Introduction to Integration Advisor

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Agenda

Integration Content Building - Current Situation

Integration Advisor’s Approach

Integration Advisor Enablement, Roadmap and Information
Integration Content Building

Current Situation
Reality: Integrate APIs/interfaces in heterogeneous landscapes

Each interface has its own complexity

How to connect all these combinations?
Current Situation: Design Time – Manual and Redundant Work

Functional Specification
- Interface or Message Implementation Guidelines (MIG) for source and target
- Mapping Guideline (MAG)
- Manual hand-over

Technical Implementation & Runtime Artefacts
- Schemas
- Integration tools
- Scripts
- Programming languages
- SAP AIF

Testing & Correction
- Manual comparison of results with functional specification

Deployment
- Middleware (Runtime)
- Backend (Implementation)
- S/4 C/4

Efforts
- 50%
- 15%
- 30%
- 5%
Examples of Guidelines
Technical Implementation: Message Mapping
Integration Advisor’s Approach
The Integration Advisor Approach

Integration Advisor

Functional Specification
- Message Implementation Guidelines (MIG) for source and target
- Mapping Guideline (MAG)

Testing & Correction
- Embedded in guideline editors

Runtime Artefacts
- Schemas
- Scripts
- Programming languages

Technical Implementation & Deployment
- Middleware (Runtime)
- Backend (Implementation)

Integration Knowledge Graph
- Propose
- Contribute

APIs
- S/4 On-Premise
- C/4

Standards & Libraries

Integration Content

Integration experts

Business domain experts

- 60% ~ Savings
- 50%
- 80%
- 30%

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Learning Curve after 50 Contributions

Interface proposal in business context
- Purchase Order
- Wholesaler industry / grocery
- Buyer / seller
- Germany / switzerland

Mapping proposal
- Purchase Order
- Wholesaler industry / grocery
- Buyer / seller
- Germany / switzerland

Accuracy: 85% (F-Measure)

Accuracy: 86% (F-Measure)
Collaborative Learning and Automation

Efforts

Contributions

Time
Key Differentiators of Integration Advisor

One stop shop
- One tool for all phases of A2A/B2B/B2G integration projects
- From functional specification to technical runtime artefacts

Wikipedia like
- All necessary information on single place

Proposal service
- Machine learning using crowd sourced learnings

Business oriented
- Addresses business domain experts

Community collaboration
- Common working on integration content

Future: Automated update service
- Automatic consideration of extensions/modifications in existing integration content

Agnostic
- Independent of runtime and platform technologies

Automatic generation and deployment
- Documentation (PDF, Excel and Word)
- All runtime artifacts for validation, conversion, transformation, pre-/post-processing and mapping
Integration Advisor @ S/4HANA + Demo
SAP S/4HANA
EDI subsystem and business partners

SAP customer

Outbound/ inbound APIs

B2B via SAP Cloud Platform Integration

SAP Cloud Platform
Integration

Prepackaged integration flows
Community and marketplace
Integration Content Advisor

Multilevel security

Business partners

Suppliers
Customers
3rd party shipping companies
3rd party warehouse provider
Banks
Customs
Public authorities

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SAP S/4HANA Cloud – Sourcing and procurement, finance and sales
Communication between SAP S/4HANA Cloud procurement and EDI suppliers

1.) Content will be available in ICA as proposals, in all available versions; This is the current state of planning and may be changed by SAP at any time without notice.
SAP S/4HANA Cloud – Sourcing and procurement, finance and sales
Communication between EDI buyers and SAP S/4HANA Cloud sales

ASC X12\(^1\)^/ UN/EDIFACT\(^1\)^/ SAP IDoc\(^1\)^

PO Create: 850/ORDERS/ORDERS.ORDERS05
PO Change/Cancel: 860/ORDCHG/ORDCHG.ORDERS05
Order Confirmation: 855/ORDRSP/ORDRSP.ORDERS05
Advance Ship Notice: 856/SHPMNT/SHPMNT.SHPMNT05
Supplier Invoice: 810/INVOIC/INVOIC.INVOIC02
Payment / Remittance Adv.: 820/REMAADV/REMAADV.PEXR2002

SAP Cloud Platform Integration + Integration Content Advisor

SOAP API\(^1\)^

SO Create, SO Change & SO Cancel
Order Confirmation
Advance Ship Notice
Sales Invoice
Remittance Advice / Cancellation

SAP S/4HANA Cloud
Sales Order
Outbound Delivery
Stock
Customer Invoice
Remittance

1.) Content will be available in ICA as proposals, in all available versions; This is the current state of planning and may be changed by SAP at any time without notice.
Activities for S/4 HANA Cloud

OpenSAP Course for Integration Advisor @ S/4 HANA Cloud – November 18th

Demo Scenarios

Pre-trained Content for mentioned scenarios

We need you for enablement and collaboration
Integration Advisor Enablement
# SAP Cloud Platform Integration Advisor

## Product road map overview 2020

<table>
<thead>
<tr>
<th>Recent innovations</th>
<th>Planned Q2/2020¹</th>
<th>Planned Q3/2020¹</th>
<th>Planned Q4/2020¹</th>
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<tbody>
<tr>
<td><strong>Type systems</strong></td>
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<tr>
<td>▪ Import customer message types (with extensions) based on xsd</td>
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<td>▪ EANCOM</td>
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<td><strong>MIG editor</strong></td>
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<td>▪ MIG based on custom message</td>
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<td><strong>MAG editor</strong></td>
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<td>▪ Simulation of mapping based on user payload</td>
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<td>▪ Global parameters</td>
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<td><strong>Runtime artifacts</strong></td>
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<td>▪ Integration flow templates for Cloud Integration at SAP API Business Hub</td>
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<td><strong>Type systems</strong></td>
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<td>▪ New versions of EDIFACT</td>
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<td><strong>MIG editor</strong></td>
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<td>▪ Documentation export via Excel</td>
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<td>▪ MIG creation based on payload instances for supported type systems</td>
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<td><strong>MAG editor</strong></td>
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<td>▪ Documentation export via Excel</td>
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<td>▪ String processing</td>
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<td><strong>Runtime artifacts</strong></td>
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<td>▪ Push mapping and validation artifacts to Cloud Integration flows</td>
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<td><strong>Cloud platform environment support</strong></td>
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<td>▪ Availability on AWS and Microsoft Azure</td>
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<td><strong>Type systems</strong></td>
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<td>▪ ODETTE, ODETTE EDIFACT</td>
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<td>▪ New versions of ASC X12, cXML</td>
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<td><strong>MIG editor</strong></td>
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<td>▪ Migrate to other type system version</td>
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<td>▪ Display property changes</td>
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<td>▪ Multi-value qualification</td>
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<td><strong>MAG editor</strong></td>
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<td>▪ Date/time conversion</td>
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<td>▪ Mapping of leaf node to group node</td>
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<td><strong>Cloud platform environment support</strong></td>
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<td>▪ Availability on Alibaba Cloud</td>
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<td><strong>Type systems</strong></td>
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<td>▪ VDA EDIFACT</td>
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<td>▪ SAP Fieldglass, SAP Concur</td>
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<td><strong>Cloud platform environment support</strong></td>
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<td>▪ Availability on AWS GovCloud (US)</td>
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<td><strong>Future features beyond Q4</strong></td>
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<td><strong>Type systems</strong></td>
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<td>▪ SAP SuccessFactors, Hybris</td>
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<td>▪ VDA, TRADACOMS, GS1 XML, UBL, ISO20022, OAGIS</td>
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<td><strong>MIG editor</strong></td>
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<td>▪ Reference MIG</td>
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<td>▪ Reusable customer code lists</td>
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<td><strong>MAG editor</strong></td>
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<td>▪ Reordering of message nodes</td>
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<td>▪ Reusable functions</td>
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<td>▪ Extended mapping proposals</td>
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<td><strong>Runtime artifacts</strong></td>
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<tr>
<td>▪ Integration flow templates configured via partner directory</td>
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Customer Engagement Initiative (CEI)

Upcoming TPM@Cloud CEI in June 2020

- Get early insight into the newly planned and innovative Cloud based Trading Partner Management System
  - For setting up and maintaining B2B connections with trading partners
  - Using Integration Advisor

- Invite your customers, because they can
  - Provide their requirements
  - Influence development
  - Closely work with SAP product teams

- Network with peers around the Trading Partner Management System using IA

Interest, please contact

- Marton Luptak (Solution Management IA & B2B): marco.ertel@sap.com
- Marco Ertel (Product Management IA & B2B): marton.luptak@sap.com
1. **Feature Request: Type System Viewer** - The library of type systems is a collection of message templates that are provided by agencies that maintain the B2B standards.

2. **Feature Request: MIG Editor** - Message implementation guideline, also referred to as MIG, is used as the source or target in a mapping guideline (MAG) of SAP Cloud Platform Integration Advisor.

3. **Feature Request: MAG Editor** - A mapping guideline is the runtime artifact that you use in the mapping step of an integration application like SAP Cloud Platform Integration.

4. **Feature Request: Others**

5. **Content Request: Type System** - To include any Library of Type Systems or API's.

6. **Merged with Integration Suite**
Where to find more information

Learn more about SAP Cloud Platform Integration Advisor

- Getting started at
  Official page of SAP Cloud Platform Integration Advisor
  SAP Help Portal
- Series of blogs at SDN:

Learn more about SAP Cloud Platform Integration Suite

- Get started by learning about SAP Cloud Platform Integration Suite at
  https://cloudplatform.sap.com/integration.html
- Upcoming Open SAP course starting on September 1st, 2020 also covering Integration Advisor
  https://open.sap.com/
- Use the SAP Learning Journeys to increase your knowledge level at
  SAP Cloud Platform Integration basics

Participate in the SAP Community

- Follow the blogs and join the discussions at
  https://www.sap.com/community/topics/cloud-integration.html

Explore the SAP API Business Hub

- Jump start your integration projects with prepackaged integration content from
  https://api.sap.com/
Thank you.

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