Creating integration content for A2A and B2B Scenarios

Using integration content advisor for SAP Cloud Platform Integration

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THE BEST RUN **SAP**

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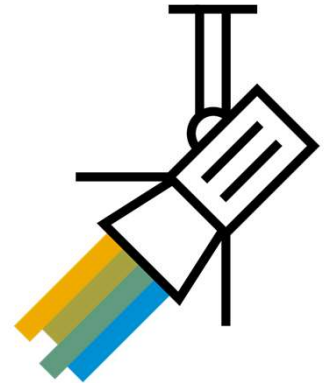
Agenda

Current Situation of Integration Content Building

Integration Content Building by Integration Content Advisor for SAP Cloud
Platform Integration

Future Direction on A2A/B2B Content Building and Maintenance
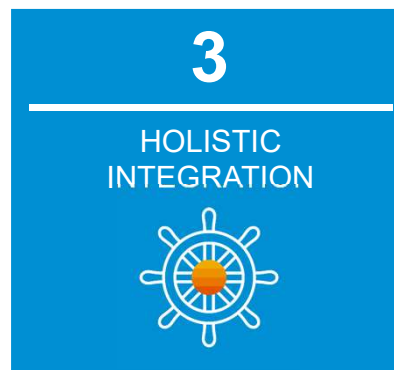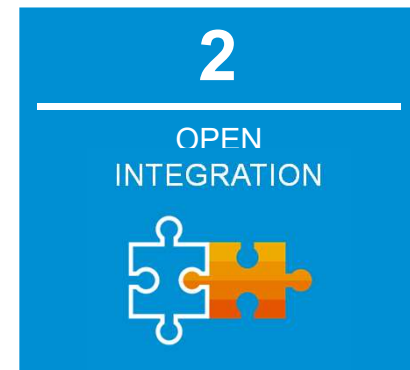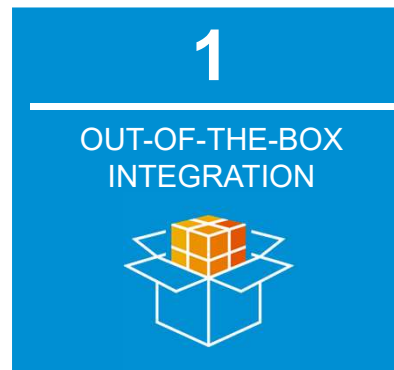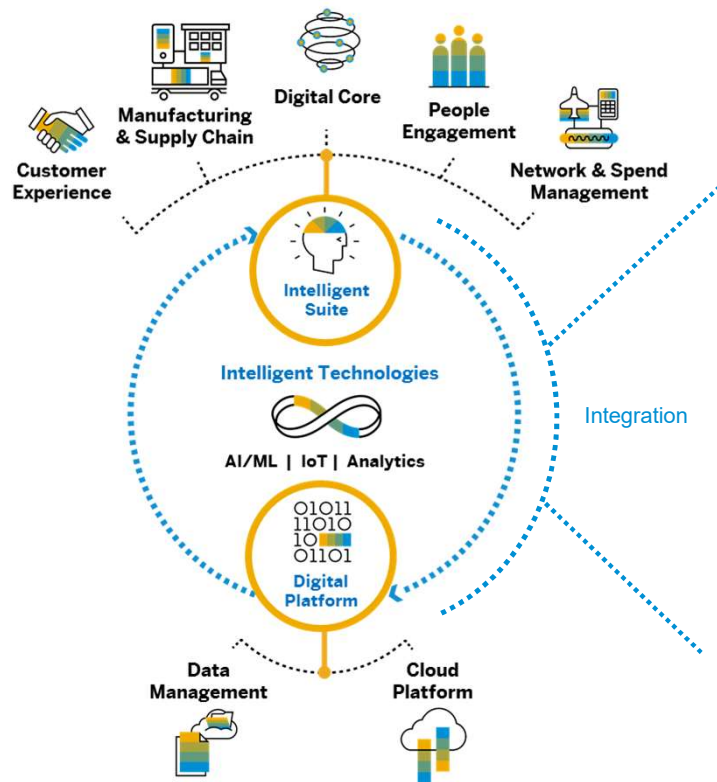
Links for Further Information

Current situation of integration content building

SAP's integration strategy for the Intelligent Enterprise
Key principles

1

OUT-OF-THE-BOX
INTEGRATION

2

OPEN
INTEGRATION

3

HOLISTIC
INTEGRATION

4

AI-DRIVEN
INTEGRATION

What is the common part of SAP's Integration and Orchestration Portfolio?
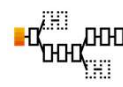
Cloud Platform Integration

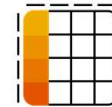Seamlessly Integrate anything, anywhere (A2A/B2B) in real time

API Management

Expose your data and processes as APIs and manage their end to end life cycle

Workflow Service

Expose your data and processes as APIs and manage their end to end life cycle

Business Rules

Manage business logic without development

APIs

Application Interface Framework

Advanced interface monitoring, data validation, and error handling

Internet of Things

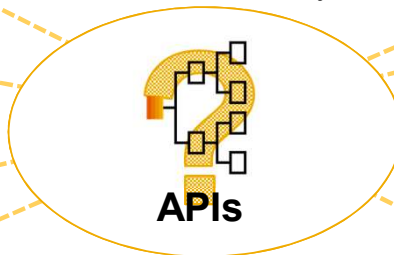Develop, customize and operate IoT business applications in the cloud

API Business Hub

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

Open Connectors

Accelerate connectivity to third-party applications

The issue of APIs in heterogeneous and customer specific landscapes

Intelligent enterprises require very high flexibility to adopt the need of the market,

- Provided APIs have to be individually customized, extended and/or mapped, or
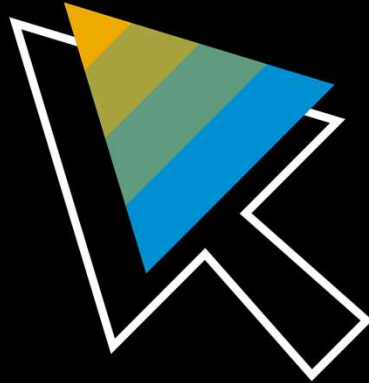- APIs from legacy have to be migrated

Implementation, migration of these APIs

- Is very costly
- Relies on manual intervention
- Leads to static integration flows

This currently involves knowledge contained in silos ➔
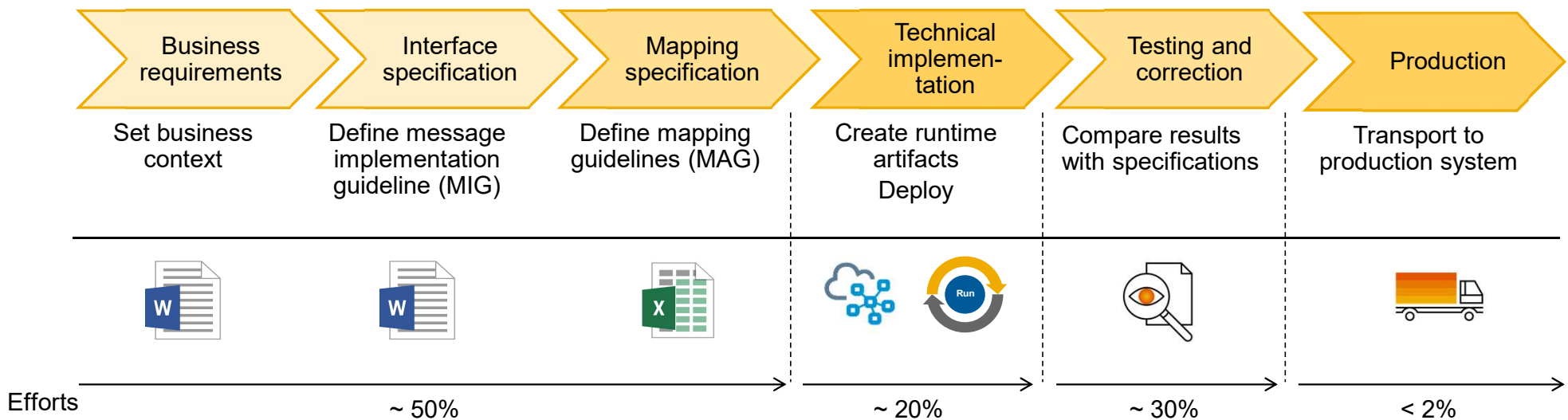In brains of business domain- and integration-experts

Demo

Demo of current situation of building integration content

Current: Typical end-to-end flow for building integration content

Integration is costly because of the many manual steps involved in building integration content.

Business requirements	Interface specification	Mapping specification	Technical implemen- tation	Testing and correction	Production
Set business context	Define message implementation guideline (MIG)	Define mapping guidelines (MAG)	Create runtime artifacts Deploy	Compare results with specifications	Transport to production system

Efforts

~ 50%   ~ 20%   ~ 30%   < 2%

"Only 5% of the interface is a function of the middleware choice. The remaining 95% is a function of application semantics."

Source: Gartner Group

Integration content building by
Integration Content Advisor (ICA)
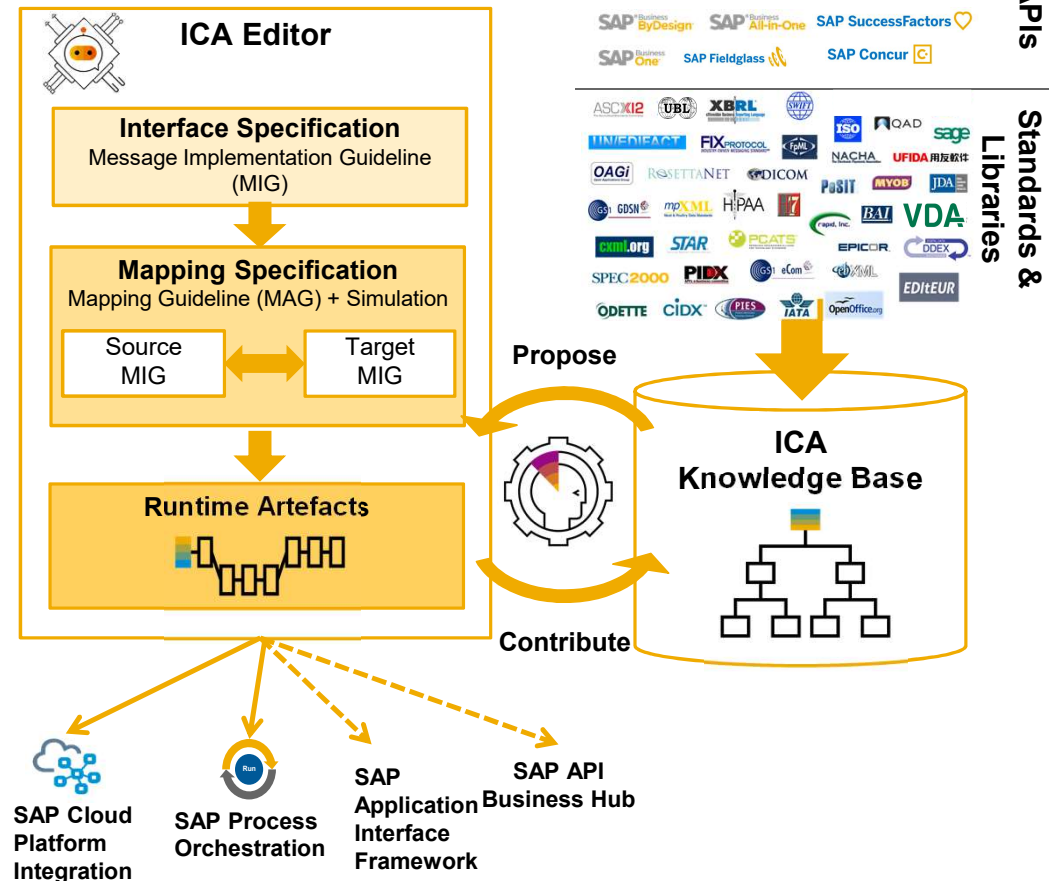**for SAP Cloud Platform Integration**

Seamlessly and intelligently build & maintain integration content:
Integration Content Advisor (ICA)

The Intelligent Content Management System for SAP Integration
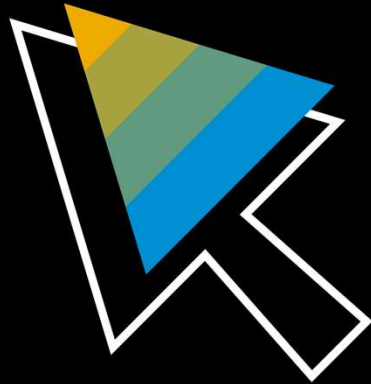
- Provisioning a complete data dictionary for integration (with international and SAP standards)
  - International standards (ASC X12 & UN/EDIFACT) purchased via SAPStore
- Proposal service based on machine learning using crowd sourcing
- Automatic generation of documentation and runtime artifacts for creating an integration flow on SAP Cloud Platform Integration

ICA is part of SAP CPI (Enterprise Edition)

ICA is designed to accelerate every interface implementation, to learn continuously and to reduce efforts by 60% or more.

ICA Editor

Interface Specification
Message Implementation Guideline (MIG)

Mapping Specification
Mapping Guideline (MAG) + Simulation

| Source MIG | Target MIG |

Runtime Artefacts

Propose

ICA Knowledge Base

Contribute

SAP Cloud Platform Integration

SAP Process Orchestration

SAP Application Interface Framework

SAP API Business Hub

APIs

Standards & Libraries

Demo

Of the Integration Content Advisor of SAP Cloud Platform Integration

SAP Future Direction on A2A/B2B
Content Building & Maintenance

Integration Content Advisor – Future Capabilities

Overall:
- Delta comparison
- Faceted search
- Statistical and analytical information

Type Systems
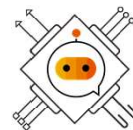- Further A2A and B2B libraries
- Proprietary structures

MIG Editor
- Multi-message Support
- Graphical constraint language
- Complex patterns
- Example payload upload
- Intelligent extension approach
- Calculation/migration of MIGs by importing from
  - Meta-Schemas
  - Payloads

MAG Editor
- Envelope parameters
- Complex pattern mapping
- Source sort tree approach
- Graphical function editor
- Multi mappings across several APIs
- Toggle feature for more readable representation
- MIG editing capabilities
- Calculation/migration of MAGs by importing of mmaps + XSLTs

Tight connection to SAP's Integration and Orchestration Portfolio

Integration Content Advisor

Central and intelligent content management system for creating and maintaining integration content, for

Cloud Platform Integration

- Gets content via automatic push service
- Stores content in Partner Directory
- Enables dynamic invocation of content by integration flows

Process Orchestration

- Supports ICA's integration content
- In hybrid runtime environment starting with version 7.5
- In JAVA based runtime starting with version 7.3

API Business Hub

Q4/19

- Embedded ICA editing capabilities
- Enables direct customization/ extensions of provided APIs

Application Interface Framework

Q4/19

- Gets validation rules, constraints, code value mappings and data conversion rules
- Pushes updates to ICA

Join on the new era of integration content building

The aim is the commodization of integration content knowledge via

- Crowdsourced machine learning
- Collaborative understanding of business meaning

This facilitates for you

- Much higher flexibility
- Much lower cost for implementation
- Much better transparency

From: To:

Don't miss the chance to switch the speed of your integration projects