

SAP's Integration Strategy Intelligent Enterprises are Integrated Enterprises

SAP User Groups, May 16th 2019

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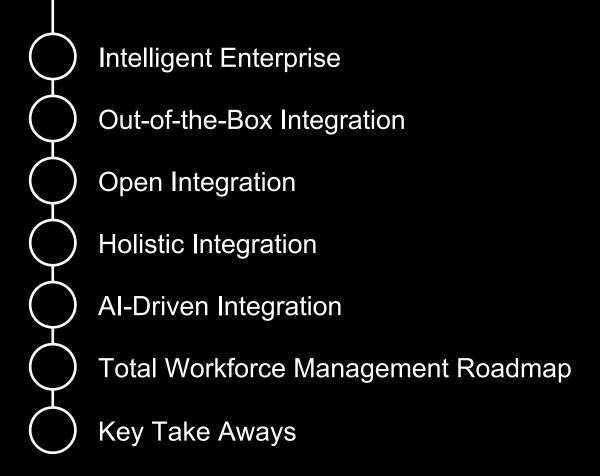
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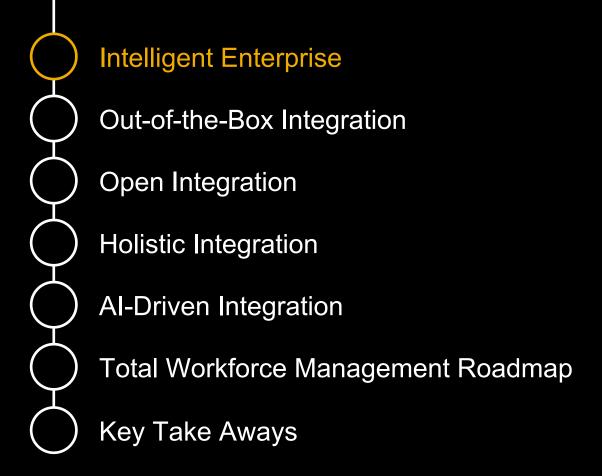
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Agenda

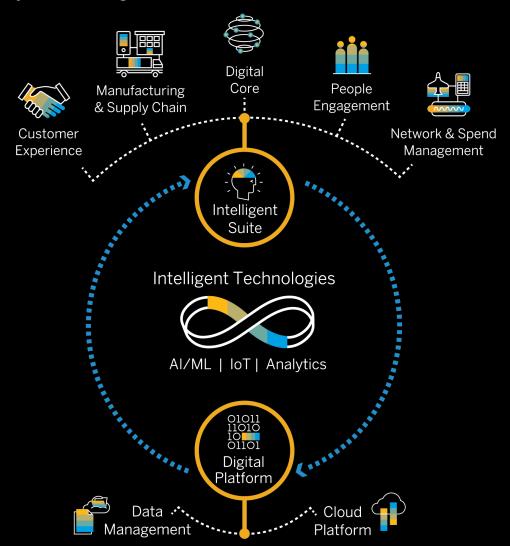


Agenda



SAP Strategy for the Intelligent Enterprise

Key Building Blocks



Intelligent Suite

Retain modularity and flexibility of independent solutions while delivering a harmonized, integrated experience.

Intelligent Technologies
Simplify automate and innevate paytin

Simplify, automate and innovate next generation business processes by leveraging AI/ML, IoT and analytics.

Digital Platform

Manage data from any source and rapidly develop, integrate, and extend intelligent applications.

SAP Approach for the Intelligent Enterprise

Focused Execution Along Key Scenarios

Lead to Cash

Customer Experience

Total Workforce Management

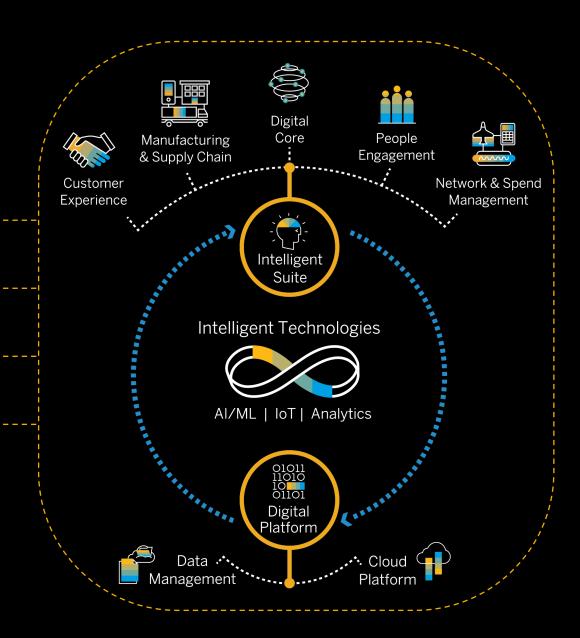
People Engagement

Design to Operate

Manufacturing & Supply Chain

Source to Pay

Spend Management



SAP Approach for the Intelligent Enterprise

Focused Execution Along Key Scenarios

Lead to Cash



Customer Experience

SAP C/4HANA
SAP S/4HANA
Digital Supply Chain

Total Workforce



People Engagement

SAP Fieldglass
SAP SuccessFactors
SAP S/4HANA
SAP Analytics Cloud

Design to Operate



Manufacturing & Digital Supply Chain

SAP PLM
SAP Ariba
Asset Management
SAP Leonardo IoT

SAP SuccessFactors

SAP S/4HANA

Source to Pay



Spend Management

SAP Ariba SAP S/4HANA

NEXT GENERATION BUSINESS PROCESSES

Embedded Intelligence | Harmonized Experience | Unified Integration | Flexible Extension

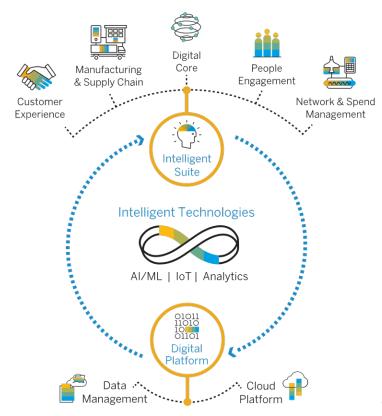
The Intelligent Enterprise Powers the Best Run Workforce

SAP Vision of Total Workforce Management

Enabling the end-to-end business process of planning, sourcing, and managing the total workforce, and facilitating a holistic talent strategy to achieve agility and game-changing business outcomes.

Business Benefits

- Visibility into people and finances and collaboration across the enterprise
- Align talent strategy to key business priorities, leveraging an agile workforce
- Drive worker engagement with new and meaningful experiences



Total Workforce Management Process

Visibility and Intelligence Across Permanent Employees and Contingent Workers



Planning

Workforce planning

Organization generates a plan by modeling the demand for talent



Individual project planners identify needs



Identify internal talent

Search for existing resources with the required skills



Staffing

Recruit new hires

Open requisitions, find candidates. make offers



Source contingent workers

Open regs, create PO, work with suppliers

Onboarding

Complete paperwork, receive equipment, take training, meet team members, ...



Submit and approve timesheets



Provide **feedback** and complete ongoing skills assessments

Working

Deliver ongoing training and development





Monitor deliverables. costs, and margins Close quarter end

Paying

Pay internal employees using payroll solution



Process invoices from suppliers for contingent workers

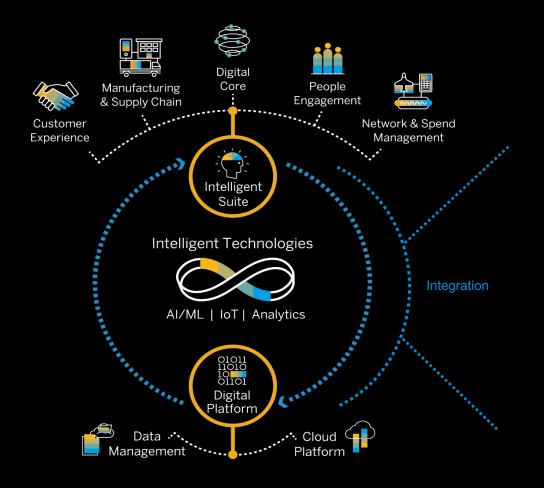
Closing

Submit final time and expenses and close project



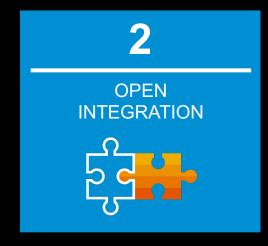
Offboard internal and external resources

SAP Integration Strategy for the Intelligent Enterprise Key Integration Principles



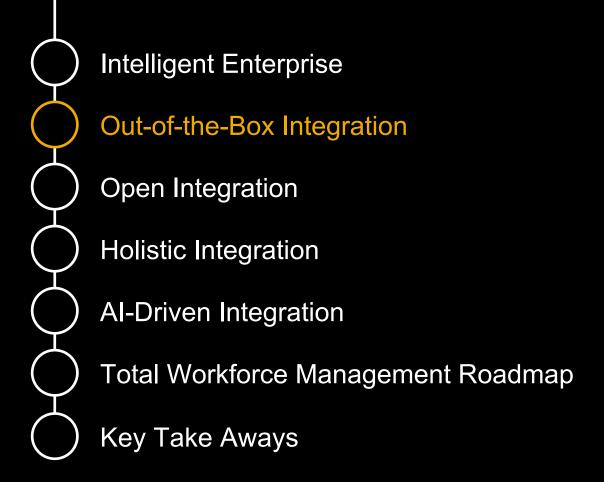








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SAP Integration DNA for the Intelligent Suite

Stepwise Adoption of Integration Standards Along Key Scenarios



Lead to Cash



Customer Experience

SAP C/4HANA SAP S/4HANA Digital Supply Chain

Total Workforce



People Engagement

SAP Fieldglass SAP SuccessFactors SAP S/4HANA SAP Analytics Cloud

Design to Operate



Manufacturing & Digital Supply Chain

SAP PLM SAP Ariba **Asset Management** SAP Leonardo IoT

SAP S/4HANA

SAP SuccessFactors

Source to Pay



Spend Management

SAP Ariba SAP S/4HANA

Aligned APIs & Pre-Packaged Integration



Aligned Domain Models



Shared Master Data Services



Standardized **Technologies**



Common Identity & Access Management



Consistent User Experience



Common E2E Monitoring/Visibility



Automated Integration Setup

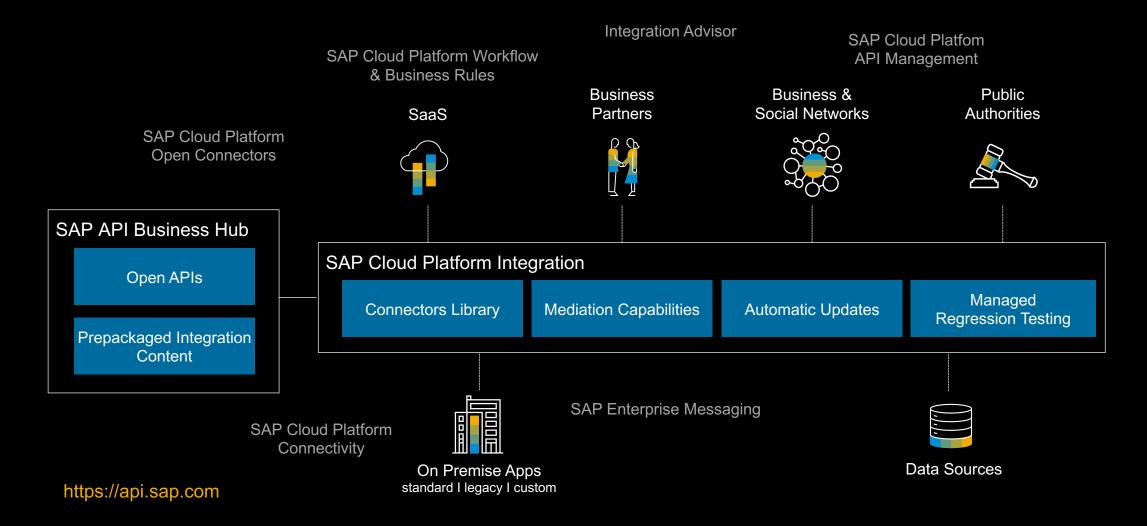


Integration Standards

SAP's IPaaS for Cloud and Hybrid Integration

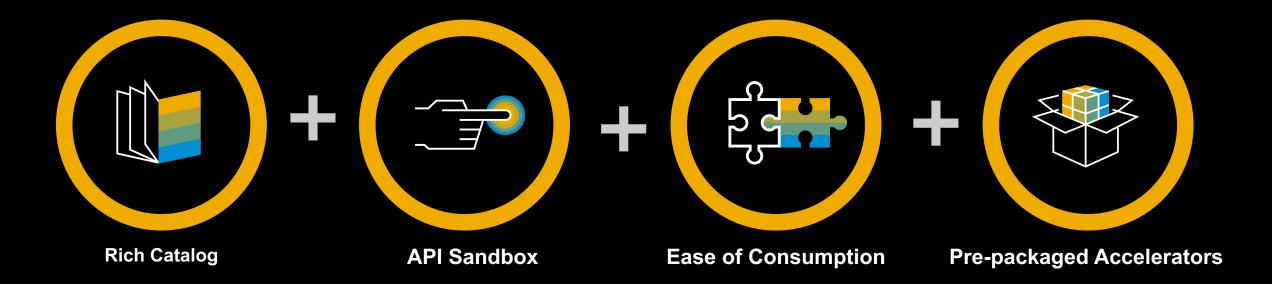
SAP Cloud Platform Integration Suite





Digital Building Blocks for Modern Apps and Open IntegrationSAP API Business Hub





Central place for APIs from SAP and its partners

One click-test experience for developers via API Sandbox

Code Generations and IDE integrations

Pre-packaged integrations and best practice templates

https://api.sap.com

Pre-delivered Process Integration

Example: Total Workforce Management

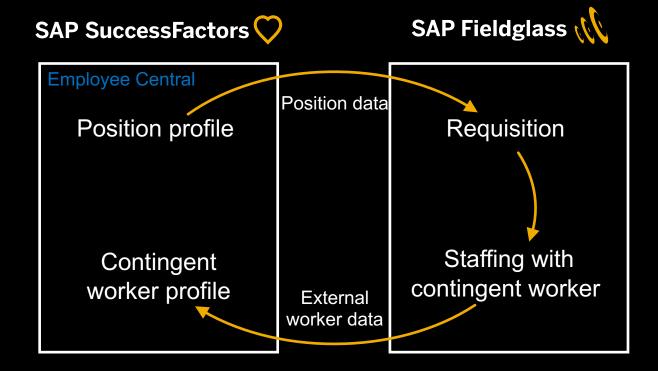


Break down the silos between HR and Procurement

From vacation position initiate a requisition for hiring permanent employee in Recruiting or for sourcing external worker through SAP Fieldglass

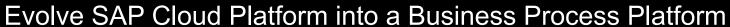
Centrally Manage Your Entire Workforce

SAP SuccessFactors, SAP Fieldglass, SAP S/4HANA Cloud, and SAP Cloud Platform help to apply business and talent management principles to the entire workforce and to manage all talent in a unified way.

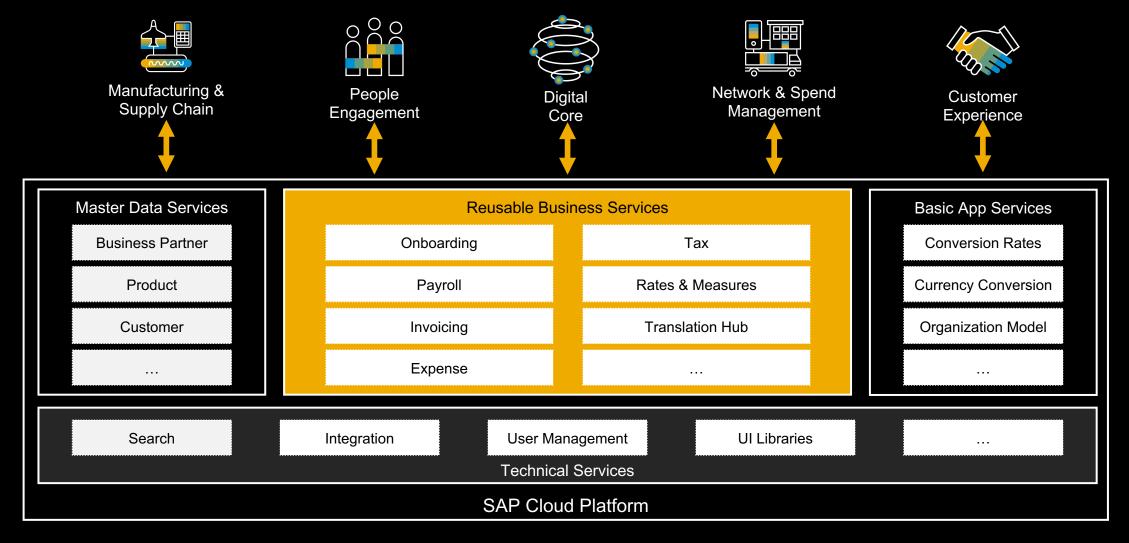


Managing and analyzing the total workforce

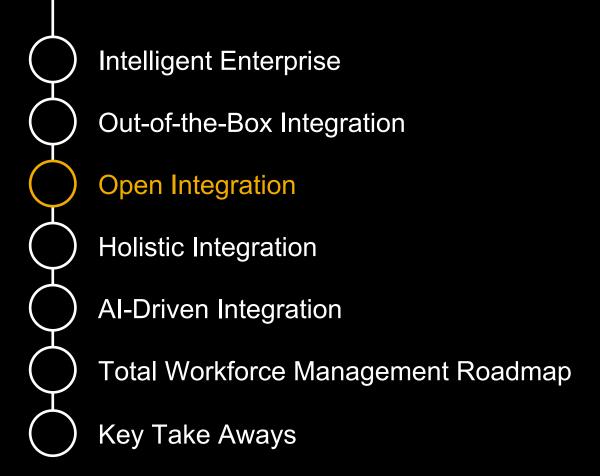
Reusable Business Services for the Intelligent Suite







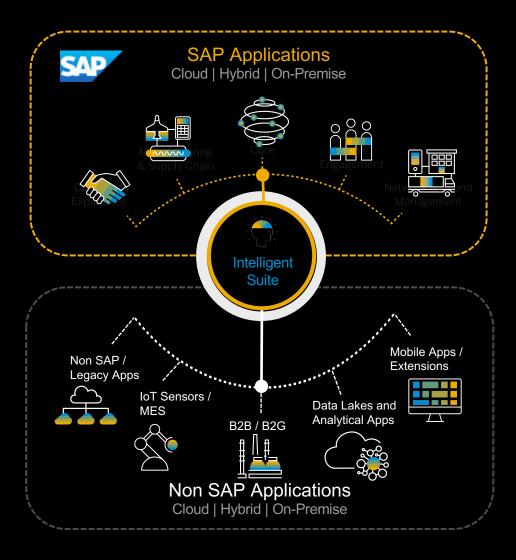
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Integration Beyond SAP

Intelligent Suite as part of a Hybrid Customer Landscape





Hybrid Customer Landscape

- Challenge: Very heterogenous landscapes
- Openness and modularity is key
- Digital Platform: SAP Cloud Platform and the SAP Data Hub provide exhaustive capabilities to integrate any third party application, data source or real-world objects

Examples

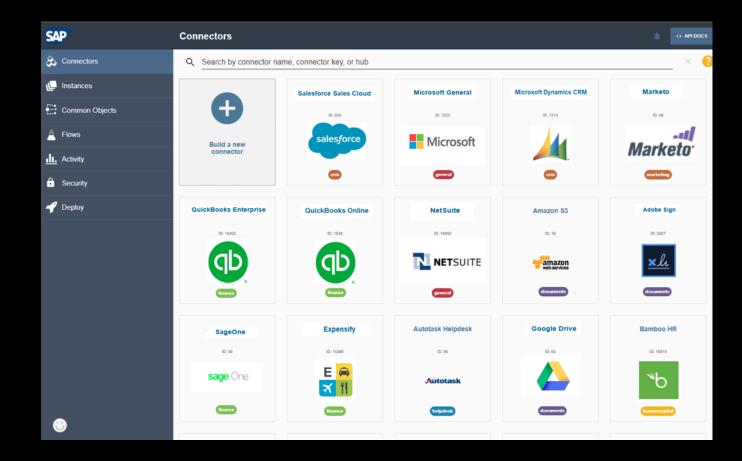
- SAP Cloud Platform Open Connectors
- SAP Intelligent Robot Process Automation
- SAP Cloud Platform Integration Advisor

Accelerated Integration of Non-SAP ApplicationsSAP Cloud Platform Open Connectors



SAP Cloud Platform Open Connectors providing feature rich, pre-built connectors to over 160 non-SAP cloud or on-premise applications

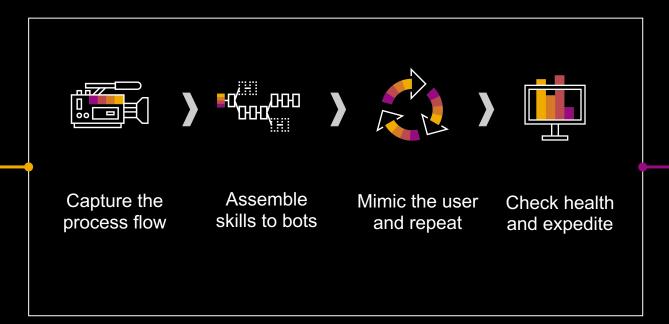
- Out of the box connectivity to 3rd Party APIs via harmonized RESTful APIs
- Develop and map canonical data model to extend pre-build connectors
- Easily build API composition across connectors
- Built-in API documentation in Open API Spec



Automatically replicating tedious actions across the Intelligent SuiteSAP Intelligent Robotic Process Automation



SAP® S/4HANA
SAP S/4HANA Cloud
SAP C/4HANA
SAP Ariba \\\\\
SAP SuccessFactors \\\\
SAP Concur \(\mathbb{C} \)
SAP Fieldglass \(\mathbb{N} \)
SAP Leonardo Intelligent
Technologies



- ✓ Third-party tools
- ✓ Non-SAP systems
- ✓ Legacy applications
- ✓ Web applications
- ✓ Internet portals

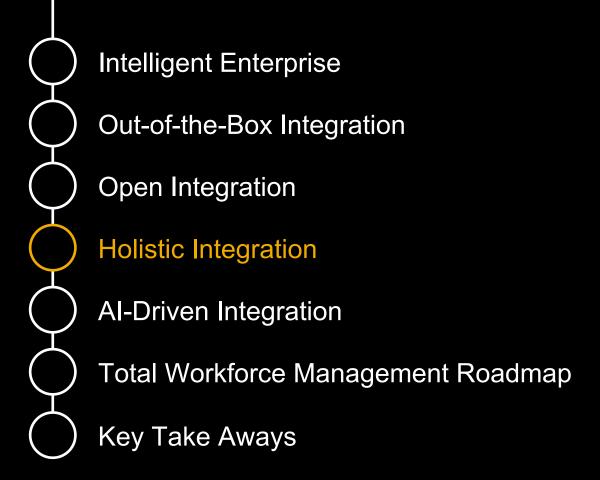






SAP® Cloud Platform

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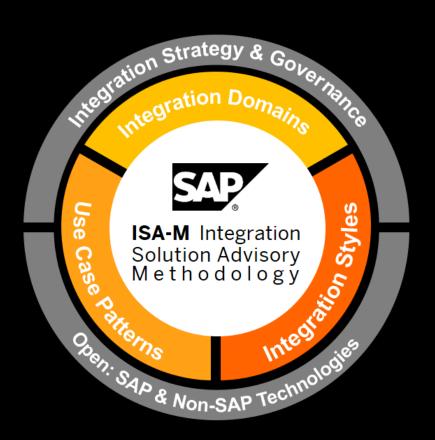


Integration Solution Advisory Methodology (ISA-M)

Simplify Integration by a Systematic Approach



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Overview

- Helps enterprise architects to shape their integration strategy
- Collection of typical integration styles and patterns
- Mapping to integration services (based on customer context)
- Open to SAP and Non-SAP integration technologies

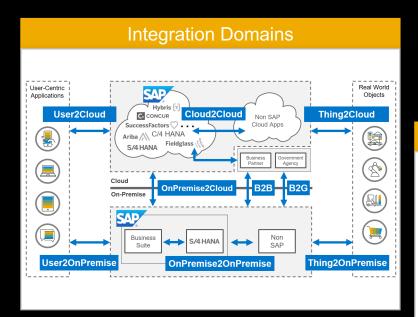
ISA-M Template

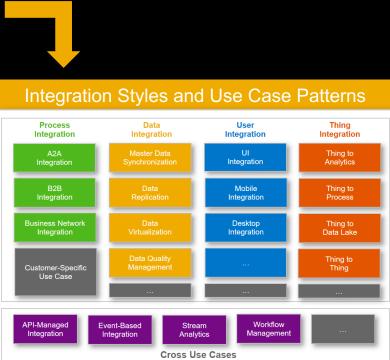
- Free PPT template available
- Successfully adopted in multiple global organizations
- SAP Consulting Services (optional)
- +900 registered customers, partners and SAP consultants

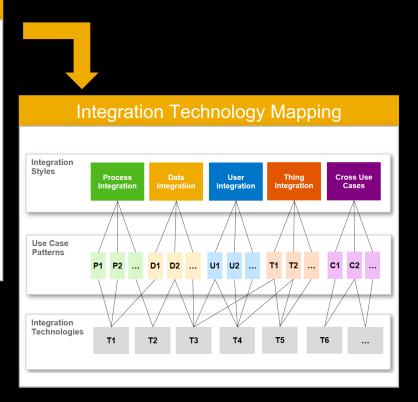
Integration Solution Advisory Methodology (ISA-M)

Simply Integration by a Holistic Integration Approach







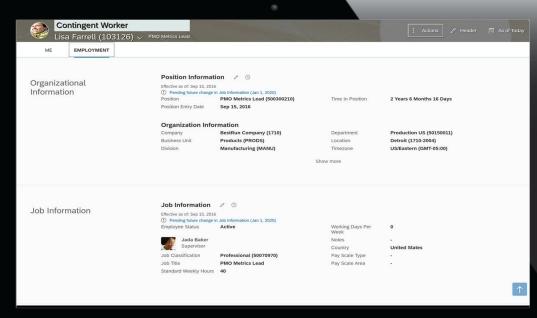


UX Integration for a consistent experience

Example: Total Workforce Management

Inclusion and Visibility

- Making external workers visible to everyone and expanding the reach of select HR practices:
- Contingent worker profile in SAP SuccessFactors Employee Central, display in org chart, people search





HOLISTIC

INTEGRATION

Analytics Integration: Embedding Analytics into SAP Applications

360° Cross-Analytics for the Intelligent Enterprise





SAP® Analytics Cloud

Suite-wide reporting and insights enabled by SAP Analytics Cloud

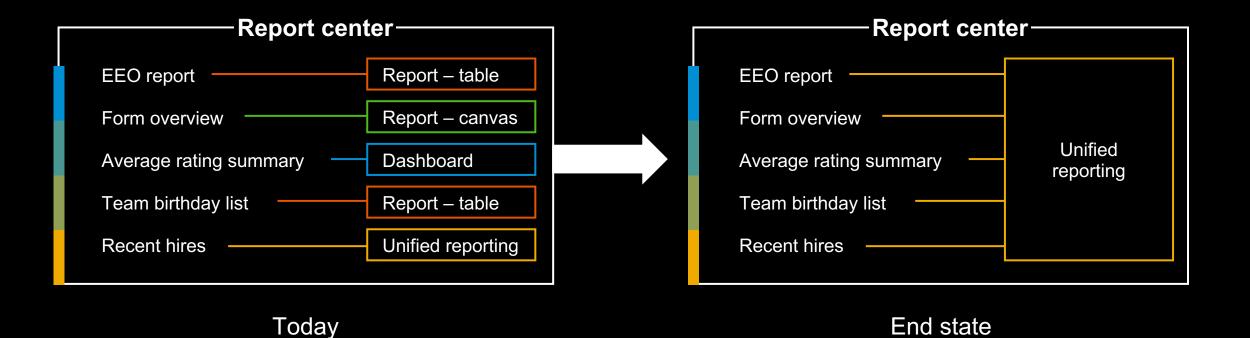
Example: SAP SuccessFactors

- Live SuccessFactors data
- Intuitive and guided
- Beautiful visualizations
- Accelerated
- Interactive



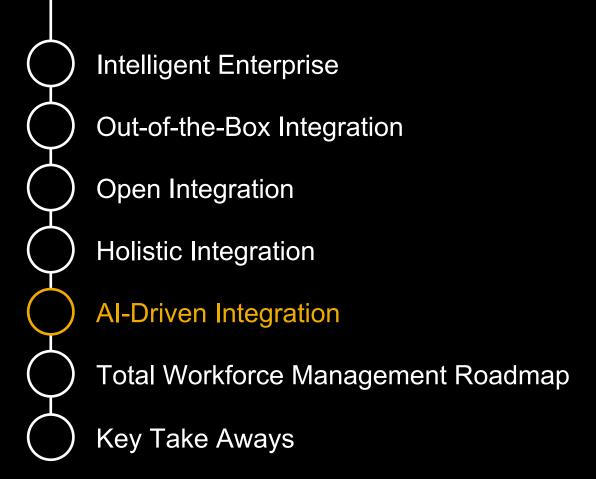
What is the impact to my end users?

Example: SAP SuccessFactors



^{*}LMS plateau report designer reports not included in report center – found through standard LMS navigation

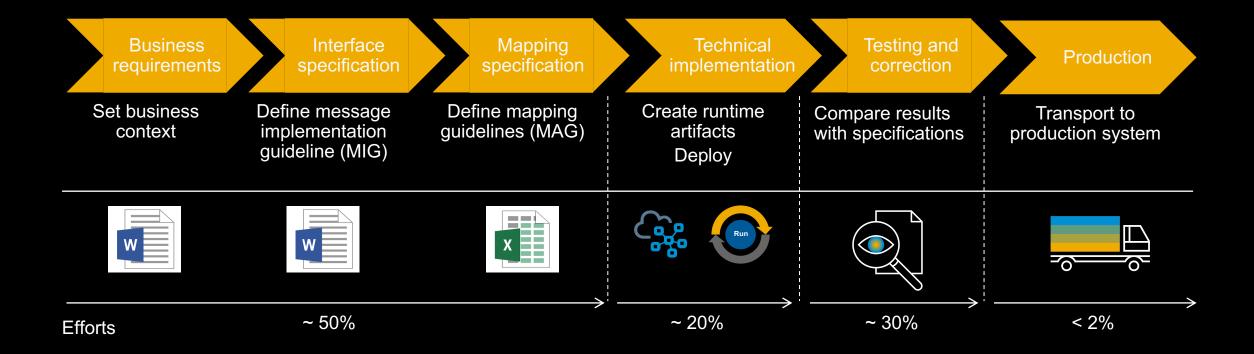
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Typical E2E Flow for Integration Content Development

Key Effort is the Semantic Definition of Integration Mappings





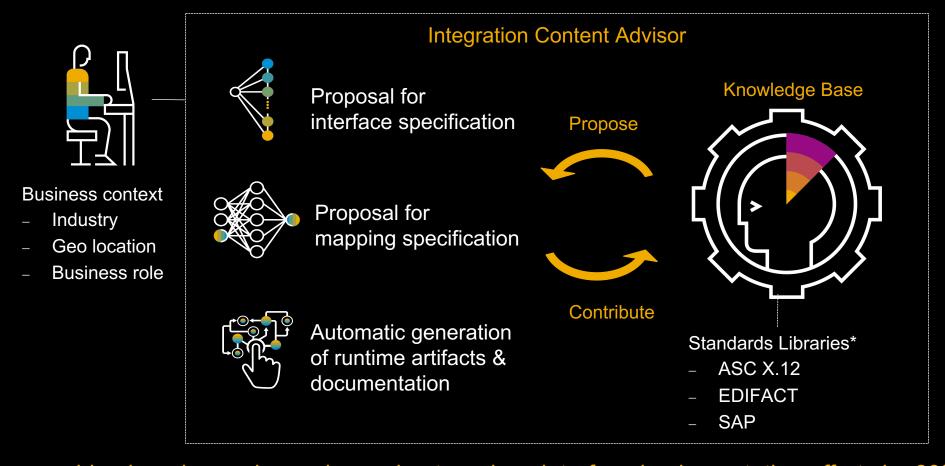
"Only 5% of the interface is a function of the middleware choice. The remaining 95% is a function of application semantics."

Source: Gartner Group

Machine Learning meets Crowd Sourcing

Example: SAP Cloud Platform Integration Advisor

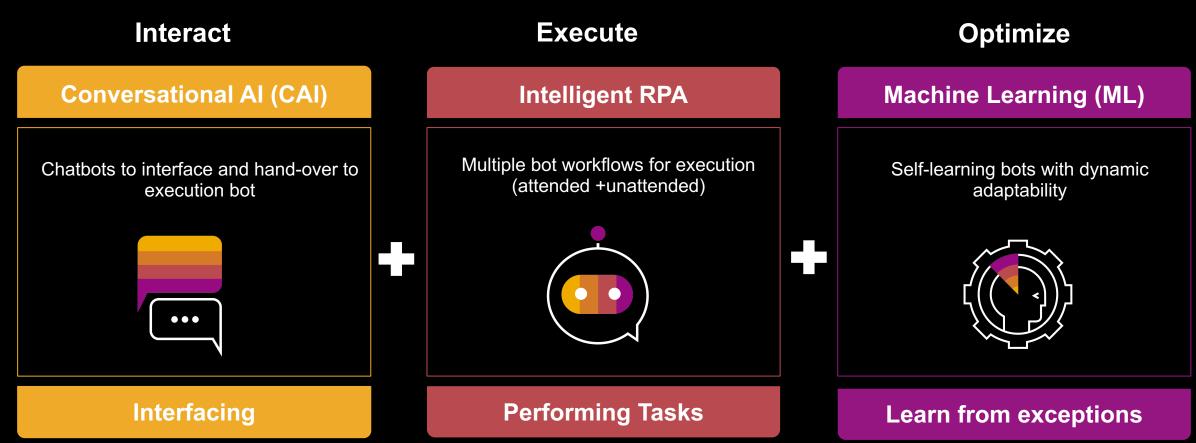




Leverage machine learning and crowd sourcing to reduce interface implementation efforts by 60% or more.

Intelligent Technologies for End-to-End Automation SAP Intelligent Robot Process Automation





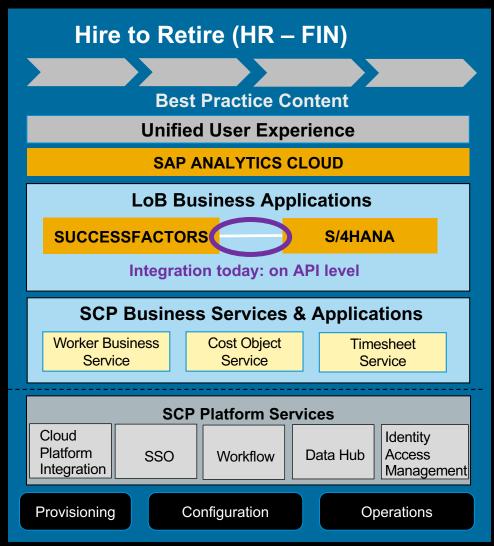
SAP Intelligent RPA seamlessly integrated

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Delivering Integrated Business Processes

Example: Hire-to-Retire subprocess of Total Workforce Management



Integrated Business Processes go beyond an integration on API level!

- They drive end-to-end integration across the whole stack. From UX down to domain model into the applications and technology.
- From integration through data exchange to integration through data sharing based on reusable business services
- End-to-End Business Process Documentation (descriptive and executable) available on SAP API Business Hub.

Total Workforce Management Roadmap Excerpt

Update from SAPPHIRE NOW



Functional Enhancements

- · Unified talent development
- Onboarding 2.0, enhanced Recruiting/Employee Central integration for pending hires
- Central SAP Cloud Identity Access Governance and SAP Cloud Platform Identity Authentication
- Re-open expense report (changes on allocation level) and delta posting in FIN
- Employee Central Payroll Integration inclusive Payment and Taxation
- Support for multiple work orders per worker in SAP SuccessFactors Employee Central



Functional Enhancements

- Integration of workforce planning into financial planning
- Re-open expense report (e.g. adding additional receipts, update travel allowance) and delta posting in FIN (also for SAP S/4HANA OP 2009)
- Transfer of employee assignment per cost object (Staffing List)
- Transfer of cost object approver
- Clock in/out time
- Harmonized Timesheets



One Master Data

Functional Enhancements

and Taxation

SAP S/4HANA

Company code and bank master data replicated from SAP S4/HANA to SAP SuccessFactors

HCM Payroll Integration inclusive Payment

Transfer of expense report receipts to



One Master Data

- Controlling Object Service
- Bank Master Data Service
- Worker Business Service as a business service

2019



Seamless UX

TODAY

- UX consistency across SAP products
- Support for customer-defined in-app assistance through SAP Enable Now
- Custom enhancements for posting text (Cloud BAdIs)



Intelligence & Analytics

- SAP Fieldglass content available on standalone SAP Analytics Cloud
- Resume Ranking using Machine Learning



Seamless UX

- UX harmonization, theming and branding
- Expense Reimbursement Payment Confirmation
- Central Inbox



Intelligence & Analytics

- Updated workforce planning templates
- CFO Dashboard
- People Analytics, embedded and advanced editions
- SAP Analytics Cloud Dashboards based on Expense Data



Integration Excellence

- Support for SAP Cloud Platform for core SAP Fieldglass solution
- Payroll Postings Employee Central Payroll to SAP S/4HANA Cloud (additional countries)
- Integration of Project systems requisitions into SAP Fieldglass solutions
- Replace Concur Layer add-on in SAP S/4HANA OP (S/4H OP 2009)
- Integration support for SAP Cloud Identity



Seamless UX

2020

- Re-imagine workforce experience
- SAP SuccessFactors digital assistant
- Combined mobile app
- One Business Configuration



Intelligence & Analytics

- Embedded SAP Analytics Cloud
- Support for workforce planning SAP Analytics Cloud
- People Analytics, planning edition
- Statistic cost objects handling for expense reports
- SAP Data Hub to orchestrate data from SAP Fieldglass, SAP Ariba, SAP Concur, and SAP Analytics Cloud

2021

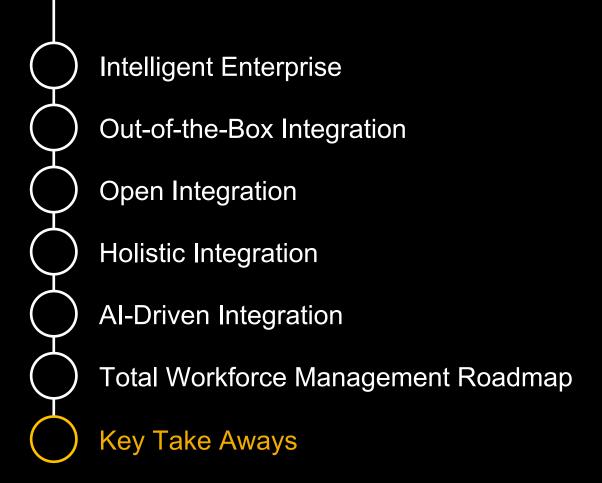
One common exchange rate



Integration Excellence

- Integration for Travel & Expense Report
- Cost object integration
- Contingent Worker Business Service
- Employee Integration with Worker Business Service
- Controlling object integration
- Integration of foundation objects Employee Central & Learning
- Organizational Structure business service

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SAP Integration Strategy for the Intelligent Enterprise

Key Takeaways

OUT-OF-THE-BOX INTEGRATION



SAP provides integrated E2E business processes including plug-and play integrations enabled by a standardized application and technology portfolio.

2 OPEN INTEGRATION



SAP provides exhaustive third party integration capabilities supported by its partner ecosystem. Public API's allow any type of custom extensions.

3 HOLISTIC INTEGRATION



SAP covers all flavors of integration (Process, B2B, Data, UX, Analytics, IoT). A methodology helps customers to shape their integration strategy.

4 AI-SUPPORTED INTEGRATION



SAP is investing into simplification of the E2E integration experience. Al techniques will be embedded into next generation services.

Q & A

Appendix

CIO Guides for Integration

Two Complementary Guides for Enterprise Architects



SAP Vision for Integrating SAP Applications in Cloud and Hybrid Environments

- Describes SAP's long term Vision for Integration
- Key Integration Use Cases
- API Alignment
- Process Integration Guidance
- Data Integration Guidance

https://www.sap.com/documents/2017/05/eebd96b d-b97c-0010-82c7-eda71af511fa.html



Process and Data Integration in Hybrid Landscapes

- Refined Guidance for Process, B2B and Data Integration
- Integration Solution Advisory Methodology (ISA-M)
- SAP API Strategy
- Integration Automation
- SAP S/4HANA Transition Guidance

https://www.sap.com/documents/2018/06/de3238 a0-077d-0010-87a3-c30de2ffd8ff.html

SAP Application Integration RoadmapsCommon Roadmap





SAP Road Map for Cloud Integration

October 2018



https://www.sap.com/products/roadmaps





Thank you.

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