Creating integration content for A2A and B2B Scenarios

Using integration content advisor for SAP Cloud Platform Integration

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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

**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

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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 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.

![Diagram showing the typical end-to-end flow for building integration content.

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

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

**Application Interface Framework**
- 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

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