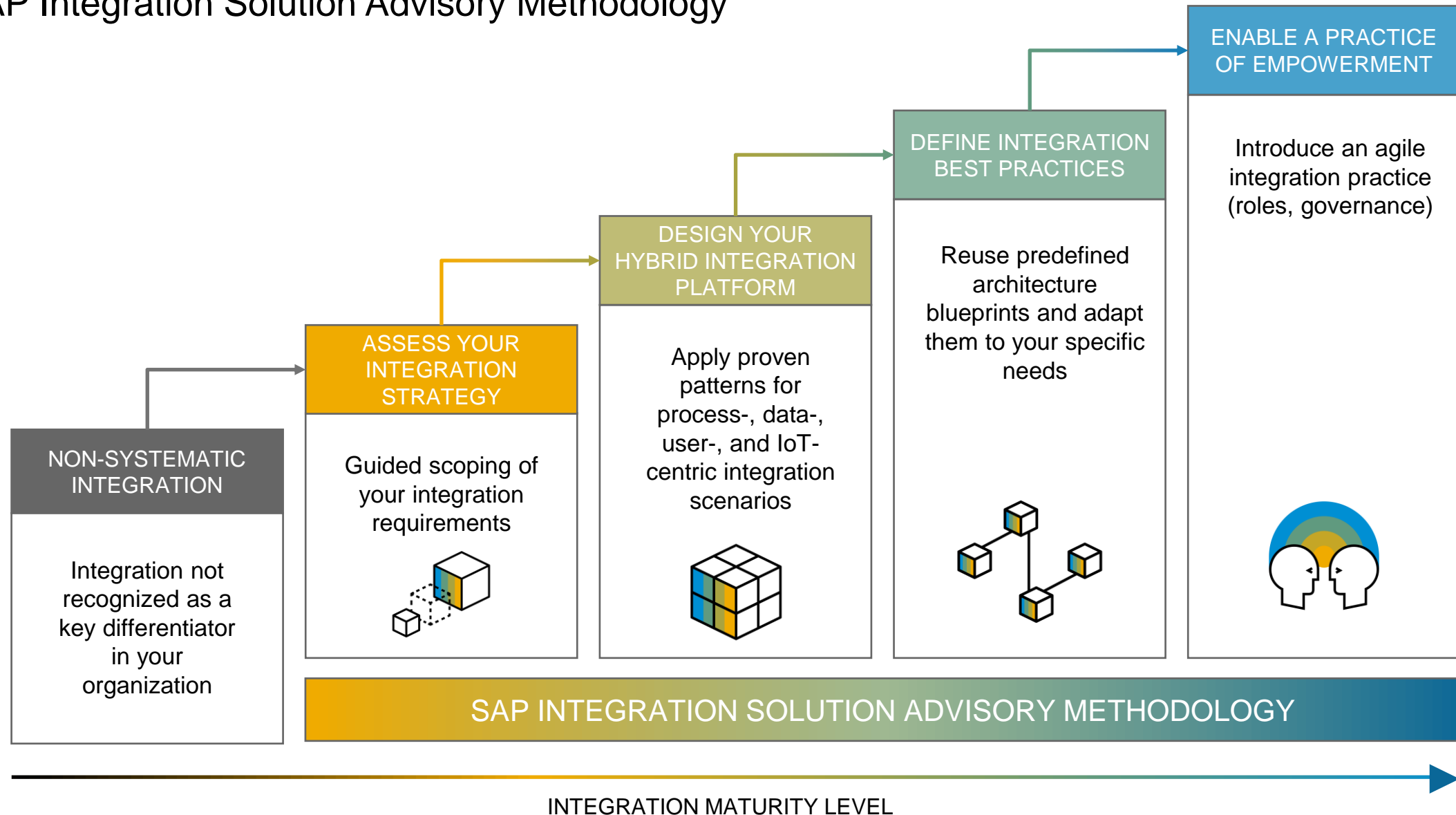


- 1 | Technology-agnostic framework to define and execute an integration strategy
- 2 | Delivers adaptable integration use case patterns, architecture blueprints and best practices
- 3 | Covers all integration dimensions in today's hybrid and diverse environments

[Visit sap.com](https://www.sap.com)

A Proven Path Toward Integration Excellence

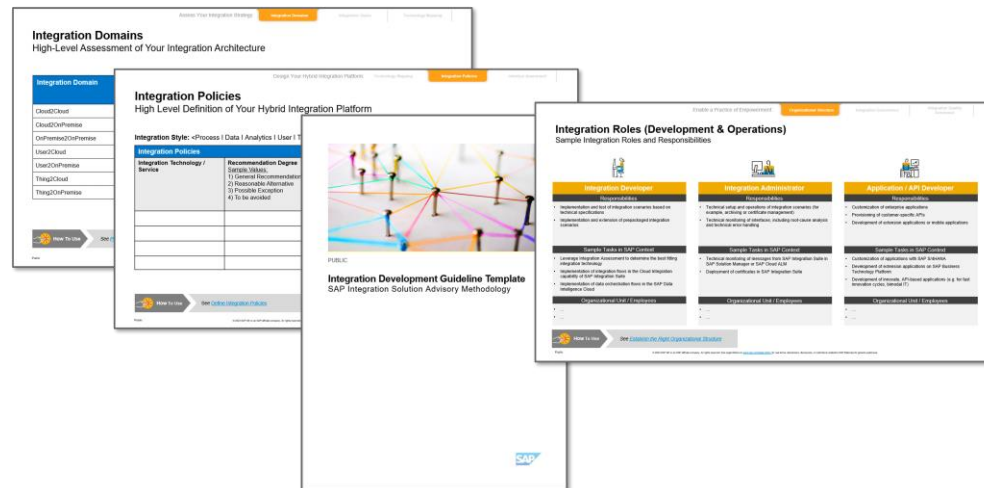
SAP Integration Solution Advisory Methodology



How to Apply ISA-M?

Templates and tool-based approach

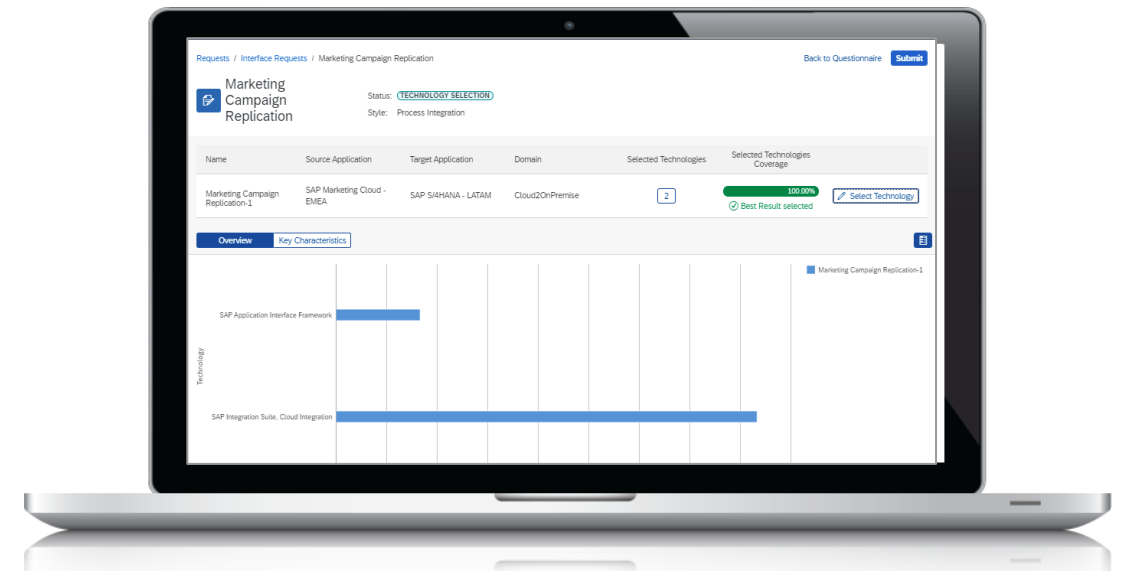
Templates



Start sketching your enterprise integration strategy using a set of free templates (pptx, docx, xslx)

[Blog Post](#)

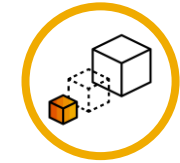
Tool-based



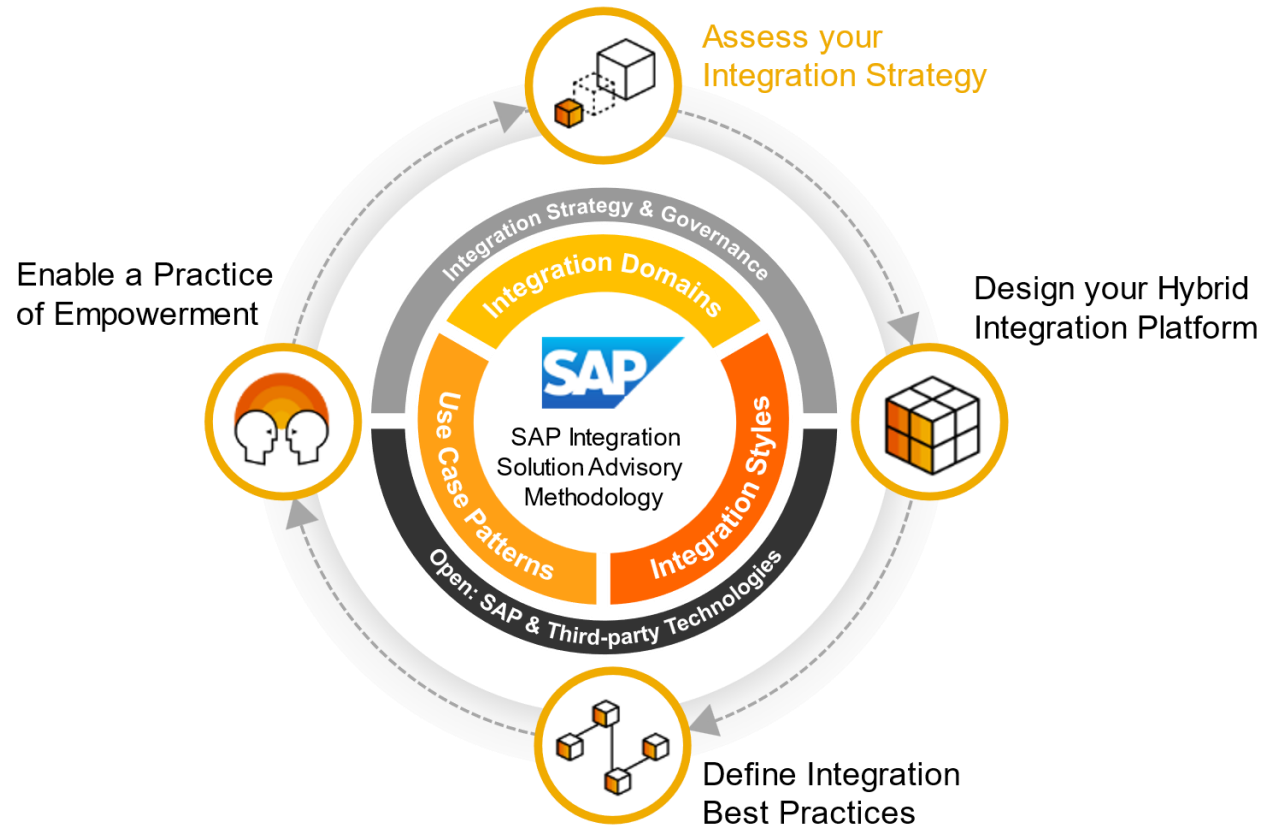
Execute your integration strategy by using the Integration Assessment capability within SAP Integration Suite

[Blog Post](#)

1. Assess Your Integration Strategy



Assess your
Integration Strategy



Objectives and approach

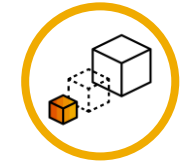
- Documentation/review of your integration architecture
- Scoping of focus areas e.g. future building blocks
- Use-case driven approach (technology-agnostic)

Reasons for integration strategy assessment

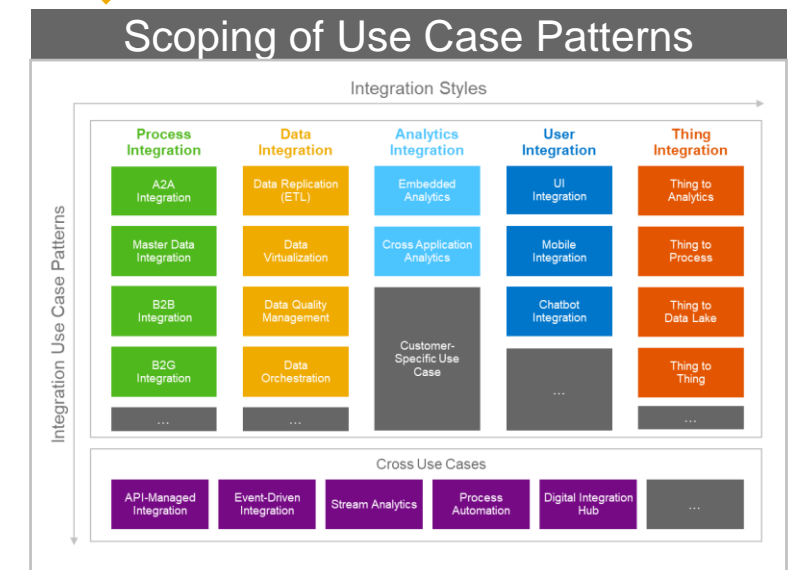
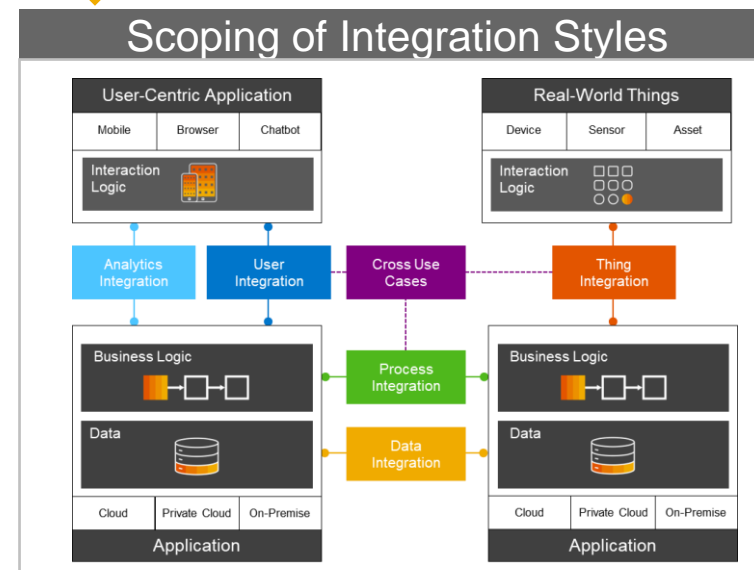
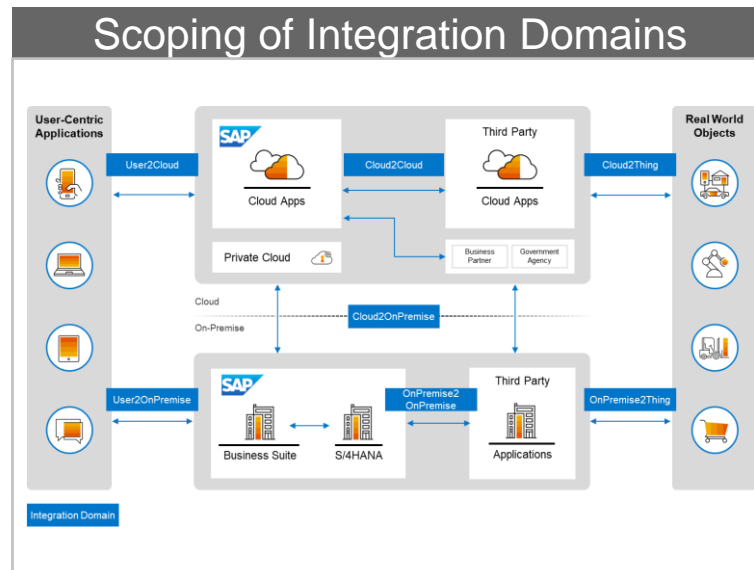
- Need to cover new integration patterns
- Implementation of new cloud applications
- Transition to SAP S/4HANA
- Standardization and governance
- Mergers and acquisitions

Assess Your Integration Strategy

3 steps to take

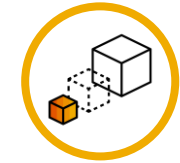


Assess your
Integration Strategy

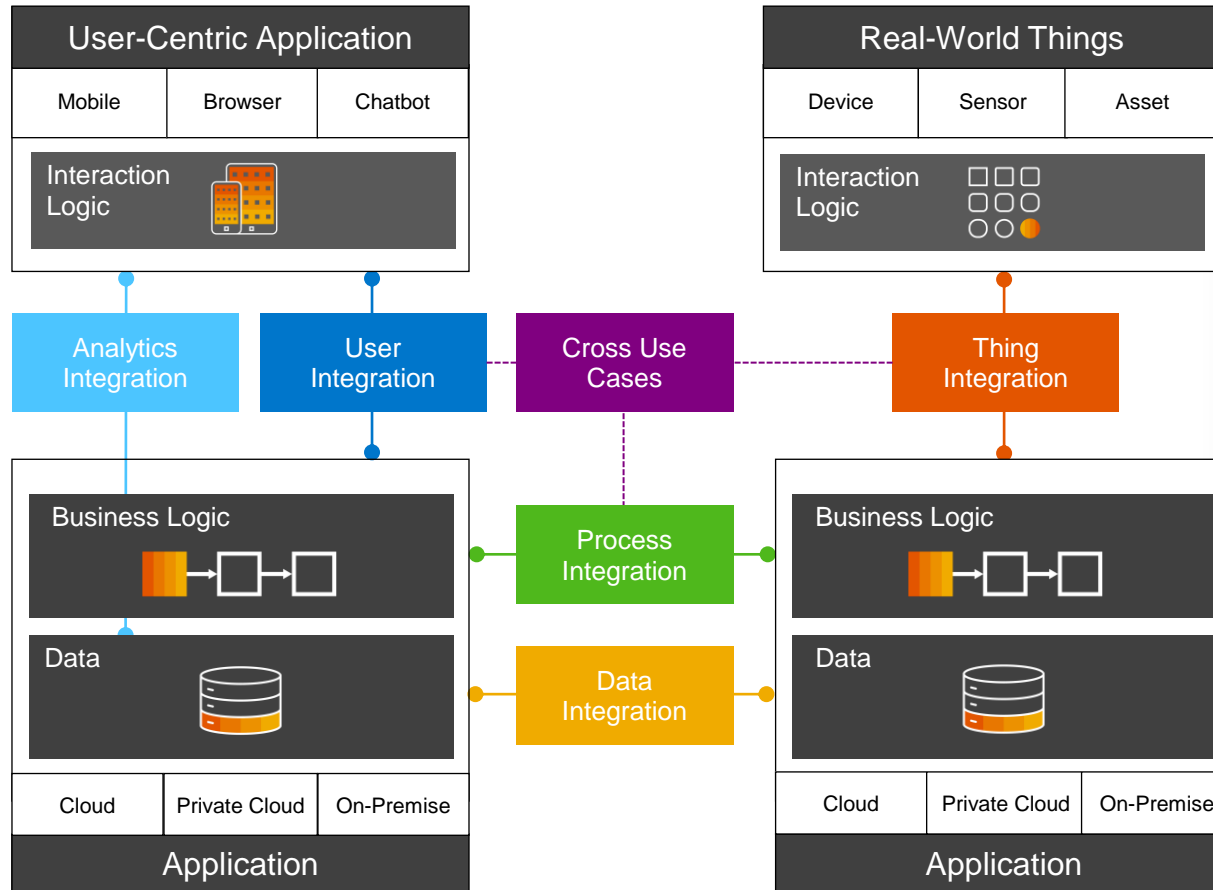


Scoping of Integration Styles

2nd step for assessing your integration strategy



Assess your
Integration Strategy



Characteristics / Decision Criteria

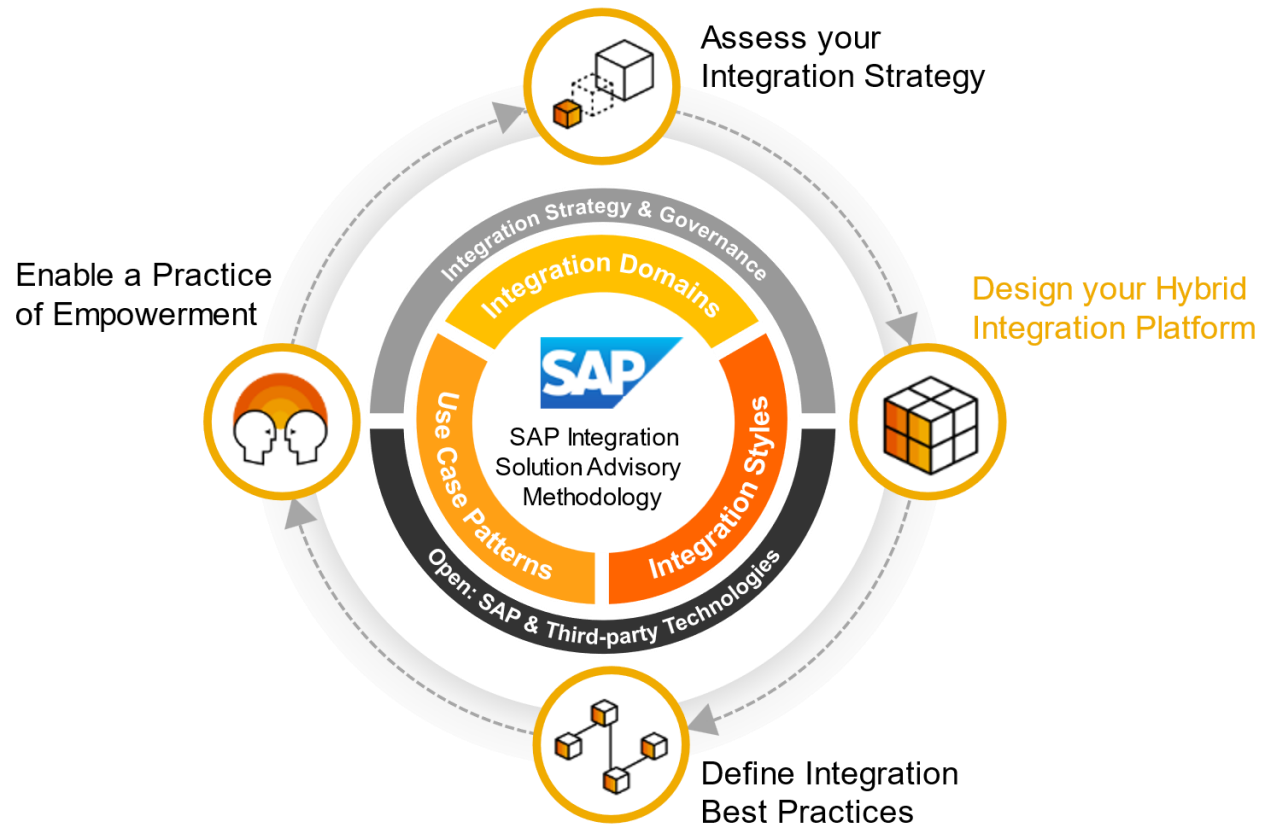
	Process Integration	Data Integration	API Integration
Objective	Chaining of business processes	Synchronization of data	Deriving business from business and data sources
Interaction Type	System-2-System	System-2-System	System-2-User
Coupling to Application	Process-Level	Data-Level	Data-Level
Primary Trigger	Application Event	Schedule or Application Event	User Event
Urgency of Completion	(Near) Real-Time	Batch or Near Real-Time	(Near) Real-Time
Unit of Data Exchange	Single Objects	Bulk-Data or Single Objects	From aggregated data
Specific Requirements	<ul style="list-style-type: none"> Transactional Integrity Reliable Messaging Message Orchestration B2B protocol support 	<ul style="list-style-type: none"> Data Orchestration Complex transformations Data Quality Management Big Data Processing 	<ul style="list-style-type: none"> Local and remote sources Data & process modeling Data privacy, authentication Data volume

Design your Hybrid Integration Platform

2nd phase of ISA-M



Design your Hybrid
Integration Platform



Objectives and approach

- Mapping of use case patterns to integration technologies and services
- Open to SAP and third-party integration technologies
- Derive integration guidelines for your organization
- Highly depends on the customer context

Sample customer context

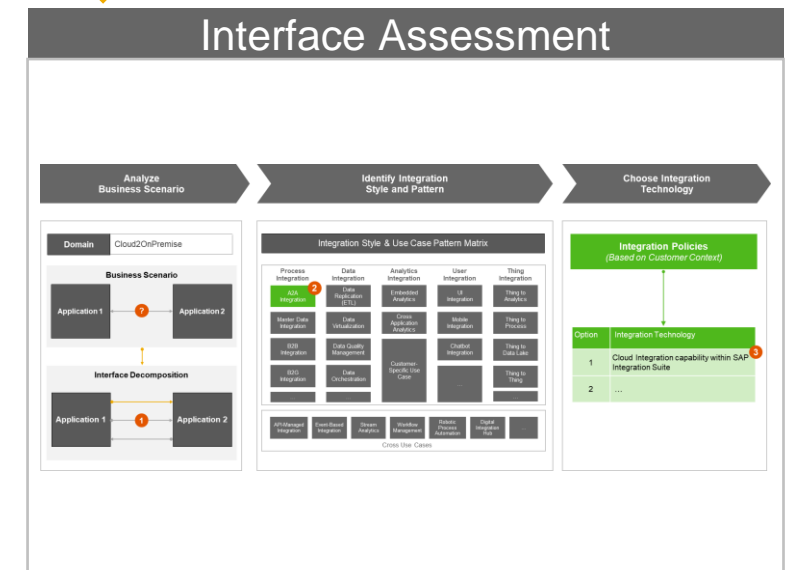
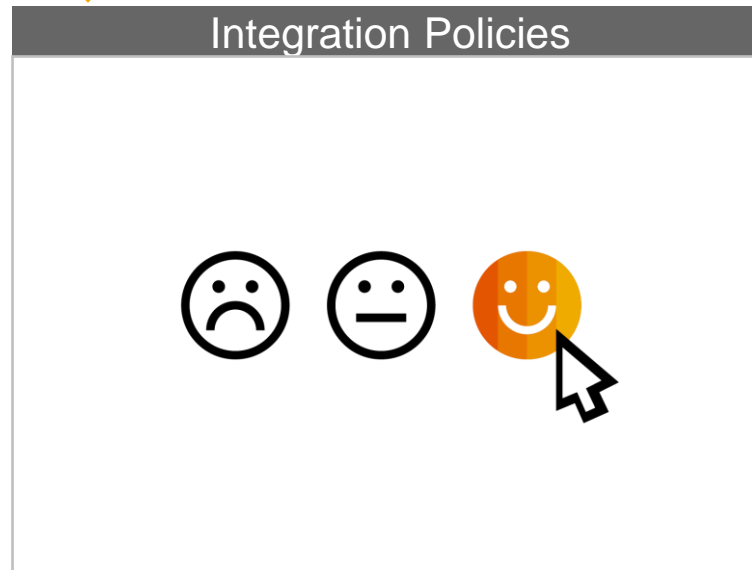
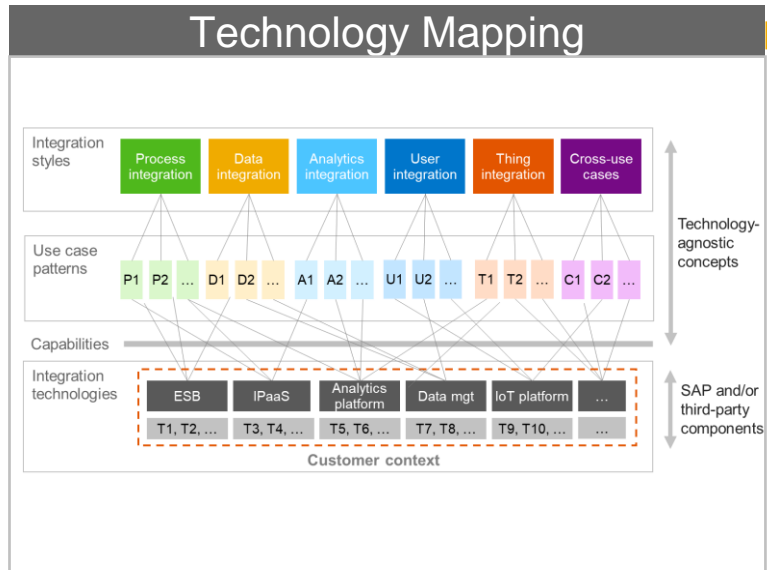
- Enterprise architecture strategy
- Future application landscape
- Existing investments
- Skillsets
- Commercial aspects

Design Your Hybrid Integration Platform

3 steps to take



Design your Hybrid
Integration Platform

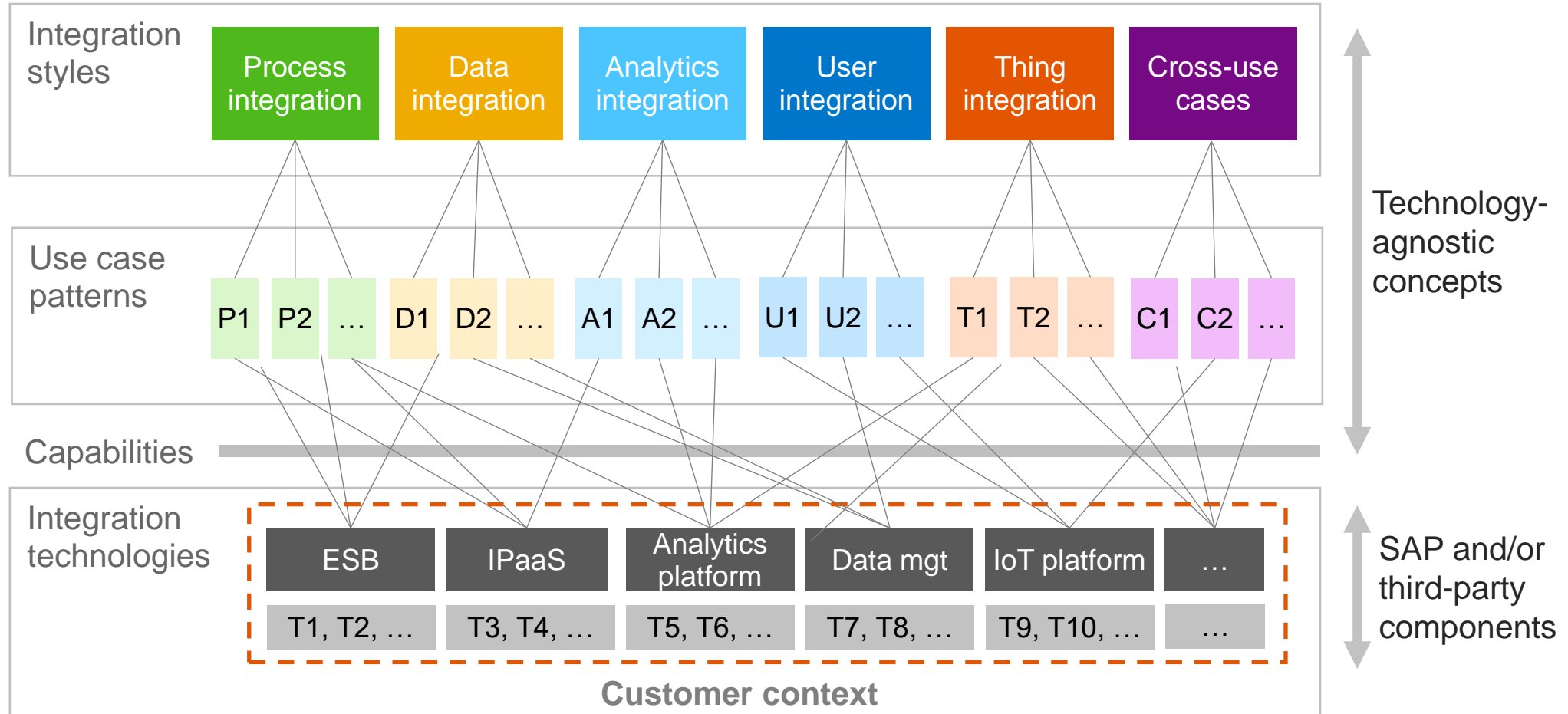


Perform a Technology Mapping

1st step for defining your hybrid integration platform



Design your Hybrid
Integration Platform

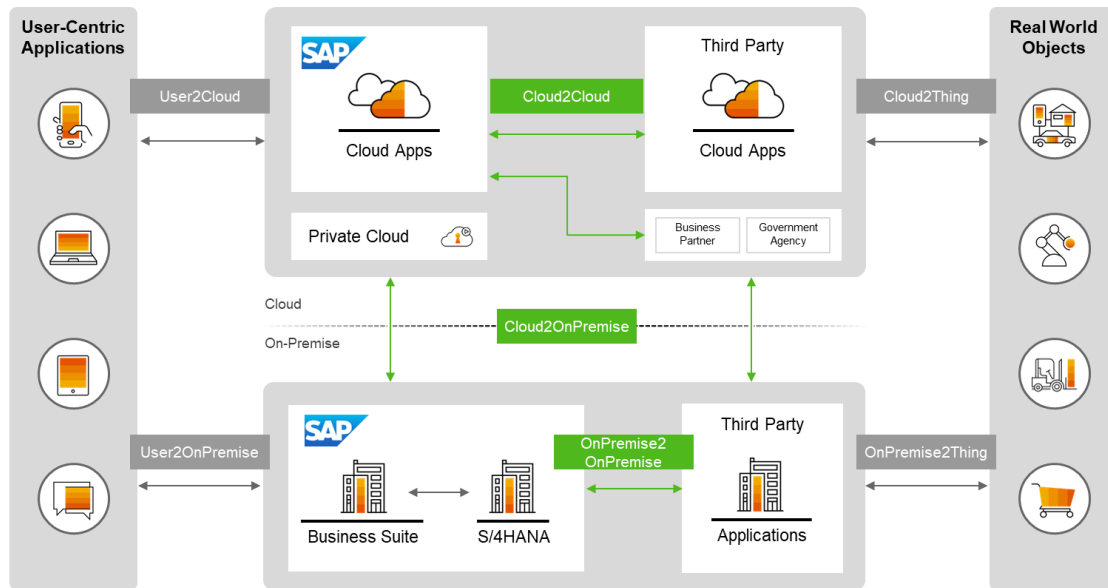


Example: SAP Technology Mapping for Process Integration



Design your Hybrid
Integration Platform

1 Integration Domain(s) and Integration Style



Process
Integration

Data
Integration

User
Integration

Thing
Integration

Cross Use
Cases

2 Sample Mapping to SAP Technologies*

SAP Integration Suite

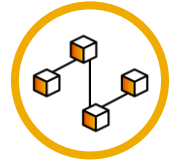
- SAP's IPaaS for cloud and hybrid integration
- Prepackaged integration content for SAP and third-party apps
- Integration Advisor capability (simplified integration supported by Artificial Intelligence)
- Trading Partner Management capability (for B2B integration scenarios)
- Open Connectors capability (+160 pre-built connectors for Non-SAP apps)
- Complementary: SAP Application Interface Framework (AIF)

Key Characteristics

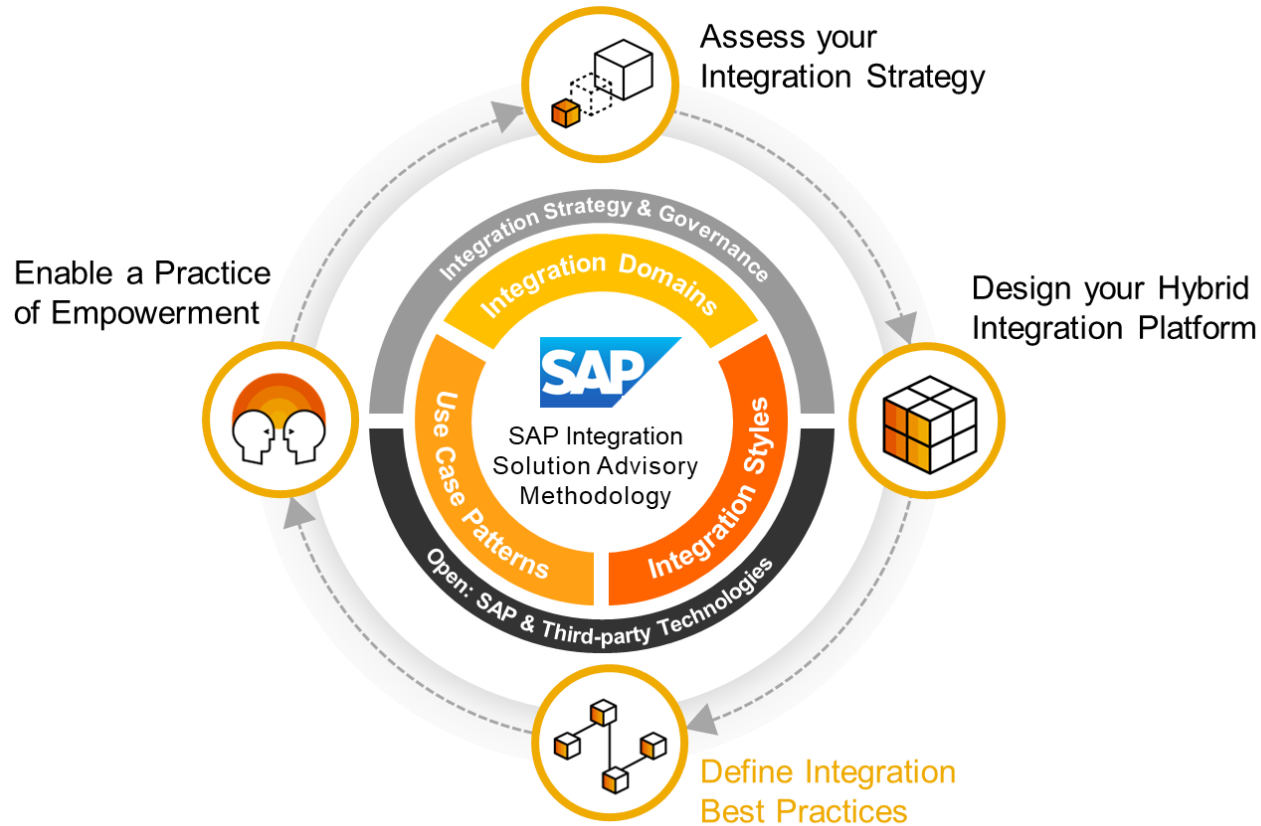
- A2A, Master Data, B2B, B2G integration use cases
- API-based integration and near real-time processing
- Transactional process integrity

Define Integration Best Practices

3rd phase of ISA-M



Define Integration
Best Practices



Objectives

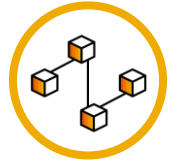
- Govern and safeguard the implementation of integrations across your organization
- Achieve transparency about integration design and implementation

Approach

- Build on vendor agnostic and product specific integration best practices
- Enrich best practices with customer specific aspects
- Offer guard rails and detailed guidance for integration developers

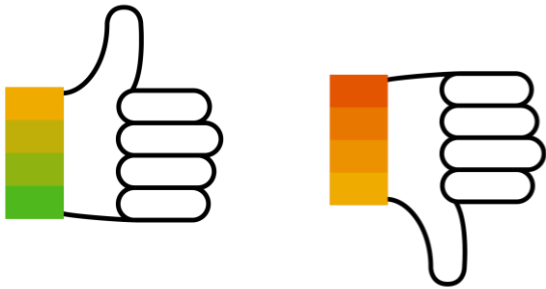
Define Integration Best Practices

3 steps to take

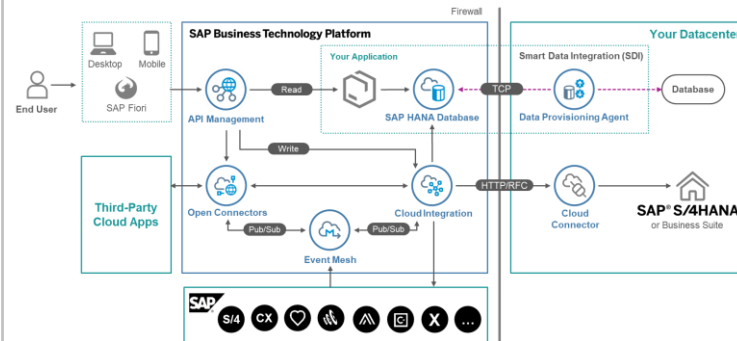


Define Integration
Best Practices

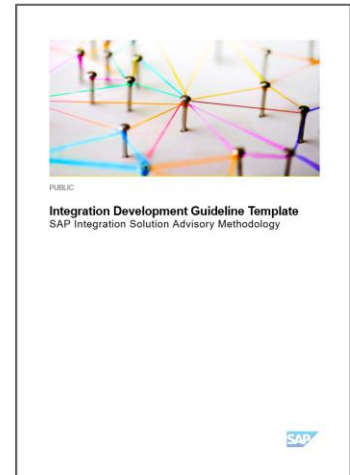
Integration Dos and Don'ts



Architecture Blueprints

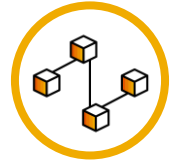


Development Guidelines



Create Your Architecture Blueprints

2nd step for defining integration best practices



Define Integration
Best Practices

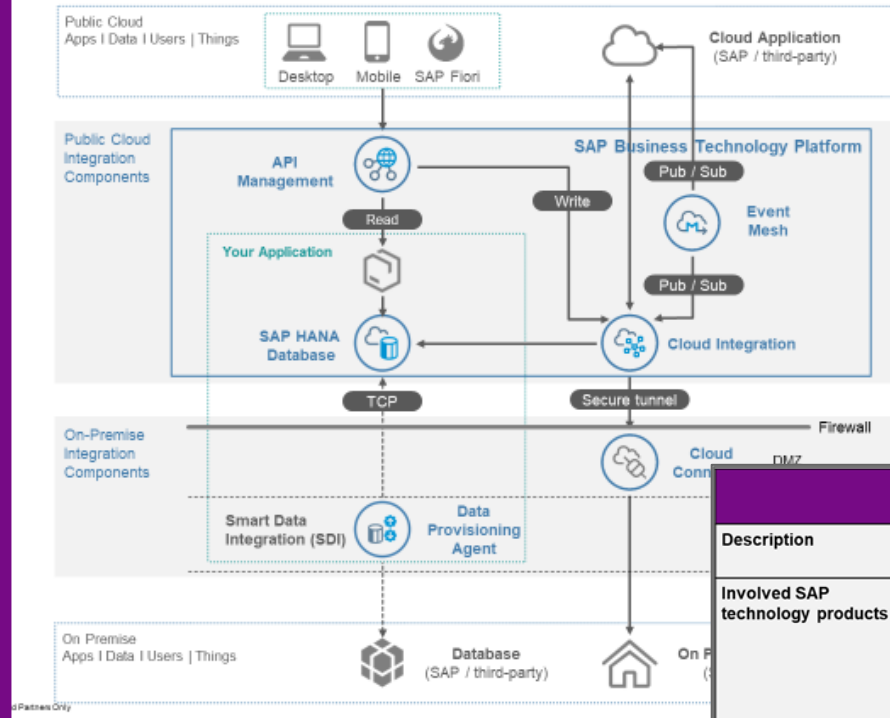
Digital Integration Hub

Cloud to On Premise and Cloud

Characteristics | Selection Criteria

- Need for responsive API access to data stored in business applications for large-scale/high performance scenarios
- Decoupling of business application data sources from front-end API by introducing an in memory data store layer
- In memory layer aggregate and synchronizes data with business applications by using event-based, request-based, and batch integration patterns

Disclaimer: this slide shows an illustrative example that needs to be adapted to the specific customer context and requirements. It serves as a starting point for customers to model their hybrid integration use cases.



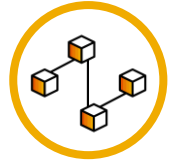
Architecture diagram,
including selection criteria

	Details
Description	The Digital Integration Hub is an emerging architecture for implementing a large-scale, high-throughput access layer to business data by inserting a high performance in-memory data store layer between the frontend API service layer and backend app and data sources.
Involved SAP technology products	<ul style="list-style-type: none"> SAP HANA Database <p>The following capabilities of SAP Integration Suite (link):</p> <ul style="list-style-type: none"> Cloud Integration Event Mesh API Management Open Connectors (conditional) <ul style="list-style-type: none"> SAP Cloud Connector SAP Smart Data Integration
When to apply	<ul style="list-style-type: none"> Need for a large-scale, high-throughput and low-latency front-end API services (e.g. for user interfaces) For protecting back-end systems from excessive front-end API
How to apply	<ul style="list-style-type: none"> SAP HANA Database acts as a high-performance data store for caching the relevant subset of business data. Furthermore it provides a single consolidated view of entities which is stored in one or multiple business applications (cloud / on premise) and databases. Cloud integration capability integrates apps (SAP/third-party, cloud/on premise) with SAP HANA database and keeps the data in sync. Open Connectors capability for simplified integration of Non-SAP cloud applications. SAP Smart Data Integration is needed when integrating data from databases with the SAP HANA and to keep the data in sync. Enterprise Messaging capability acts as an event broker for a loosely coupled event based integration between business applications. These publish their events to Enterprise Messaging. Cloud Integration capability is the subscriber of these events and sends the data to the SAP HANA database for update. API Management capability enables a low-latency frontend API service connecting to SAP HANA database for read queries. Update calls can be performed directly on the business applications. <p>See also: Digital Integration Hub: Building Agile Data Grids and Microservices</p>

Complementing
information sheet

Example: Reuse of Vendor-Agnostic Integration Best Practices

3rd step for defining integration best practices



Define Integration
Best Practices

Key Characteristic	API Management Layer	Integration Layer
Integration Technology	API Management capability within SAP Integration Suite	Cloud Integration capability within SAP Integration Suite
API Traffic Management Policies	●	●
API Security Policies	●	●
API Analytics & Monetization	●	●
Structure Mapping	●	●
Protocol Adaptation	●	●
Routing	●	●
Splitter	●	●
Aggregator	●	●
Value Mapping	●	●

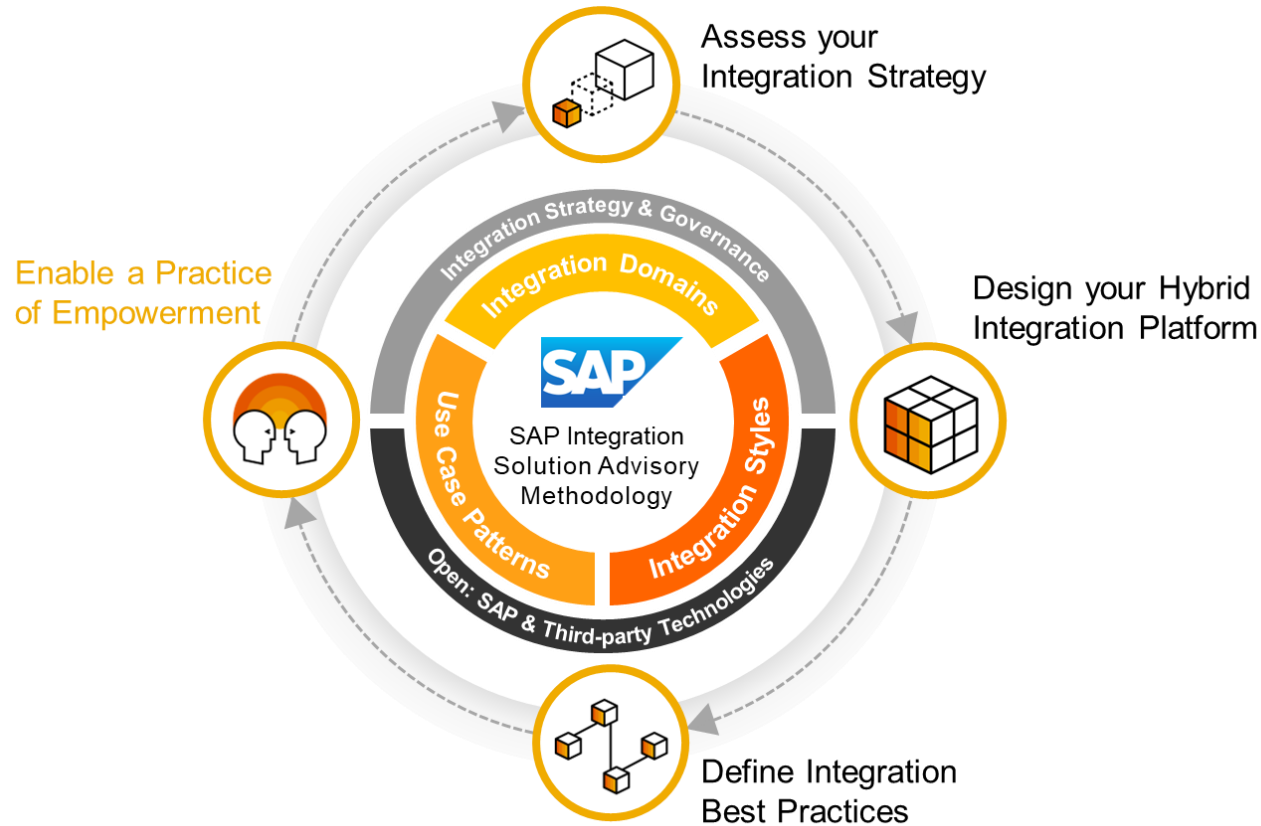
● Good fit ● Partial fit ● No fit

Enable a Practice of Empowerment

4th phase of ISA-M



Enable a Practice of
Empowerment



Objectives

- Establish integration as recognized discipline
- Position integration as a strategic differentiator
- Democratize integration delivery
- Establish knowledge sharing culture (best practices)
- Improve communication between teams / system integrators

Sample approach*

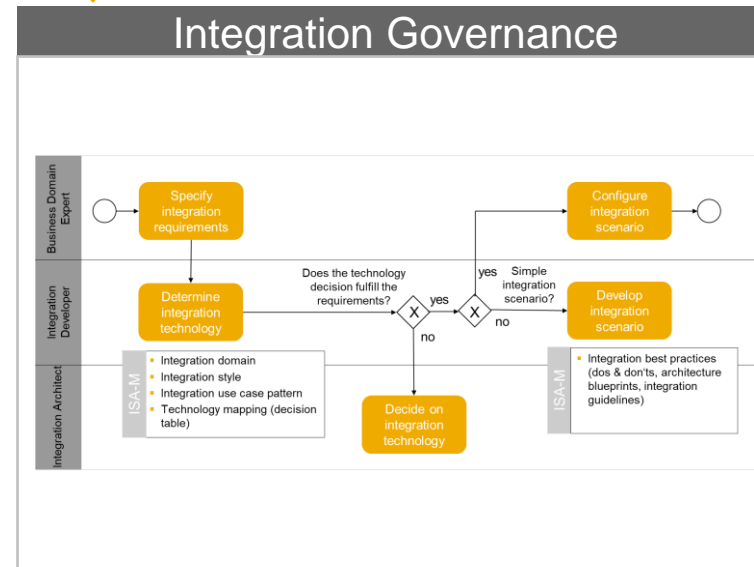
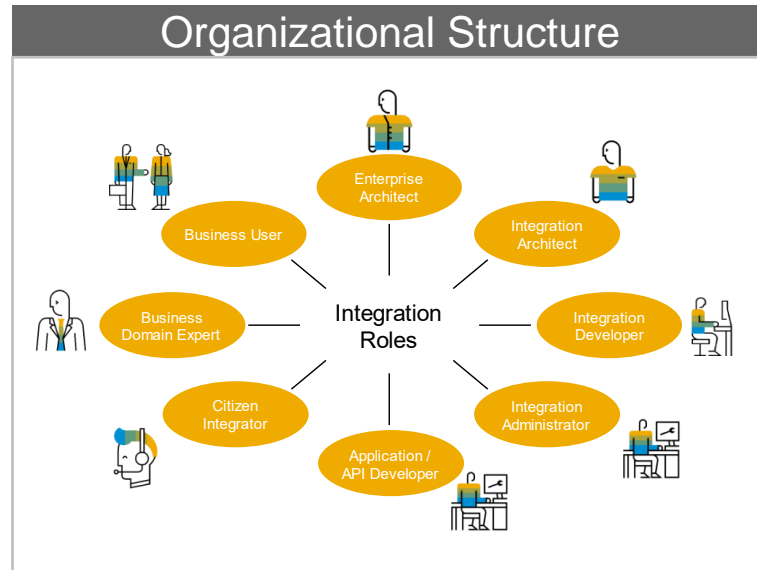
- Setup an Integration Center of Excellence Team
- Focus on integration enablement and coaching
- Define areas for self-service integration

Enable a Practice of Empowerment

3 steps to take



Enable a Practice of
Empowerment



Introduce Integration Governance

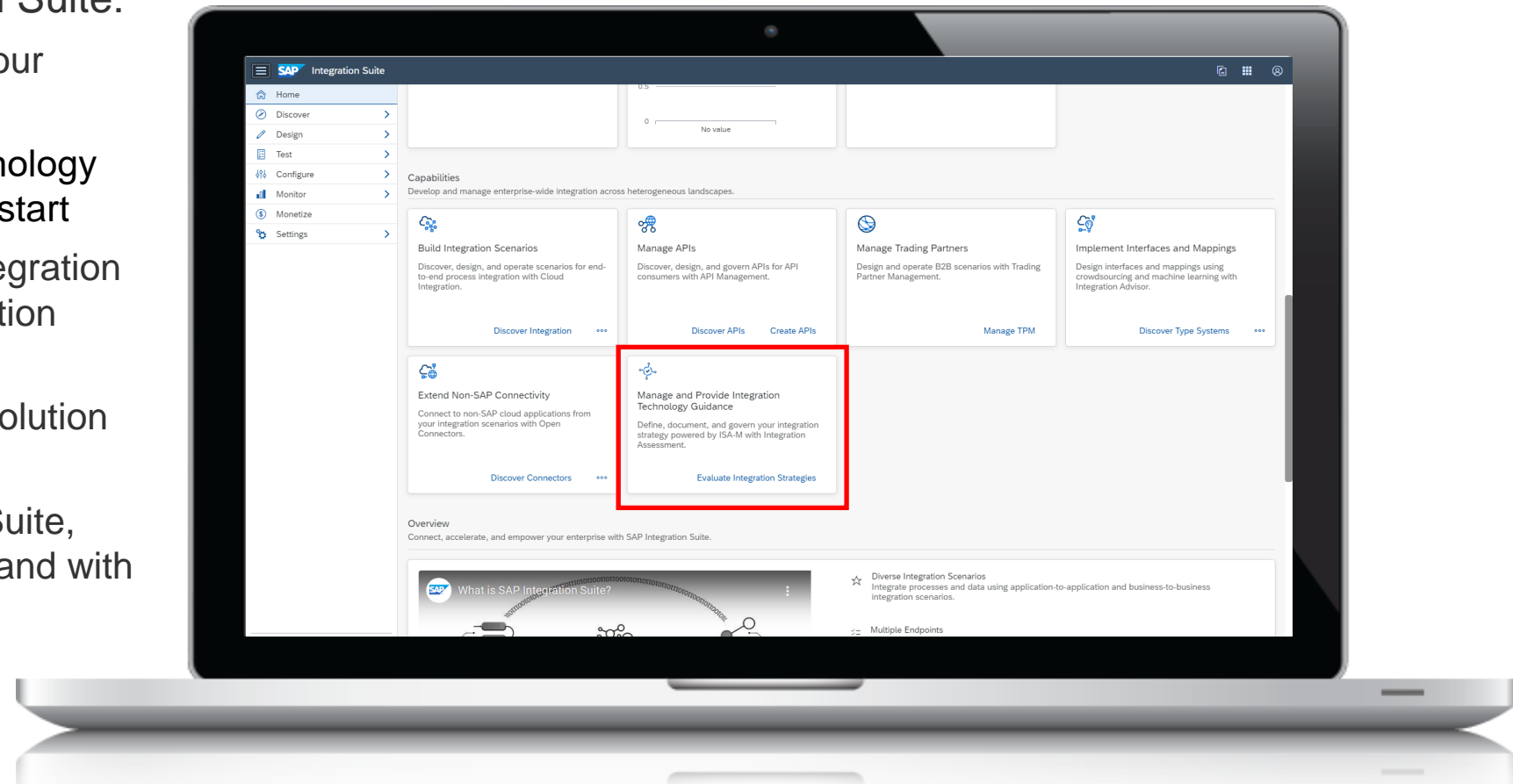
2nd step for enabling a practice of empowerment



Enable a Practice of
Empowerment

Leverage the Integration Assessment capability within SAP Integration Suite:

- Define, document and govern your integration technology strategy
- Includes SAP's integration technology recommendations for a turnkey start
- Determine the most suitable integration technology for a specific integration scenario in your organization
- Based on the SAP Integration Solution Advisory Methodology
- Available with SAP Integration Suite, standard and premium editions and with CPEA



Agenda

Motivation

SAP Integration Solution Advisory Methodology

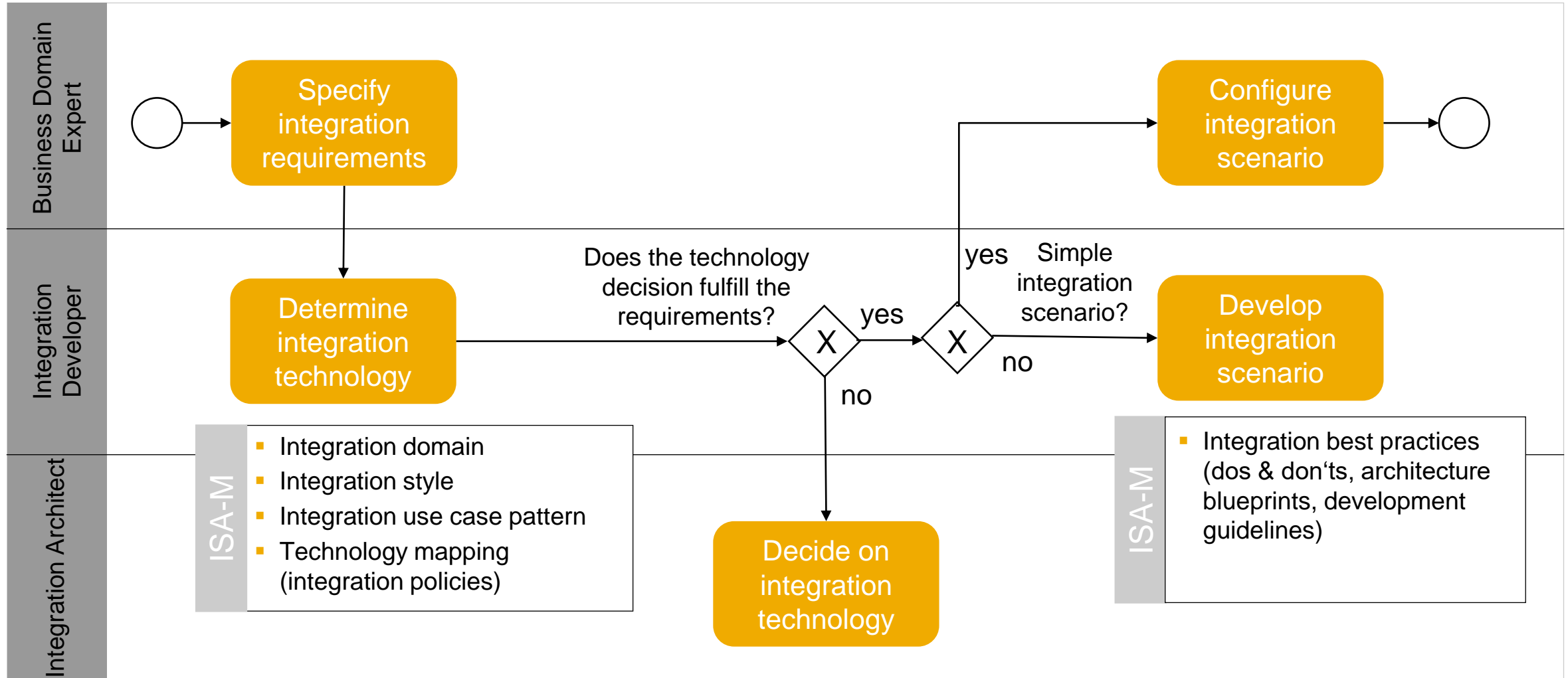
Integration Assessment capability within SAP Integration Suite

Key Take Aways

Q & A

Integration Governance Process*

Empowered by ISA-M



*Simplified sample process definition

Introduce Integration Governance Using the Integration Assessment capability within SAP Integration Suite

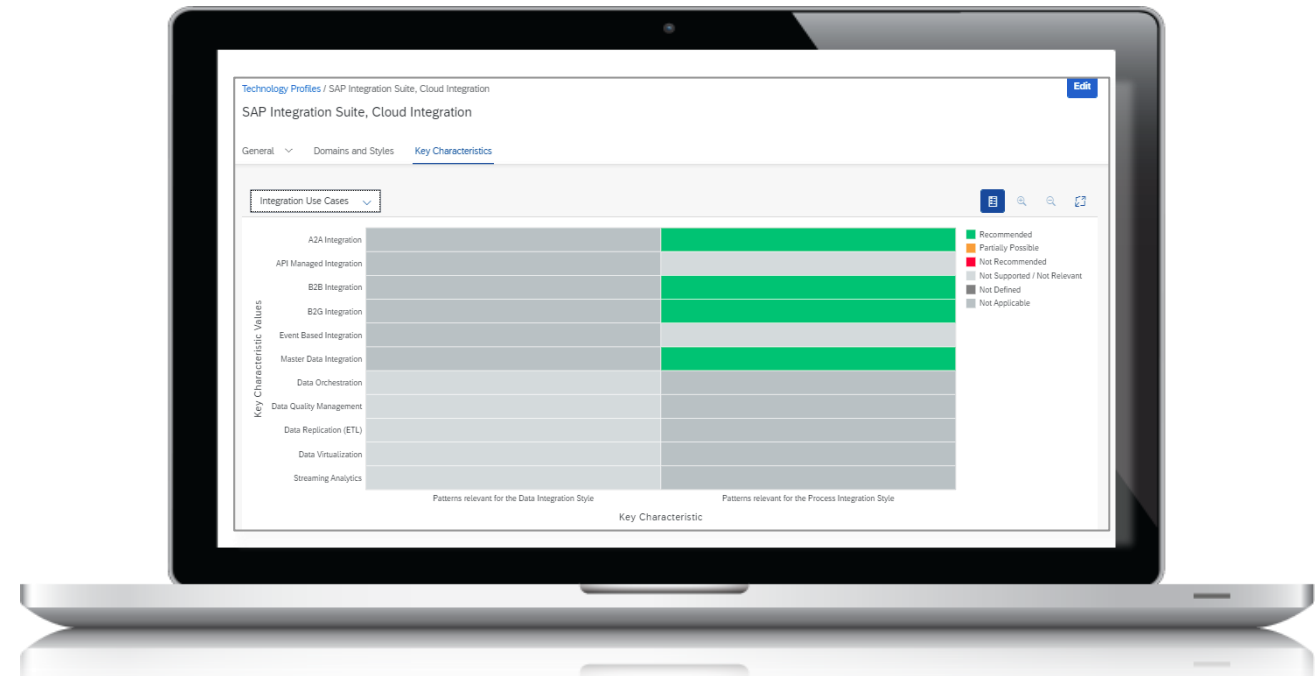


Tasks

- Adapt ISA-M settings to customer needs
 - Integration domains, styles, patterns
 - Questionnaires
- Configure landscape information



Integration Architect



Introduce Integration Governance Using the Integration Assessment capability within SAP Integration Suite

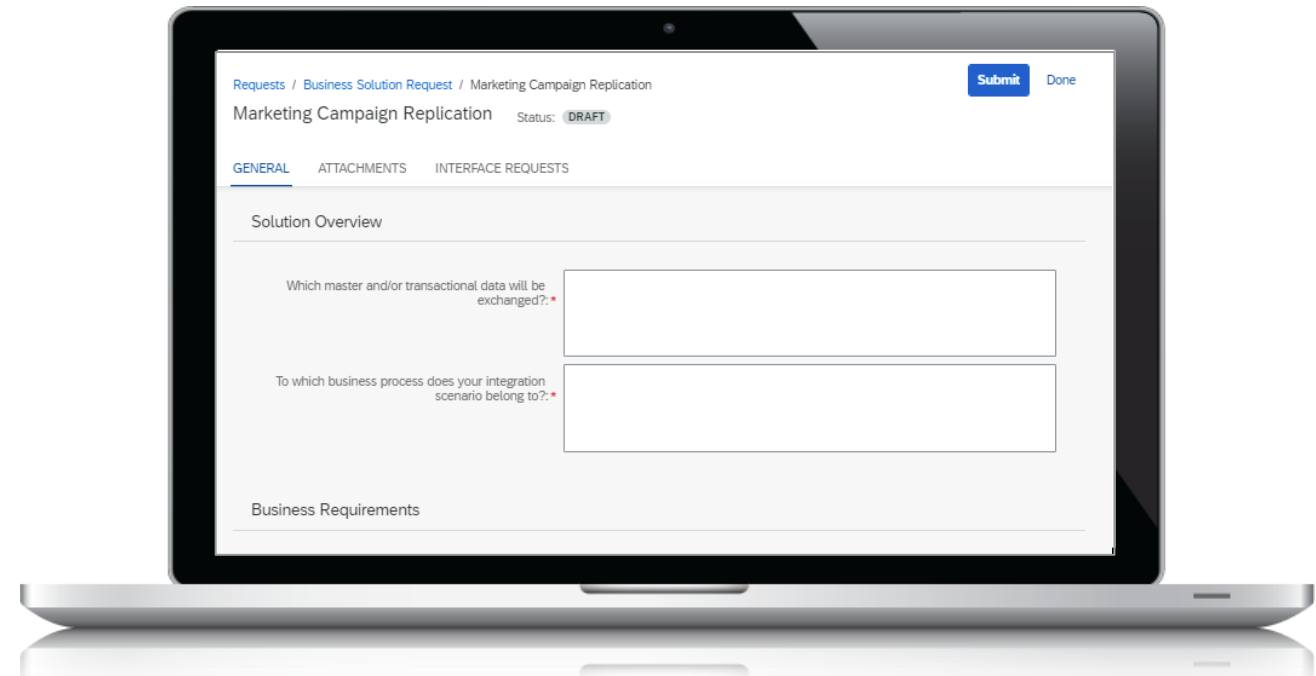


Tasks

- Define high-level requirements for a new integration scenario from a business perspective:
 - Source and target application instance(s)
 - Business process context
- Submit business solution request to an integration developer



**Business
Domain Expert**



Introduce Integration Governance Using the Integration Assessment capability within SAP Integration Suite

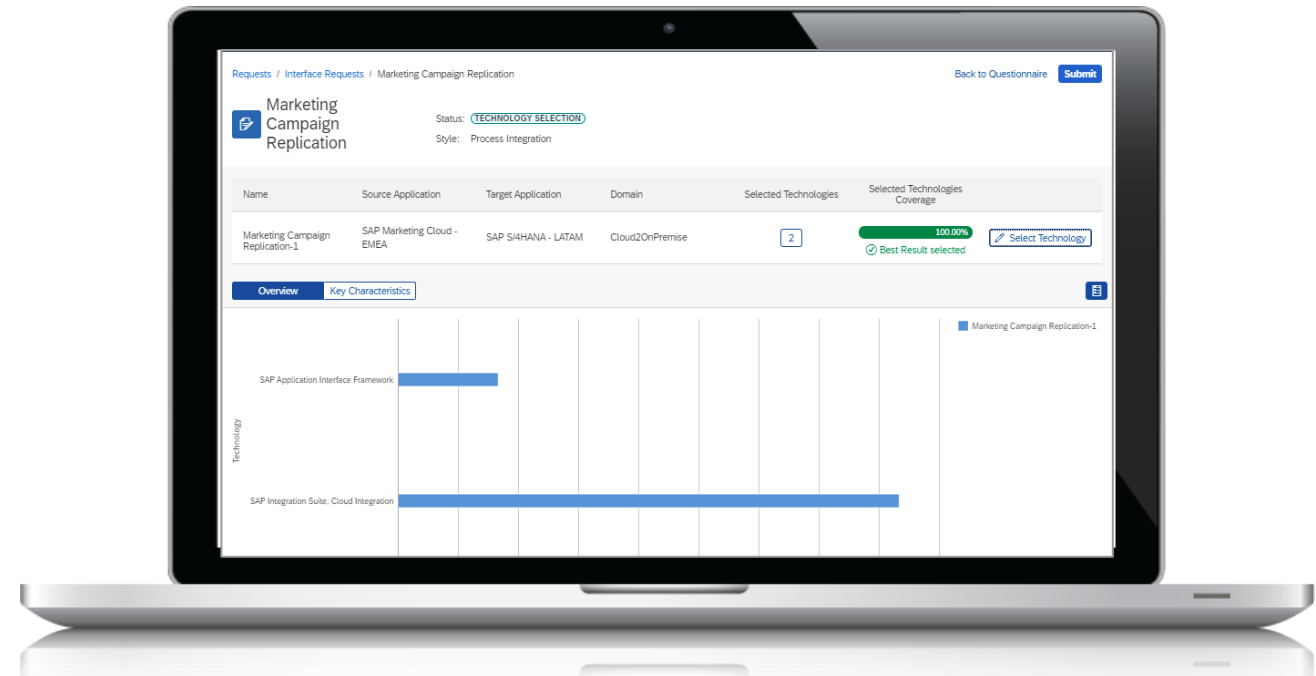


Tasks

- Translate business solution request into technical interface request
- Specify integration requirements from a technical perspective (via customizable questionnaire)
- Get a proposal of the integration technology with the best fit to the specified requirements and decide on the integration technology



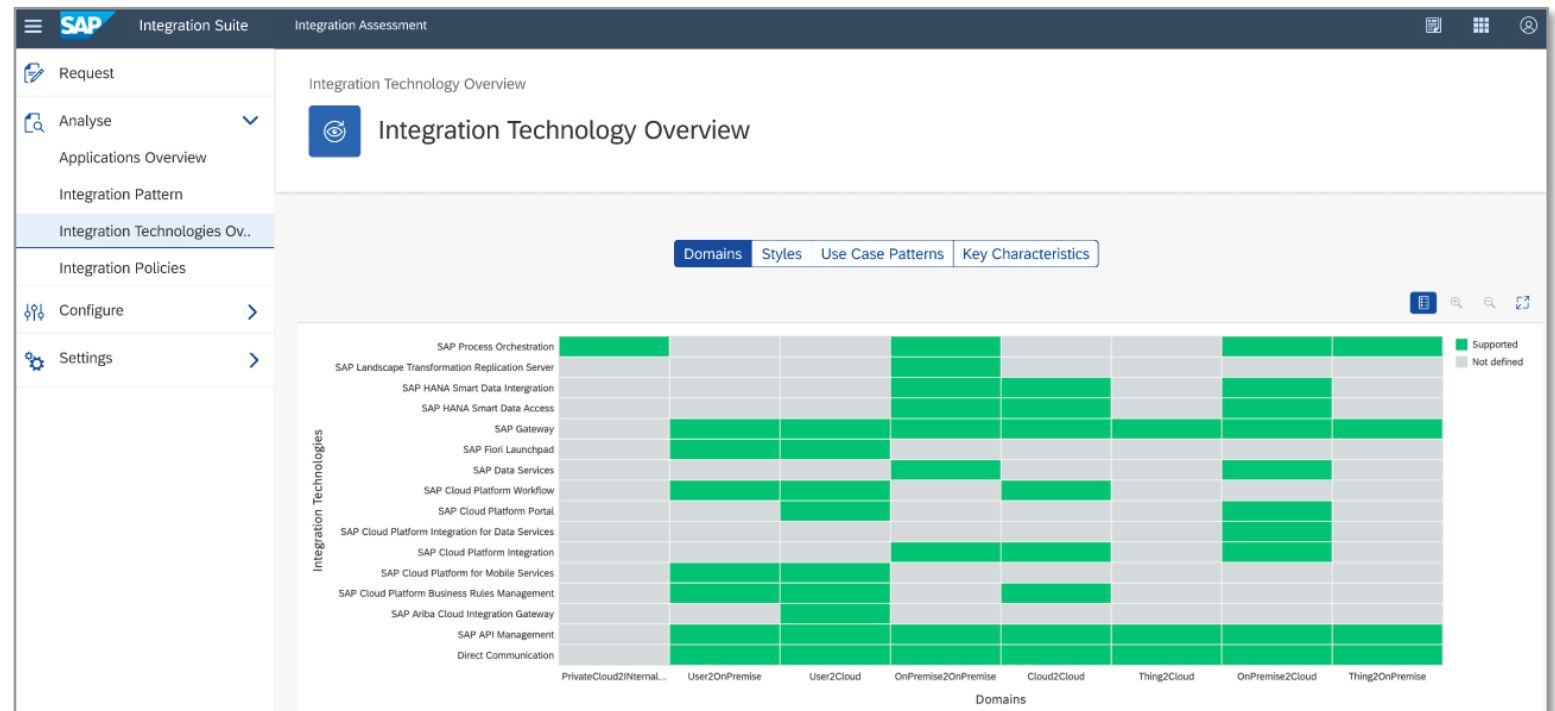
Integration Developer



Gain Insights into Your Integration Landscape

Integration Assessment capability within SAP Integration Suite provides you the answers to the following questions:

- Which technologies are used for integrating a specific application?
- Which integration use case patterns are supported per integration technology?
- Which integration patterns are being used at all?
-



Integration Assessment: Demo



Accelerated Implementation by Educating IT Staff & Standardization

Business benefits realized by Integration Assessment

How to reduce integration implementation timelines?*

1

Educate IT staff about integration solutions

2

Standardize and/or preconfigure solutions and APIs

3

Organize data for mapping and migrations

The top way to cut down on implementation timelines is to possess more advanced internal knowledge of solutions and capabilities

Agenda

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SAP Integration Solution Advisory Methodology

Integration Assessment capability within SAP Integration Suite

Key Take Aways

Q & A

Manage the lifecycle of your integrations from strategy to development

- SAP's integration strategy aims at delivering an end-to-end business processes integration
- SAP Integration Solution Advisory Methodology allows you to define and execute an enterprise integration strategy
- Integration Assessment capability within SAP Integration Suite helps you to turn your enterprise integration strategy into reality



Agenda

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Integration Assessment capability within SAP Integration Suite

Key Take Aways

Q & A

SAP Integration Solution Advisory Methodology

Further information

Start with an overview

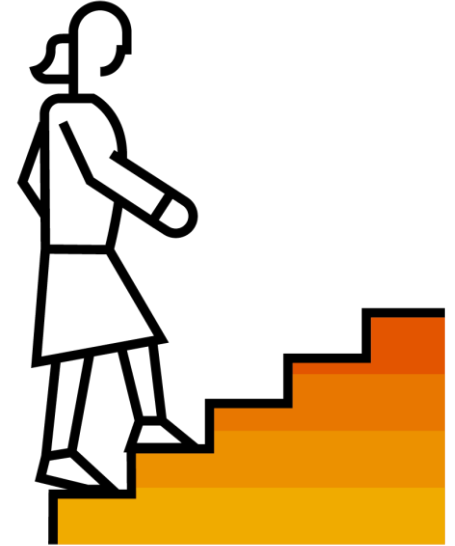
- Whitepaper: [SAP Integration Strategy](#)
- Web page: [SAP Integration Solution Advisory Methodology \(ISA-M\)](#)
- Video: [ISA-M at a glance](#)
- Infographic: [Faster Integration with SAP Business Technology Platform](#)
- Video: [Integration Assessment capability within SAP Integration Suite](#)

Explore the details

- Video: [Enterprise Integration Strategy with SAP Integration Solution Advisory Methodology](#)
- Blog post: [SAP Integration Solution Advisory Methodology available at SAP Help Portal](#)
- Blog post: [Integration Assessment capability within SAP Integration Suite is general available now](#)
- Guide: [Integration Architecture Guide for Cloud and Hybrid Environments based on SAP Integration Solution Advisory Methodology](#)

Learn more and get started

- openSAP course: [SAP Integration Solution Advisory Methodology](#)
- SAP Discovery Center Mission: [Get started with the Integration Assessment capability within SAP Integration Suite](#)
- Documentation: [SAP Integration Solution Advisory Methodology](#), including free templates for download
- Documentation: [Integration Assessment capability within SAP Integration Suite](#)



Thank you.

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