



Amplify. Innovate. Empower.

Intelligent Enterprise - Source to Pay (S2P)

Sourabh Kothari | SAP Procurement Solutions
March 2020

PUBLIC

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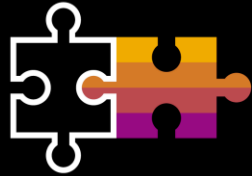
Agenda

- **Motivation & Overall Strategy**
- **Source to Pay: E2E processes**
- **Adoption of Suite Qualities**
- **Roadmap**
- **Summary / Key Takeaways**

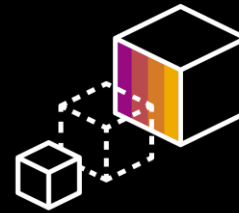
Problem Statement: **Customer**



User experience is inconsistent and disconnected.



Overlapping capabilities and lack of deep Integration

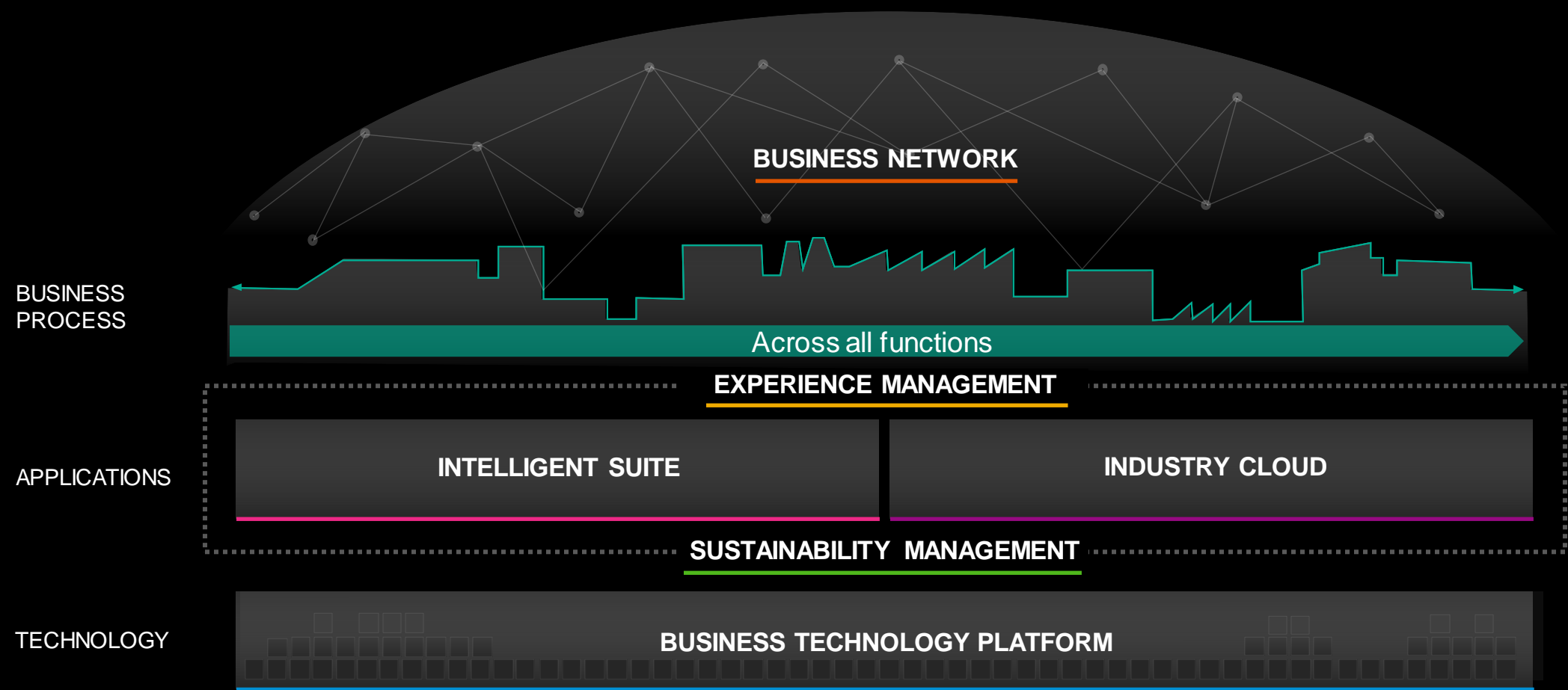


Scattered application management slows the time to value.



Lack of cross product analytics impacts visibility and decision making

Intelligent Enterprise - Framework



SAP Intelligent Enterprise – Business Process Integration

Lead to Cash

Deliver unprecedented customer experience



Source to Pay

Manage procurement and spend like never before



Recruit to Retire

Attract, manage and retain the best talent



Design to Operate

Develop and manufacture the most innovative products



Suite Qualities

Seamless user experience

One workflow inbox

End-to-end process blueprints

Aligned domain models

Consistent security & identity management

Harmonized provisioning, setup & operations

Embedded & cross-product analytics

Business Technology Platform

Suite Qualities



REFERENCE ARCHITECTURE



CORE
INTEGRATION



APPLICATION
LIFECYCLE MANAGEMENT



SECURITY & IDENTITY
MANAGEMENT



EXPERIENCE



ANALYTICS

TG05
Industry Reference
Architecture

TG03
Aligned Business APIs

TG04
Automated System
Landscape Provisioning
and Integration Setup

TG02
Identity Authentication and
Single Sign-On (SSO)

TG10
Consistent User
Experience

TG07
Cross Application Analytics

TG22
Master Data Services

TG11
Integration Monitoring

TG16
Identity Provisioning and
Lifecycle Management

TG01
Cross Product Navigation

TG32
Application Analytics

TG 23
Domain Model Alignment

TG 31
One Business
Configuration

TG18
Business User Role
Management

TG13
Central Inbox

TG28
Code Lists

TG14
Central Entry Point /
Product Switcher

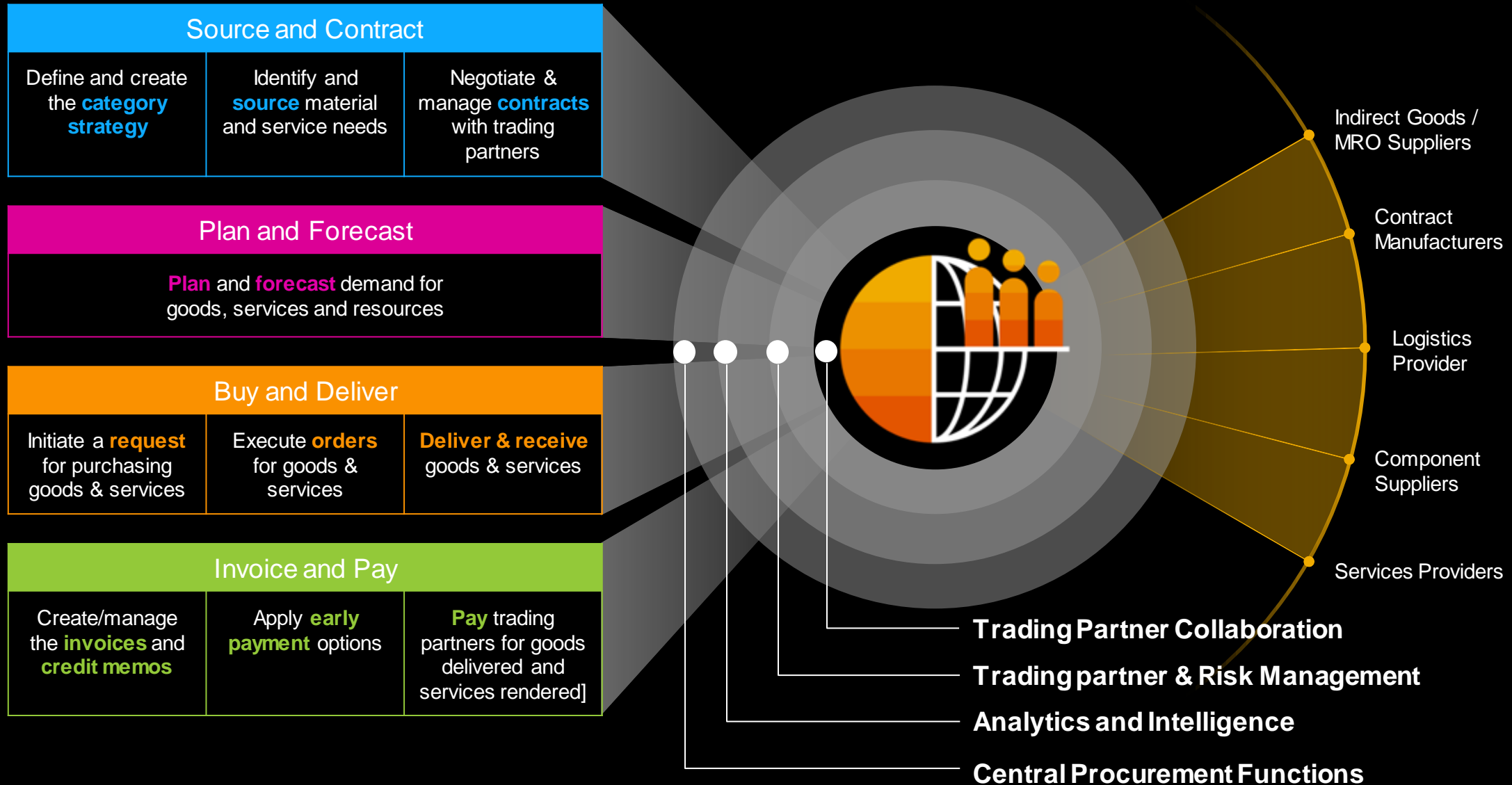
TG12
Field Extensibility

Our Goal

- Deliver, Provision, Implement and Manage as **one product** easing journey to cloud for our customers
- **Intelligent suite** helps organizations run agile and integrated business processes.
- The **Business Technology Platform** to provide excellence in data management, intelligence and analytics capabilities
- The **SAP Business Network** helps our customers, trading partners work together to build flexible value chains.
- **Experience management** helps evaluate and act on customer, partner, and employee sentiment.
- **SAP's industry cloud** will allow customers to discover and deploy vertical solutions from SAP and partners.

Resilient Successful Sustainable

Source to Pay process overview



IES Source to Pay – Processes and Suite Qualities

■ Process
■ Suite Quality

Lab
Preview

Hybrid scenarios

2NV Guided Buying

4BL Sourcing

3EN Guided Buying w/
Central procurement

4AZ Contracts

4A1 sell side integration

4BO Contracts w /Central Procurement

4QN Sourcing w /Central Procurement

42K Commerce and Quote Automation with discount
management

APIs and Business Events

SAP S/4HANA

2020

FPS1

FPS2

2NV Guided Buying

4AZ Contracts

4BO Contracts
w/Central
Procurement

4QN Sourcing w/
Central Procurement

42K Commerce and Quote Automation for indirect, direct,
SCC ...

4BL Sourcing

4A1 SD
Integration

42K Commerce and
Quote Automation,
Discount Management

3EN Guided Buying w/
Central procurement

4R2 Complex Services

SCC-MRP Exceptions & Basic Subcontract process +
Further enhancements of processes

SAP S/4HANA
Cloud

1911

2002

2005

2008

2011

2102

2105

E2E Process
Blueprints

Consistent Security & Identity
Management

Seamless User Experience

Embedded Analytics

Coordinated Lifecycle
Management

Aligned Domain Models

MDI for Supplier / Product
using SCP BP Service

Supplier MDI BuPA
(SOAP)

Integration monitoring –
Ariba Network

Product with MDI Rest API
via MDCS

Cost center with MDI Rest
API via MDCS

Integration monitoring –
Ariba Buying, Sourcing and
Contracts

Task Center

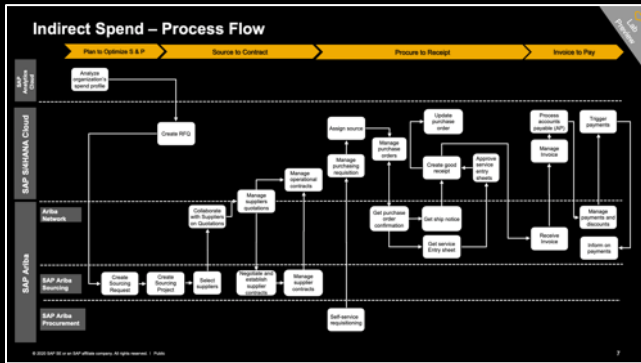
Cloud scenarios

*22K – External workforce procurement with SAP Fieldglass available since 1809

IE - S2P E2E Sub-processes

2019 /
2020
Focus

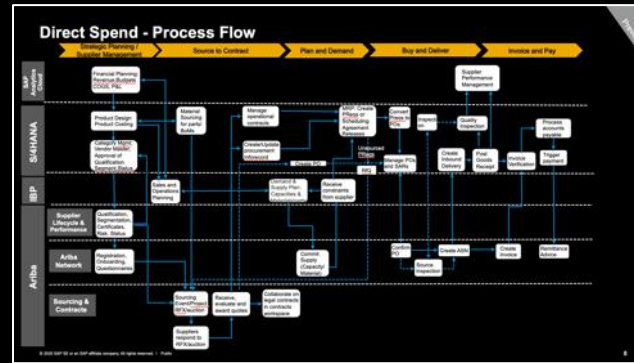
Indirect



- Guided Buying / PO
- Sourcing
- Contract Management
- Commerce Automation
- Quote Automation

2021
Focus

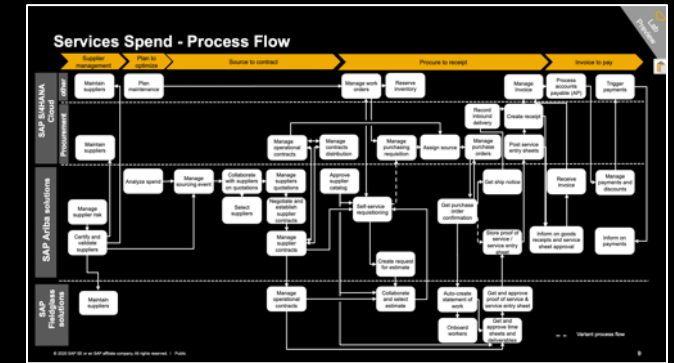
Direct



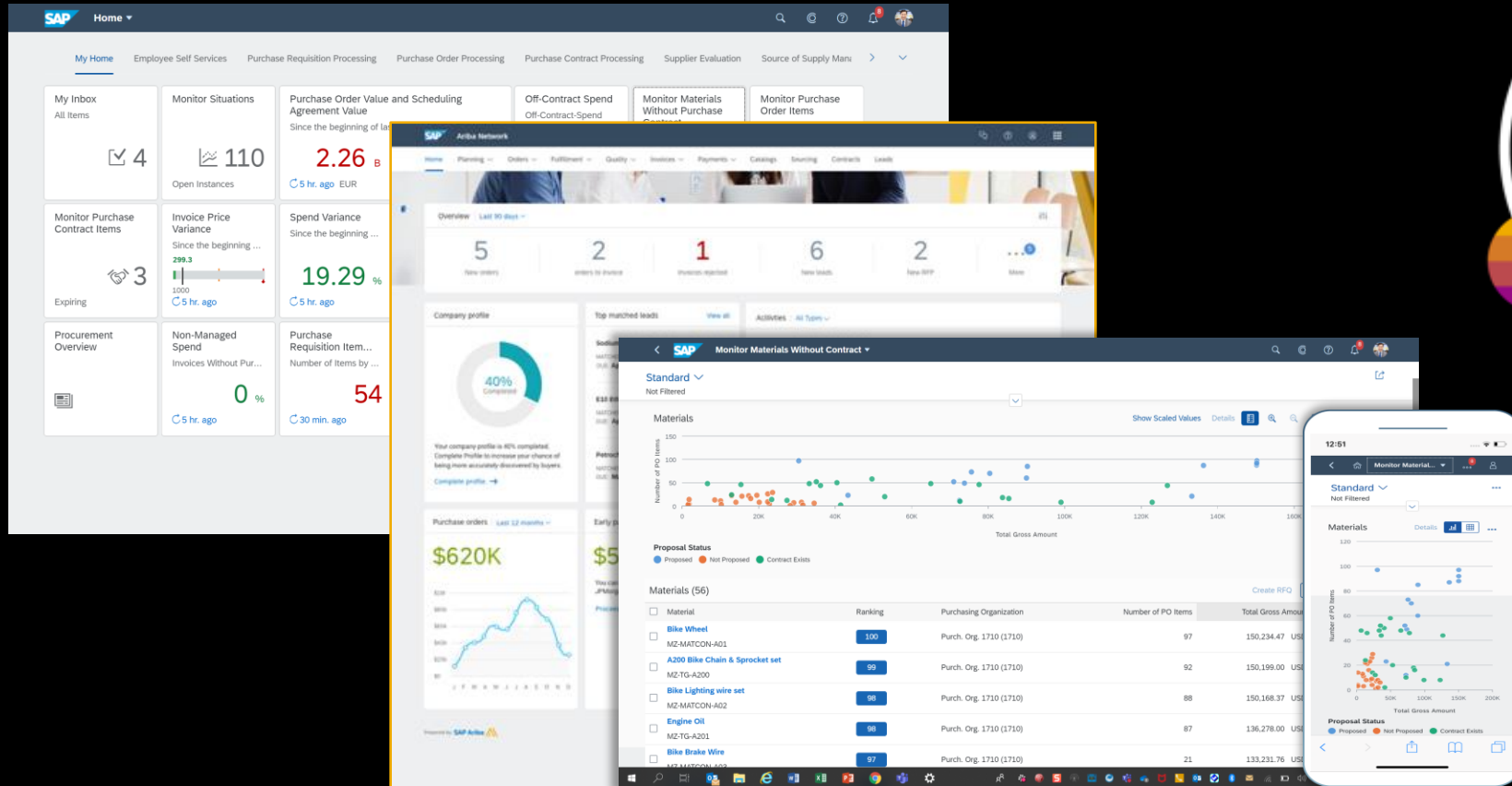
- Direct Material Sourcing
- Forecast / MRP
- Contract Manufacturing
- Supplier Managed Inventory
- Quality Management

2021
Focus

Services



- Service Estimates
- Service PO
- Work orders
- Statement of work
- Proof of Service / SES



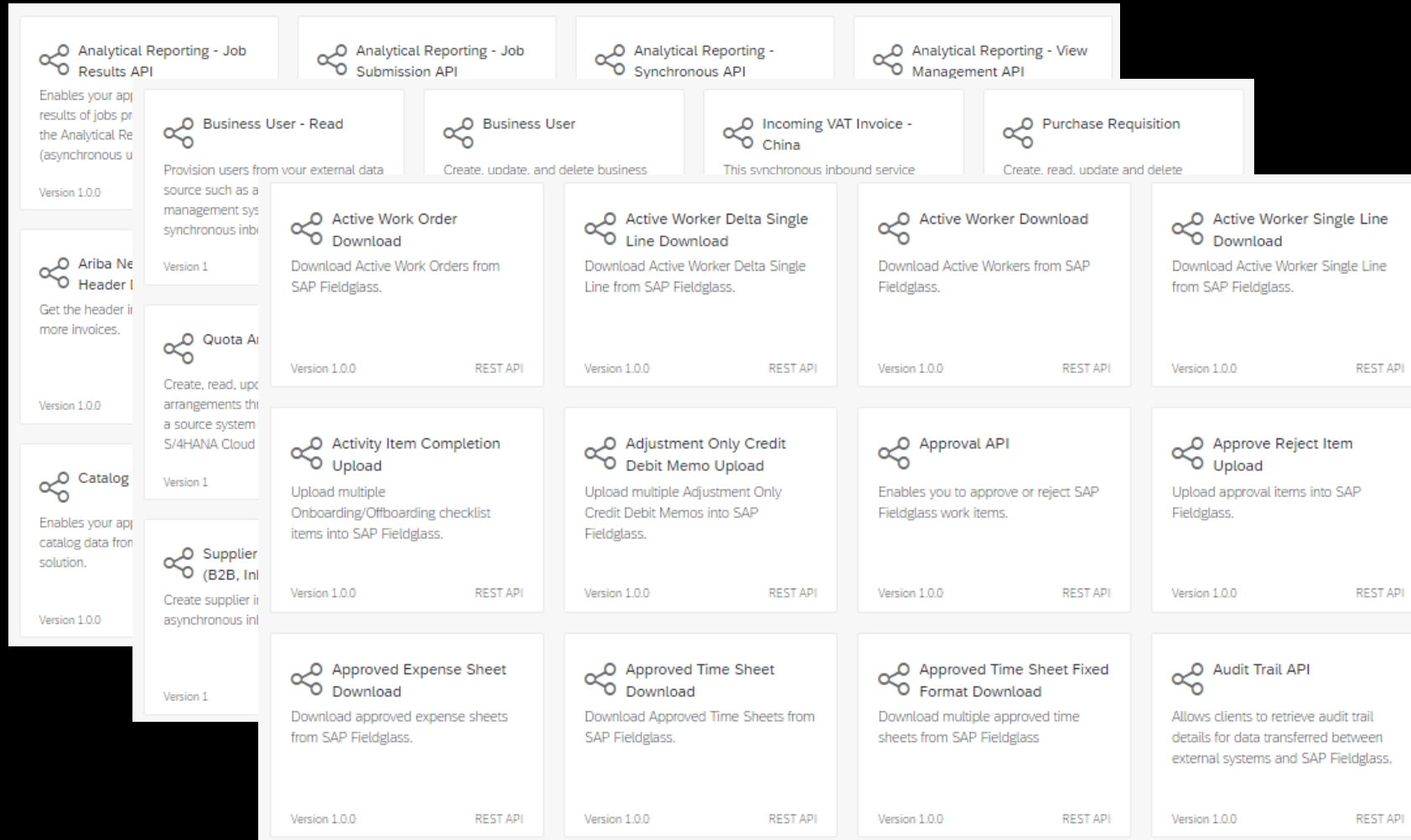
Consistent

Intelligent

Integrated

Source to Pay – Core Integration (Business API's)

[LINK](#)



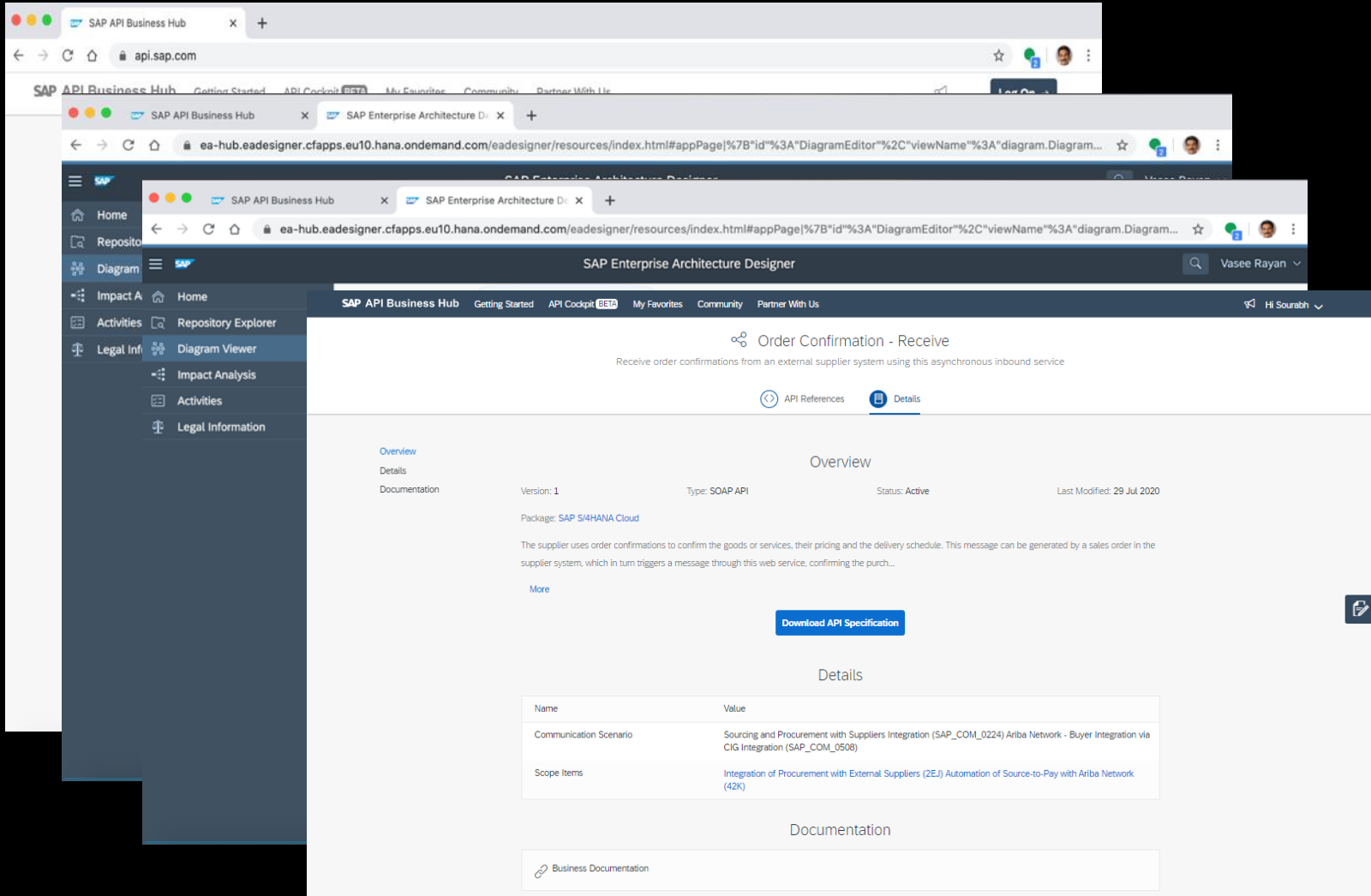
Customer pain point

- Integration between application often involved complex mappings and had to be managed by customers

Outcome

- Growing number of aligned business APIs available on the SAP API Business Hub.
- User can rely on aligned APIs for the integration between applications. Ideally no need to make any additional mappings.

Source to Pay – Business process blueprints / Reference Architecture



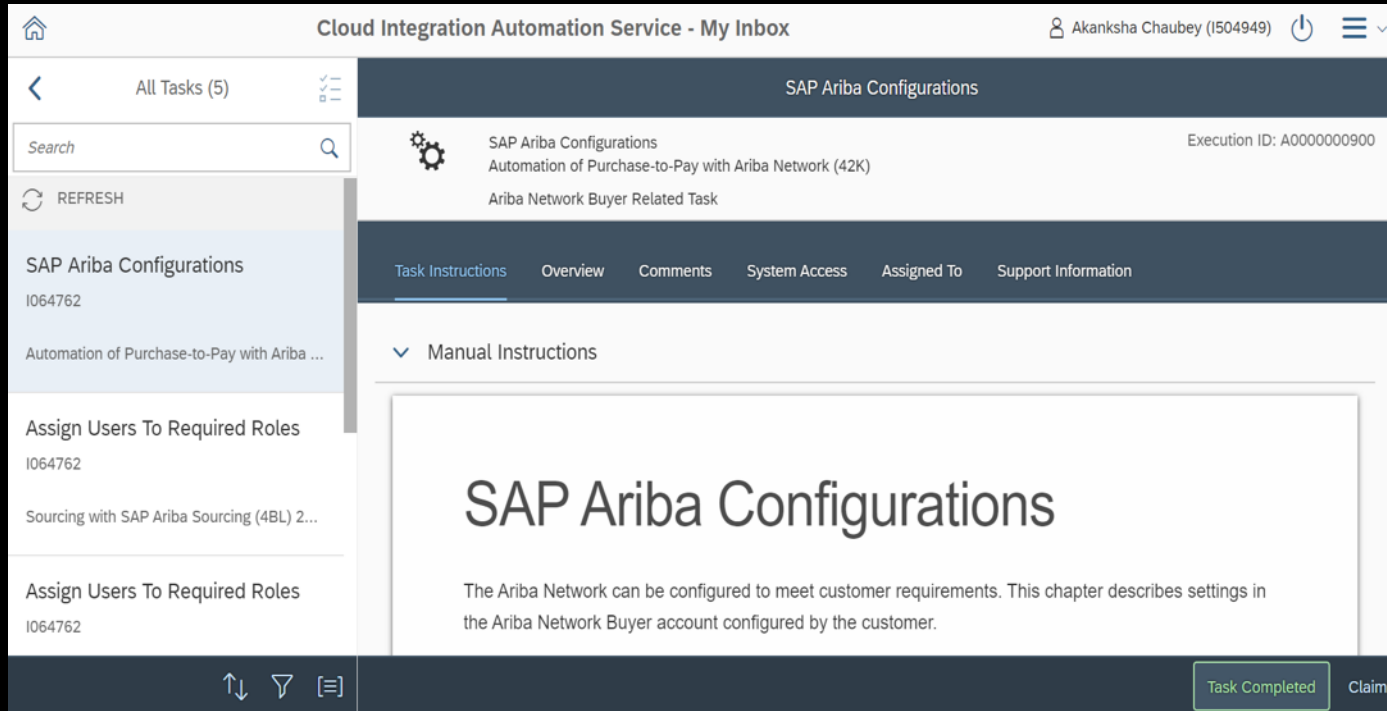
Customer Pain Point

- Explore how E2E scenarios decompose into applications, modules, business services, technologies and integrations
- Map out the roadmap to adopt the solution and transition from current solution landscape to target

Target

- Scope definition as per business capabilities
- Defines how to capture cross-unit architecture decisions
- Data flow across applications
- Provide aligned business APIs for application-to-application communication, i.e. provider and consumer must agree on a common API via the API requisition process

Source to Pay – Automated Provisioning and Integration Setup



Customer Pain Point

- Integration scenarios are mostly customer managed and therefore need to be setup by the customer
- Most of connections and integration scenario setups have to be done manually.
- High expertise required by customer to setup integration scenarios.

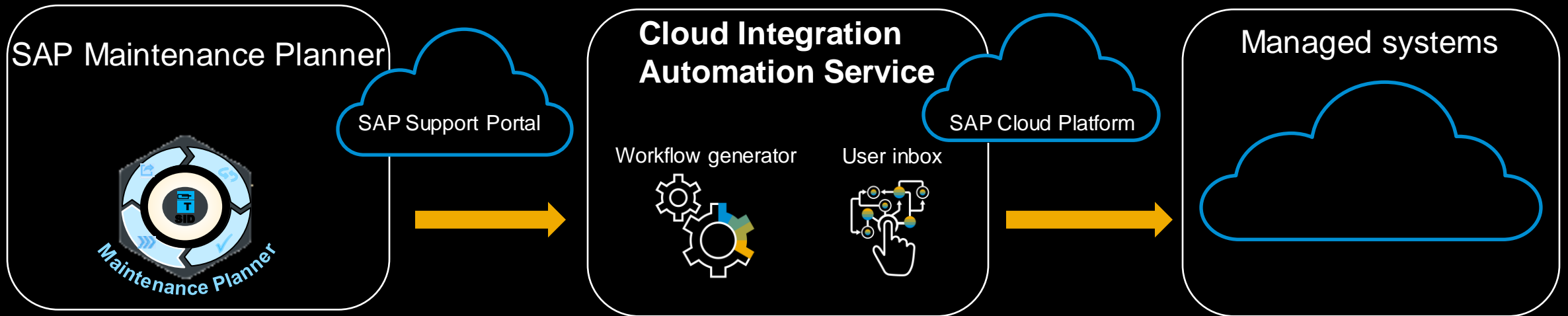
Target

- Foundation - Provide customers a framework to automate setup of integration scenarios as far as possible.
- One entry point for process related configuration across products
- The Cloud Integration Automation Service (CIAS) is a tool for describing and executing integration scenarios. CIAS procedures will contain tasks that are either automated or guided manual tasks based on workflows.

Coordinated Application Lifecycle Management

Cloud Integration Automation Service: Automated Integration Setup

- In SAP Maintenance Planner: Choose an integration scenario and select the right systems.
- Use the Cloud Integration Automation Service to generate a role based workflow with predefined tasks.
- In SAP Cloud Platform workflow: Assign the tasks to the right experts.
- Process the tasks from the workflow in the managed systems.



Source to Pay - Consistent Security & Identity Management

The image shows a screenshot of a web application interface. In the background, there is a 'Log On' form for 'BestRun StratusMedioTwo' with an 'E-Mail' input field. Overlaid on this is a 'Buyer Sign In' form for 'SAP Ariba'. The 'Buyer Sign In' form has a 'User Name' input field, a blue 'Next' button, and a link for 'Forgot username or password'. The 'SAP Ariba' logo is prominently displayed above the 'Buyer Sign In' text. At the bottom left of the background page, it says 'Powered by SAP Cloud Platform'.

Customer Pain Point

- Multiple sign-on's in one end to end business process
- Multiple authentication mechanism need to be maintained and supported
- Heterogeneous identities and user identifiers between applications

Target

- Consistent way of enabling Single Sign-On (SSO) and Single Log-Out (SLO)
- Easy, centrally administered user management and identity provisioning
- Users logon only once to execute all steps in the business process

From Manual to **Autonomous Procurement**

Market pressure forces customers to...



Deal with increased innovation speed



Cope with shorter product lifecycles



Automate procurement and invoicing



Source for best possible suppliers



60% of the P2P processes have the potential to be fully or largely automated

– A roadmap for digitizing source-to-pay – McKinsey 2017

Fully **digitalized** Source-to-Pay process across SAP S/4HANA and SAP Ariba

Realtime **Analytics**

01011
11010
10101
01101

Digital Procurement

Automated process steps by Situations and Machine Learning

Robotic Process Automation (**RPA**) for recurring tasks

IoT and **sensor-based** triggers

Invoice Automation via **OCR**



Automated Procurement

Proactive Insight-to-action based on Situations

Recommendations by Machine Learning

Predictive Analytics

Usage of **Digital Assistants**

Continuous Auditing via **Blockchain**



Intelligent Procurement

Autonomous operational procurement processes by RPA and Machine Learning

Autonomous **sourcing decisions**

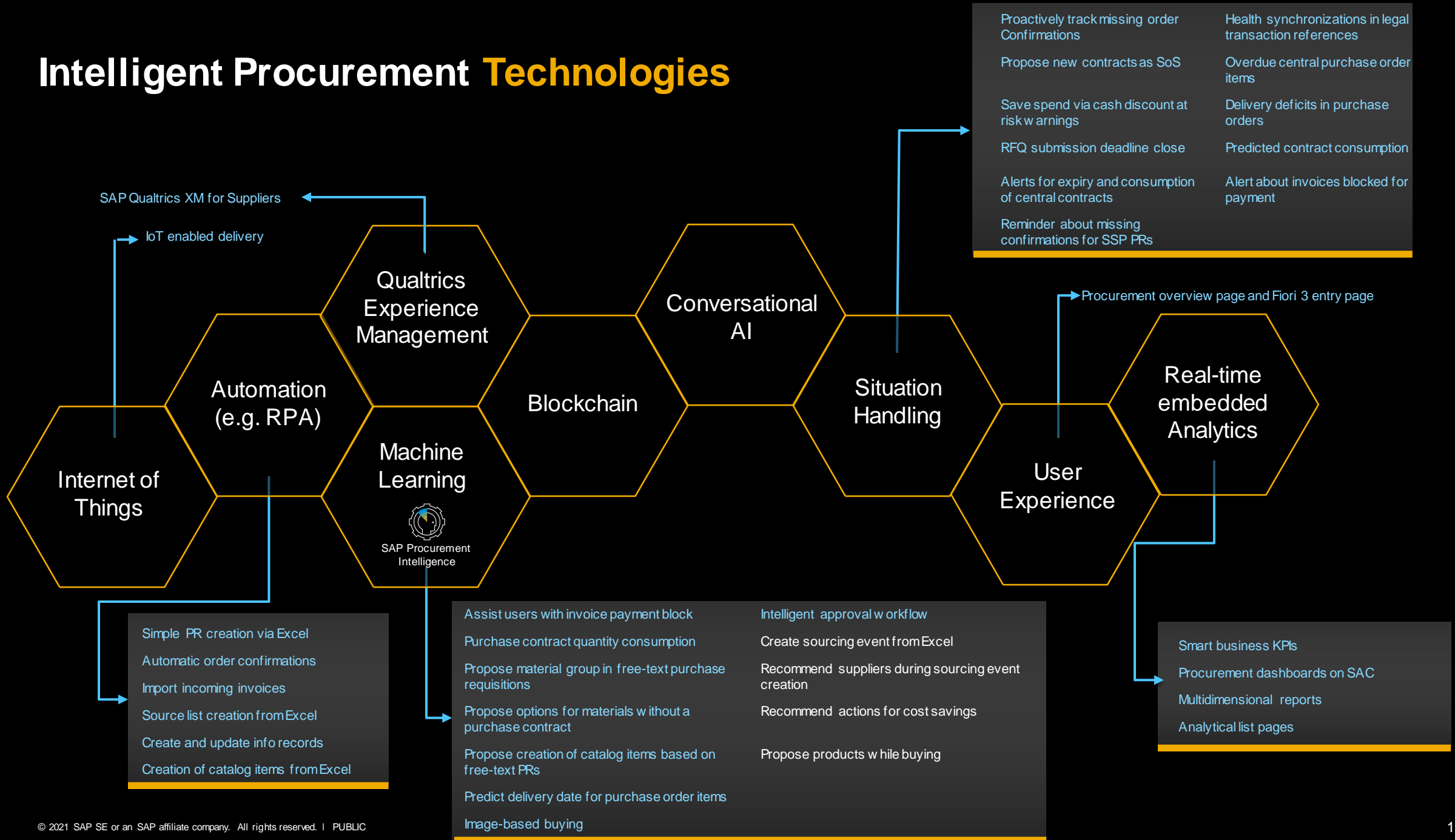
Strategic decisions carried out by **intelligent assistants**

Conversational chatbots for proactive procurement decisions



Autonomous Procurement

Intelligent Procurement Technologies



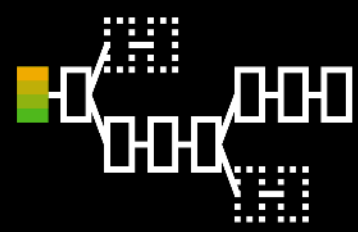
Refer

1. Integration Whitepaper – <https://www.sap.com/documents/2020/02/520ea921-847d-0010-87a3-c30de2ffd8ff.html>
2. Transform procurement with SAP solutions - <https://www.sap.com/documents/2017/05/c6230025-ba7c-0010-82c7-eda71af511fa.html>
3. Best practice scope items –
 - 42K - <https://rapid.sap.com/bp/scopeitems/42K>
 - 4A1 - <https://rapid.sap.com/bp/scopeitems/4A1>
 - 2NV - <https://rapid.sap.com/bp/scopeitems/2NV>
 - 4BL - <https://rapid.sap.com/bp/scopeitems/4BL>
 - 3EN - <https://rapid.sap.com/bp/scopeitems/3EN>
 - 4AZ - <https://rapid.sap.com/bp/scopeitems/4AZ>
 - 4B0 - <https://rapid.sap.com/bp/scopeitems/4B0>
 - 4QN - <https://rapid.sap.com/bp/scopeitems/4QN>
 - 22K - <https://rapid.sap.com/bp/scopeitems/22K>

S2P Focus topics 2021



Master Data Integration



Application Lifecycle
management



E2E service
procurement



Sub-contracting, MRP
exceptions



Analytics –
Embedded and Cross

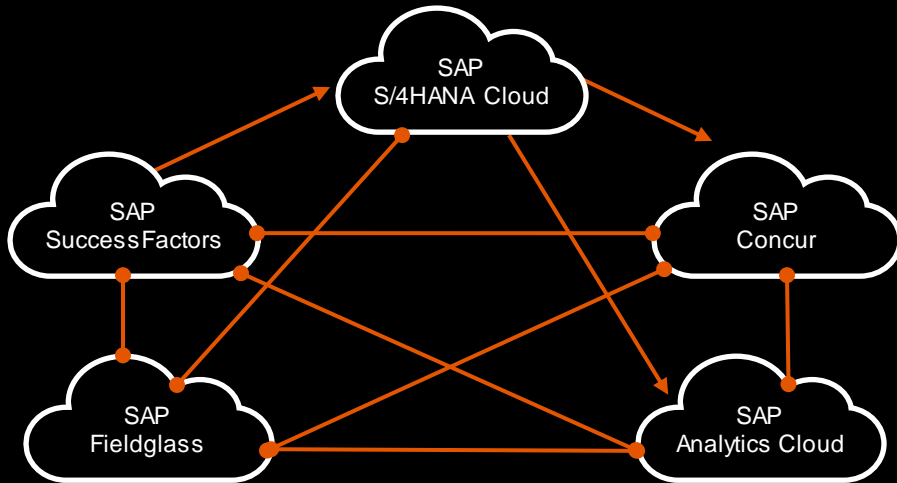


Task center

Master Data Integration

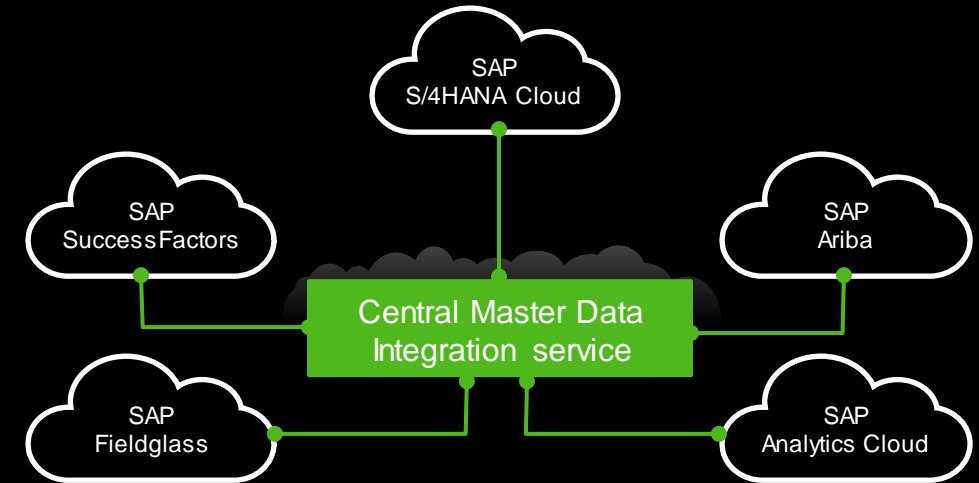
One Central **Master Data Integration Service** across All SAP Business Applications

1:1 integration



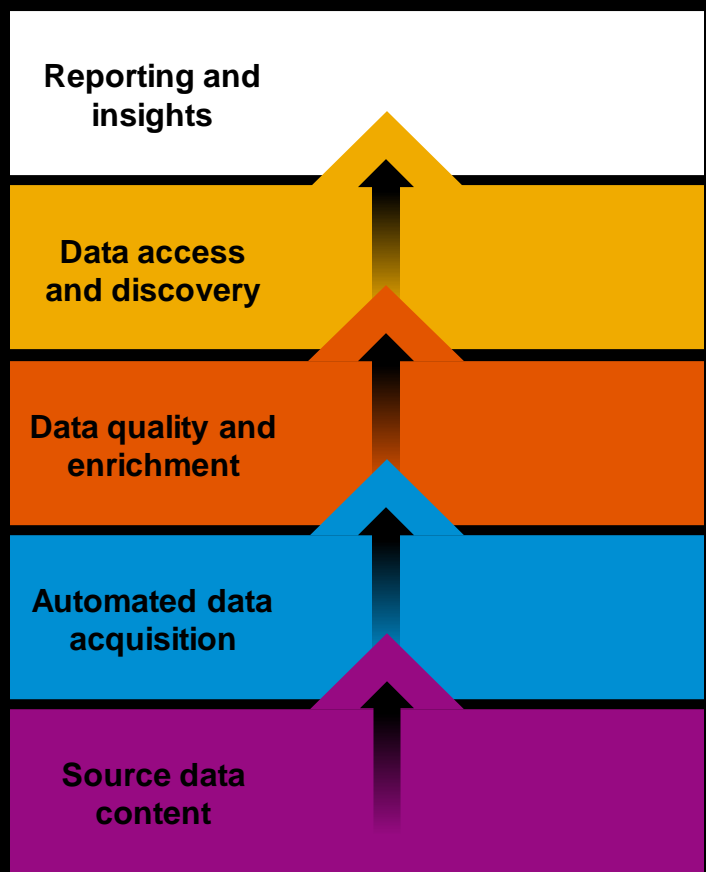
- Point to point; hard to synchronize; high maintenance
- Expensive; integration effort required for every implementation
- Inconsistent
- Basic csv load capabilities

1:many integration



- **Faster:** Efficient centralized distribution
- **Cheaper:** Standardized, out-of-the-box, reusable
- **Better:** Consistent, scalable, compliant: purpose-driven master data replication

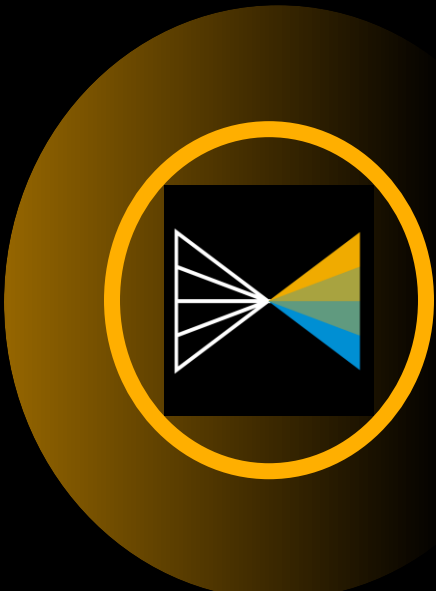
Embedded and Cross Product **Analytics and Insights**



- Multiple point analytics solutions across applications
- Lack of real-time data and insight across the entire source-to-pay processes
- Predictive analytics enabled by ML/AI limited to data scientists

- 360 view of supply chain and spend with out-of-the-box analytic insights, KPIs, embedded within or integrated with individual SAP apps
- Real-time insights shared with direct spend suppliers and networked-generated data intelligence
- Faster time-to-value with prebuilt content for cross-application analytics

The future of intelligent approvals – “My Tasks” - *One Workflow Inbox*



Universal messaging
inbox (My Tasks) inbox



Smart policy and
recommendations



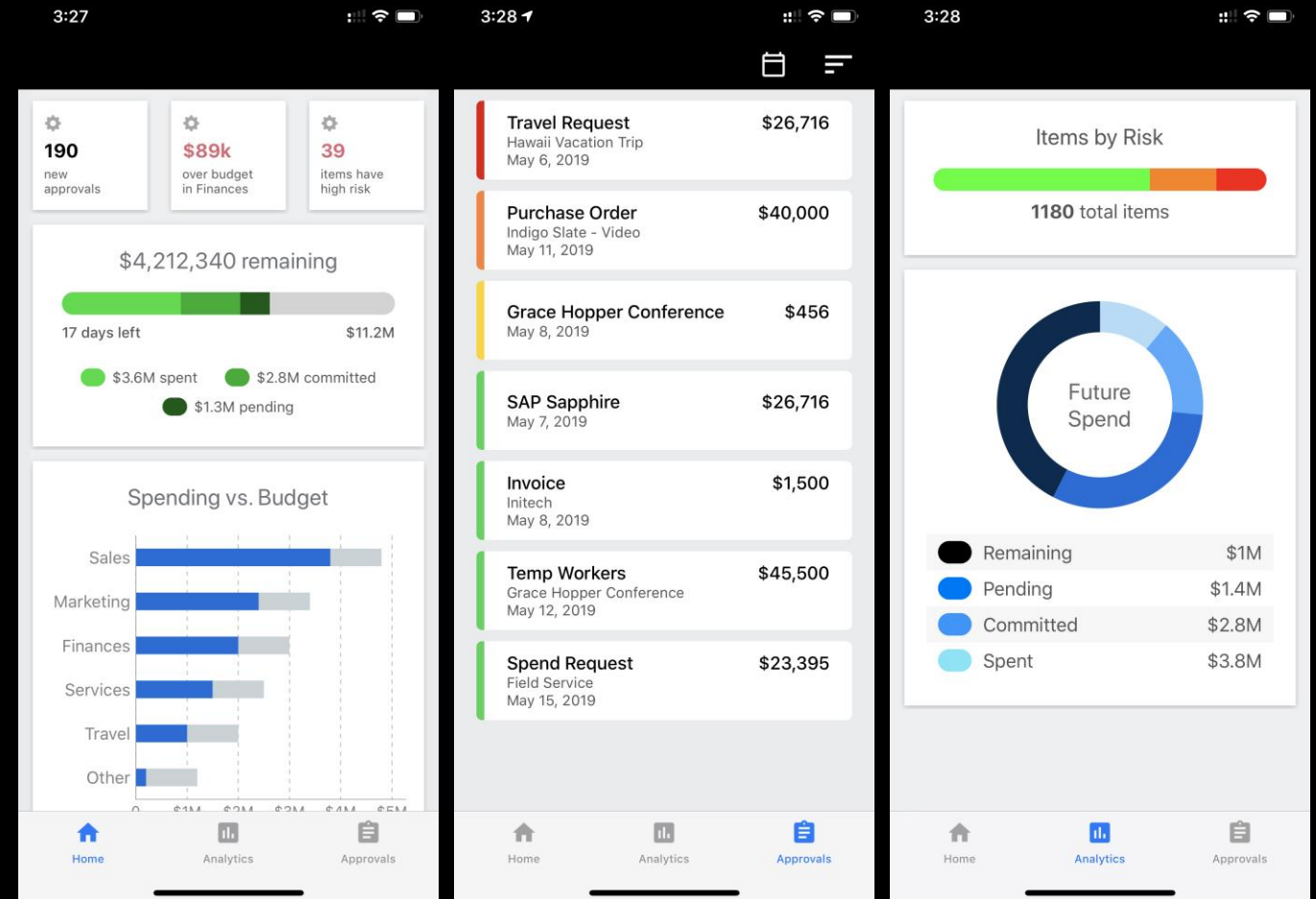
Spend visibility across
all spend categories



Digital assistant and
bot integration (Slack,
Teams, SAP CoPilot,
et cetera)



APIs connecting to
partners and
customer systems



Summary | Key Takeaways

Deliver significant value to your business through true end-to-end business process integration



Source to Contract

Business Scenario Description

Using SAP suite of solutions extend your SAP S/4HANA operational procurement processes with SAP Ariba Strategic Sourcing Suite and select the most cost-effective bids from millions of suppliers on Ariba Network. Leverage SAP Ariba Contracts to automate and accelerate entire contract lifecycle and strengthen operational, contractual and regulatory compliance

Value Drivers

- 1. Increased sourcing savings
- 2. Reduction in maverick spend
- 3. Increased compliance
- 4. One platform to manage all spend categories – Direct, Indirect, Critical MRO and Services
- 5. One platform for suppliers to collaborate on all spend
- 6. Faster time to value and lower TCO with end-to-end process leveraging suite qualities
- 7. Enhanced usability and experience

What's New

- 1. Sub-processes for Sourcing (4BL) and Contracts (4AZ)
- 2. Sourcing (4QN) and Contract process (4B0) with central procurement rolled out
- 3. 4BL, 4AZ, 4QN and 4B0 available for hybrid landscape with SAP S/4HANA on premise as of 2020 FPS1 release
- 4. Embedded Intelligence capabilities such as propose RFQ creation & predicted contract consumption available
- 5. Adoption of 5 suite qualities - Reference Architecture, Aligned Business APIs, Identity Authentication and SSO, Identity Provisioning and Lifecycle Mgmt., Consistent User Experience.

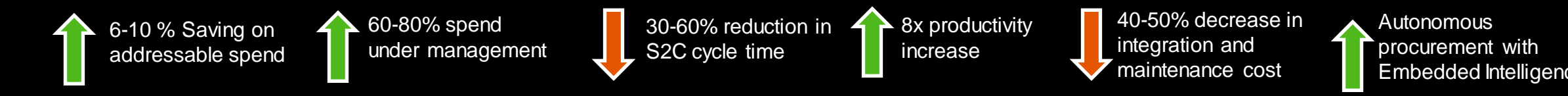
Roadmap 2021:

- 1. Sourcing and Contract process enhancements and extensibility planned
- 2. Adoption of suite qualities such as embedded analytics, auto provisioning and setup and front runner qualities such as OneInbox, MDS and Integration monitoring

Generic Process Flow



Business Outcomes



Procure to Pay

Business Scenario Description

Simple, smart and intuitive Guided Buying experience for employees help procurement organizations to scale their purchasing processes across spend categories while enforcing compliance. Users find items across catalogs, including partial items, line of business specific forms, and suppliers in a single search box. The process is seamlessly integration with SAP S/4HANA with purchase requisitions for follow on ordering process. SAP Ariba Commerce Automation integration with suppliers in Ariba Network, lets companies drive productivity with nearly touchless orders and invoices. Because payment is integrated, you can pay your suppliers automatically.

Value Drivers

1. Improved compliance
2. Increased productivity
3. Collaboration automation
4. Better working capital management, digitized invoice processing
5. One platform for trading partners/ suppliers to collaborate on all spends
6. Faster time to value and lower TCO with end-to-end process leveraging suite qualities
7. Best in class user experience

What's New

1. Sub-processes for Guided Buying (2NV), PO Invoice automation, quote automation and lean services collaboration (42K), SoW based procurement with external workforce (22K) and sell side integration (4A1)
2. Central procurement scenario with guided buying (3EN)
3. Embedded Intelligence with Image based buying, Intelligent Approval, Predict delivery of PO items, Catalog item proposals
4. Adoption of 5 suite qualities - Reference Architecture, Aligned Business APIs, Identity Authentication and SSO, Identity Provisioning and Lifecycle Mgmt. (partially, without network), Consistent User Experience

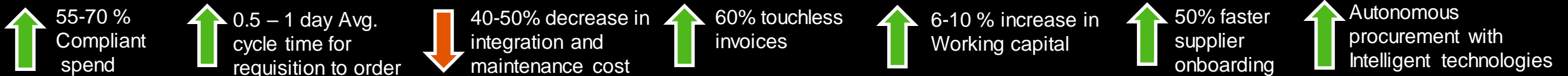
Roadmap 2021:

1. Process enhancements and extensions for commerce automation and guided buying
2. Service procurement and supply chain collaboration processes
3. Adoption of suite qualities such as embedded analytics, auto provisioning and setup and front runner qualities such as OnInbox, MDS and Integration monitoring

Generic Process Flow



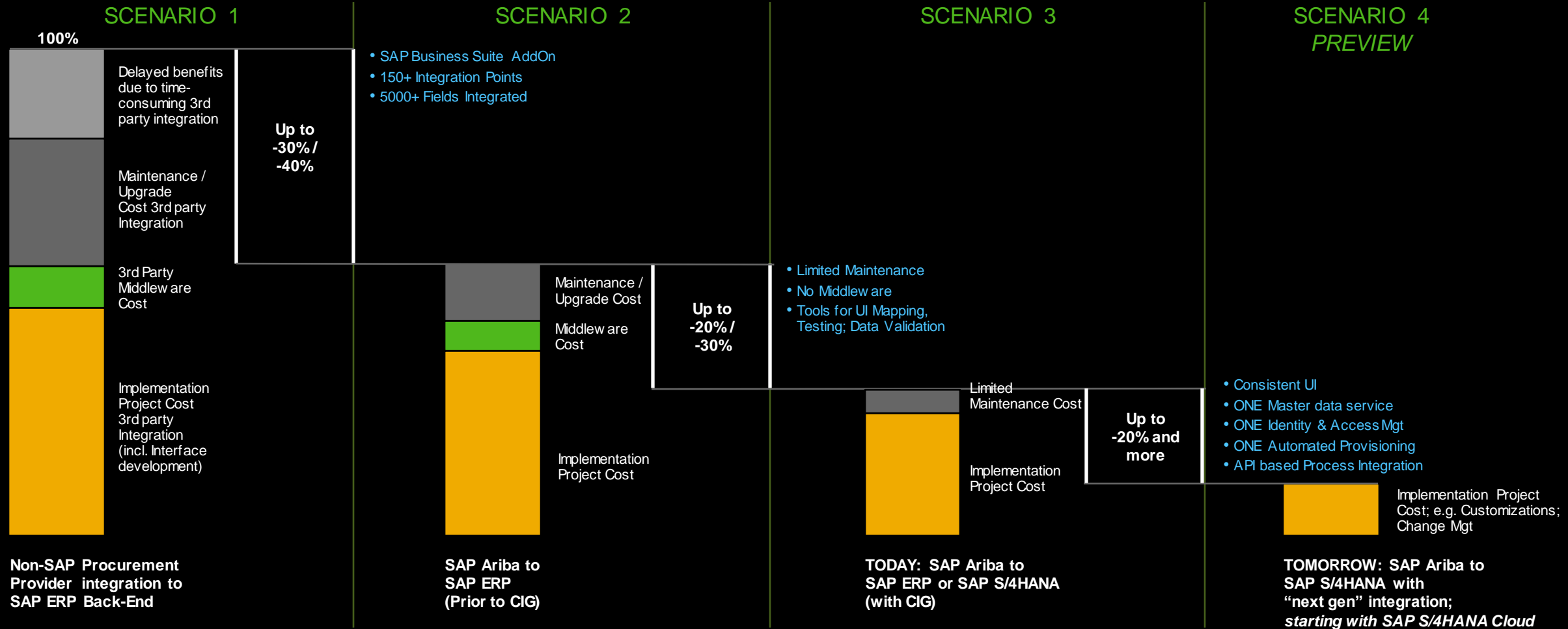
Business Outcomes



... Continued Cost (and Risk) Reduction through Standard Integration

Estimated SAP back-end integration TCO (comparison of selected Procurement integration scenarios)

Total cost comparison of SAP back-end integration scenarios (5 yrs, cumulative)



SAP Road Maps for the Intelligent Enterprise

[SAP Road Map Explorer](#)



Road Maps

BETA

Products

Processes

Industries

My Road Maps

Disclaimer

SAP Road Maps

BETA



Intelligent Enterprise Scenarios

Design to Operate
Recruit to Retire
Source to Pay
Lead to Cash

SAP Road Maps support the journey to SAP's future path. Explore our road maps, webinars, and transformation guides to learn more.

Search SAP Road Maps by keywords, topics, processes or products.



Contact Us



LEAD TO CASH
Customer

ROAD MAP



SOURCE TO PAY
Finance & Procurement

ROAD MAP



RECRUIT TO RETIRE
Human Resources

ROAD MAP



DESIGN TO OPERATE
Manufacturing & Supply Chain

ROAD MAP



Thank you !

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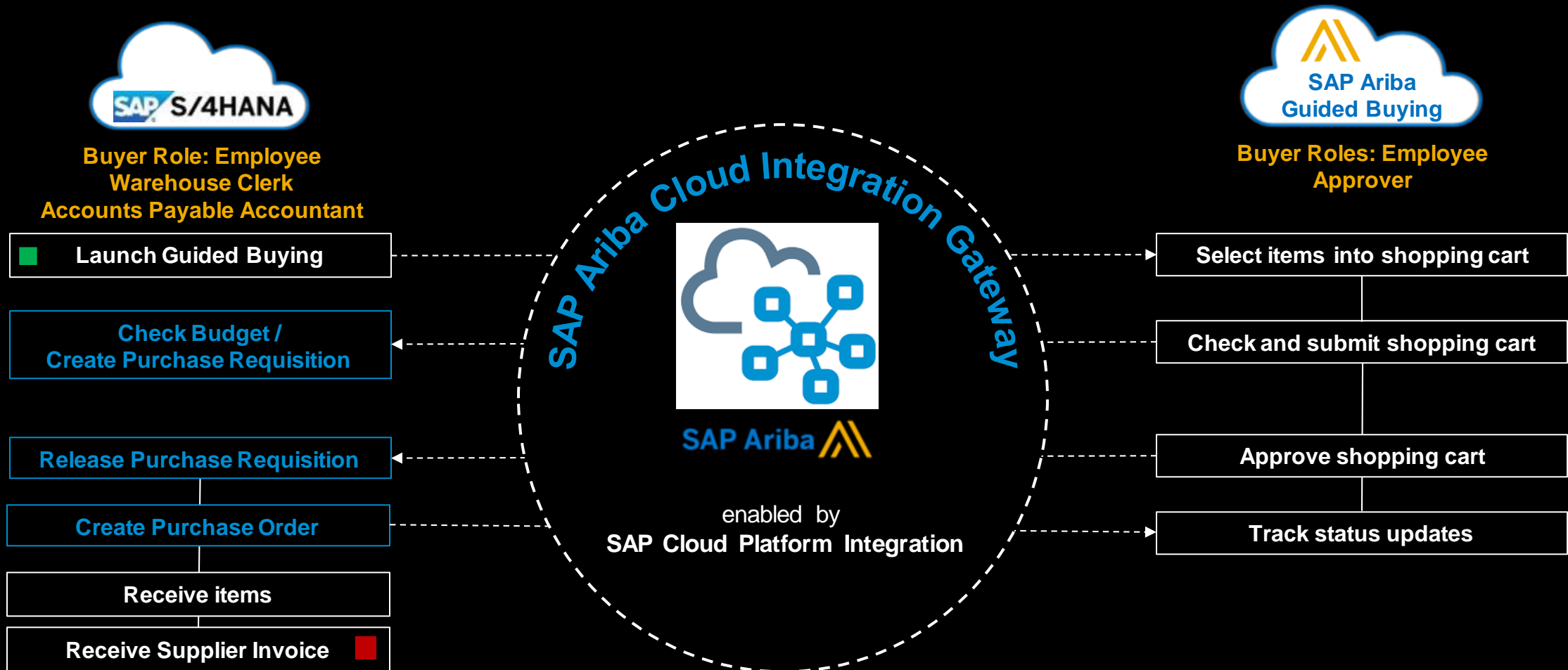
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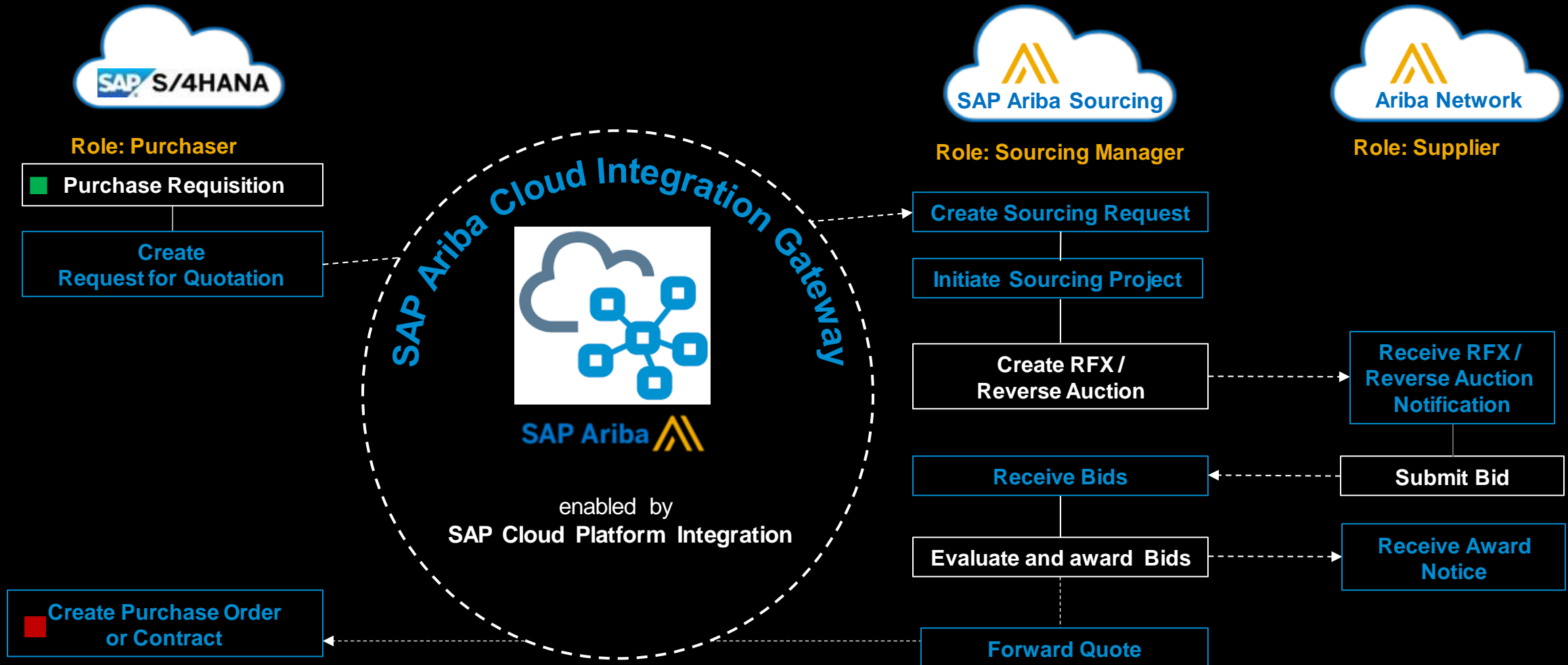
Integration of SAP S/4HANA Cloud with SAP Ariba Guided Buying (1911)

Legend:  Process step (mainly manual)  Process step (mainly automatic)  Start process  End Process



Integration of SAP S/4HANA Cloud with SAP Ariba Sourcing (1911)

Legend: □ Process step (mainly manual) □ Process step (mainly automatic) ■ Start process ■ End Process

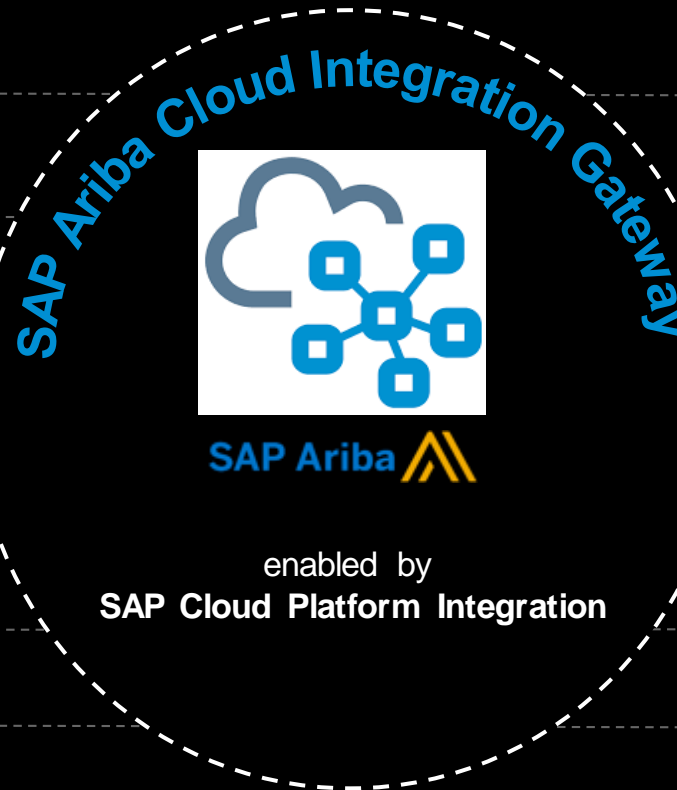
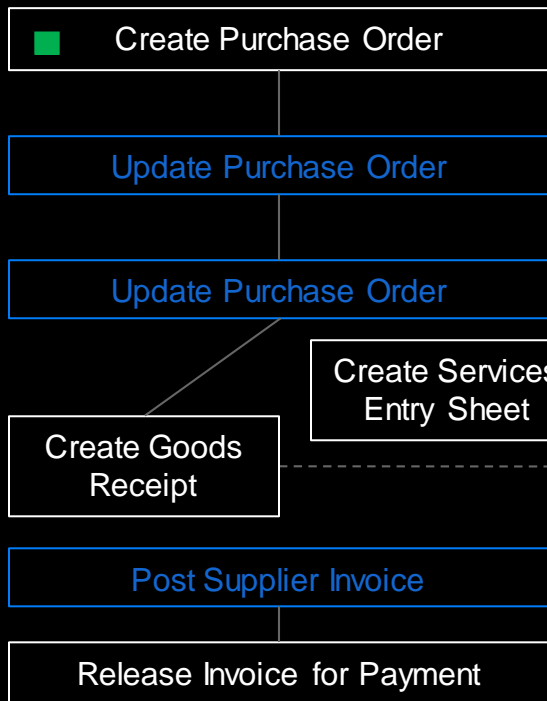


Integration of SAP S/4HANA Cloud with SAP Ariba Commerce Automation

Legend: Process step (mainly manual) Process step (mainly automatic) Start process End Process

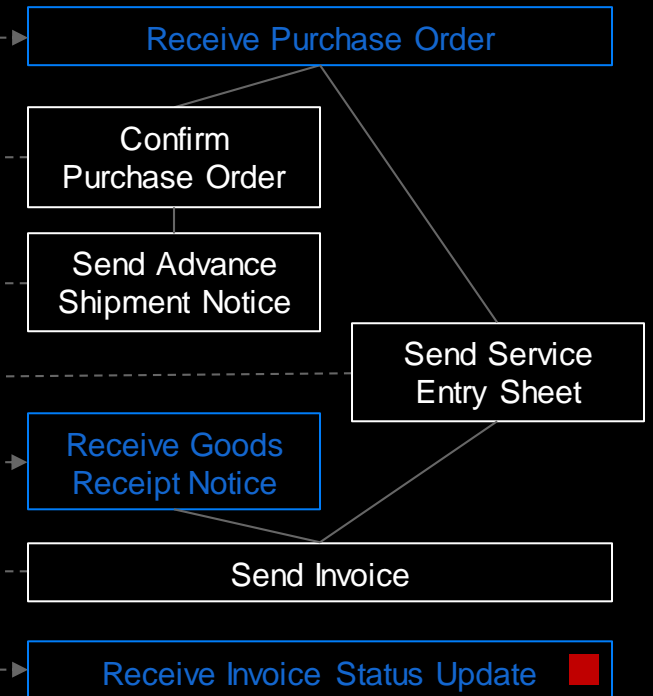
SAP S/4HANA Cloud

Buyer Roles: Purchaser, Warehouse Clerk



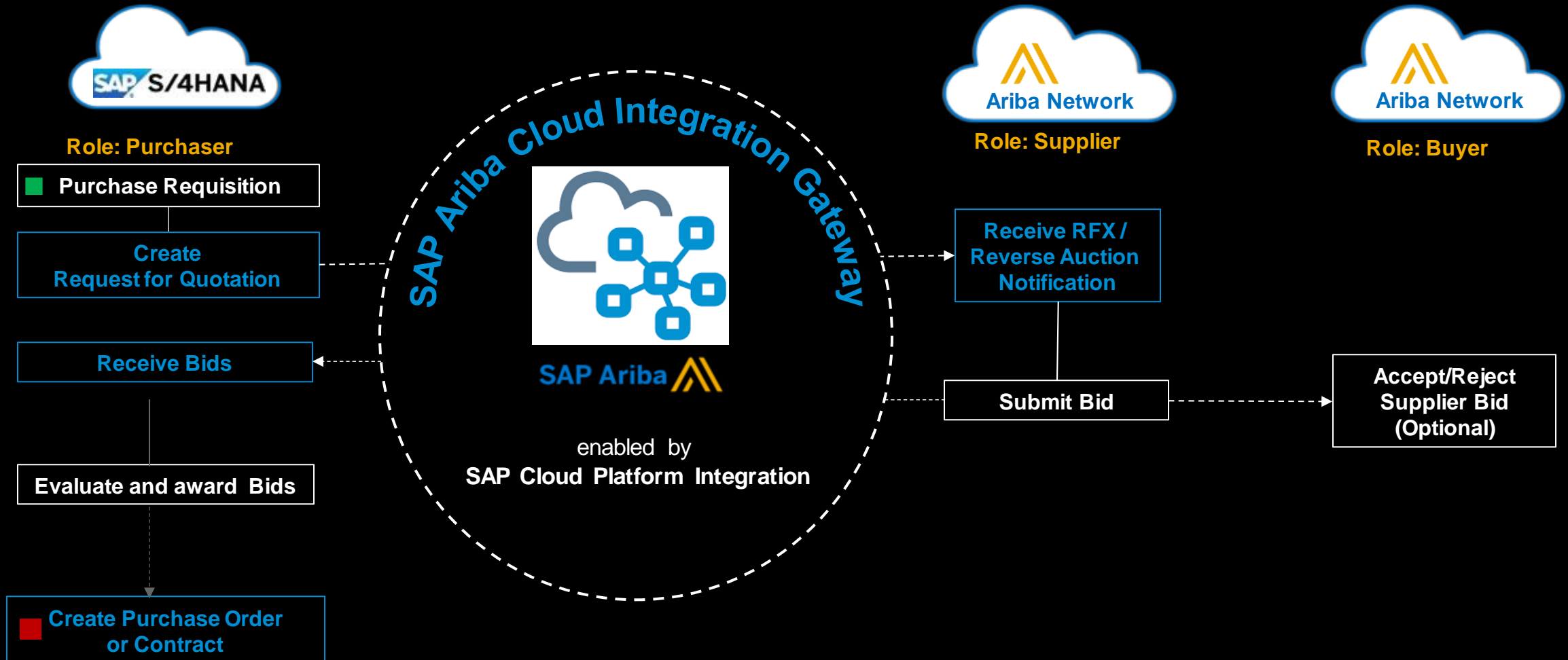
Ariba Network

Supplier Roles: Sales Rep, AR Accountant



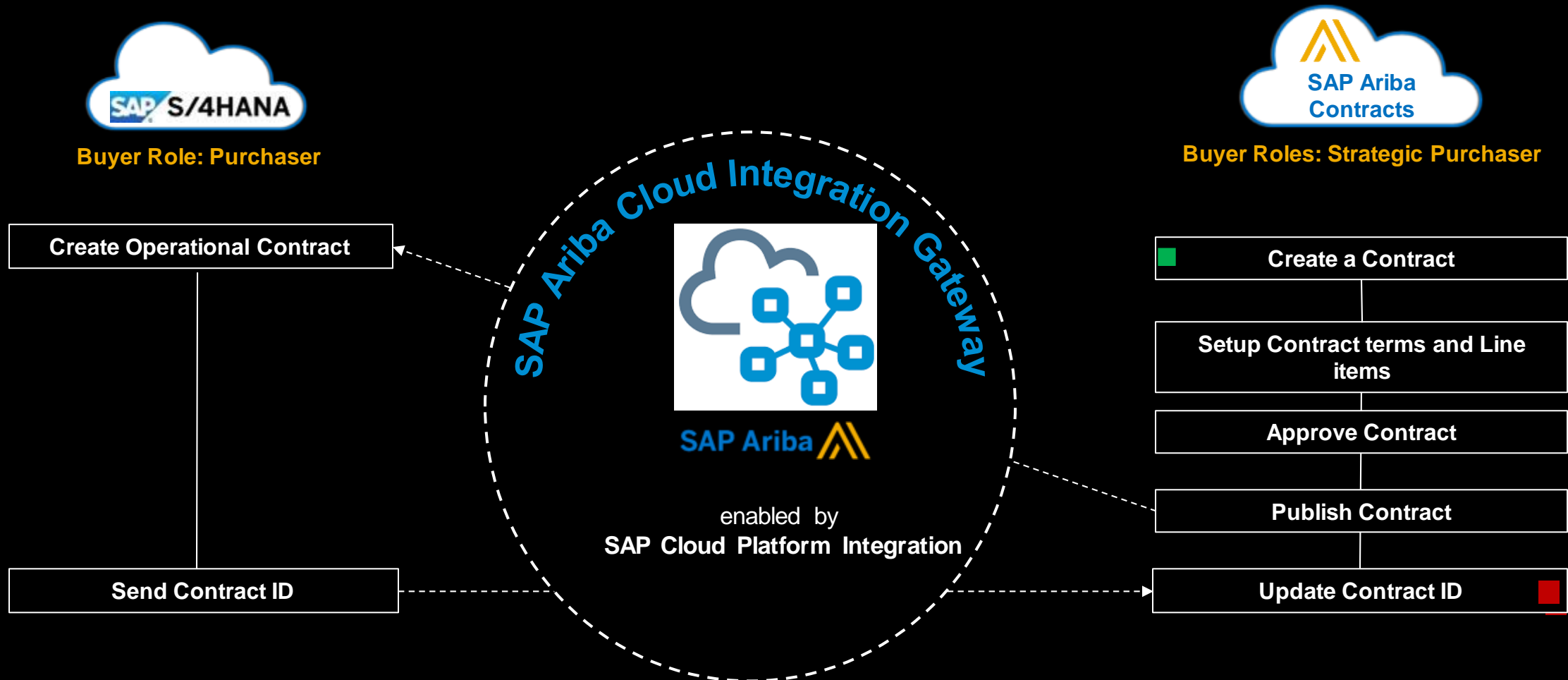
Integration of SAP S/4HANA Cloud with SAP Ariba Quote Automation (1911)

Legend:  Process step (mainly manual)  Process step (mainly automatic)  Start process  End Process

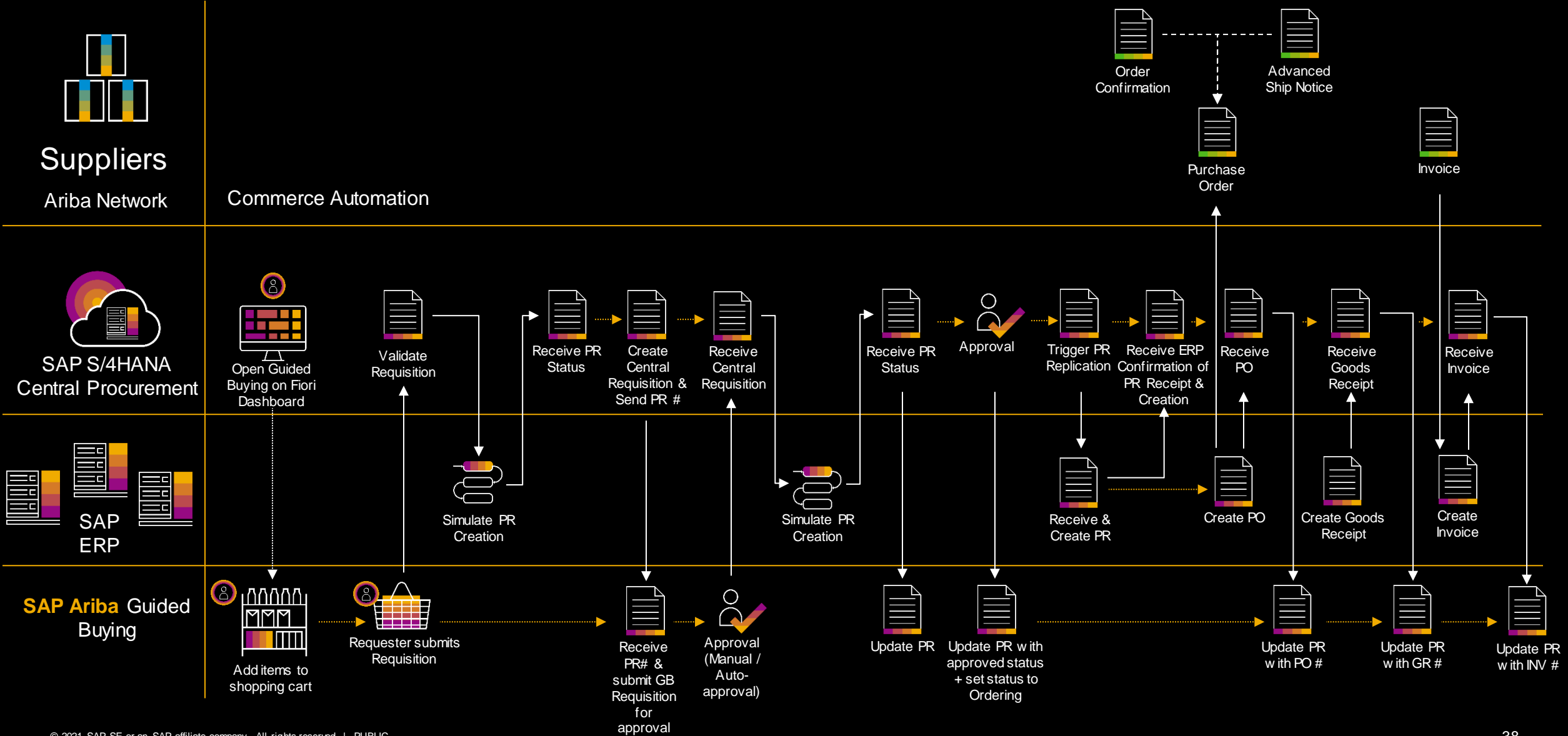


Process flow: Integration of SAP S/4HANA Cloud with SAP Ariba Contracts (2002)

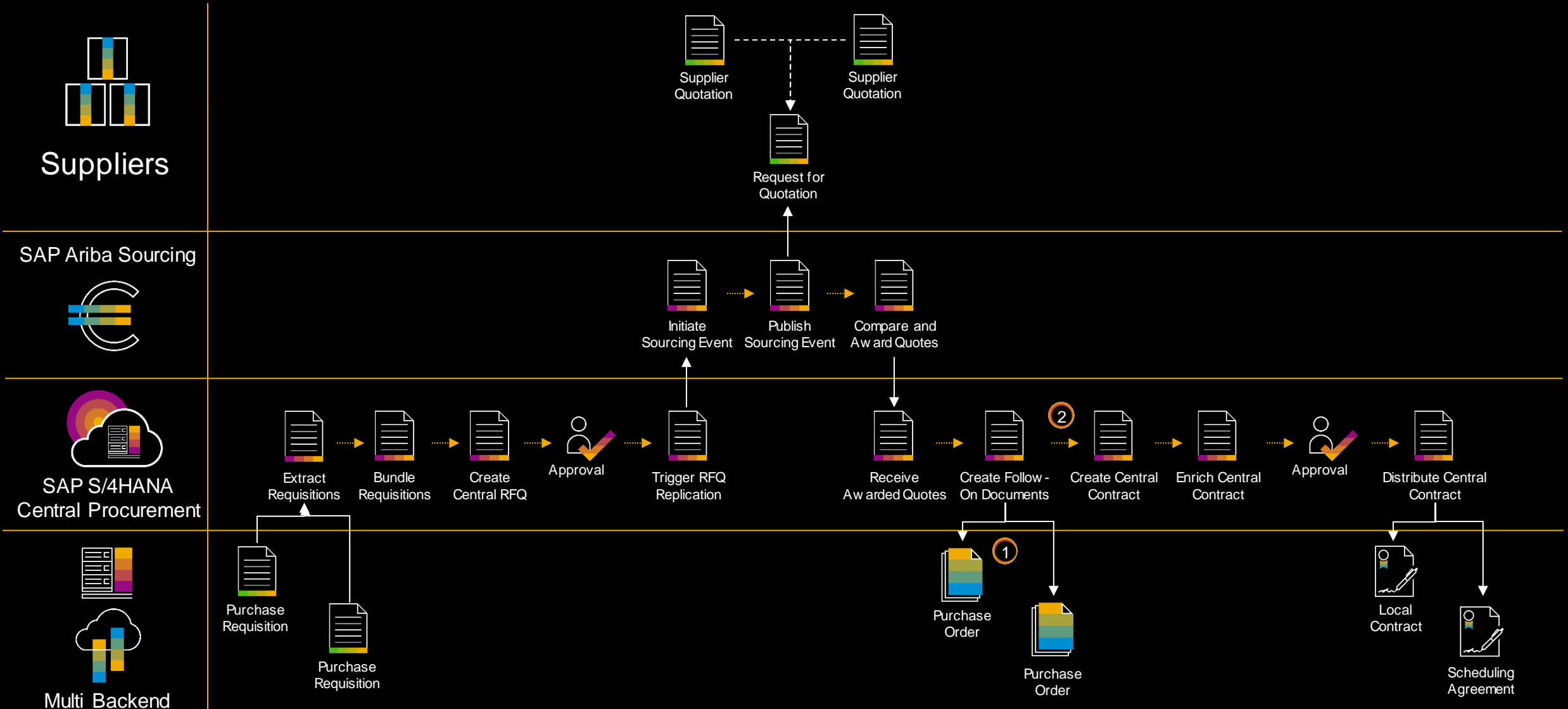
Legend: □ Process step (mainly manual) □ Process step (mainly automatic) ■ Start process ■ End Process



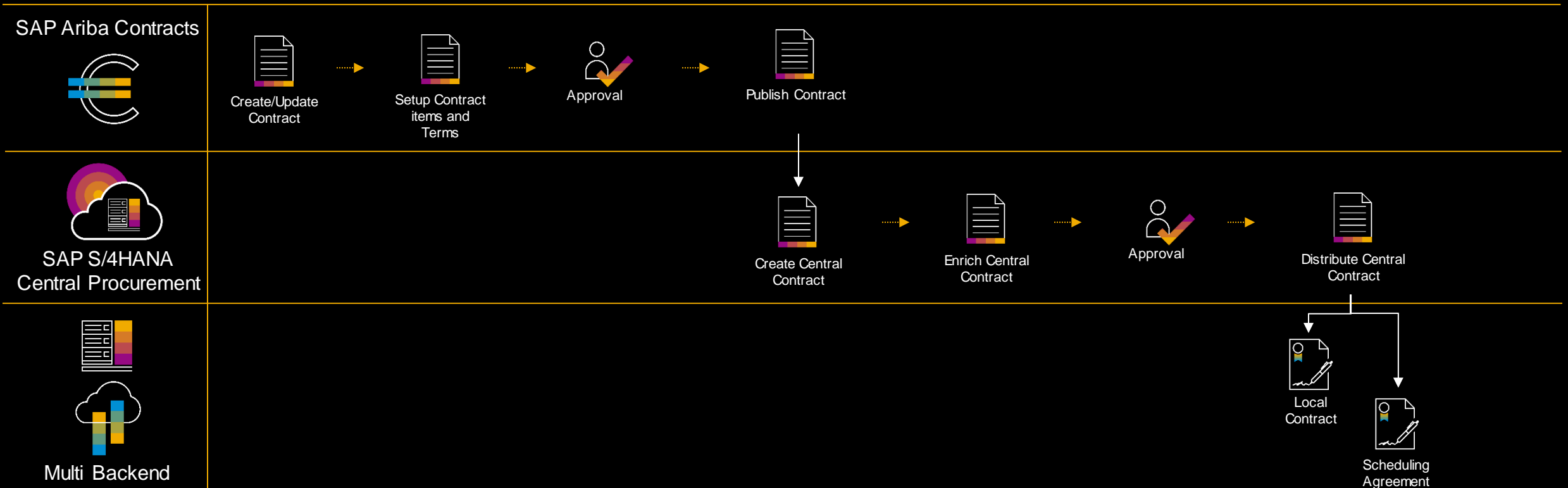
Guided Buying for Central Procurement with SAP Ariba Buying (3EN, 42K Scope)



Ariba Sourcing Integration with S/4HANA Cloud for Central Procurement



Ariba Contract Integration with S/4HANA Cloud for Central Procurement



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