

<whitepaper/>

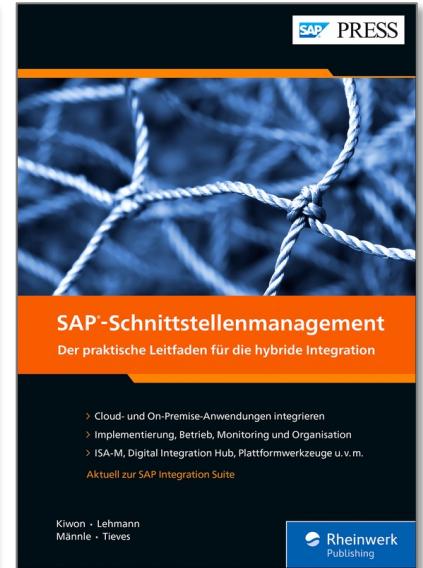
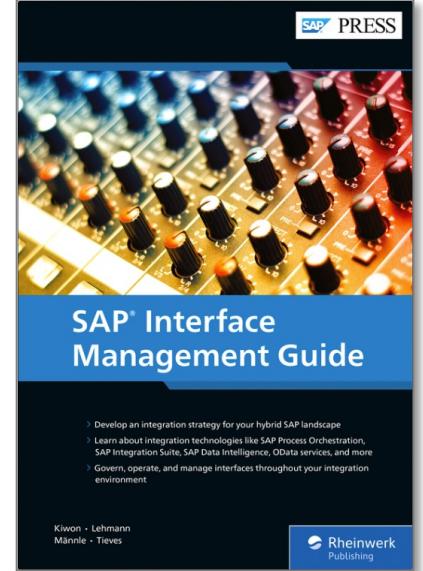
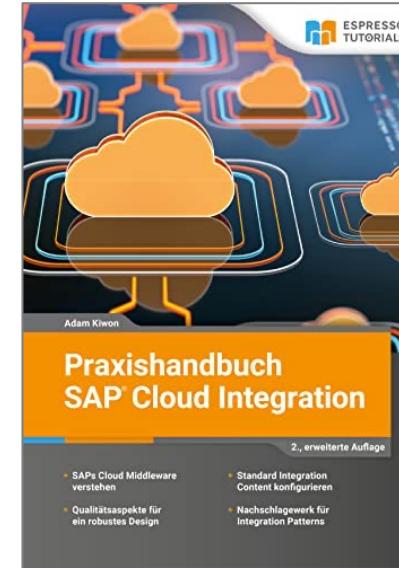
InterfaceDesign

SAP Schnittstellenmanagement & Integration Excellence
BTPcon

Adam Kiwon | Managing Director | whitepaper.id GmbH | 13. April 2022

Adam Kiwon

- > 46 J., verheiratet, 2 Jungs
- > Ex-SAP (2000-2009)
- > Gelegentlich SAP-Trainer (CLD900)
- > Fachbuchautor
- > Gründer [whitepaper.id](#) (2014)
- > Kontakt:



whitepaper.id - Portfolio

SAP Middleware Experten

SAP Process Orchestration, SAP Integration Suite, Business Technology Platform, Workflow Cloud Integration, API Management, Process Integration, SAP Backend Integration (S/4HANA)

Services (SAP Integration)

Consulting

Architektur, Methodik, Coaching, Training

Products (Integration Layer)

Interface Management

Transparenz, Steuerung, Qualität

whitepaper.id unterstützt Unternehmen dabei, **Integration Excellence** zu erreichen.



SAP® Certified
Integration with Cloud Solutions

SAP Certified
Powered by SAP NetWeaver



<whitepaper/>
InterfaceDesign

INTEGRATION EXCELLENCE

Eine Integration Excellence im Enterprise Integration Umfeld erfordert eine sorgfältige Planung, Implementierung und Überwachung von Integrationsprojekten. Dies kann den Einsatz von Integrationstechnologien wie Enterprise Service Bus (ESB), API-Management und Cloud-Integration umfassen.

Zusätzlich zur technischen Integration muss Integration Excellence im Enterprise Integration Umfeld auch die Zusammenarbeit zwischen verschiedenen Geschäftsbereichen und Teams berücksichtigen. Eine gute Zusammenarbeit kann dazu beitragen, Silos aufzubrechen, die Effizienz zu steigern und die Kundenzufriedenheit zu verbessern.

Die Vorteile von Integration Excellence im Enterprise Integration Umfeld können eine

WAS

- gute Schnittstellen bauen
- organisieren
- überwachen

WARUM

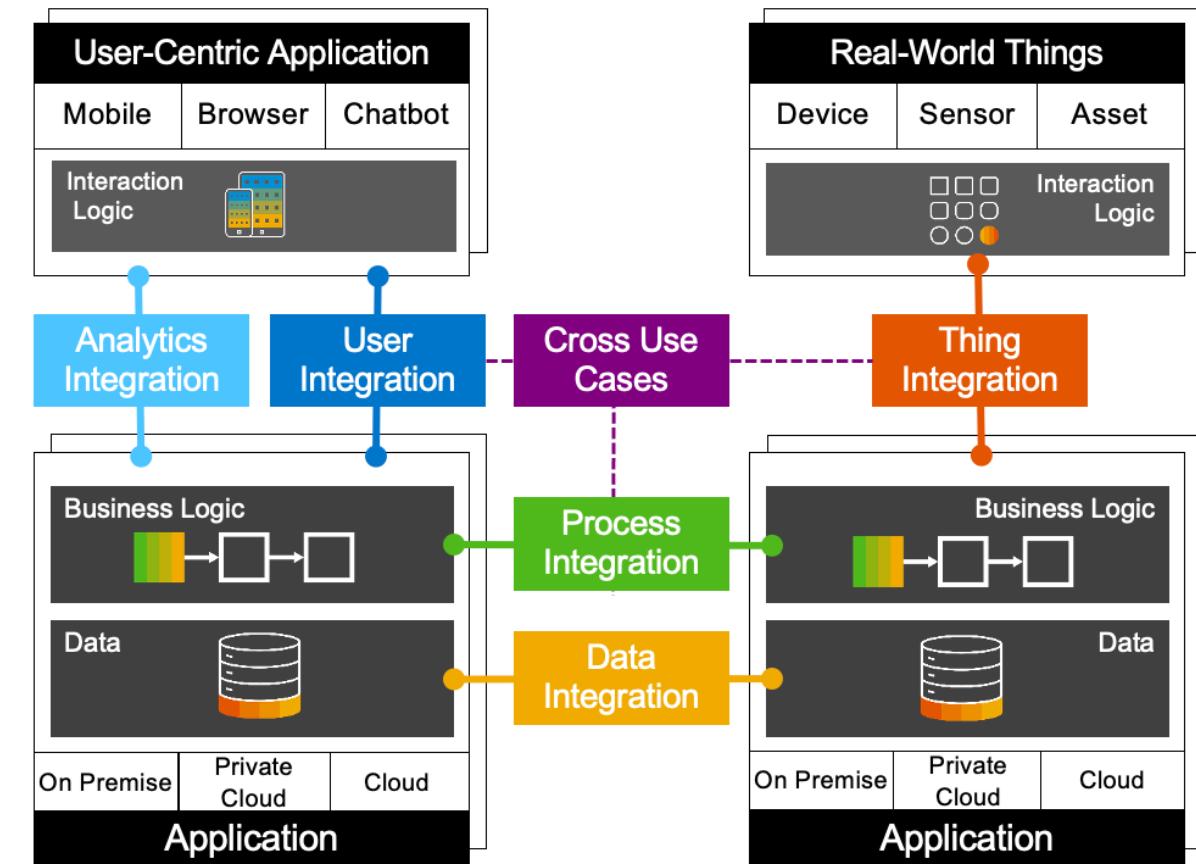
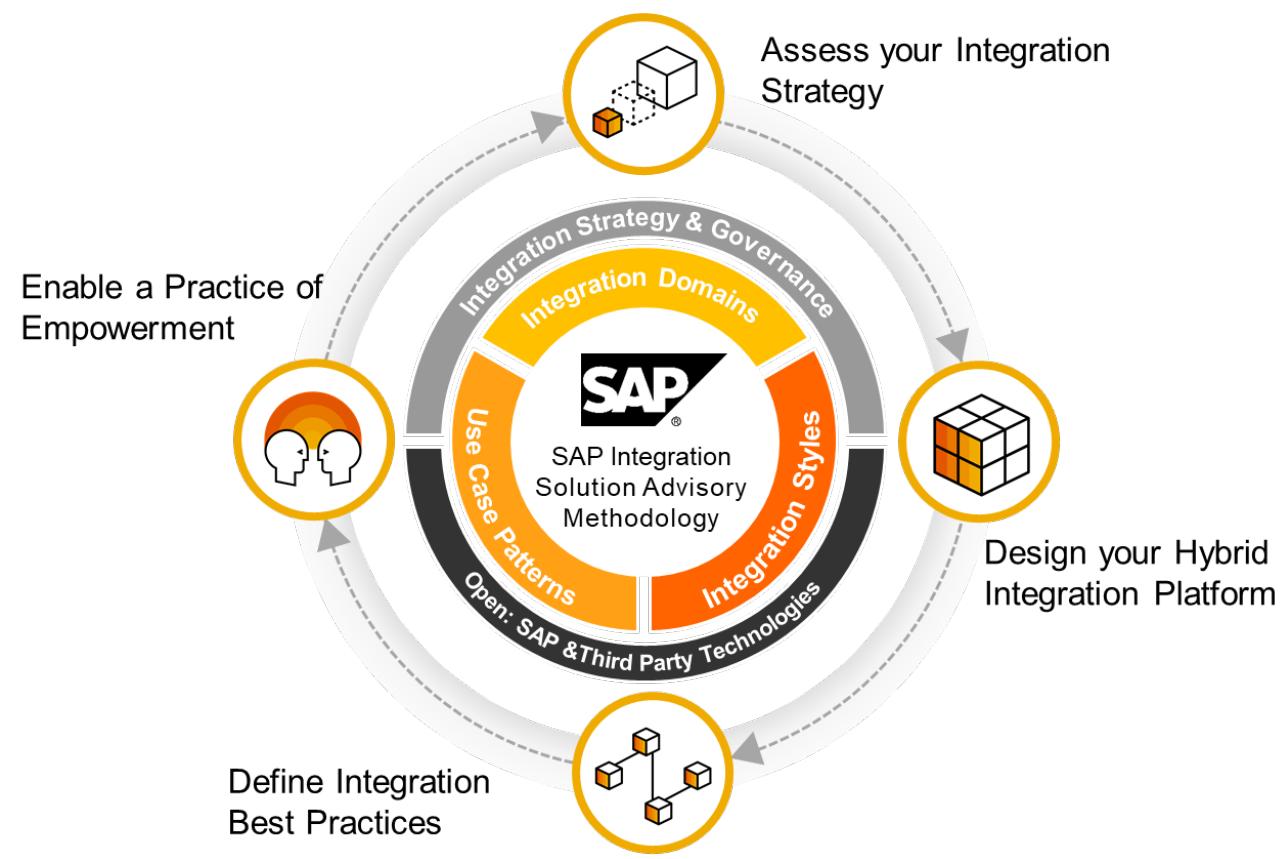
- Qualität => Ausfallsicherheit erhöhen
- komplexe IT-Landschaften besser beherrschen
- Compliance, Security & Flexibilität
- Fehler schnell finden und beheben

WIE

- Organisation
- Governance
- Transparenz
- Steuerung

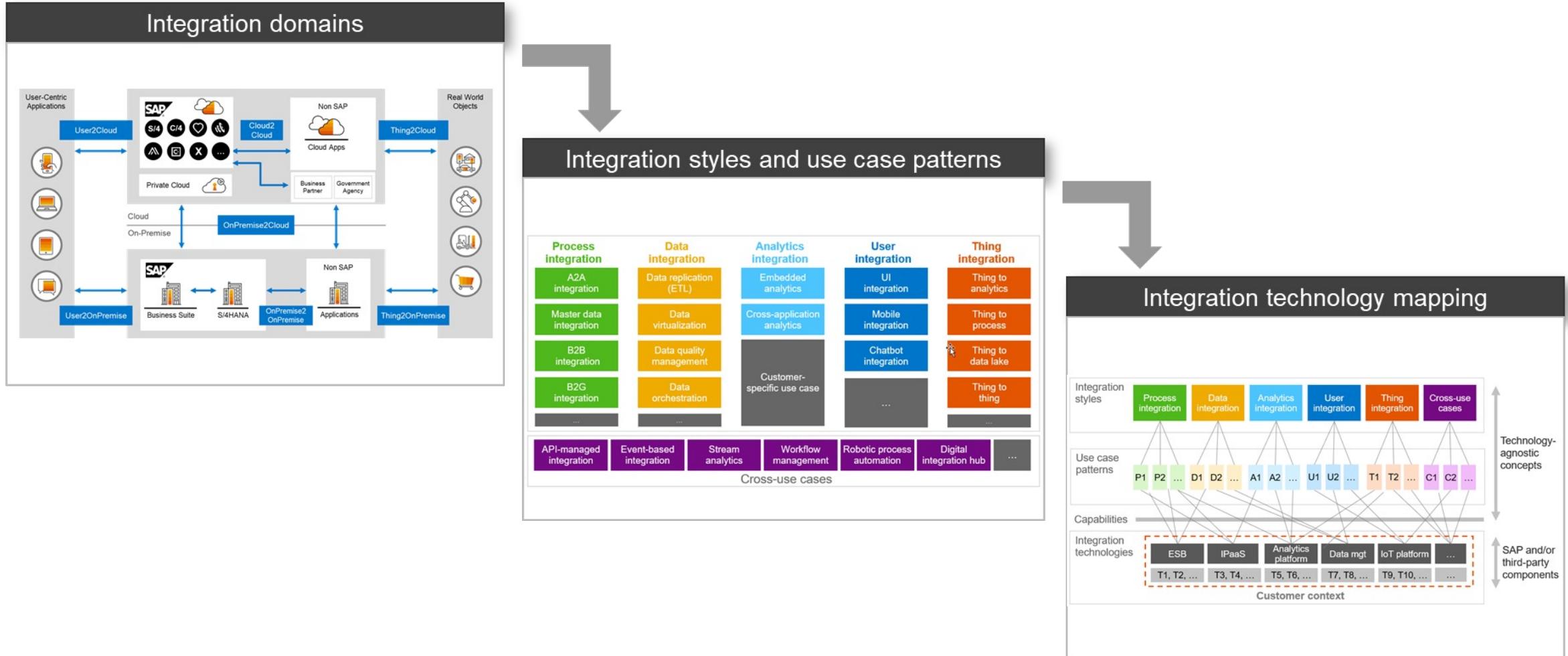
SAP Integration Solution Advisory Methodology

ISA-M



SAP Integration Solution Advisory Methodology

ISA-M



INTEGRATION EXCELLENCE

WIE

- Organisation
- Governance
- Transparenz
- Steuerung

> Organisation

- > Die Bedeutung von Integration ist erkannt und als Thema adressiert (als separater Bereich/Team), z.B. als Integration Center of Excellence
- > Enge Kooperation mit den Fachbereichen (Business) und anderen IT-Teams
 - > Enterprise Architecture
 - > Development
 - > Operations
- > Die Rollen bzgl. Integration sind geklärt
 - > intern/extern
 - > Integrations-Experten (Architect, Developer)
 - > Citizen Developer

Integration Center of Excellence

ISA-M

Integration Strategy
Definition | Execution

Hybrid Integration Platform
Design | Implementation

Integration Best Practices
Definition | Adoption

Virtual Integration Community



Integration Coaching

Enablement | Governance | Proof of Concepts

Integration Developer



Citizen Integrator



API / Application Developer



Self-service integration based on well-defined standards



Explanation

Support an agile and decentralized integration development approach by shifting from a traditional Integration Competence Center towards Integration Center of Excellence. An ICoE is responsible for applying ISA-M at an organization which also includes integration coaching of a virtual integration community.

Source and further Information: [Integration as a Strategic Imperative – Part 4: Integration Democratization](#)

INTEGRATION EXCELLENCE

WIE

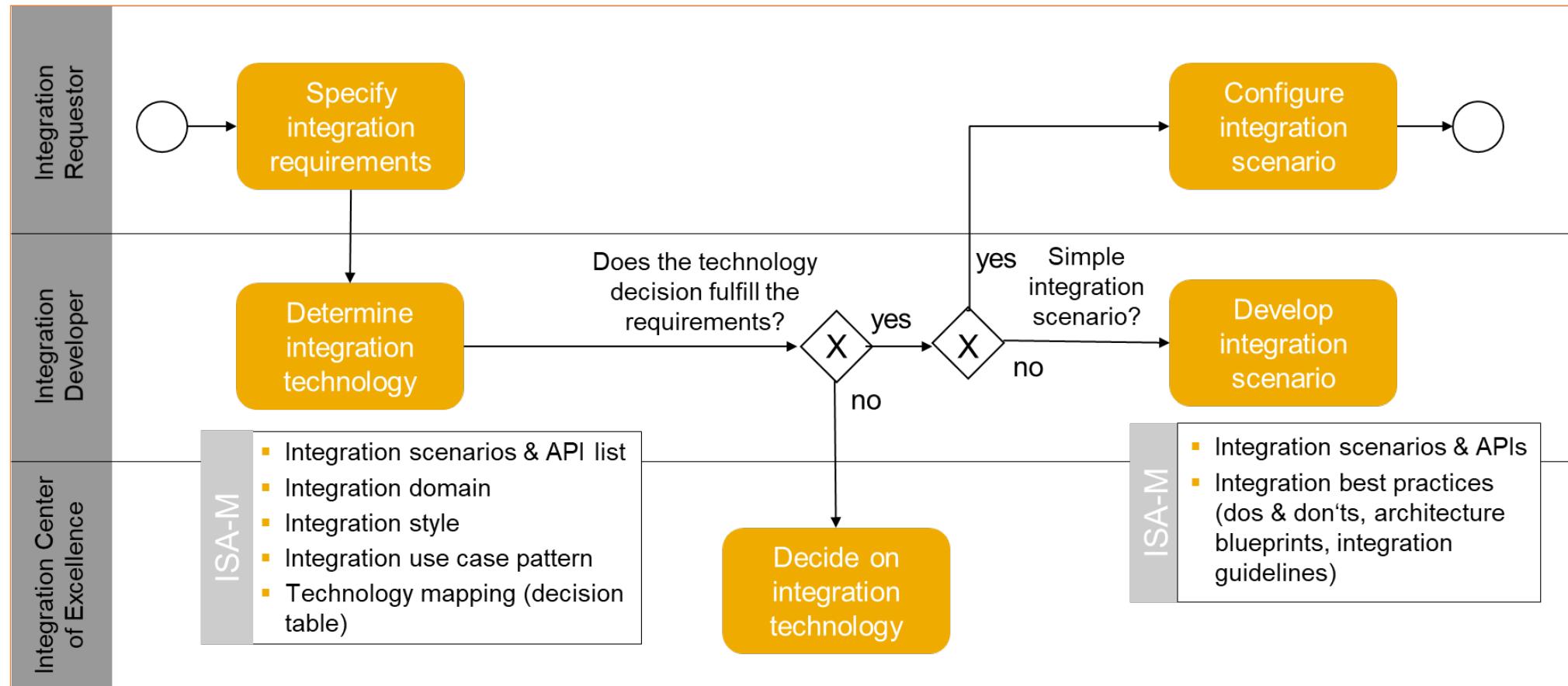
- Organisation
- Governance
- Transparenz
- Steuerung

> Governance

- > Definierte Prozesse (Integration Demand)
 - > Integrationsstrategie
 - > Anforderung
 - > Technologieauswahl
- > Integration Design Guidelines & Quality Gates
 - > Security (Messaging & User)
 - > Test Management
 - > Transport Management

Integration Governance

ISA-M



*Simplified sample process definition



Explanation

You can also leverage accelerators of ISA-M along a governance process for integration developments. Integration developers can identify the right integration technology and approach leveraging integration best practices of ISA-M. If no existing integration technology can fulfill the requirements, the developer can consult the Integration Center of Excellence.

SAP

Integration Suite

Kafka

Confluent

MS Azure

Integration Services

Mulesoft

???

A2A

B2B

B2G

Events

Files

Streaming

???

Cloud

APIs

Databases

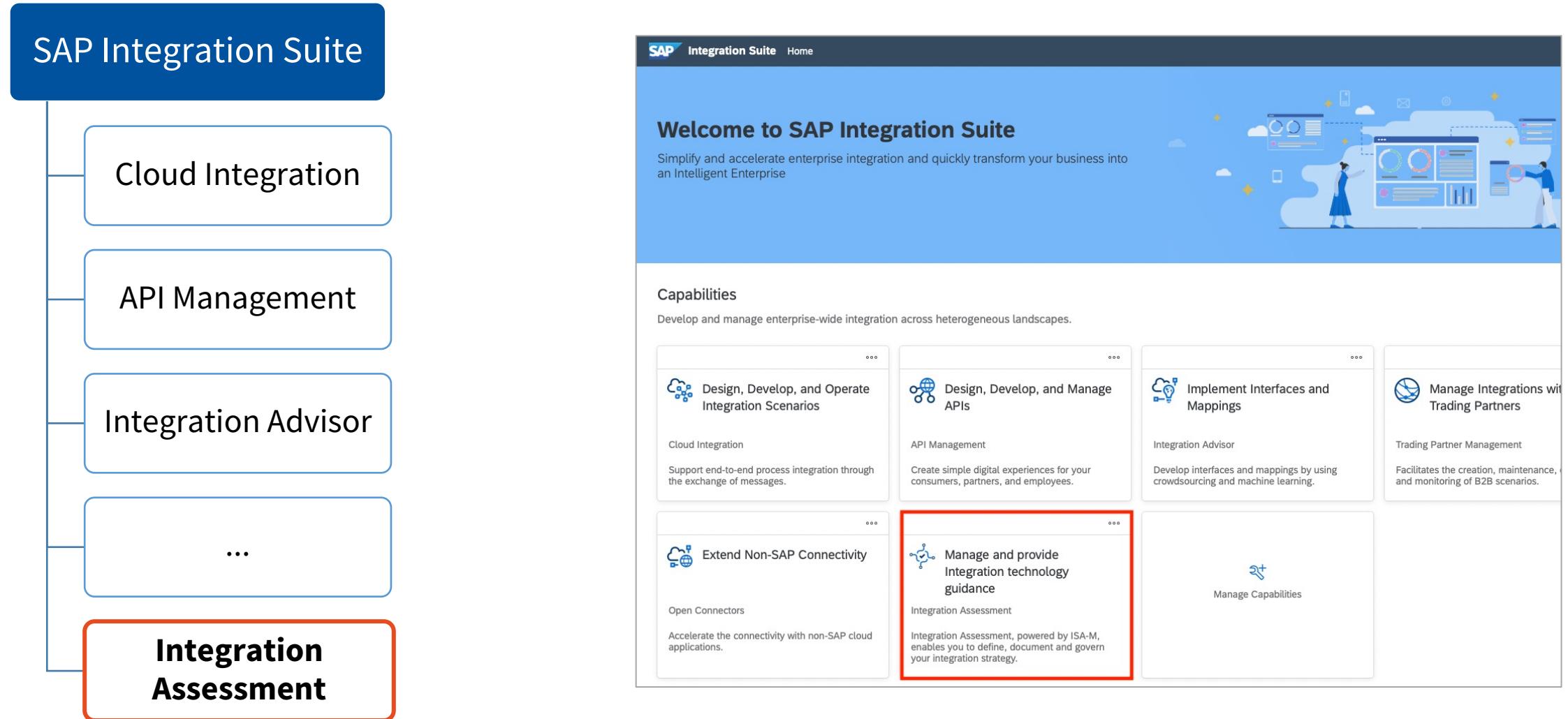
IDocs

Domains

OnPremise

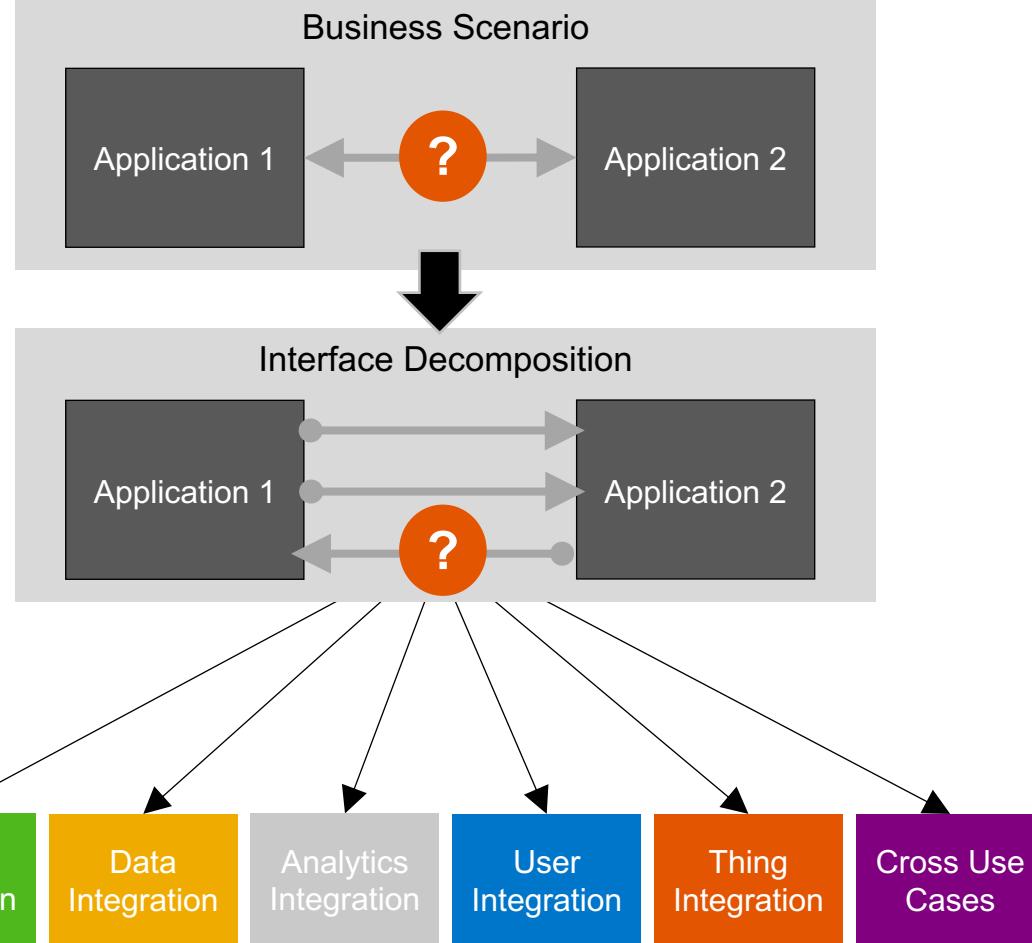
Technologieauswahl

Integration Assessment: Technologieauswahl



Integration Assessment

ISA-M



How To Use

A typical task in implementation projects is to blueprint integration scenarios between two applications. Typically, a business scenario is decomposed into technical interfaces.

Next, each technical interface needs to be classified / assessed whether it is a process-, data-, analytics-, user- or thing-centric integration style. Based on the specific characteristics, the appropriate integration technology/service needs to be selected.

ISA-M supports the classification of interfaces that will be shown on the next slides: in this example a business scenario is decomposed into three technical interfaces: Data Replication, A2A Integration, Mobile Integration.

Anforderung > Bewertung > Empfehlung

SAP Integration Suite Integration Assessment

Requests

Description: Business solution requests and interface requests represent focuses on the business or project perspective, an interface request represents the technical perspective.

Business Solution Request **Interface Request**

Integration Technologies Overview

Description: Integration technologies describe the capability coverage and usage of middleware components. Using integration technologies, you can customize existing technology profiles or create new integration technology as per your organizational needs.

Domains **Styles** **Key Characteristics**

Quotation Order Return Process Replication

Status: COMPLETED
Style: Process Integration

Name	Source Application	Target Application	Domain	Selected Technologies	Selected Technologies Coverage
Quotation Order Return Process Replication-1	SAP S/4HANA - S/4HANA OP	SAP Marketing Cloud - Marketing	Cloud2OnPremise	2	100.00% <input checked="" type="checkbox"/> Best Result selected

Technology

SAP Application Interface Framework
SAP Integration Suite, Cloud Integration

0 10 20 30 40 50 60

Quotation Order Return Process Replication-1

Technology	Not a Fit	Good Fit	Partial Fit	Not Recommended	Not Defined
Mulesoft AnyPoint				Red	
SAP Application Interface Framework				Green	
SAP Ariba Cloud Integration Gateway				Green	
SAP Cloud Integration for data services	Gray			Orange	
SAP Data Intelligence		Green		Orange	
SAP Data Intelligence Cloud		Green		Orange	
SAP Data Services			Orange		
SAP Event Mesh			Gray		
SAP HANA Smart Data Access (cloud)	Green		Orange		
HANA Smart Data Access (on premise)					
SAP HANA Smart Data Integration		Green			
SAP HANA Smart Data Quality			Orange		
SAP HANA Streaming Analytics		Green			
SAP Information Steward	Gray		Orange		
SAP Integration Suite, API Management		Green	Orange		

<whitepaper/>
InterfaceDesign

Projekt-Erkenntnisse Integration Assessment

> Erweiterung SAP-Content

- > Technologien: Mulesoft, Kafka, Denodo, AWS
- > Domänen: CL<->CL, OP<->OP, CL->OP, OP->CL
- > Kriterien: Integration Logic, Coupling, Trigger, Data Handling, ...
- > Terminologie/Verständnis von Integration immer wieder unterschiedlich

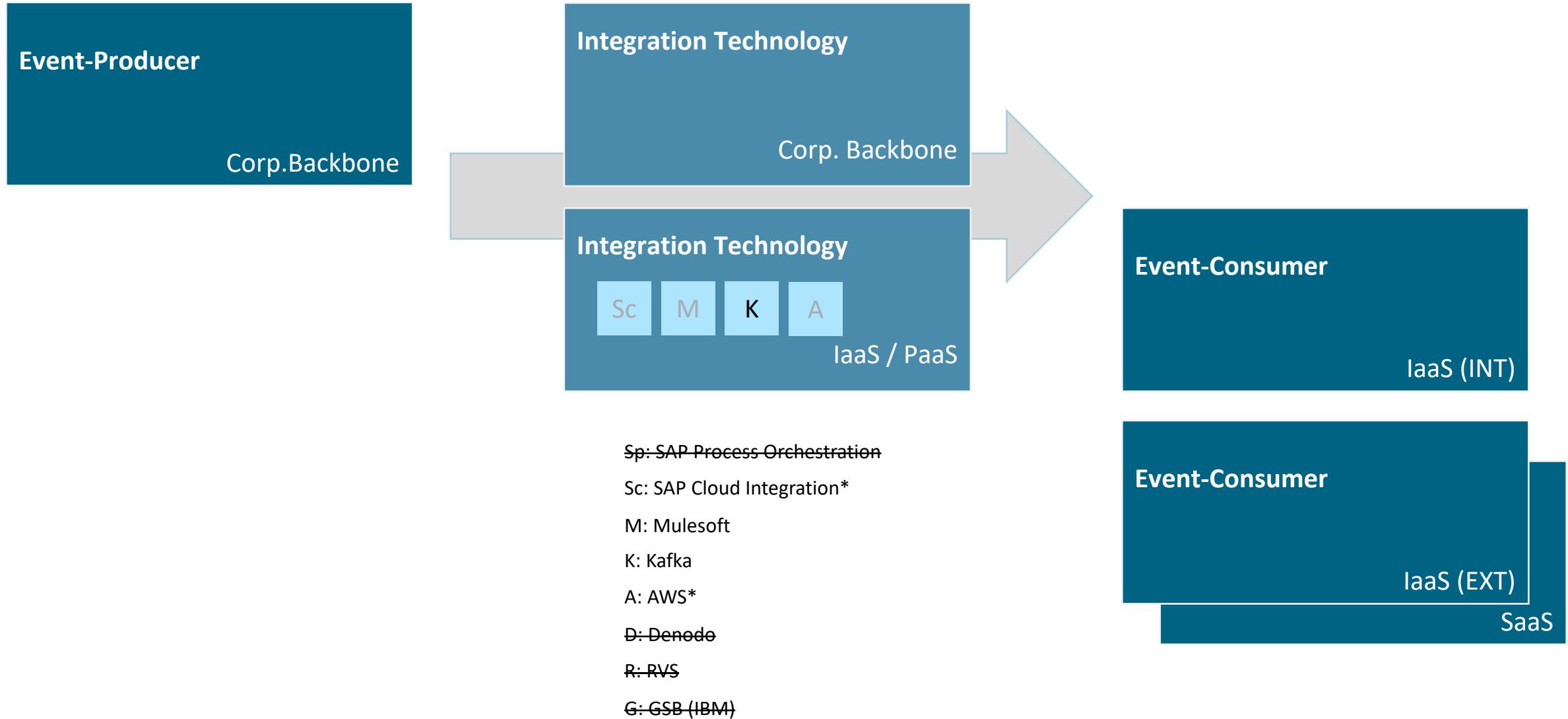
> Erfassung der Requests durch Experten erforderlich

- > Technische Expertise: Anforderer muss geführt und beraten werden

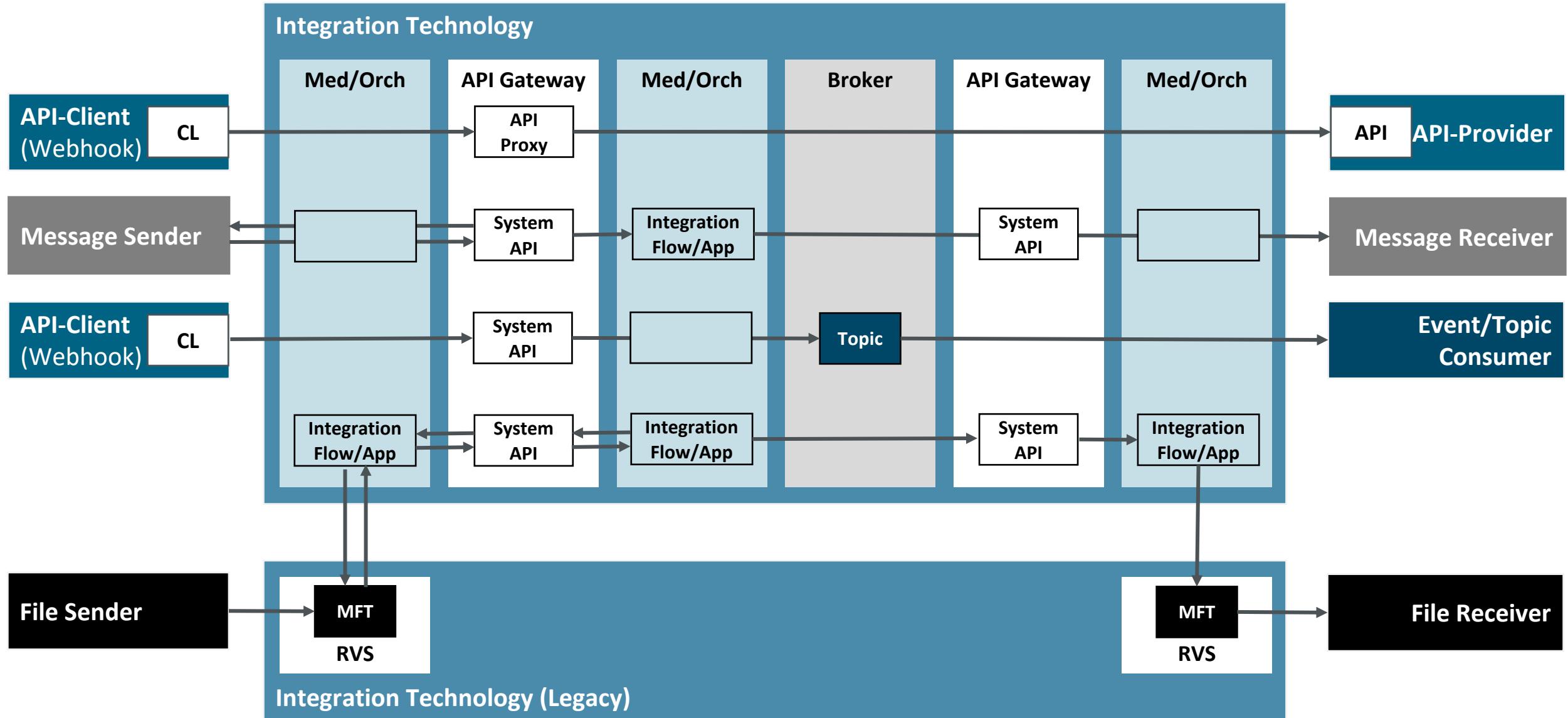
> Ergebnis

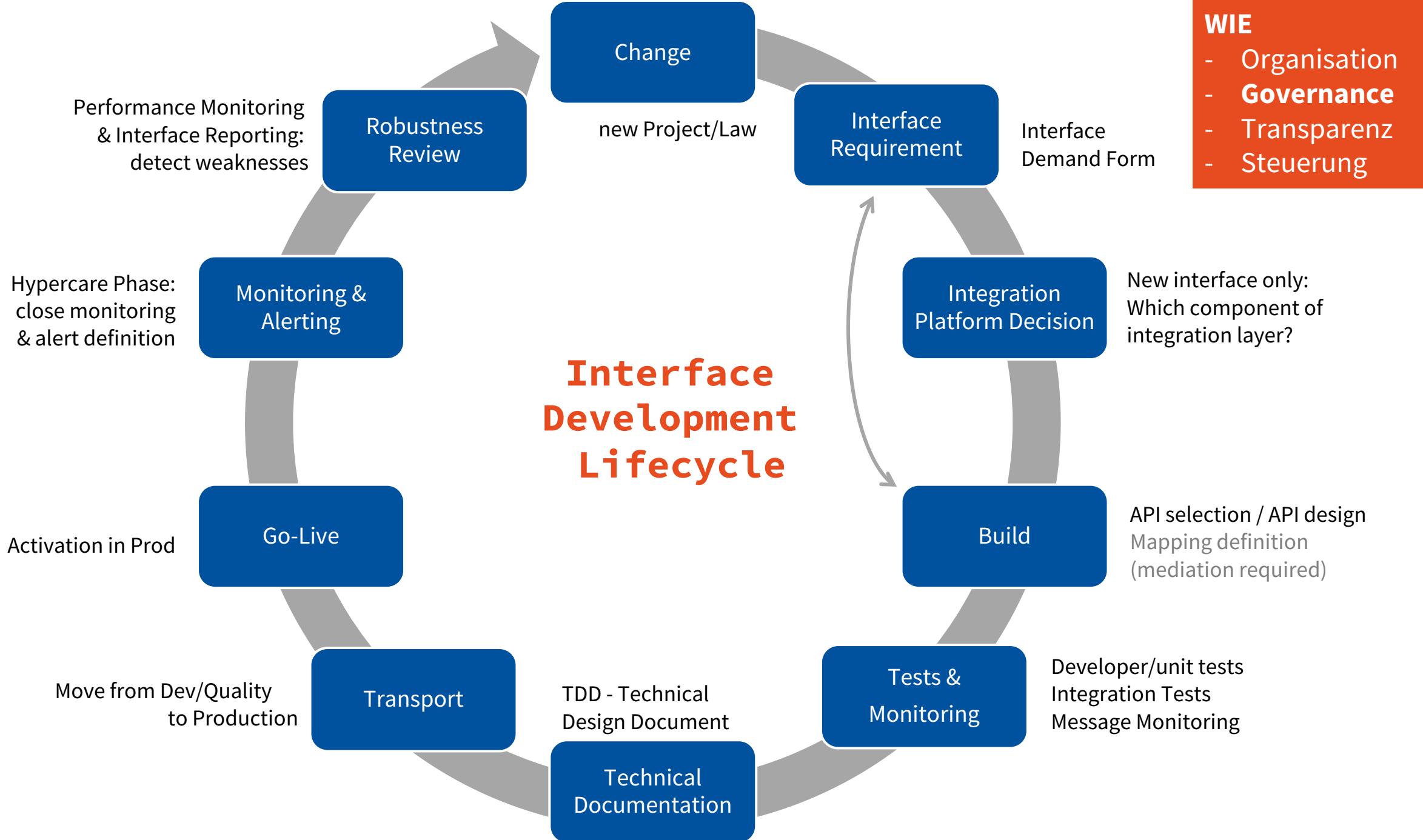
- > lässt Spielraum für finale Entscheidung
- > zusätzlich Architektur-Patterns erforderlich (pro Integration Use Case)
- > Ergebnis-Dokumentation nur im Tool verfügbar

Integration Patterns [OP->CL] [Event-Driven]



Integration Patterns





INTEGRATION EXCELLENCE

- WIE**
 - Organisation
 - Governance
 - **Transparenz**
 - Steuerung

> Transparenz

- > Schnittstellen sind in einem zentralen Katalog/Repository inventarisiert
- > Technische Dokumentationen von Schnittstellen liegen vor und werden aktuell gehalten
- > Änderungen an der Landschaft können einfach unterstützt werden
 - > z.B. Business-Systeme werden ausgetauscht, Merger, Carve-Outs
- > Statistiken zu Nachrichtenaufkommen und Performance werden erhoben
 - > Datengetriebene Einblicke in Integrationen

INTEGRATION EXCELLENCE

WIE

- Organisation
- Governance
- Transparenz
- Steuerung

> Steuerung

- > Fehler werden schnell erkannt, um den Betrieb sicher zu stellen
- > Anomalien werden erkannt, um Fehlersituationen zu vermeiden
- > Systematische Schwachstellen-Analysen:
Langsame und instabile Integrationen werden gejagt
- > Optimierung von Schnittstellen wird als kontinuierlicher Prozess etabliert



Unsere Mission: Integration Excellence

<whitepaper/>
InterfaceDesign

Process Integration
Cloud Integration
BPM
B2B Add-on

Cloud Integration
API Management
Event Mesh

IDoc (ALE)
OData / SOAP APIs
Integration Engine
HTTP / qRFC / Files

Logic Apps
API Management
Service Bus
Event Grid

SAP Process Orchestration (NetWeaver)



SAP Integration Suite (Business Technology Platform)



SAP ABAP Backend (ECC, S/4HANA, CRM, EWM)

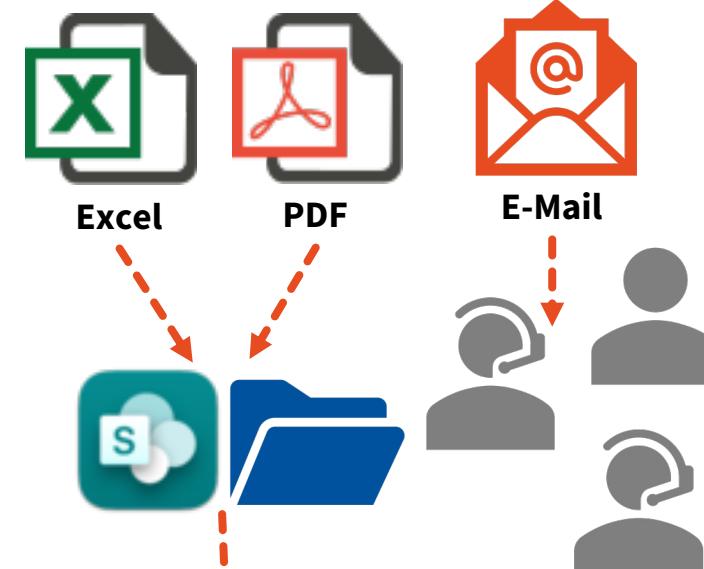


Microsoft Azure Integration Services



/> WHINT® Interface Management

Inventory & Documentation
Checks & Reporting
Monitoring & Alerting



2022

Integration Excellence @ whitepaper.id

WIE

- Organisation
- Governance
- Transparenz
- Steuerung

	Consulting (SAP)	Interface Management (Produkt)
Organisation	Berechtigungskonzept Rollen-Definition	Export zu EA-Lösungen
Governance	Entwicklungsrichtlinien Strategie & Demand-Prozess Integration Assessment	Compliance Checks: <ul style="list-style-type: none">- Lifecycle (Landscape/Transport)- Design Time/Quality (Build)
Transparenz	Integration Report Service	Inventarisierung Dokumentation Reporting (Traffic, Performance, Volume)
Steuerung	Betriebskonzept Interface Operations Service	Traffic Checks Runtime Checks Performance Checks



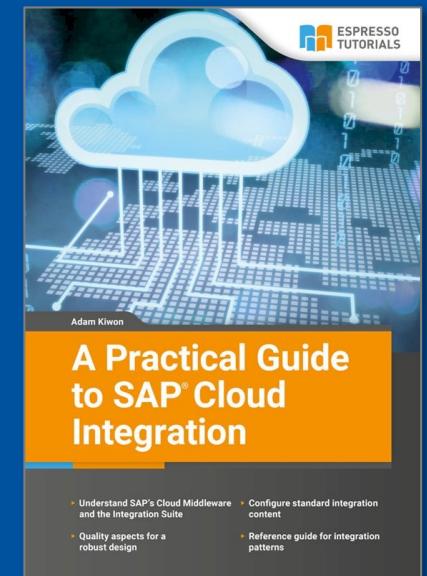
<whitepaper/>

InterfaceDesign

Kontakt:



Q & A



Thank you / Danke

© 2023 **whitepaper.id GmbH**
All rights reserved.

Whitepaper InterfaceDesign | Integration Excellence

www.whitepaper-id.com

contact@whitepaper-id.com

+49 511 56357996

Blog: <http://integration-excellence.com>

WHINT® Solutions: whint-solutions.com | whint.de

No part of this publication may be reproduced or transmitted in
any form or for any purpose without the express permission of whitepaper.id GmbH.
The information contained herein may be changed without prior notice.