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SAP Activate

SAP S/4HANA Public Edition

Trainer: Mr Giridharan Somaskandan

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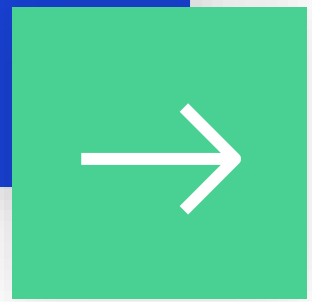
SAP S/4HANA Public Edition : SAP Activate –Certification



Implementation Consultant - SAP S/4HANA Cloud Public Edition

SAP Certified Associate - Implementation Consultant - SAP S/4HANA Cloud Public Edition

60 Questions | 2 hrs | 67% cut score | View sample questions

Overview

This certification verifies that you possess the core skills required to explain and execute core implementation project tasks to deploy, adopt, and extend SAP S/4HANA Cloud Public Edition. This certification is designed for implementation project members to prove their overall understanding and in-depth skills to participate in their role as members of a SAP S/4HANA Cloud Public Edition implementation project.

Roles

Consultant

Available Languages

- English

https://learning.sap.com/certifications/sap-certified-associate-implementation-consultant-sap-s-4hana-cloud-public-edition

Topic Areas

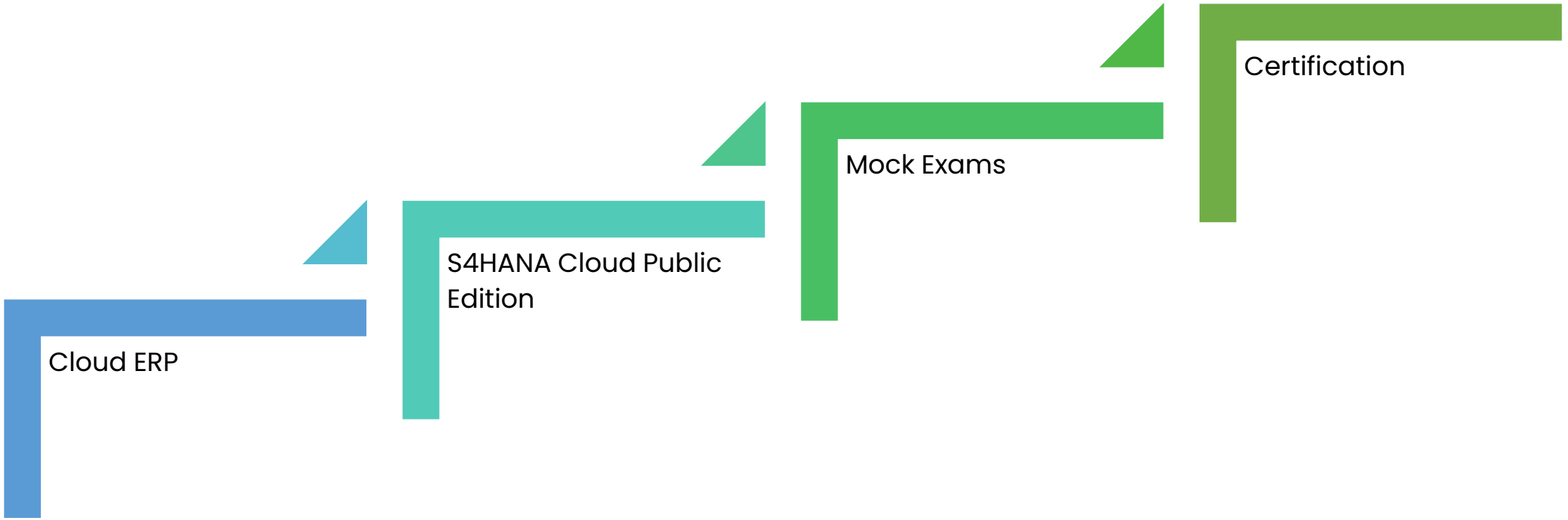
60 Questions 2 hrs 67% cut score View sample questions

https://training.sap.com/certification/c_s4cpb_2402-sap-certified-associate--implementation-consultant---sap-s4hana-cloud-public-edition-g/?

- Introduction to Cloud Computing and SAP Cloud ERP Deployment Options 11% - 20%
- Implementing with a Cloud Mindset, Building the Team, and Conducting Fit-to-Standard Workshops 11% - 20%
- System Landscapes and Identity Access Management 11% - 20%
- Configuration and the SAP Fiori Launchpad 11% - 20%
- Extensibility and Integration 11% - 20%
- Data Migration and Business Process Testing 11% - 20%

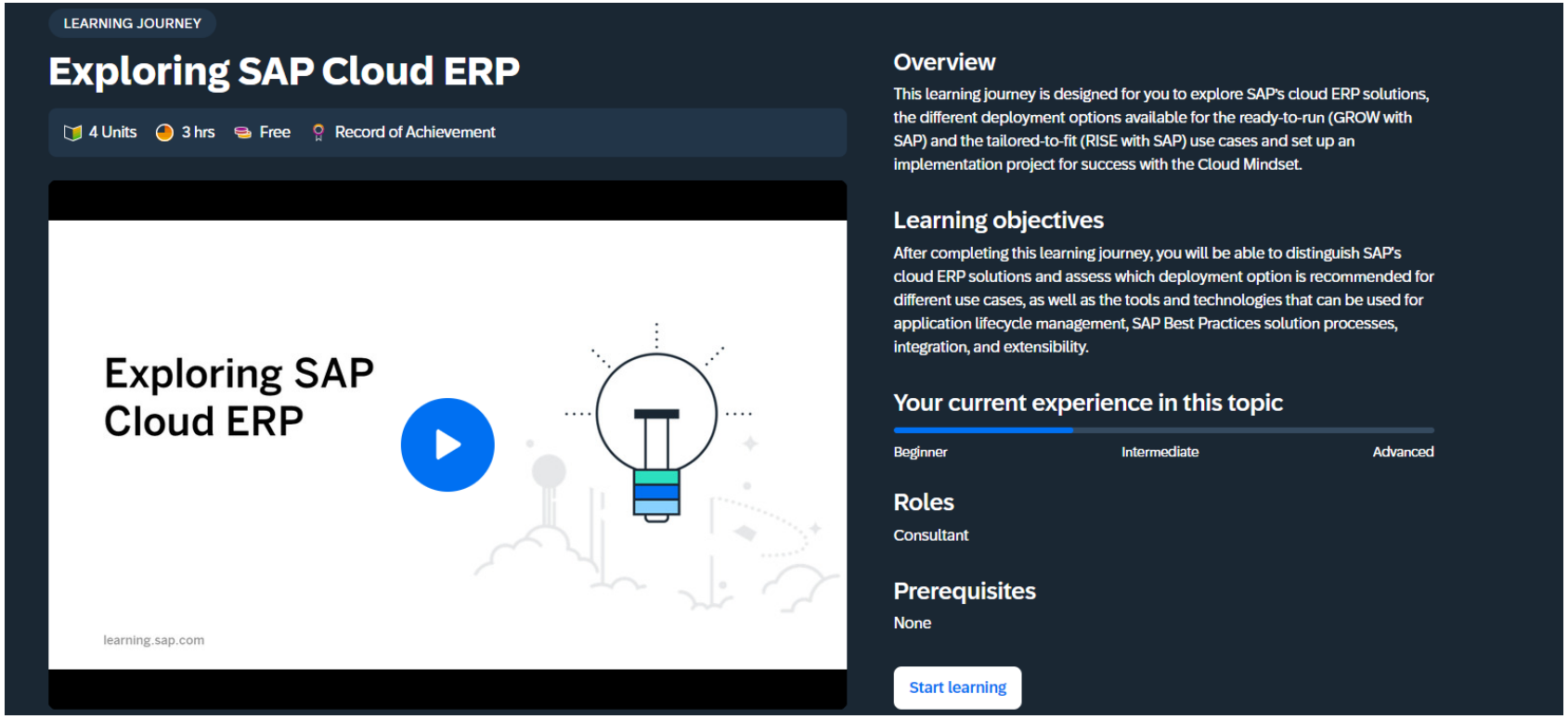
Your Journey to Certification

“20h : Preparation Time required



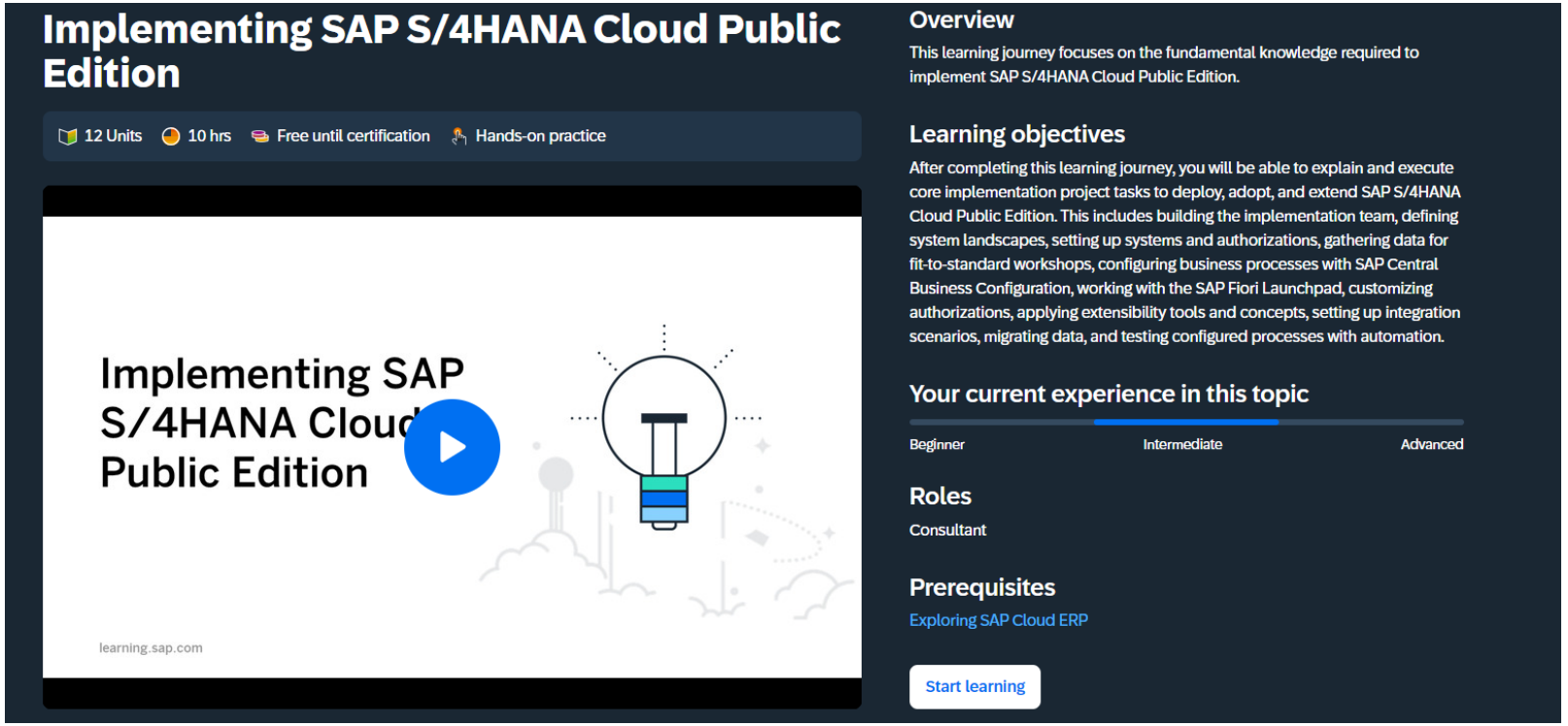
Exploring Cloud ERP

https://learning.sap.com/learning-journey/explore-sap-cloud-erp

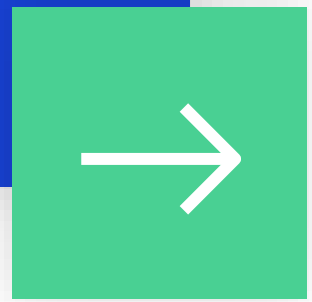


Implementing SAP S/4HANA Cloud Public Edition

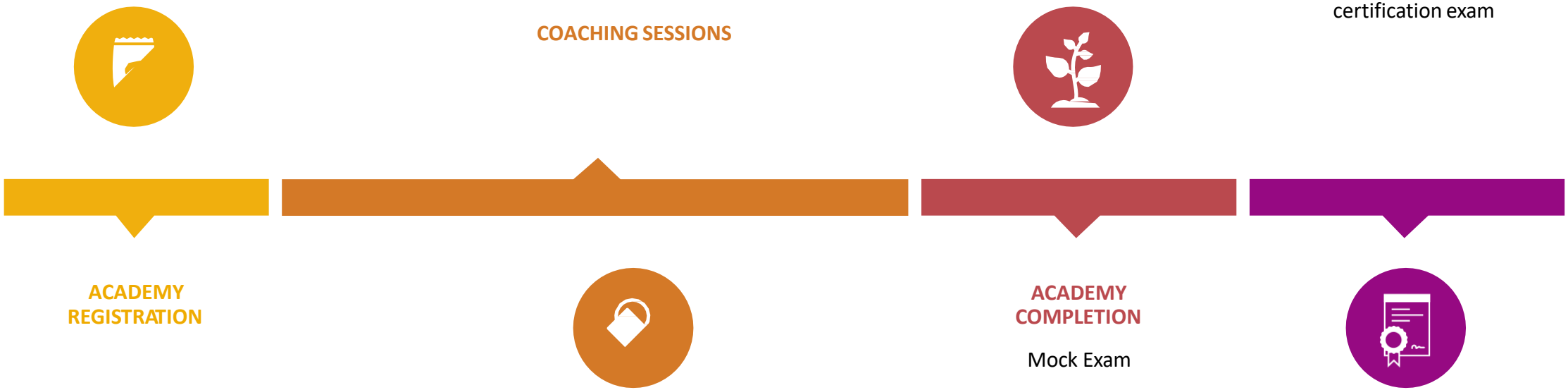
https://learning.sap.com/learning-journeys/implementing-sap-s-4-hana-cloud-public-edition



Certification Course Academy



Certification Journey



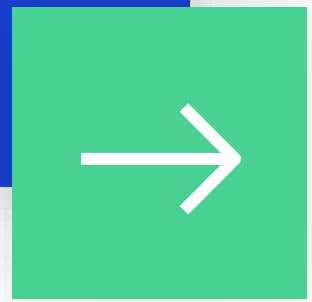
https://knowledgecom.izeberg.ai/

TEAMS link : https://bit.ly/4aYZafn

Key to Success

- ✓ Self Studies in SAP Learning Hub and Learning Journey
  - ✓ Read all the contents and make notes
  - ✓ Complete the quiz at the end of each topic
- ✓ Attend all Coaching sessions
  - ✓ Fast-track to certification
  - ✓ Clarification sessions
- ✓ Take Notes (Handwritten or Digital)
- ✓ Use Practice system and complete the practical exercises for the topic
  - ✓ Don’t skip any exercises
  - ✓ Demo/watching videos alone won’t be sufficient
- ✓ Mock Exams
  - ✓ Take as many mock exams as you like

Cloud ERP



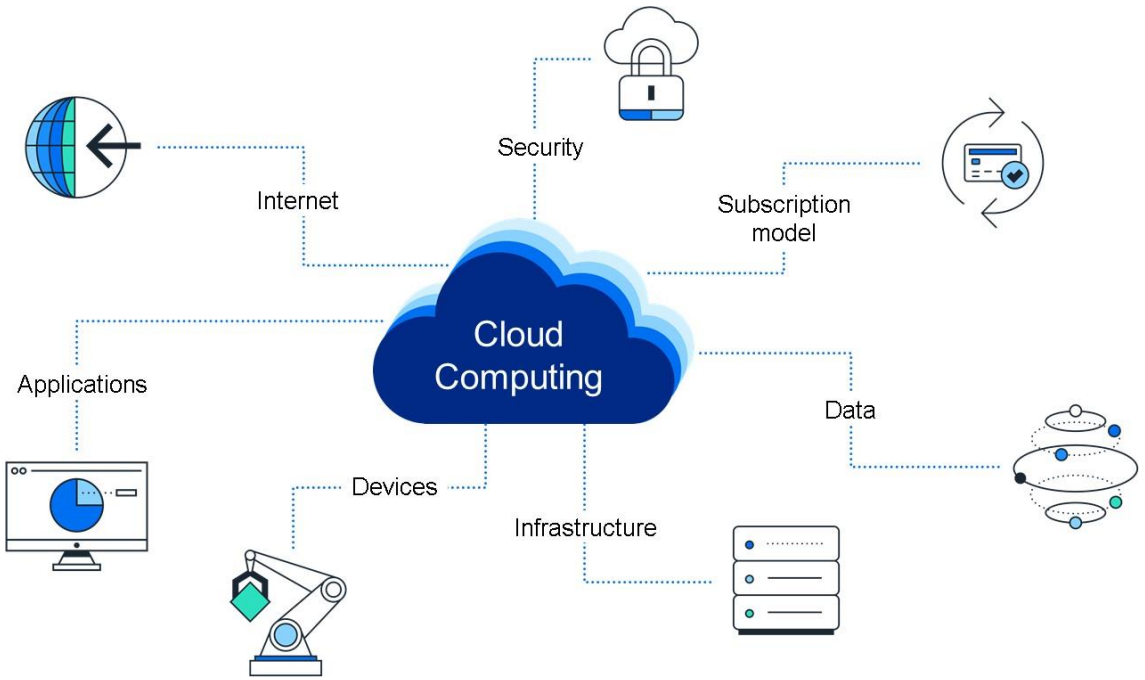
Introducing Cloud Computing

4 Lessons 25 mins

After completing this unit, you will be able to:

- Summarize the foundational concepts of cloud computing
- Differentiate between the three cloud deployment models
- Differentiate between the three cloud computing services
- Map SAP products to computing services
- Explain governance responsibilities for the cloud deployment models and computing services

Identifying Foundational Concepts of Cloud Computing

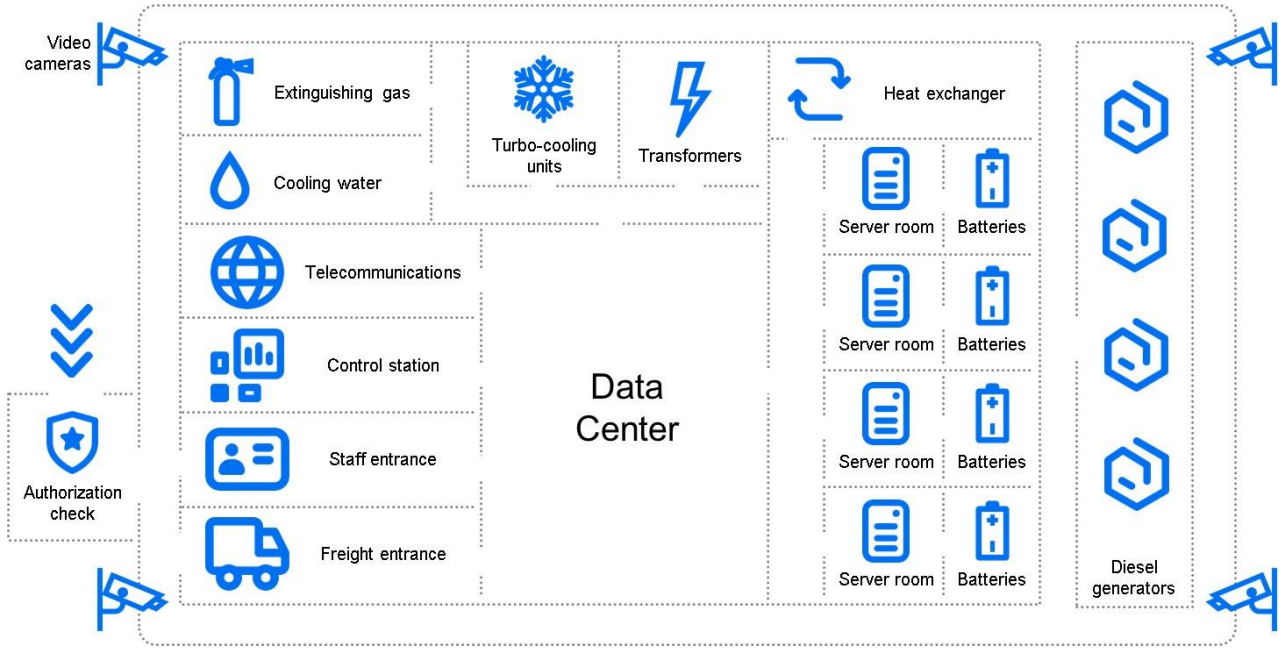


- Cloud computing encompasses the delivery of various computing resources over the Internet.
- Resources include applications, platforms, data storage, and operating systems.
- Subscription-based model: Users pay a regular fee to access services from third-party providers.
- Eliminates the need for on-premises infrastructure and maintenance costs.
- Offers scalability, flexibility, and accessibility from anywhere with an internet connection.
- Common cloud service models include Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

Cloud Benefits

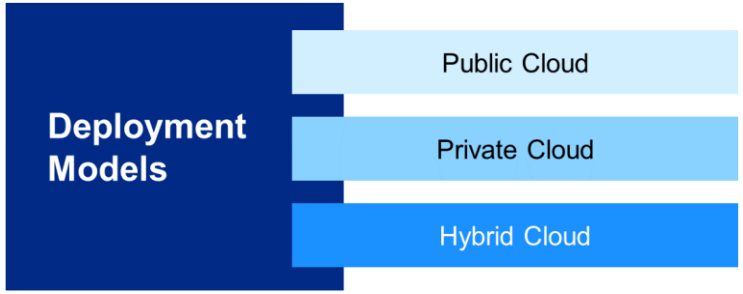
Benefit	Description
Elasticity	Increase or decrease the storage space and computing power you need to meet fluctuating workload requirements.
Affordability	Minimize hardware and IT (Information Technology) department costs; only pay for what you use.
Availability	24 x 7 x 365 system access from anywhere, on any device.
Security	Improve compliance, protect data, and mitigate risk with continuous security updates from the cloud provider.
Innovation	Rapidly adopt new technologies to innovate faster, while simplifying the IT department's maintenance responsibilities.
Agility	Set-up cloud system(s) to quickly react to changing market conditions and business needs.

Where does your data live?



- Data for cloud computing services resides in data centers.
- Data centers consist of power supply, cooling systems, and controlled access for security.
- Power supply includes redundant grids and backup diesel generators.
- Cooling systems are vital to maintain the efficiency of electronic components.
- Controlled access is ensured through rigorous security measures including surveillance, access control, and biometric scans.
- Additional security measures include encrypted communication between data centers, backup retention procedures, monitoring and logging access, and technical security features.
- Technical security features include a proprietary network architecture, web dispatcher farm, multiple internet connections, layered security measures, firewalls, and third-party audits for security validation.

Differentiating Cloud Deployment Models



Public Cloud:

- Multi-tenant server setup where customers share resources.
- Each customer has their own isolated "cloud container."
- Low total cost of ownership (TCO) due to shared resources and provider maintenance.
- Highest level of resource sharing, akin to an apartment building.

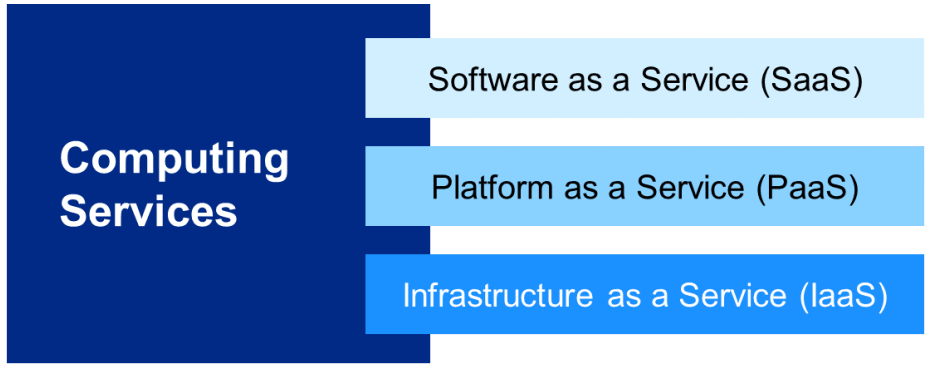
Private Cloud:

- Single-tenant server setup, each customer has dedicated resources.
- Subscription-based model with off-site servers managed by the provider.
- More customization options compared to public cloud.
- Lower TCO than on-premise but higher than public cloud due to server maintenance.

Hybrid Cloud:

- Combination of cloud (public/private) and on-premise solutions.
- Allows for diverse landscapes and integration of multiple solutions.
- SAP Business Technology Platform facilitates cloud-native integrations for data integration.

Differentiating Cloud Computing Services



Software as a Service (SaaS):

- Hosted applications provided by a cloud provider accessible over the internet.
- Designed for specific end-to-end activities with predefined process flows.
- Customers access applications via web browsers.
- Continuous development of enhancements and features by the provider.
- Upgrades installed regularly by the provider; optional for SAP S/4HANA Cloud, Private Edition.

Platform as a Service (PaaS):

- Cloud provider hosts a development platform and related services.
- Subscribers use development tools to create applications.
- Developers choose services for specific needs.
- Accessible over the internet.
- Enables development, configuration, and management of applications.

Infrastructure as a Service (IaaS):

- Cloud provider hosts servers, storage, and virtual computing resources.
- Customers "rent" access to resources on a pay-per-use basis.
- Eliminates need for upfront hardware purchase and setup.
- Provider handles infrastructure maintenance and backups.
- Example: Subscribing to a document storage service like iCloud or Google Drive to upload and store files.

SAP Solutions Mapped to Computing Services

Examples of SAP SaaS Solutions*

- SAP S/4HANA Cloud
- SAP SuccessFactors
- SAP Fieldglass
- SAP Ariba
- SAP Concur
- SAP Customer Experience

SAP's PaaS Solution

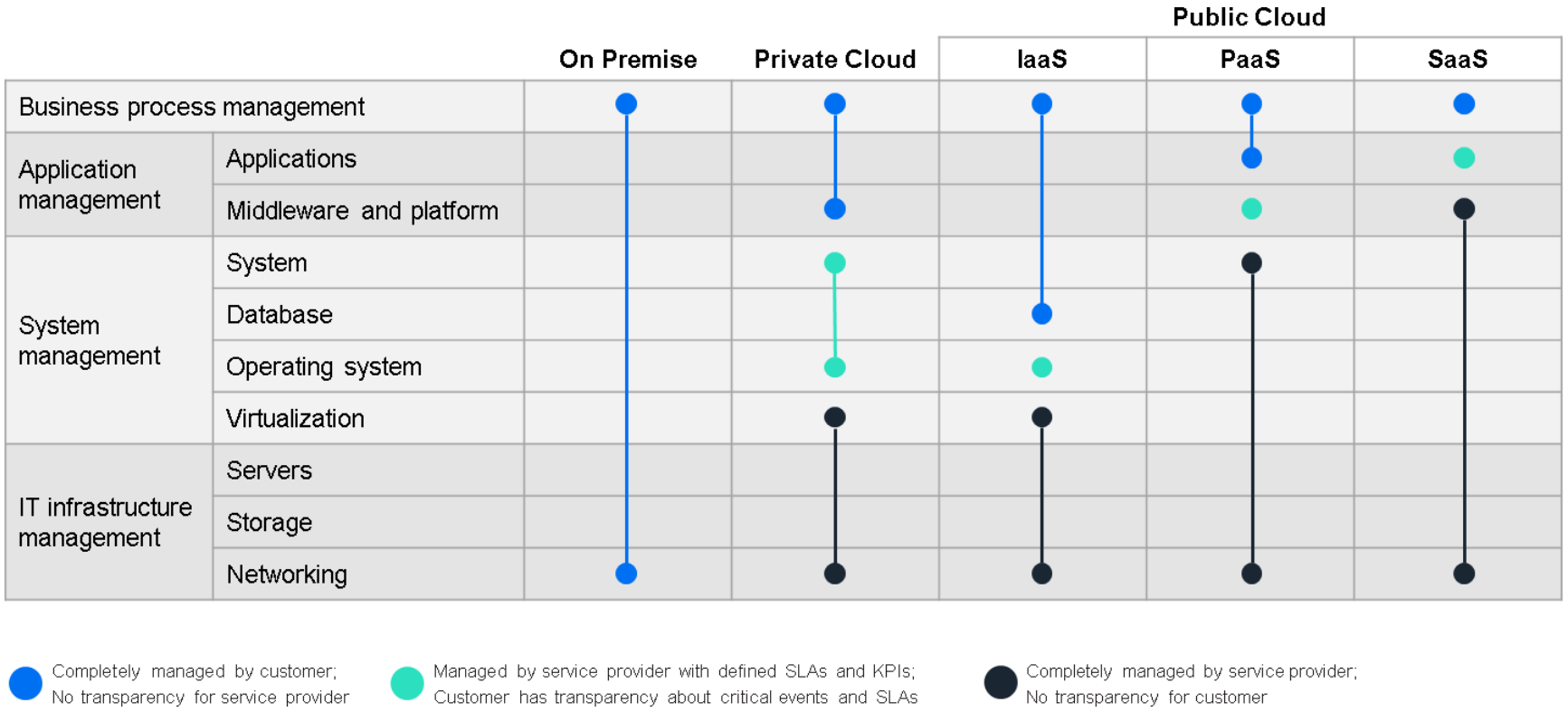
SAP Business Technology Platform

SAP's Managed IaaS Solution

SAP HANA Enterprise Cloud

*This is not a comprehensive list of ALL SaaS solutions from SAP

Deployment Models and Operational Responsibility



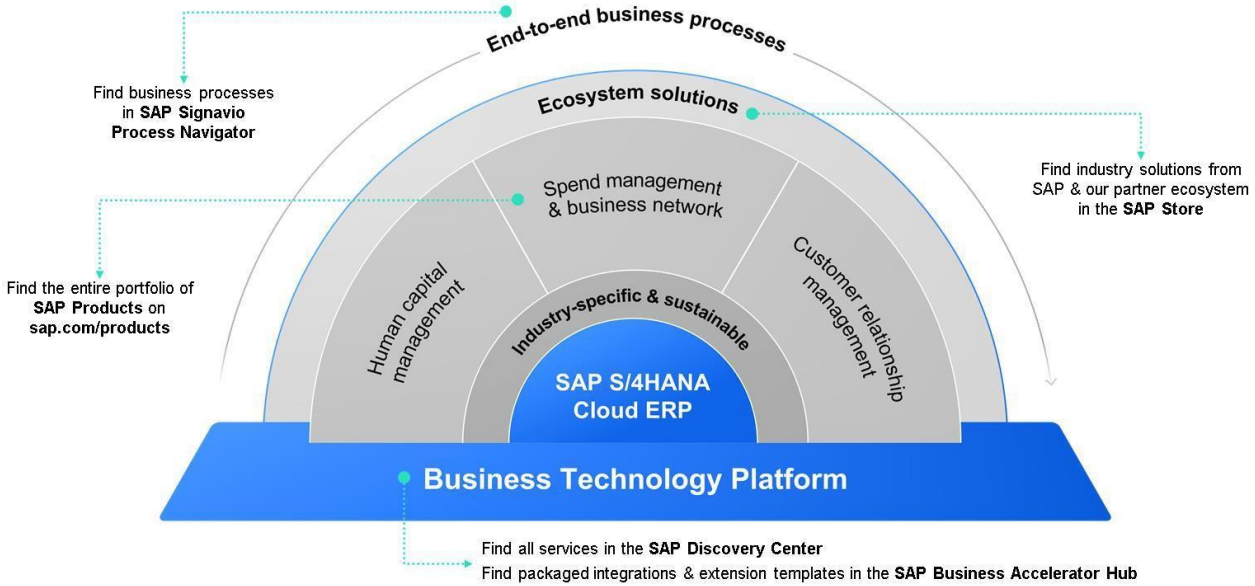
Navigating SAP's Portfolio with Embedded Intelligence & Sustainability

3 Lessons 30 mins

After completing this unit, you will be able to:

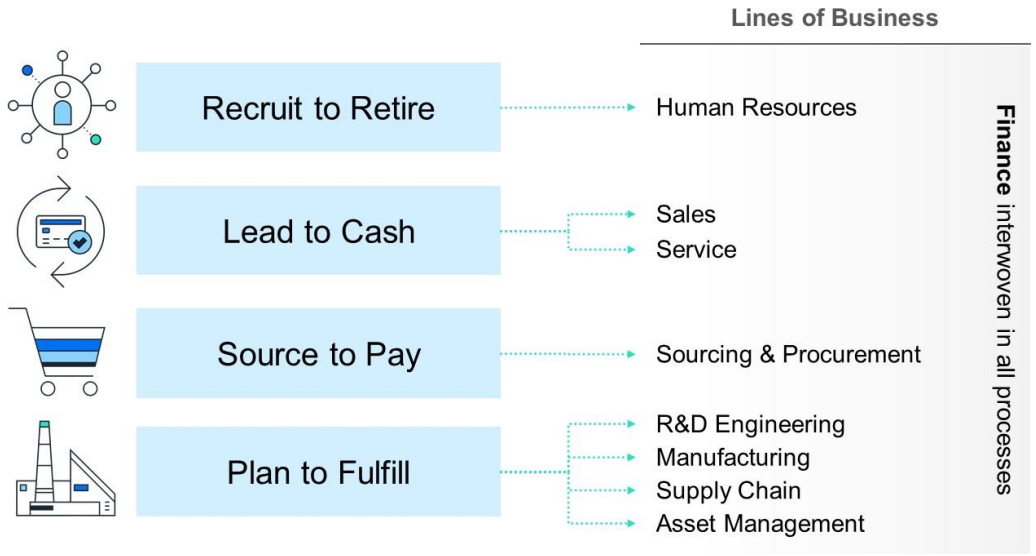
- Summarize the main components of SAP's Cloud ERP portfolio
- Define how artificial intelligence is embedded in SAP's solutions
- Explain how sustainability is interwoven in SAP's solutions

SAP's Cloud ERP Portfolio



- Central component: SAP S/4HANA Cloud ERP core (Public Edition or Private Edition).
- Supported by SAP Business Technology Platform (BTP) for integrations and extensions.
- Access to integration packages and extension templates on SAP Business Accelerator Hub.
- Examples of usage scenarios and costs associated with using integration packages and extensions.
- Line of Business (LoB) and industry-specific applications complementing Cloud ERP.
- Business process documentation available in SAP Signavio Process Navigator.
- Industry cloud solutions available in the SAP Store.
- Additional capabilities may be required in areas like Human Capital Management (HCM), Spend Management & Business Network, and Customer Relationship Management (CRM).

Core End-to-End Business Processes



Recruit to Retire:

- Essential business scenario covering the entire employee lifecycle.
- Includes hiring, training, task assignment, health management, and payroll.
- SAP enables understanding, management, and optimization of workforce aspects.
- Focus on time recording and integration with customer's HR system in SAP S/4HANA Cloud.

Lead to Cash:

- Manages customer experience from sales to revenue realization.
- Covers initial interaction, order fulfillment, and service delivery.
- Processes adaptable based on industry, customer type, and sales channels.
- Available in Sales, Service, and Professional Services LoBs in public cloud.

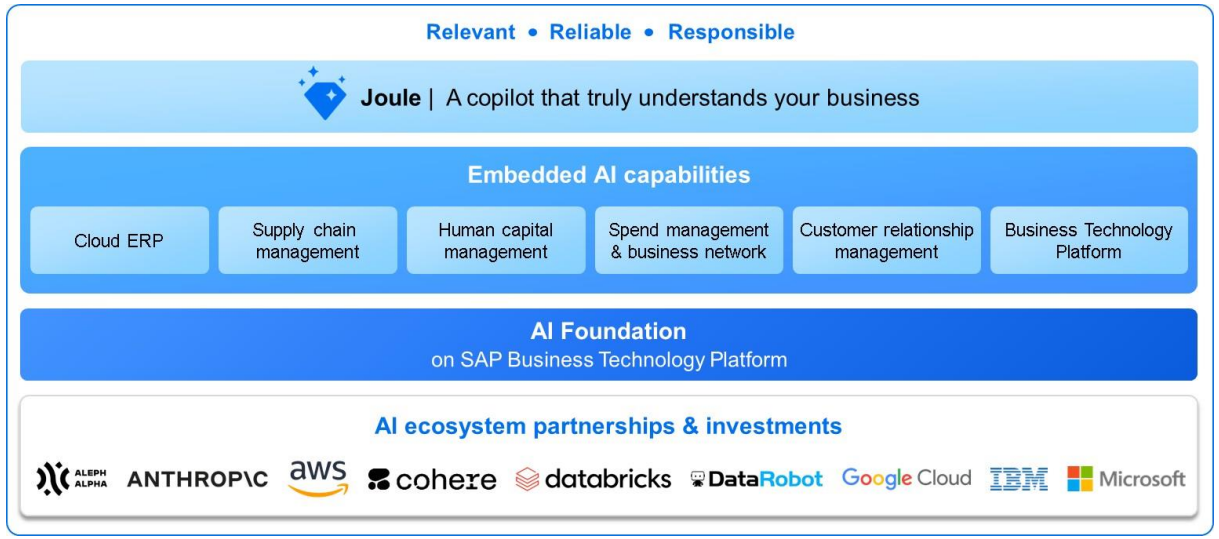
Source to Pay:

- Maximizes sourcing and procurement impact and potential.
- Leverages data, predictive analytics, and machine learning.
- Provides seamless sourcing and procurement experience in SAP S/4HANA Cloud and SAP Ariba.
- Allows buyers and suppliers to efficiently manage sales cycle and cash flow.

Plan to Fulfill:

- End-to-end processes managing digital supply chain resilience.
- Encompasses planning, manufacturing, and product delivery.
- Utilizes R&D Engineering, Manufacturing, Supply Chain, and Asset Management LoBs.
- Supports both discrete and process manufacturing for tangible and intangible goods.

Artificial Intelligence in SAP Solutions



SAP Business AI Overview:

- Embedded across SAP's entire portfolio of solutions.
- Provides AI services tailored to specific business processes.
- Examples include business document processing, data attribute recommendations, and Robotic Process Automation templates.

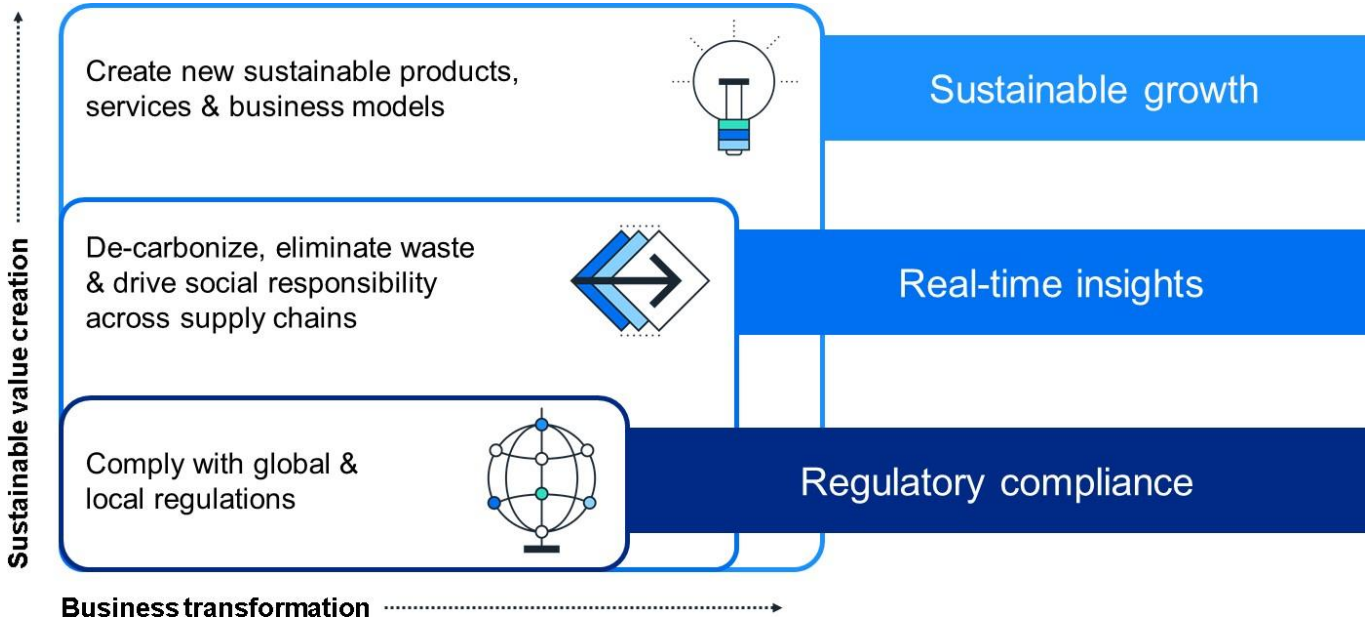
Data Foundation:

- Data is essential for business AI.
- SAP offers the foundation (SAP Business Technology Platform) and services (SAP Datasphere, Analytics Cloud, Integration Suite) for connecting and modeling data across applications.
- Strategic partnerships with industry leaders (e.g., Microsoft Teams, Google Workspace) embed their technology into SAP products or enable customers to build custom machine learning models securely on SAP data.

Objective:

- Aim to provide customers with a comprehensive cloud ERP.
- Goal is to optimize and automate processes, and gain insights through data.
- Empowers customers to make informed decisions for their businesses.

Sustainability in SAP Solutions



Overall Impact:

- Helps businesses align with sustainability goals and make meaningful contributions to environmental and social well-being.

Sustainability Integration:

- SAP embeds sustainability insights into end-to-end business processes.
- Enables customers to prioritize sustainability as a core aspect of their operations.

Dedicated Solution: SAP Cloud for Sustainable Enterprises:

- Designed to help customers reduce emissions, achieve zero waste, and maintain social responsibility.
- Supports regulatory compliance, real-time insights, and sustainable growth.

Compliance and Transparency:

- Provides deep transparency into financial and non-financial data.
- Helps customers proactively ensure compliance with global and local regulations, taxation, and sanctions.

Real-Time Data for Improvement:

- Real-time data allows assessment of carbon footprint and identifies areas for improvement.
- Encourages the adoption of circular business models to reduce waste and promote sustainability.
- Supports initiatives such as waste-to-energy projects to minimize landfill emissions.

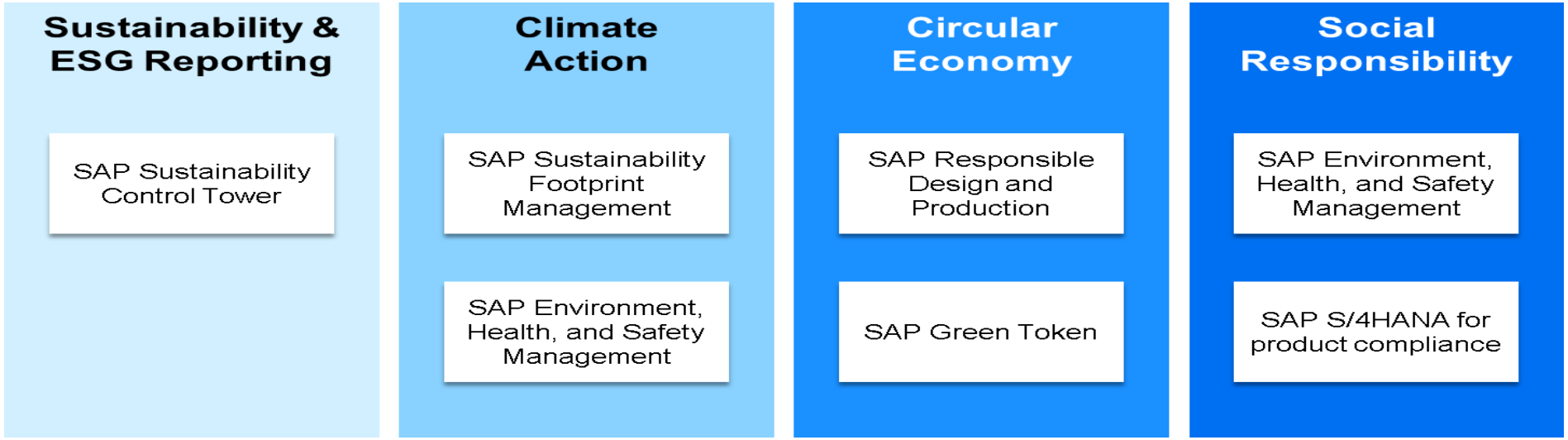
Ethical Supply Chain:

- Promotes responsible sourcing of materials and fair treatment of workers.
- Ensures fair, livable wages and safe working conditions for employees.
- Encourages responsible land use and preservation of native plants and trees.

Impactful Decision-Making:

- Detailed data enables businesses to make informed decisions with human and environmental impact.
- Identifies opportunities for new sustainable products, services, and solutions.

SAP Cloud for Sustainable Enterprises Solutions



1. **Sustainability and ESG Reporting Solutions:**
   - SAP Sustainability Control Tower: Defines organization-specific targets and tracks performance.
   - Data management and performance insight tools aid in understanding environmental, social, and governance (ESG) data.
2. **Climate Action Solutions:**
   - SAP Sustainability Footprint Management and SAP Environment, Health, and Safety Management: Reduce carbon footprint across the value chain.
   - Based on actual business transactions to ensure accurate measurement.
3. **Circular Economy Solutions:**
   - SAP Responsible Design and Production and SAP Green Token: Facilitate a circular supply chain.
   - Encourages reuse of outputs to minimize waste.
4. **Social Responsibility Solutions:**
   - SAP Environment, Health, and Safety Management and SAP S/4HANA for product compliance: Assess impact on people and society.
   - Provides insights into broader societal context and compliance requirements.

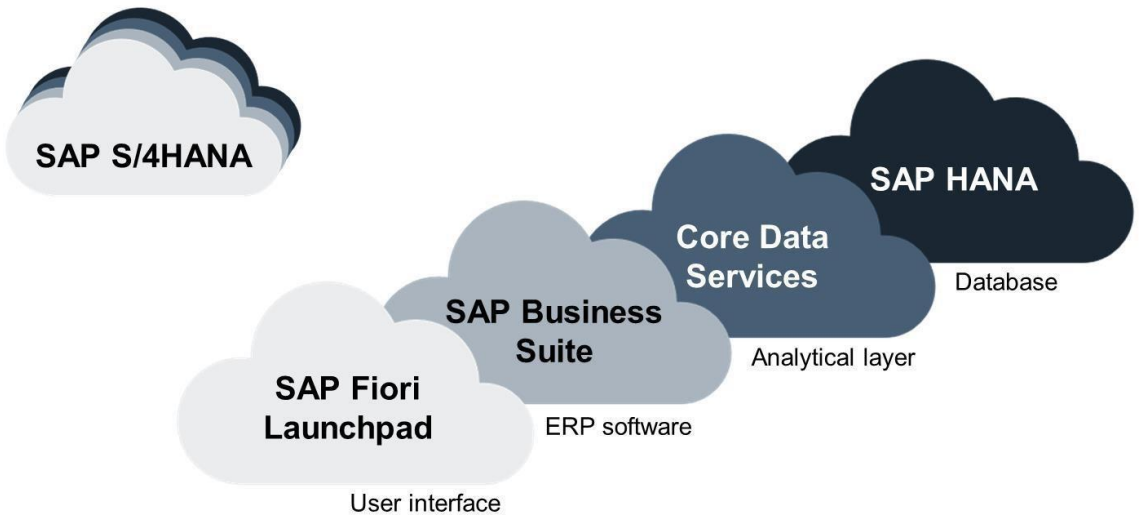
Choosing a Deployment

4 Lessons 50 mins

After completing this unit, you will be able to:

- Provide an overview of SAP S/4HANA
- Define the different 2-tier ERP deployment models
- Differentiate the GROW and RISE with SAP enablement packages
- Describe the components of the GROW and RISE with SAP enablement packages
- Explain the dimensions of licensing and digital access
- Explain how the Digital Discovery Assessment helps identify the best Cloud ERP product for a customer

SAP S/4HANA Overview



SAP S/4HANA Overview:

- SAP S/4HANA stands for SAP Business Suite 4 the HANA Database.
- Considered the "next generation" of SAP business suite software, replacing SAP ECC.
- Serves as the digital core of an organization, functioning as the financial system of record.
- Universal journal ensures a single source of truth for financial data.
- Designed with built-in analytics, including predictive and forecasting capabilities.
- Data collected from transactions feeds into analytical applications to aid decision-making.
- Easily integrates with other SAP and third-party applications via SAP Business Technology Platform.
- Features an extensibility framework for non-developers to customize and enhance functionality.

SAP Fiori Launchpad:

- Central entry point to SAP S/4HANA for users on mobile and desktop devices.
- Personalized home page displaying applications relevant to user's role(s).
- SAP Fiori design language ensures consistent look and feel across all apps.
- Hundreds of Fiori apps available for various lines of business and industries.
- Embedded support features like guided simulations, video tutorials, and in-context help.
- Users can personalize their view of the launchpad according to their preferences.

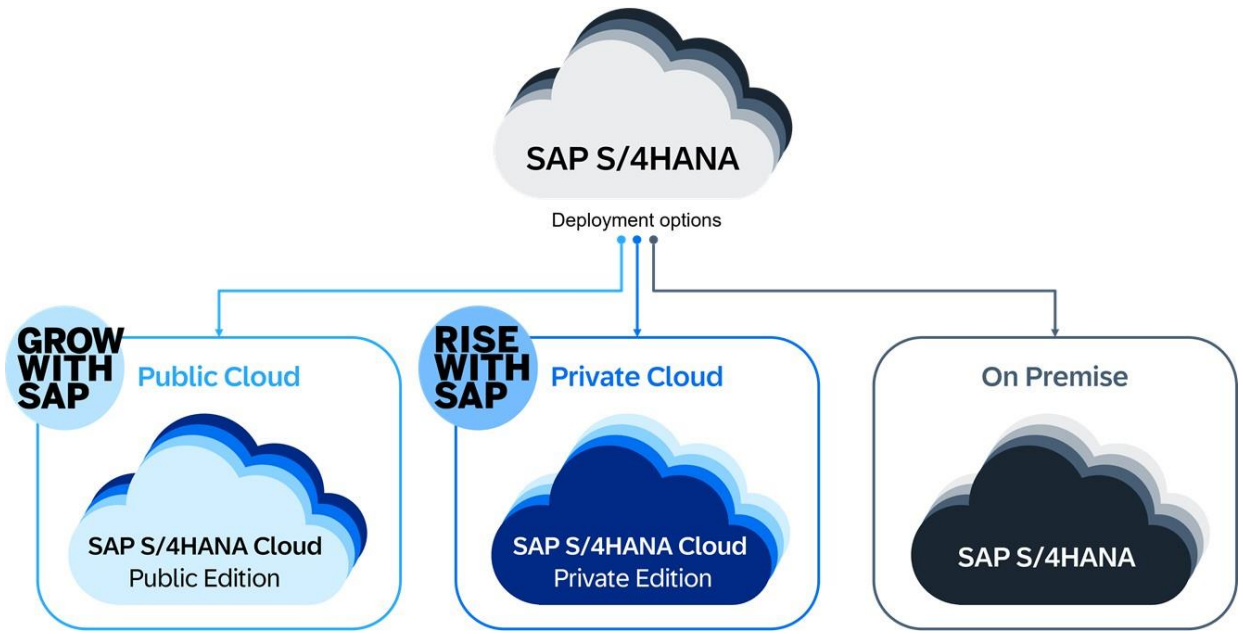
Core Data Services (CDS):

- Domain-specific languages and services for defining and consuming semantically rich data models.
- Provides a universal language for reading and processing data across applications.
- CDS views can model data for analytical purposes or generate APIs for data consumption.
- Intended for consumption by user interfaces, analytical applications, or other solutions.

SAP HANA Database:

- In-memory, column-oriented database designed for storing, receiving, and querying data.
- Processes data stored in RAM for faster access compared to disk-based storage.
- Column-oriented structure stores all data for a single column in the same location.
- Enables faster querying and processing, especially for analytical applications and machine learning.

How can SAP S/4HANA be deployed?



SAP S/4HANA Cloud Public Edition:

- Ready-to-work business processes built on proven industry best practices.
- Semi-annual release upgrades in August and February, automatically installed by SAP.
- Enables companies to stay ahead with latest business processes and technology innovations.
- Fully extensible platform allows customization of business processes to meet evolving needs.
- Cloud architecture ensures scalability and flexibility.

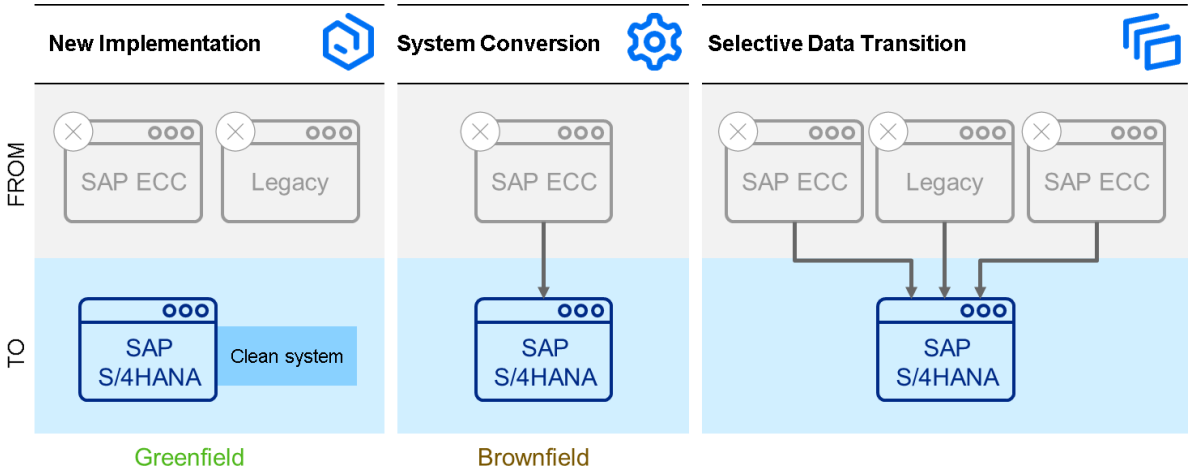
SAP S/4HANA Cloud Private Edition:

- Allows customers to move to the cloud at their own pace.
- Comprehensive library of ready-to-run business processes for easy adoption.
- Customization flexibility to tailor business processes to industry requirements.
- Annual upgrades provided by SAP, enabling customers to stay current with innovations.
- Flexibility to roll out upgrades based on customer's timeline.

SAP S/4HANA (On Premise) and SAP S/4HANA Cloud Private Edition:

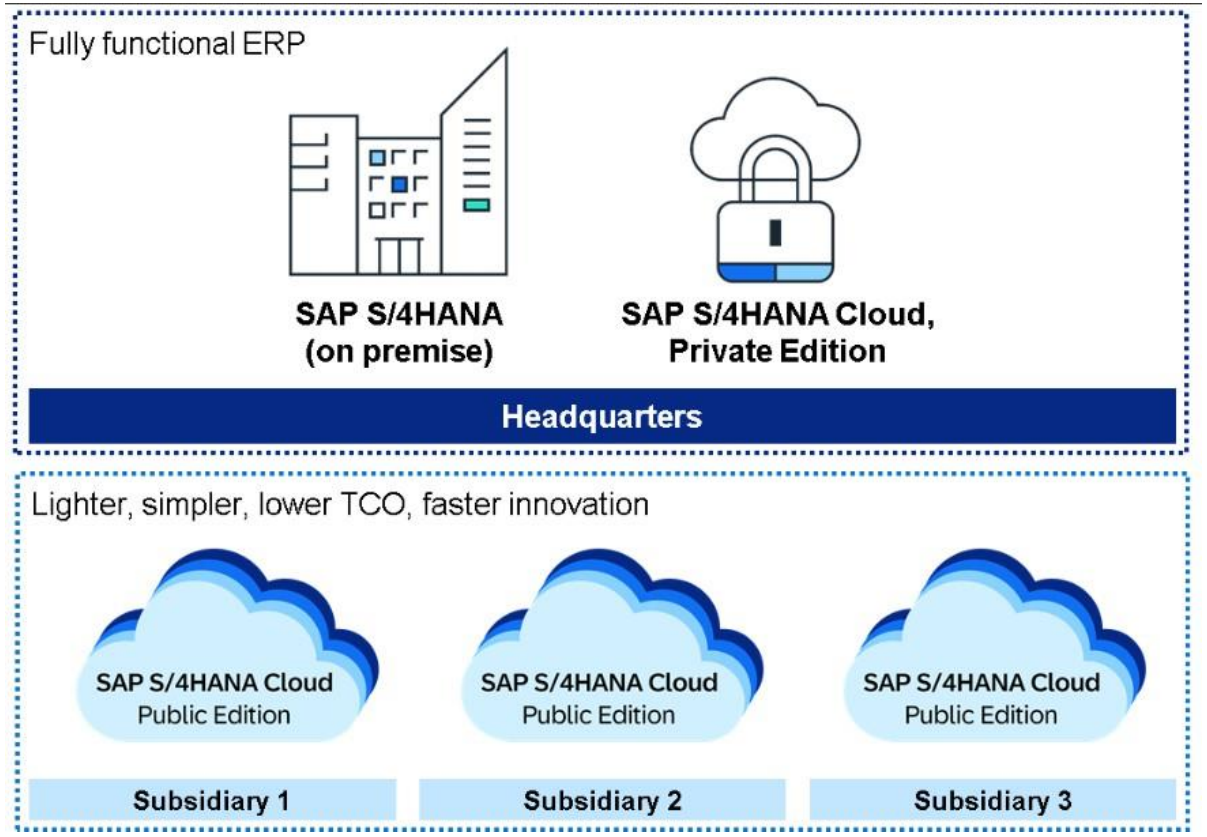
- Both offer same functional scope, including end-to-end line of business processes and support for all 25 industries.
- Primary difference lies in license (perpetual or subscription) and infrastructure location.
- On premise deployment requires no mandatory upgrades, while private edition requires at least 1 upgrade every 5 years to stay within mainstream maintenance.

Implementation Methods



1. **New Implementation / Greenfield:**
   - Involves setting up a completely new system from scratch.
   - Ideal for organizations seeking a clean slate and standardized processes.
   - Offers high flexibility for customization and optimization.
2. **System Conversion / Brownfield:**
   - Involves converting existing SAP ERP system to SAP S/4HANA.
   - Suitable for organizations looking to transition from their legacy system to SAP S/4HANA.
   - Preserves historical data and configurations, reducing disruption during migration.
3. **Selective Data Transition:**
   - Combines elements of both greenfield and brownfield approaches.
   - Typically used in scenarios where certain parts of the business require a new implementation while others can be transitioned from existing systems.
   - Example: Converting SAP ECC system to SAP S/4HANA Cloud Private Edition while deploying SAP S/4HANA Cloud Public Edition for specific lines of business (e.g., Professional Services).
   - Enables standardization in core ERP while leveraging fast-moving and frequently updated cloud solutions for specific business areas.

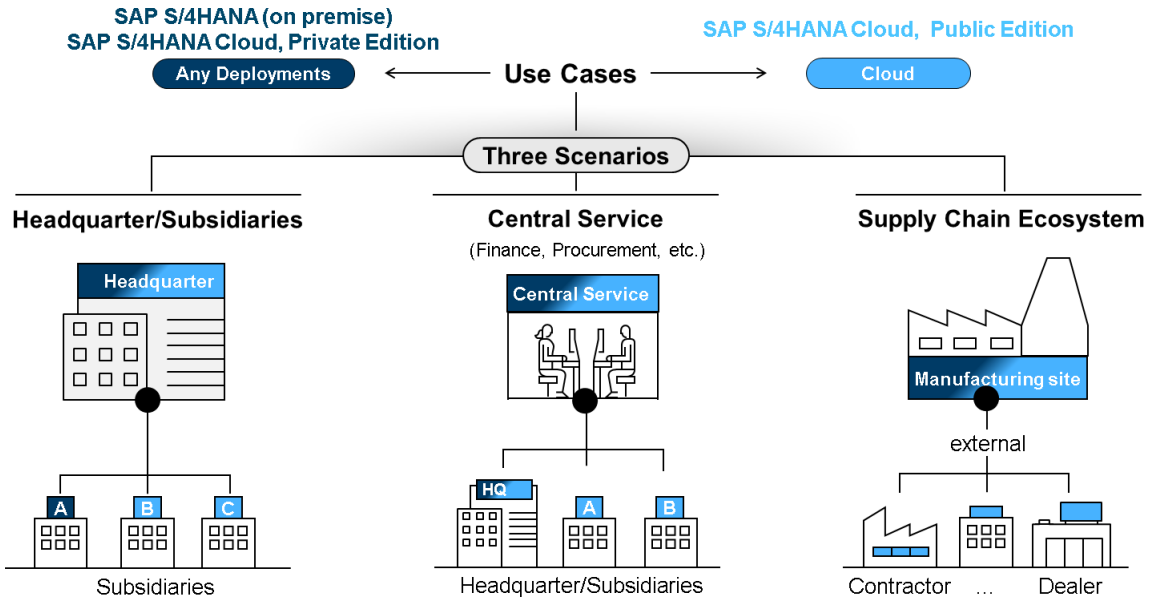
Two-Tier ERP Deployment



- **SAP S/4HANA Cloud Public Edition:**
  - Offers agility for subsidiaries with low total cost of ownership.
  - Tight integration with SAP S/4HANA (on premise) or SAP S/4HANA Cloud Private Edition ensures visibility and control.

- **Definition:**
  - Utilizing different ERP systems at different organizational layers.
- **Scenarios:**
  - **Tier 1 (Global Backbone):**
    - Runs administrative ERP processes (e.g., finance) for the entire organization.
  - **Tier 2 (Localized Business Needs):**
    - Tailored for subsidiaries, smaller business units, or localized requirements.
- **Advantages:**
  - **Standardization and Flexibility:**
    - Standardizes core functions with Tier 1 while allowing flexibility for localized needs in Tier 2.
  - **Agility and Cost Efficiency:**
    - Enables quick deployment for subsidiaries at low total cost of ownership.
  - **Visibility and Integration:**
    - Tight integration with Tier 1 ensures visibility into subsidiary operations.
- **Market Drivers:**
  - **Acquisitions and Divestitures:**
    - Facilitates quick onboarding of new acquisitions or preparation for divestitures.
  - **Standardization and Harmonization:**
    - Standardizes subsidiaries on a unified platform.
  - **Adaptation to Change:**
    - Helps adapt to new processes, business models, or changing geopolitical situations.
  - **Centralization and Expansion:**
    - Centralizes services like finance or procurement and expands through joint ventures.
  - **Compliance and Regulations:**
    - Prepares for changing data residency regulations and ensures compliance.

Two-tier ERP Scenario Examples



Headquarter and Subsidiary Scenario:

- Headquarters operates highly customizable on-premise or private cloud ERP.
- Subsidiaries utilize standardized public cloud ERP with specific scope.
- Seamless integration allows subsidiaries to maintain flexibility, focus on innovation, and onboard quickly.

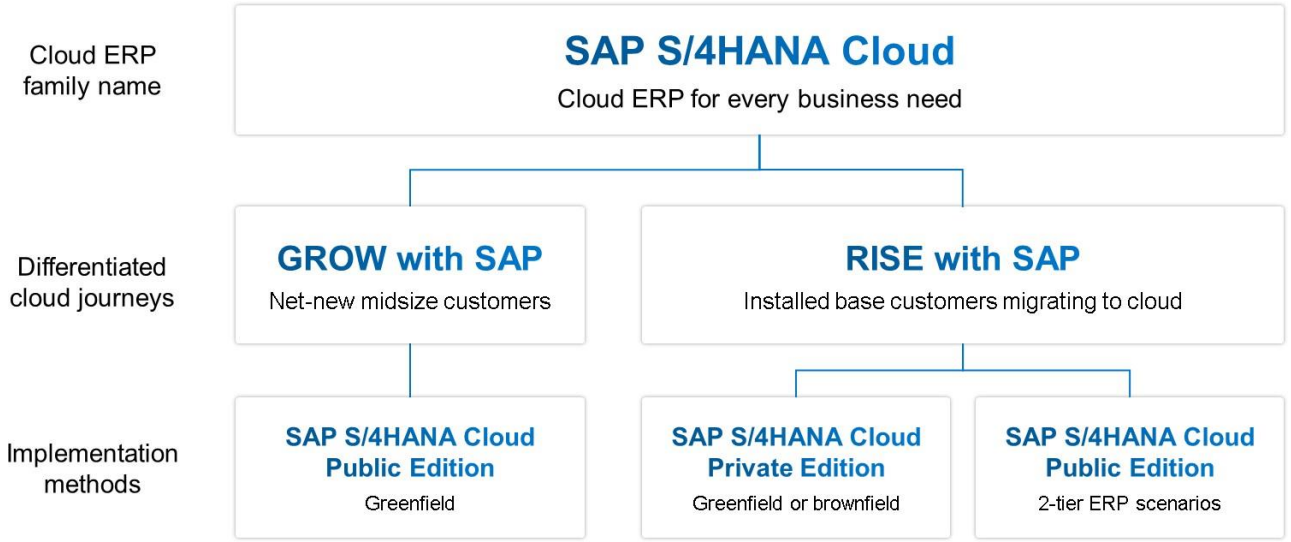
Central Services Scenario:

- Line of business spin-off, such as finance, operates standardized public cloud ERP as "Shared Services".
- Rest of the business runs on highly customizable on-premise or private cloud ERP.
- Enables large organizations with diverse lines of business to innovate rapidly without disrupting highly customized systems.

Supply Chain Ecosystem Scenario:

- Headquarters manages highly customizable on-premise or private cloud ERP.
- Subcontractors or dealers utilize standardized public cloud system.
- Integration forms an entire supply chain network, enhancing visibility and transparency.
- Process automation reduces manual interventions, improving efficiency across the supply chain.

GROW with SAP and RISE with SAP



- GROW with SAP (accompanying Public Edition): Targets small and midsize customers seeking immediate adoption, providing tools, accelerated adoption services, community support, and learning resources.
- RISE with SAP (accompanying Private Edition): Supports SAP's installed base customers migrating to the cloud, offering tools and resources for greenfield, brownfield, or two-tier ERP scenarios.

Cloud ERP Product Family Overview:

- SAP offers a modular cloud portfolio with various solutions to meet diverse industry needs.
- Customers can deploy specific modules or processes over time, allowing for adaptable and evolving Cloud ERP solutions.
- Two core products: SAP S/4HANA Cloud Public Edition and SAP S/4HANA Cloud Private Edition.
- Enablement packages: GROW with SAP for Public Edition and RISE with SAP for Private Edition, catering to different customer requirements and migration scenarios.

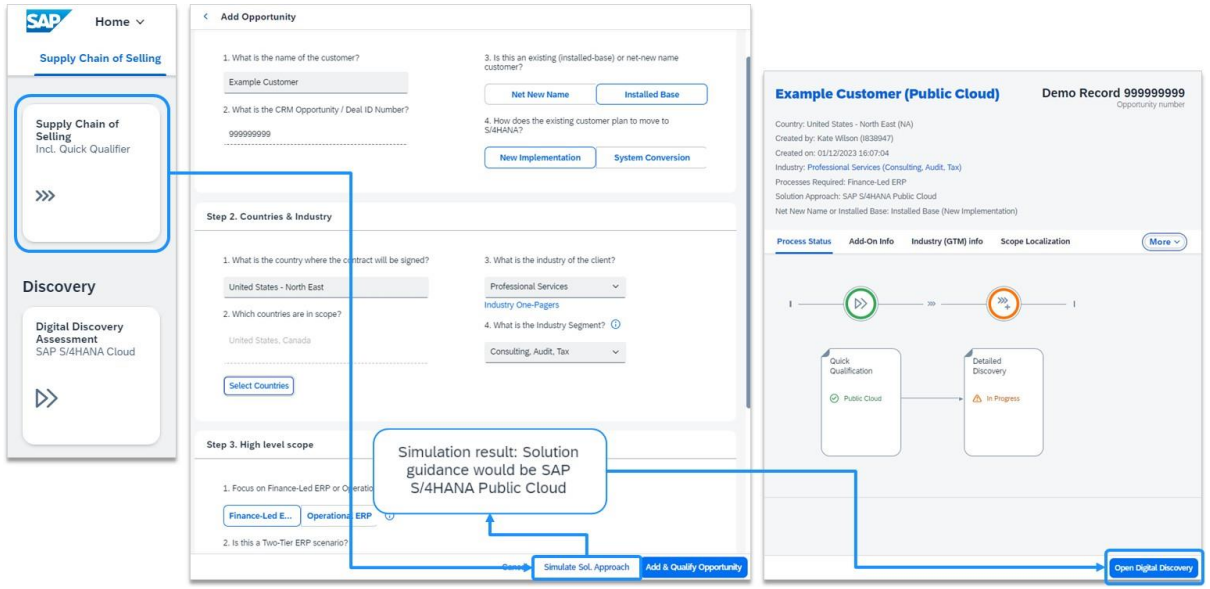
SAP S/4HANA Cloud Public Edition:

- Ideal for customers desiring standardized processes, continuous innovation, and managed infrastructure.
- Delivers latest industry best practices and offers continuous updates.

SAP S/4HANA Cloud Private Edition:

- Suited for customers requiring high customization, control over solutions, and flexibility in innovation pace.
- Tailored-to-fit cloud ERP accommodating unique organizational transformations.

Digital Discovery Assessment



The Digital Discovery Assessment (DDA) is a critical tool in the sales cycle for identifying customer requirements and matching them with the most suitable SAP S/4HANA Cloud solution. It is conducted during the Discover phase of the SAP Activate Methodology implementation roadmaps for both SAP S/4HANA Cloud Public Edition and SAP S/4HANA Cloud Private Edition.

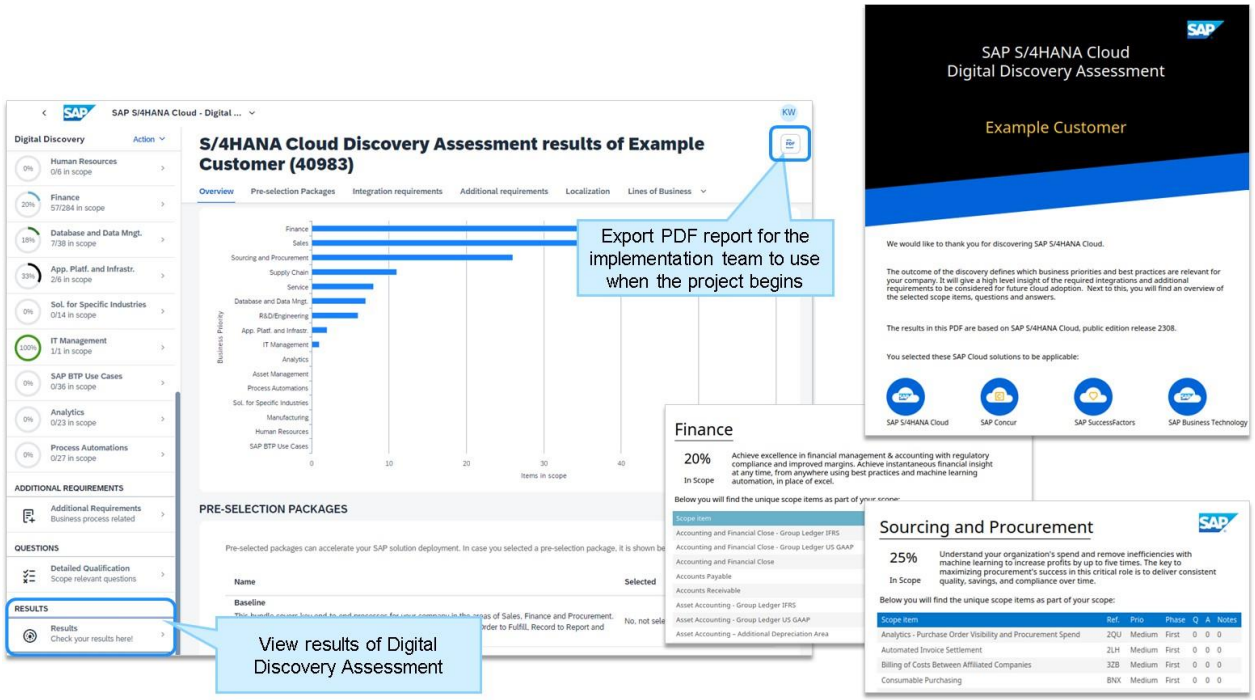
Quick Qualification:

- High-level assessment capturing key customer information.
- Involves stakeholders like the CIO, CTO, or equivalent roles.
- Key factors assessed include:
  - Existing or net-new customer status.
  - Plan for moving to SAP S/4HANA (new implementation or system conversion).
  - Countries in scope.
  - Industry area.
  - Finance-led ERP or Operational ERP focus.
  - Two-tier ERP scenario.
  - Number of Full User Equivalents (FUEs).
- In some cases, automated recommendations may not be provided, and SAP experts review the Detailed Discovery Assessment for the best-fit solution determination.

Detailed Discovery in New Implementations:

- Comprehensive assessment gathering detailed information about integrations, ERP business process requirements, localizations, and expected user count.
- Pre-selection packages available for different scenarios:
  - Baseline: Covers key end-to-end processes in Sales, Finance, and Procurement.
  - Finance-Led ERP: Focuses on financial management best practices.
  - Service Centric ERP: Includes project and service-related capabilities for service-oriented industries.
  - Product Centric ERP: Provides capabilities for make-to-stock-based production.
- Each business process can be customized in terms of priority, rollout phase, and additional requirements.
- Completed DDA proposes either public or private cloud deployment as the best-fit solution.

Digital Discovery Assessment Report



The Digital Discovery Assessment (DDA) Report is a crucial document generated after the completion of the DDA process. It serves as a comprehensive summary of the assessment findings and recommendations, providing essential information for defining the project scope during the Prepare phase of the SAP Activate Methodology. Here's an overview of the contents typically included in the report:

1. **Integration and Extension Requirements:**
   - Details of any known integration and extension needs identified during the assessment process.
2. **Localizations and Legal Entities:**
   - Information regarding the localization requirements and legal entities relevant to the customer's operations.
3. **Functional Business Area Coverage:**
   - Breakdown of the percentage of business scenarios (scope items) selected in each functional business area. This helps in understanding the breadth of coverage across different business domains.
4. **Selected Business Processes:**
   - List of individual business processes selected for inclusion in the solution, along with their descriptions and significance to the organization.
5. **Business Process Prioritization:**
   - If applicable, the priority assigned to each business process and the implementation phase in which it will be rolled out. This aids in planning the phased implementation approach.
6. **Customer Questions and Notes:**
   - Any questions or notes raised by the customer regarding specific business processes, along with the corresponding answers provided by the sales account team.
7. **Additional Requirements:**
   - Details of any additional business process-related requirements identified during the assessment, beyond the standard scope items.
8. **Detailed Project-Related Questions:**
   - Comprehensive responses to project-related questions, addressing various aspects such as timelines, resource requirements, and implementation approach.

Implementing with a Cloud Mindset

6 Lessons 1 hr 10 mins

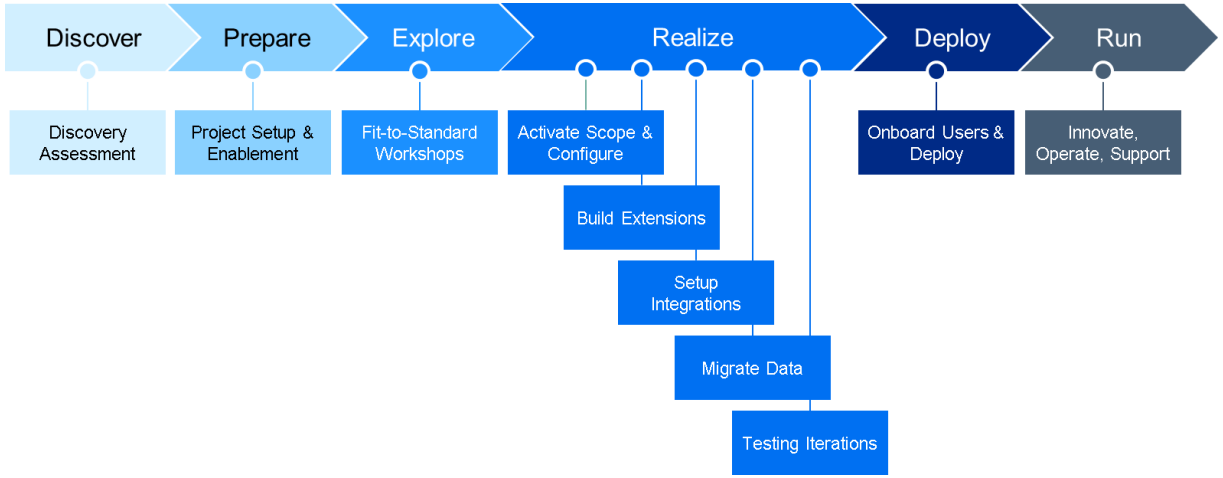
After completing this unit, you will be able to:

- Define the characteristics of the cloud mindset
- Identify how to consume the SAP Activate methodology through SAP Cloud ALM
- Explore the SAP Best Practice solution processes in SAP Signavio Process Navigator
- Identify the capabilities of the SAP Cloud Integration Suite
- Explain the clean core concept
- Define the different types of extensibility and the relevant tools
- Manage organizational change successfully

Cloud Mindset Overview

1. Follow the SAP Activate Methodology using SAP Cloud ALM to complete implementation tasks
2. Use predefined Solution Scenarios from SAP Signavio Process Navigator
3. Connect applications with cloud integration technologies
4. Follow the Clean Core Strategy
5. Manage organizational change throughout the project

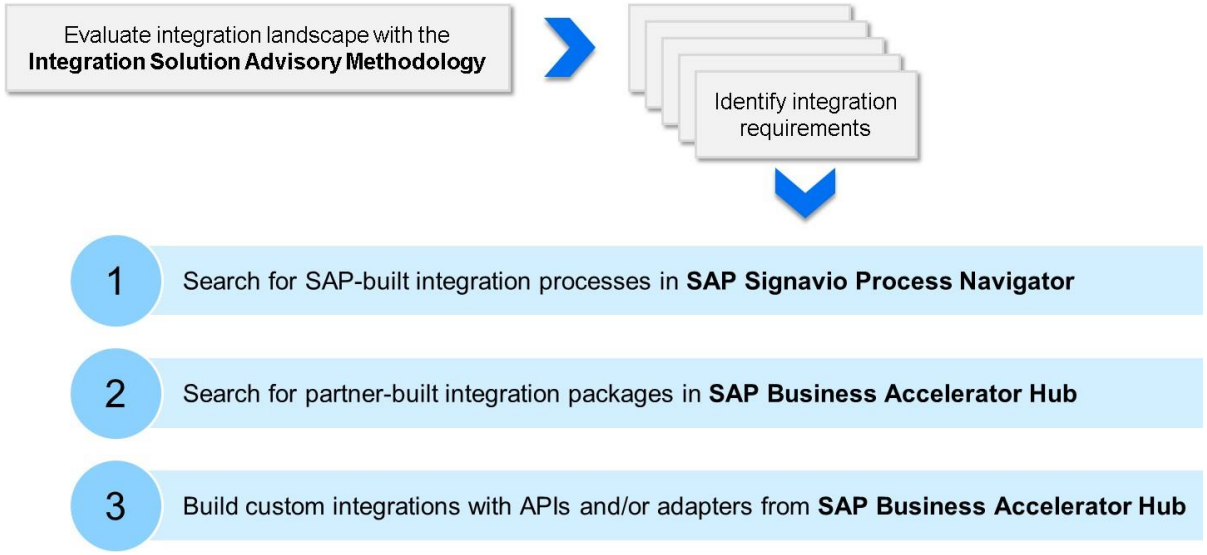
SAP Activate Implementation Phases



1. **Discover:**
   - This phase involves the initial sales process where the customer decides to adopt SAP S/4HANA Cloud. The Digital Discovery Assessment helps identify the most suitable SAP Cloud deployment option for the customer's requirements.
2. **Prepare:**
   - The implementation project officially begins in this phase. It focuses on planning, preparation, and setting up the necessary systems for the implementation tasks ahead.
3. **Explore:**
   - Fit-to-Standard Analysis workshops are conducted during this phase. Partner consultant experts and customer experts collaborate to review predefined business processes in SAP S/4HANA Cloud. The goal is to identify configuration values and gather customization requirements.
4. **Realize:**
   - In this phase, partner consultants implement and configure the identified business processes based on the outcomes of the Fit-to-Standard workshops. User acceptance testing (UAT) is conducted to ensure that the configured processes meet the customer's requirements before finalizing them.
5. **Deploy:**
   - System cutover activities are performed in this phase, where partner consultants transition the system from the implementation environment to the production environment. The customer confirms organizational readiness before the system is fully deployed.
6. **Run:**
   - Once the system is deployed, the customer enters the operational phase. They are responsible for maintaining the system and ensuring its ongoing functionality. Additionally, they utilize operations apps in SAP Cloud ALM (Application Lifecycle Management) to monitor integration and overall system health. This phase also includes future release upgrades to keep the system up to date with the latest features and enhancements.

Exploring SAP's Cloud Integration Technologies

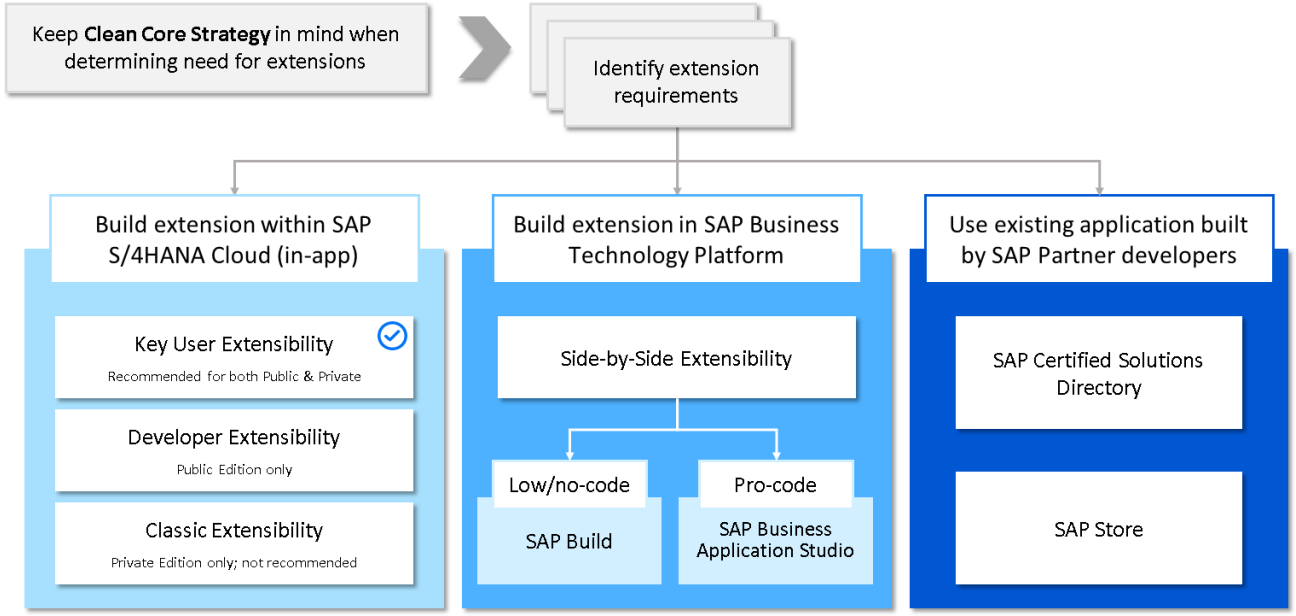
Cloud Integration Technologies



1. **Integration Solution Advisory Methodology (ISAM):**
   - ISAM is a framework provided by SAP to help customers assess their landscape and develop new integrations. It guides customers in evaluating their integration requirements and selecting the appropriate tools and approaches.
2. **Prepackaged Integration Solutions:**
   - Customers can explore prebuilt integration solutions available in SAP Signavio Process Navigator. These solutions are developed by SAP using the SAP Integration Suite and run on the SAP Business Technology Platform. Customers can find setup instructions to activate these integrations in their SAP S/4HANA Cloud system. SAP is responsible for maintaining these integration packages.
3. **Custom Integrations:**
   - If prepackaged integrations don't meet the requirements, customers can opt for custom integrations. SAP provides a library of integration packages, APIs, adapters, and other resources in the SAP Business Accelerator Hub. These resources are built using technologies compatible with the SAP Business Technology Platform, such as the SAP Integration Suite. Developers can leverage APIs from this library to build custom integration packages tailored to specific needs.
   - Whether using prepackaged or custom integrations, customers are responsible for maintaining the integrations. However, SAP takes responsibility for maintaining the platform (SAP Business Technology Platform) where the integrations reside.
4. **Monitoring and Operations:**
   - After implementing integrations, customers can monitor their performance and health using SAP Cloud ALM operations apps. These apps help track the integration's status and ensure smooth operation.

Utilizing the Clean Core Strategy and Extensibility Tools

Extensibility Types and Tools



Side-by-Side Extensibility:

- **Description:** Hosts custom extensions on the SAP Business Technology Platform and integrates them with SAP S/4HANA Cloud.
- **Tools:** SAP Build for low/no-code app creation by business users, SAP Business Application Studio for classical coding by developers.
- **Recommendation:** Recommended for more complex extensions after exhausting key user extensibility options.

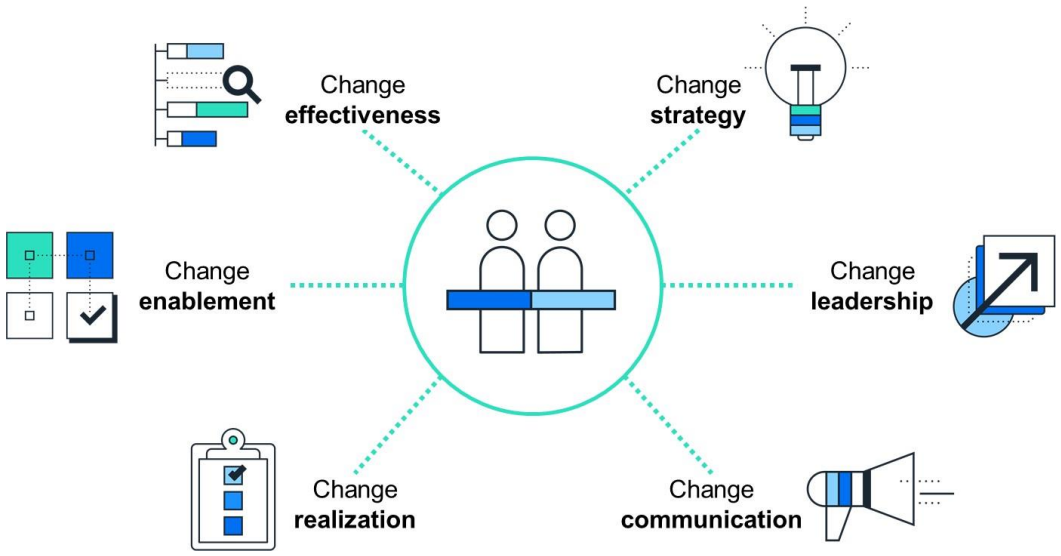
Key User Extensibility:

- **Description:** Allows key users to add custom fields, logic, and other extensions to SAP S/4HANA Cloud without developer knowledge.
- **Tools:** SAP Fiori apps on the launchpad facilitate the creation of extensions.
- **Deployment:** Available for all deployments of SAP S/4HANA.
- **Process:** Extensions are built in the customizing tenant of the development system and moved to other systems through transports.
- **Availability:** Most SAP Fiori extensibility apps are available for all deployments, with some differences.
- **Recommendation:** Recommended to exhaust key user extensibility options before considering other approaches.

Developer Extensibility:

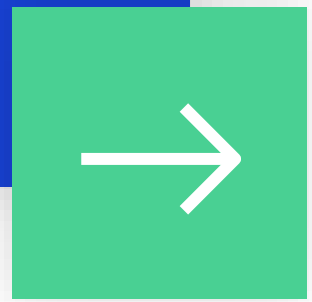
- **Description:** Allows developers to make changes to released SAP objects with upgrade-stable ABAP code.
- **Deployment:** Only possible for SAP S/4HANA Cloud Public Edition (3-system landscape).
- **Process:** Changes are made in the development tenant of the development system, which is controlled to allow changes to specific SAP objects.
- **Recommendation:** Recommended to exhaust key user extensibility options first, then move to side-by-side extensibility for more complex extensions.

SAP's Organizational Change Management Framework



1. Change Strategy: This dimension outlines the direction of change management activities, providing a blueprint for managing complex changes across various entities, locations, and countries during a digital transformation project.
2. Change Leadership: It focuses on identifying and implementing appropriate mechanisms to manage individuals and groups affected by or influencing the project's success. The aim is to foster a shared positive attitude towards the changes.
3. Change Communication: This dimension emphasizes the importance of providing the right message to the right people at the right time. It involves systematic planning, implementing, monitoring, and revising all communication activities within the project to engage stakeholders effectively.
4. Change Realization: Here, the focus is on identifying and managing changes associated with the digital transformation across relevant stakeholder groups. This includes addressing changes related to skills, business processes, technology, organization, and mindset to facilitate a smooth transition.
5. Change Enablement: This dimension involves providing comprehensive training for users throughout the transformation process. It includes developing role-based user training tailored to meet specific user needs as the system is rolled out.
6. Change Effectiveness: This dimension encompasses activities aimed at measuring the effectiveness of OCM activities supporting the digital transformation. It focuses on criteria such as organizational readiness, user adoption and satisfaction, and user behavior after go-live to enhance adoption and overall success.

Implementing SAP S/4HANA Cloud Public Edition



Introducing SAP S/4HANA Cloud Public Edition

1 Lesson 20 mins

After completing this unit, you will be able to:

- Provide an overview of SAP S/4HANA Cloud Public Edition characteristics
- Explain how the lines of business interact with one another in the overall scope

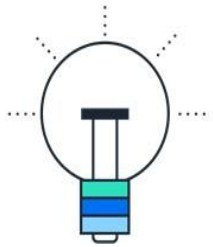
SAP S/4HANA Cloud Public Edition Overview

New user experience

Lowest SaaS-based TCO

Pre-configured best practices to realize results right away

Market-leading localization

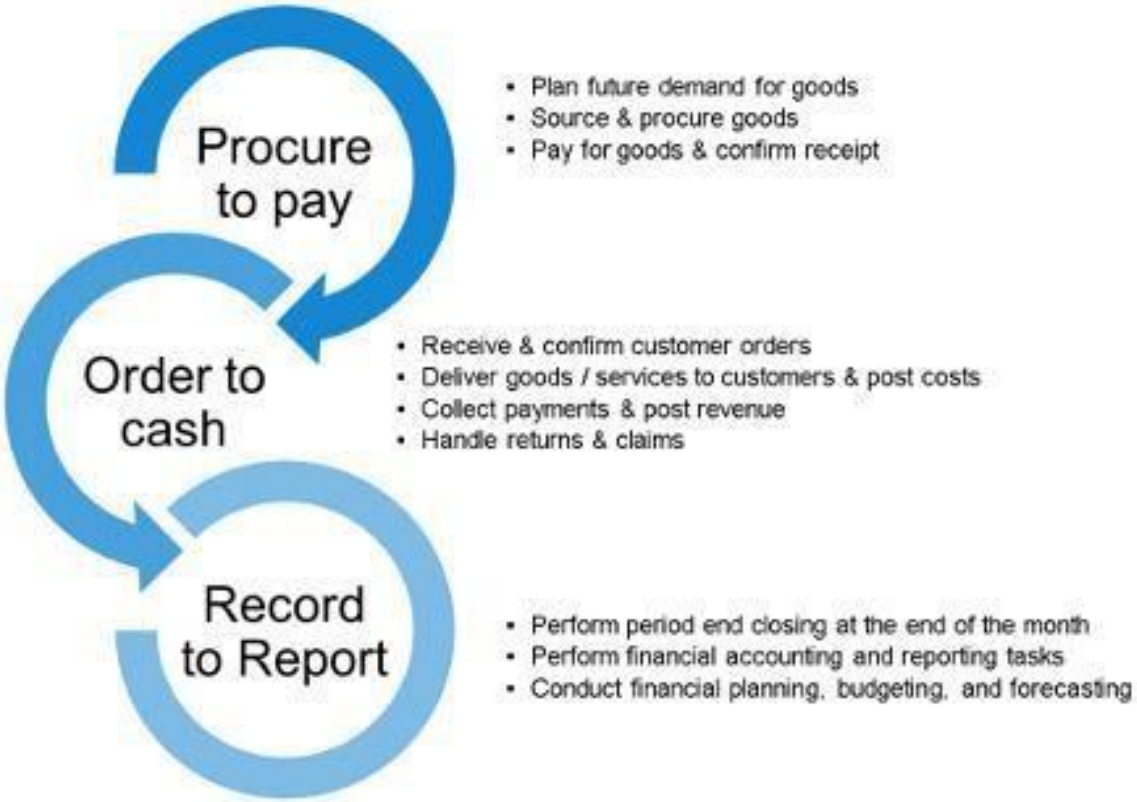


Continuous feature delivery

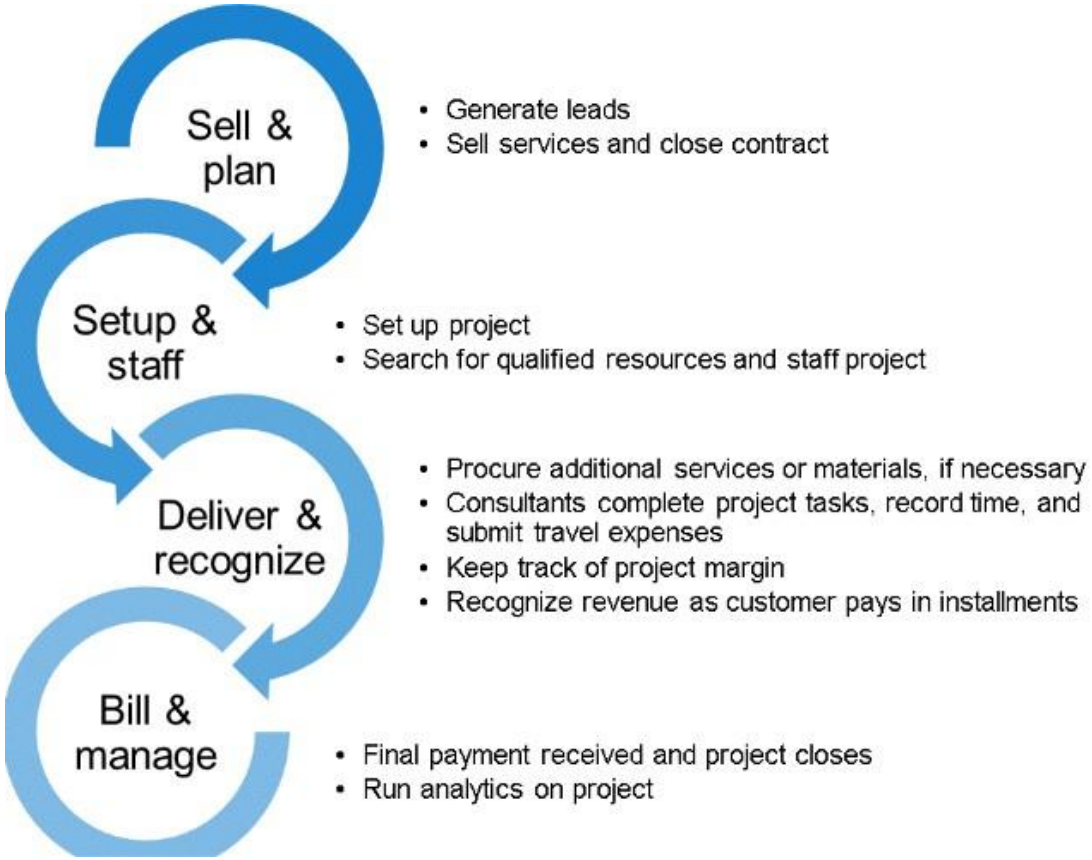
Unmatched time-to-value to deliver on business priorities

Solution Scope and Business Process Story

Finance-led administrative ERP

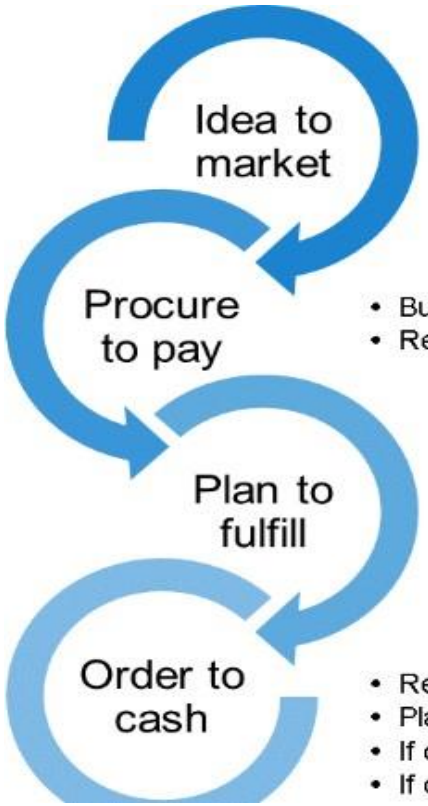


Service-Centric Industries



Selling consulting services and delivering on those services is covered with the business processes in the **Professional Services LoB**. If we sell **technical services**, for example when a technician from your internet provider comes to our location to fix or replace a faulty modem, these are covered by business processes in the **Service LoB**.

Product-Centric Industries



- Forecast demand for potential product
- Design product & create materials list
- Run material requirements planning

- Buy and receive components
- Receive invoice and pay for components

- Schedule production
- Pick materials and run sub-assemblies
- Run final assembly to produce finished good
- Quality check finished good and store in warehouse

- Receive sales order from customer
- Plan transport of product to customer & run outbound delivery
- If customer returns product, quality check and return to stock in warehouse
- If customer makes warranty claim, create service order and deliver service

Discrete manufacturing example

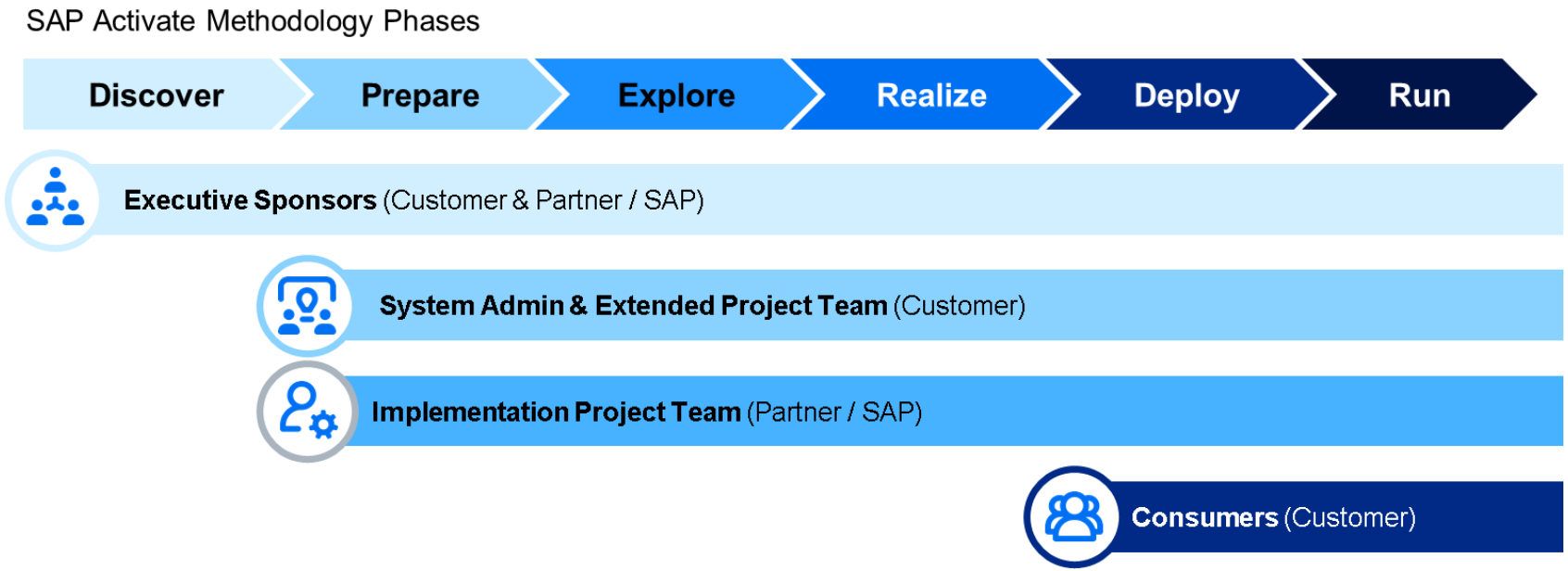
Building the Implementation Team

2 Lessons 20 mins

After completing this unit, you will be able to:

- Describe the key stakeholders
- Explain the roles and responsibilities of each member of the SAP S/4HANA Cloud Public Edition implementation team

Key Stakeholders



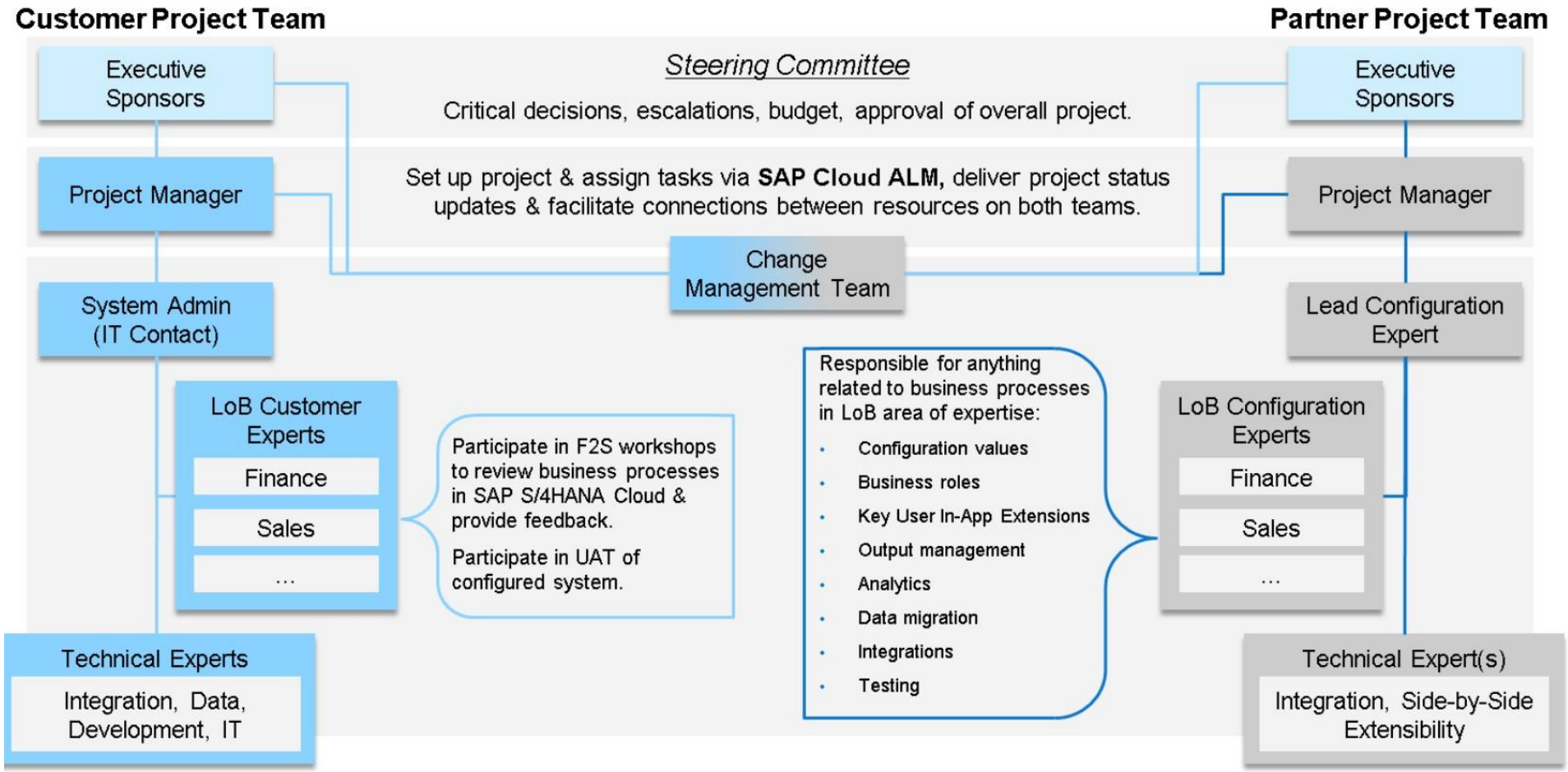
Customer Executive Sponsors:

- Individuals in roles such as Chief Technology Officer (CTO), Chief Information Officer (CIO), or similar positions within the organization.
- They play a crucial role in building the business case, working with sales personnel, and making the purchase decision.

IT Contact Role:

- The IT Contact role is significant for system administration and provisioning tasks.
- If no specific individual is chosen during the contract signing, the default assignee is the signer (CTO, CIO, or similar).
- The assignment of this role can be changed at a later point in time.

Roles and Responsibilities



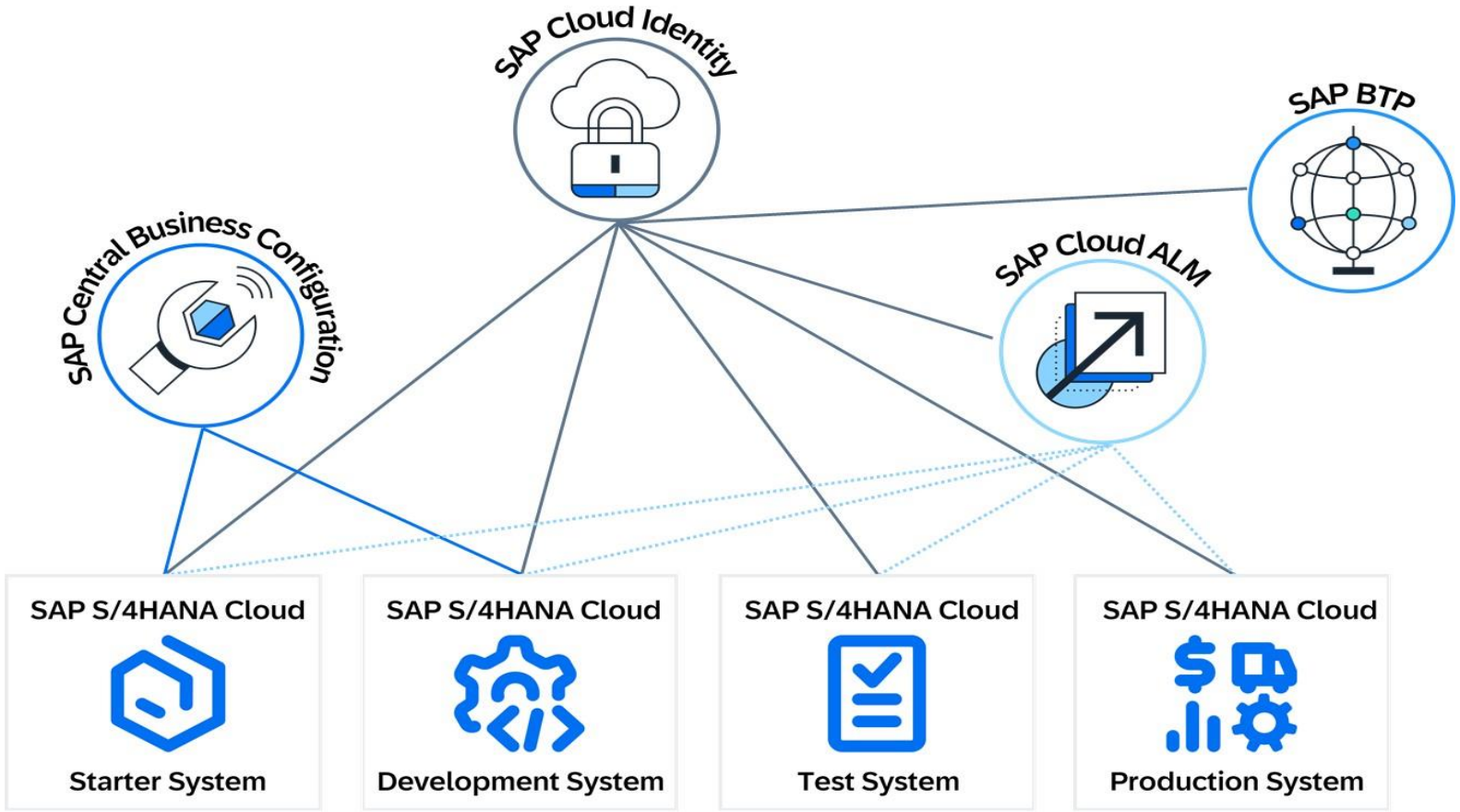
Defining System Landscapes

2 Lessons 50 mins

After completing this unit, you will be able to:

- Get familiar with the system landscapes used to implement SAP S/4HANA Cloud Public Edition
- Identify additional system landscapes relevant to SAP S/4HANA Cloud Public Edition
- Get familiar with the SAP S/4HANA Cloud Public Edition release upgrade schedule
- Learn how to use important release upgrade resources

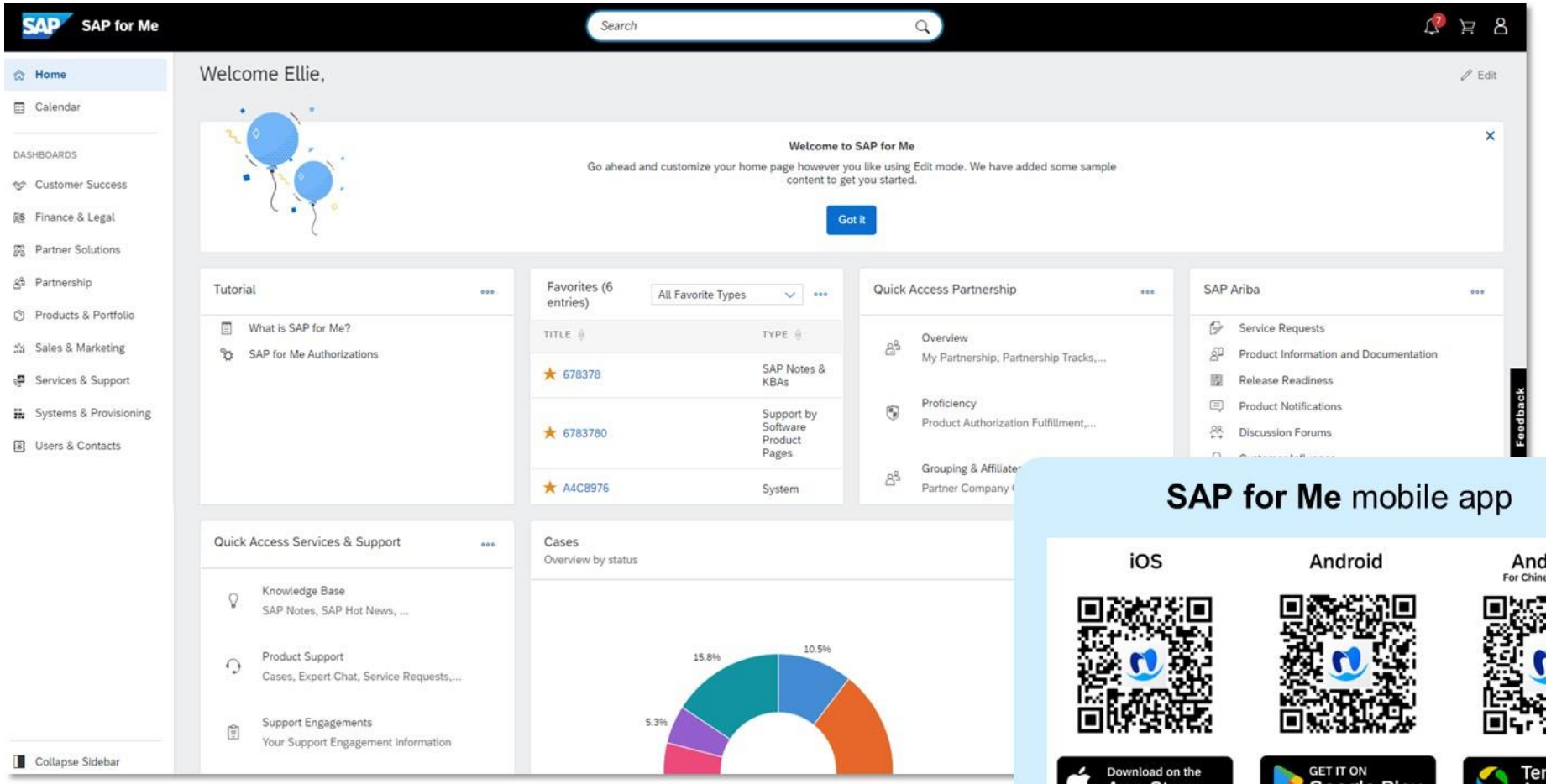
Landscape Overview



Landscape Overview

- **Trial System:**
  - Shared landscape for guided tours.
  - 14-day free trial.
- **Starter System:**
  - Preconfigured for Fit-to-Standard Workshops.
  - Aligns with SAP Best Practices.
- **3-System Landscape (3SL):**
  - Introduced in August 2022 (release 2208).
  - Development, Test, and Production systems.
  - Facilitates complex on-stack extensions.
  - **Development System:**
    - Client tenants: Dev (080) and Customizing (100).
    - ABAP environment for developers.
    - Fiori extensibility for key user.
  - **Test System:**
    - Validates configurations and extensions.
  - **Production System:**
    - Imports configurations and extensions for productive use.

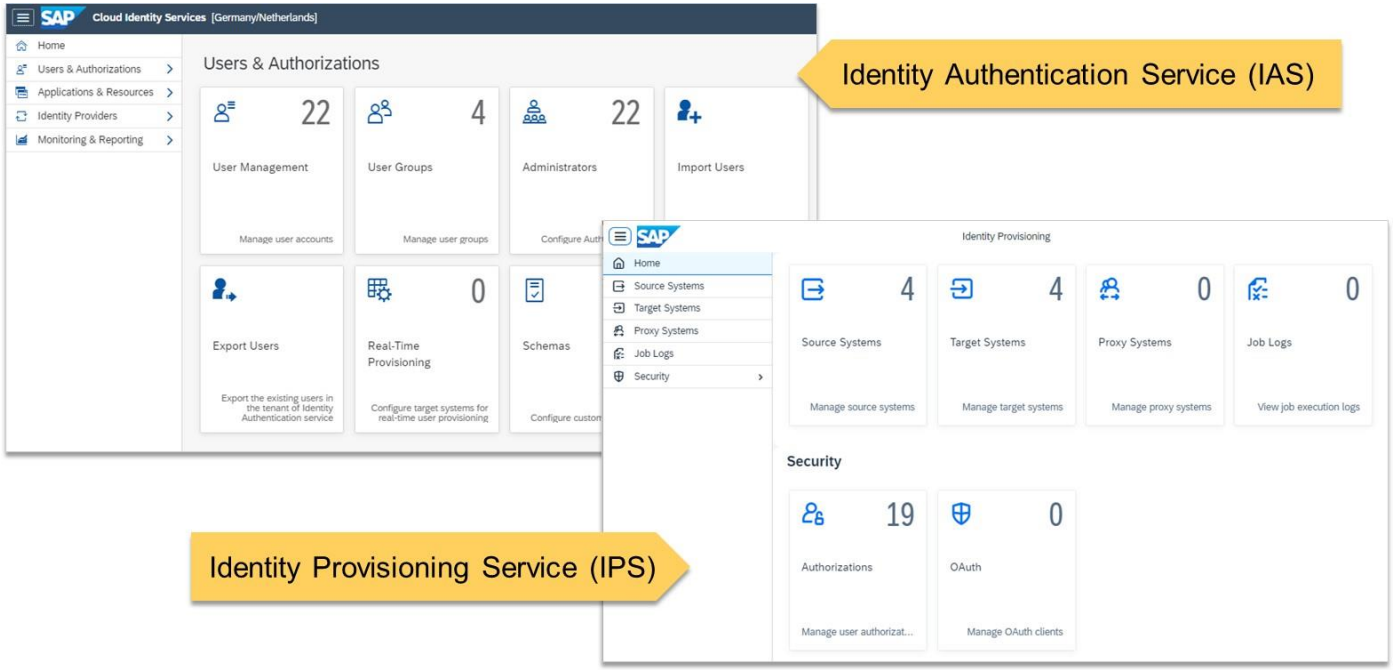
SAP for Me



SAP for Me mobile app

iOS	Android	Android For Chinese Market
Download on the App Store	GET IT ON Google Play	Tencent AppStore

SAP Cloud Identity Services



- **Identity Authentication Service (IAS):**
  - Cloud service for authentication, single sign-on (SSO), and user management.
  - Acts as an identity provider or integrates with existing SSO infrastructure.
- **Identity Provisioning Service (IPS):**
  - Comprehensive, cost-effective approach to identity lifecycle management in the cloud.
  - Facilitates provisioning of identities and their authorizations to various applications.

Authentication:

- Provides authentication services for SAP cloud and on-premise applications.
- Supports single sign-on for a seamless user experience.

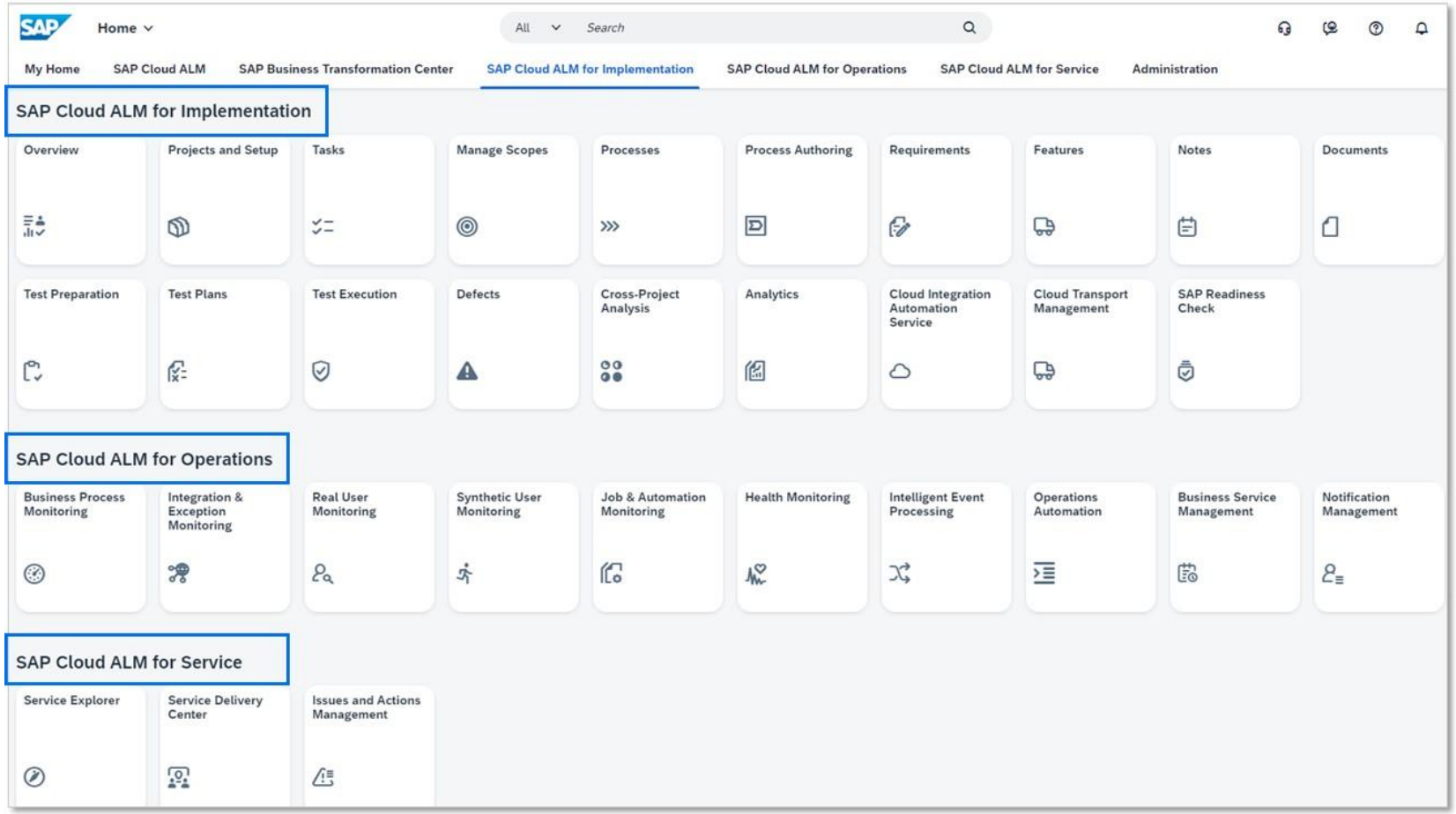
User Management:

- Manages user identities, enabling efficient user lifecycle management.
- Integrates with existing identity and access management systems.

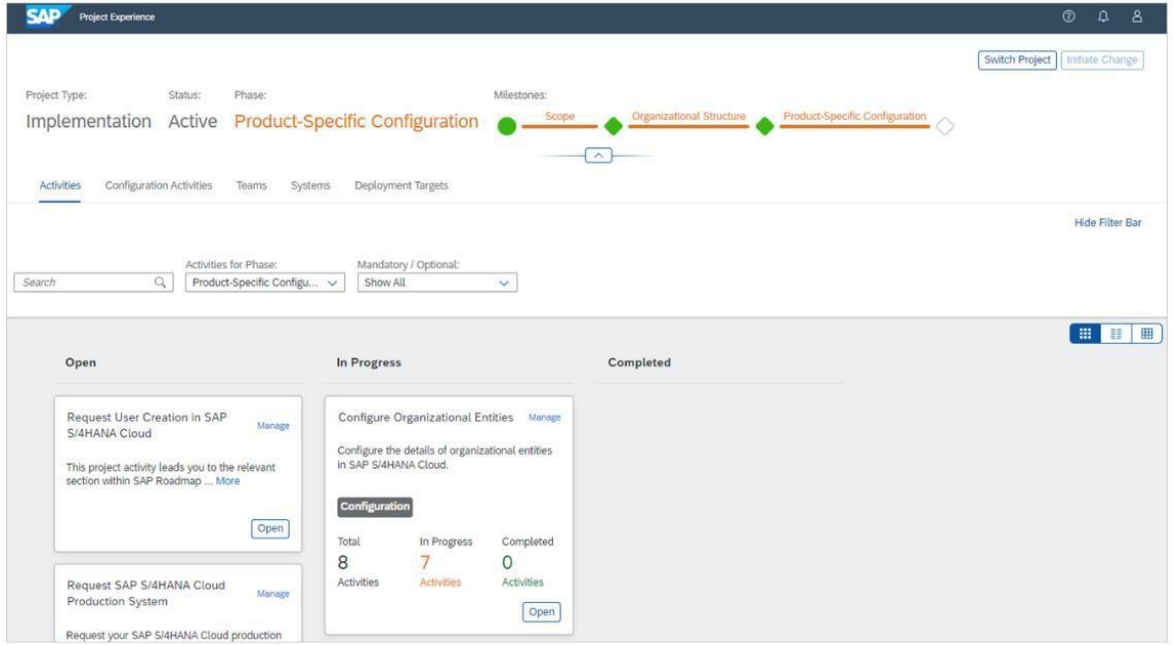
Provisioning:

- Facilitates identity provisioning to diverse applications.
- Manages authorizations to ensure secure and controlled access.

SAP Cloud ALM



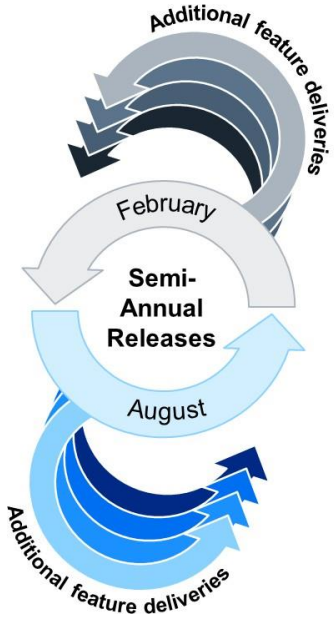
SAP Central Business Configuration

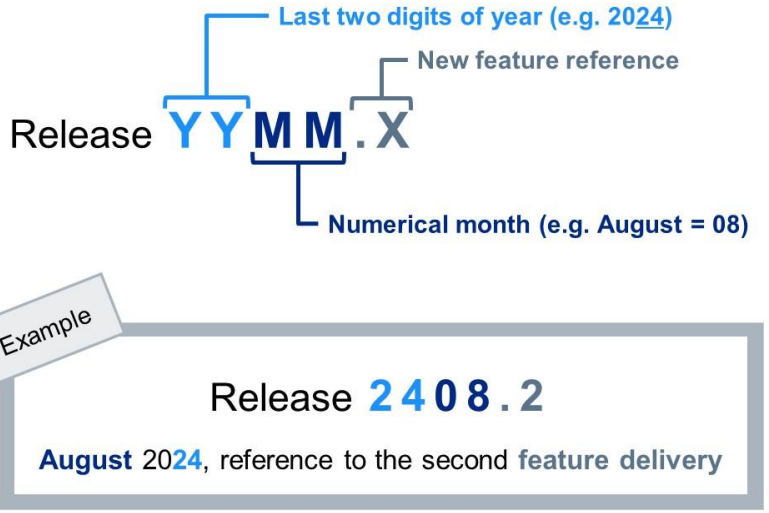


SAP Central Business Configuration:

- Tool used to activate business process content in different local versions.
- Defines core finance settings affecting the entire system.
- Builds customer's organizational structure and configures values for active business processes.
- Runs on SAP Business Technology Platform, connected to SAP S/4HANA Cloud starter and development system tenants.
- Exclusive support for SAP S/4HANA Cloud Public Edition at present.
- Guides users through Project Experience to activate business processes.
- Activities grouped into phases, each ending with a milestone.
- Supports selection and activation of new business processes during release upgrades.
- Moves projects to phase for process selection and guides through activation activities.
- Business content automatically released to SAP S/4HANA Cloud development system for further transport to test and production systems.

The SAP S/4HANA Cloud Public Edition Release Cycle





Release Strategy:

- Shifted to semi-annual releases from 2022.
- Continuous Feature Deliveries (CFD) introduced between major releases.
- Faster delivery of new capabilities with reduced disruption for customers.
- Allows immediate activation of new features or activation at the next major release.

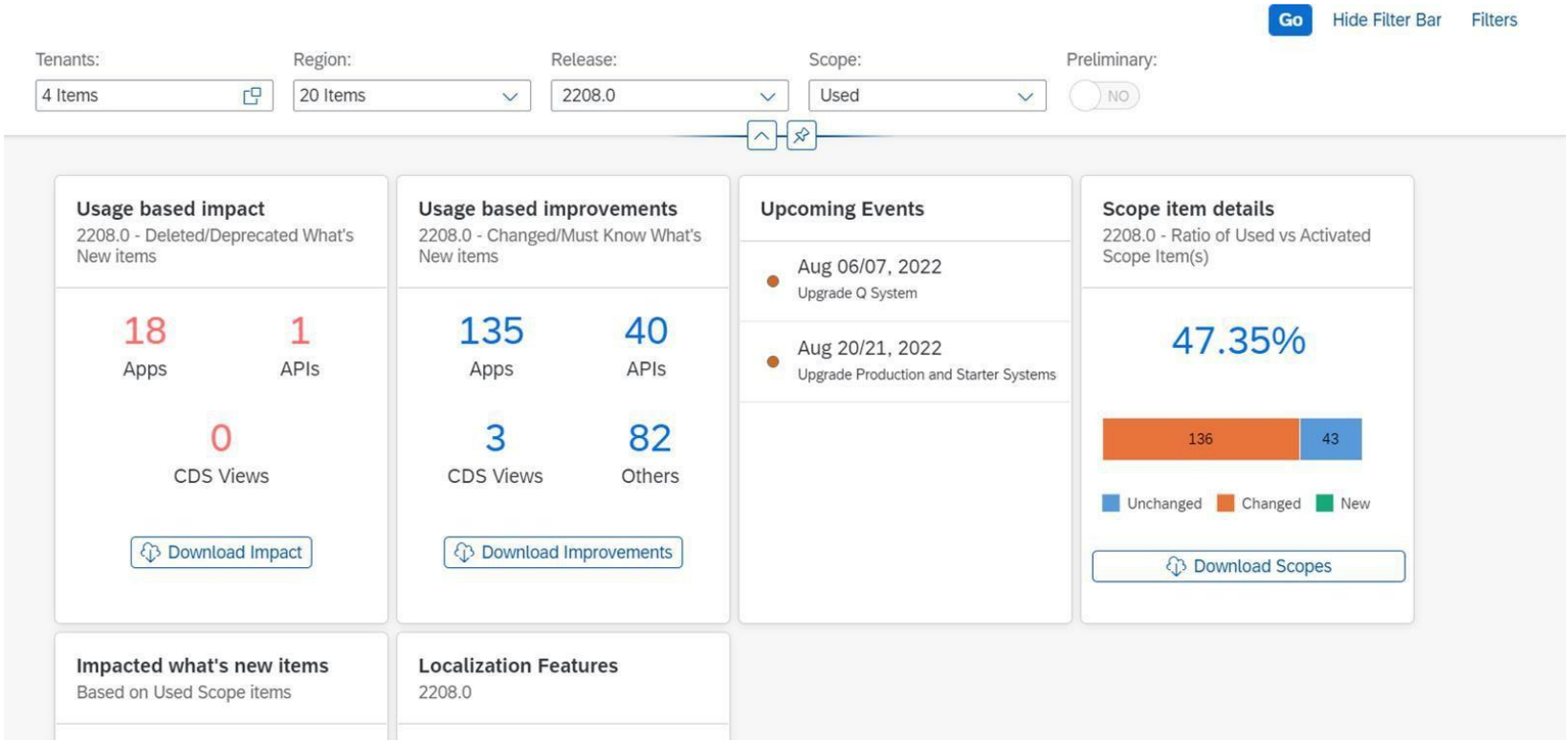
Release Reference:

- Format: YYMM (last two digits of the year and numerical month).
- CFD updates denoted by a suffix (e.g., 2202.1, 2202.2).

Activation of New Features:

- Utilizes SAP Fiori Activate New Features app in the launchpad.
- Feature activation is optional for customers.
- Testing in the Test system is required before activating in the Production system.
- Activation is not transported and cannot be deactivated once activated.

Release Assessment and Scope Dependency (RASD) Tool 2.0



- Personalized tool for customers to understand scope changes.
- Focuses on changes to existing scope, new functionalities, and deprecated functionality.
- Accessible with S-user ID or through SAP for Me in the Portfolio & Products dashboard.

Setting up Systems and Authorizations

4 Lessons 1 hr 30 mins

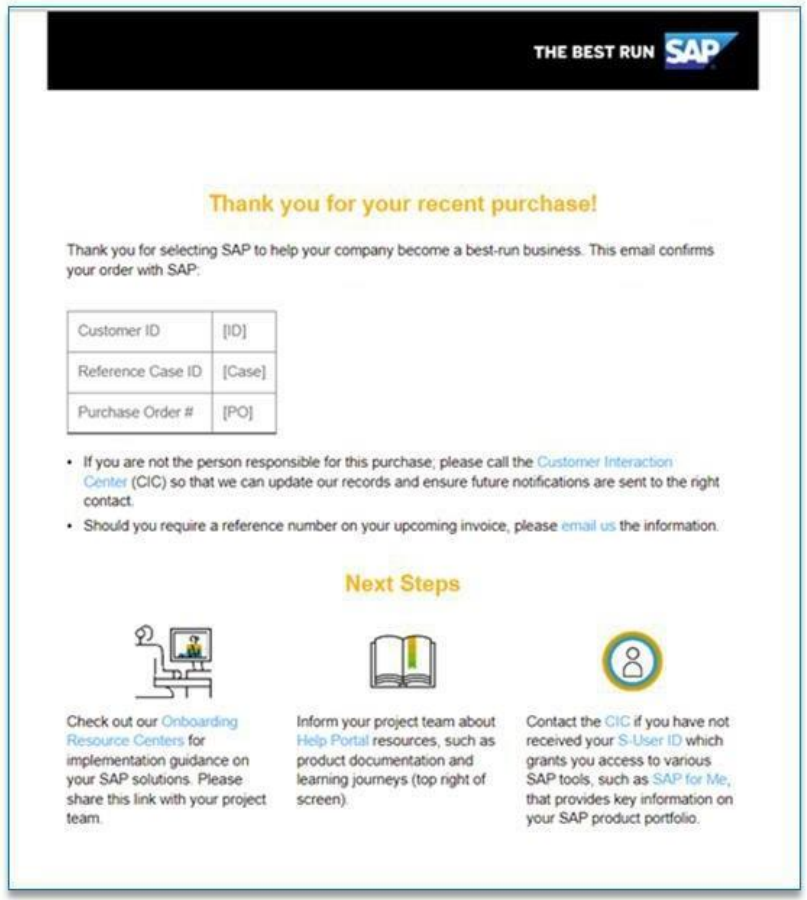
After completing this unit, you will be able to:

- Review the communications delivered to customers after purchasing SAP S/4HANA Cloud Public Edition
- Provision systems in SAP for Me
- Create users and grant access in SAP Cloud Identity
- Set up the implementation project in SAP Cloud ALM
- Deploy content in SAP S/4HANA Cloud Starter System
- Create users and grant access to the SAP S/4HANA Cloud Public Edition starter system tenants

Onboarding Communication Journey

Purchase Confirmation

The customer contact receives a purchase order confirmation email within 24H of signing contract.



THE BEST RUN SAP

Thank you for your recent purchase!

Thank you for selecting SAP to help your company become a best-run business. This email confirms your order with SAP:

Customer ID	[ID]
Reference Case ID	[Case]
Purchase Order #	[PO]

- If you are not the person responsible for this purchase, please call the Customer Interaction Center (CIC) so that we can update our records and ensure future notifications are sent to the right contact.
- Should you require a reference number on your upcoming invoice, please email us the information.

Next Steps

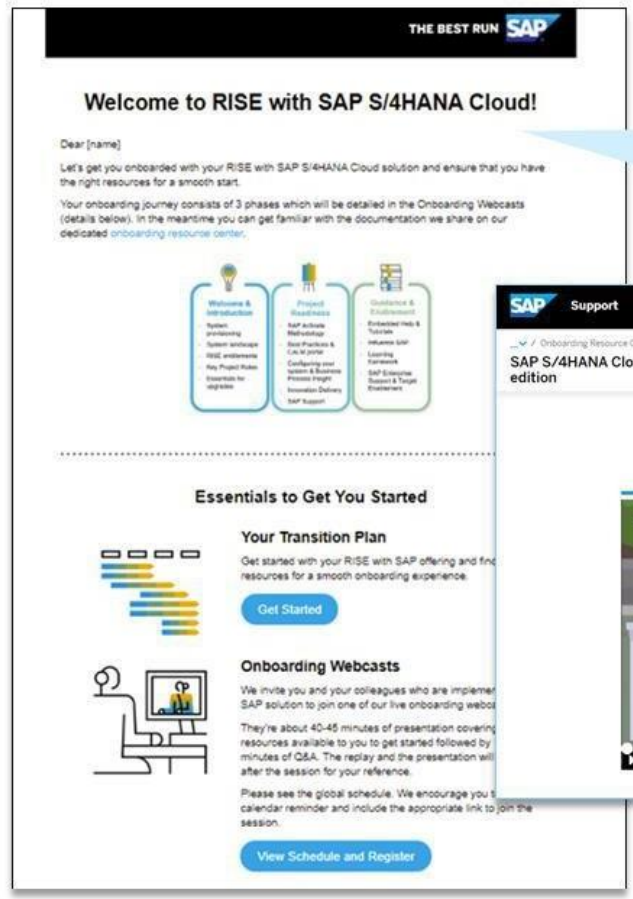
Check out our Onboarding Resource Centers for implementation guidance on your SAP solutions. Please share this link with your project team.

Inform your project team about Help Portal resources, such as product documentation and learning journeys (top right of screen).

Contact the CIC if you have not received your S-User ID which grants you access to various SAP tools, such as SAP for Me, that provides key information on your SAP product portfolio.

Contract Start Date

The customer contact receives a Welcome email with next steps.



THE BEST RUN SAP

Welcome to RISE with SAP S/4HANA Cloud!

Dear [name]

Let's get you onboarded with your RISE with SAP S/4HANA Cloud solution and ensure that you have the right resources for a smooth start.

Your onboarding journey consists of 3 phases which will be detailed in the Onboarding Webcasts (details below). In the meantime you can get familiar with the documentation we share on our dedicated onboarding resource center.

Essentials to Get You Started

Your Transition Plan

Get started with your RISE with SAP offering and find resources for a smooth onboarding experience.

Get Started

Onboarding Webcasts

We invite you and your colleagues who are implementing your SAP solution to join one of our live onboarding webcasts.

They're about 40-45 minutes of presentation covering resources available to you to get started followed by minutes of Q&A. The replay and the presentation will after the session for your reference.

Please see the global schedule. We encourage you to calendar reminder and include the appropriate link to join the session.

View Schedule and Register

The same information from this email is documented in the **Customer Onboarding Resource Center**.

SAP Support | My Support | Products | Tools | Maintenance | Offerings & Programs | ALM | Explore SAP

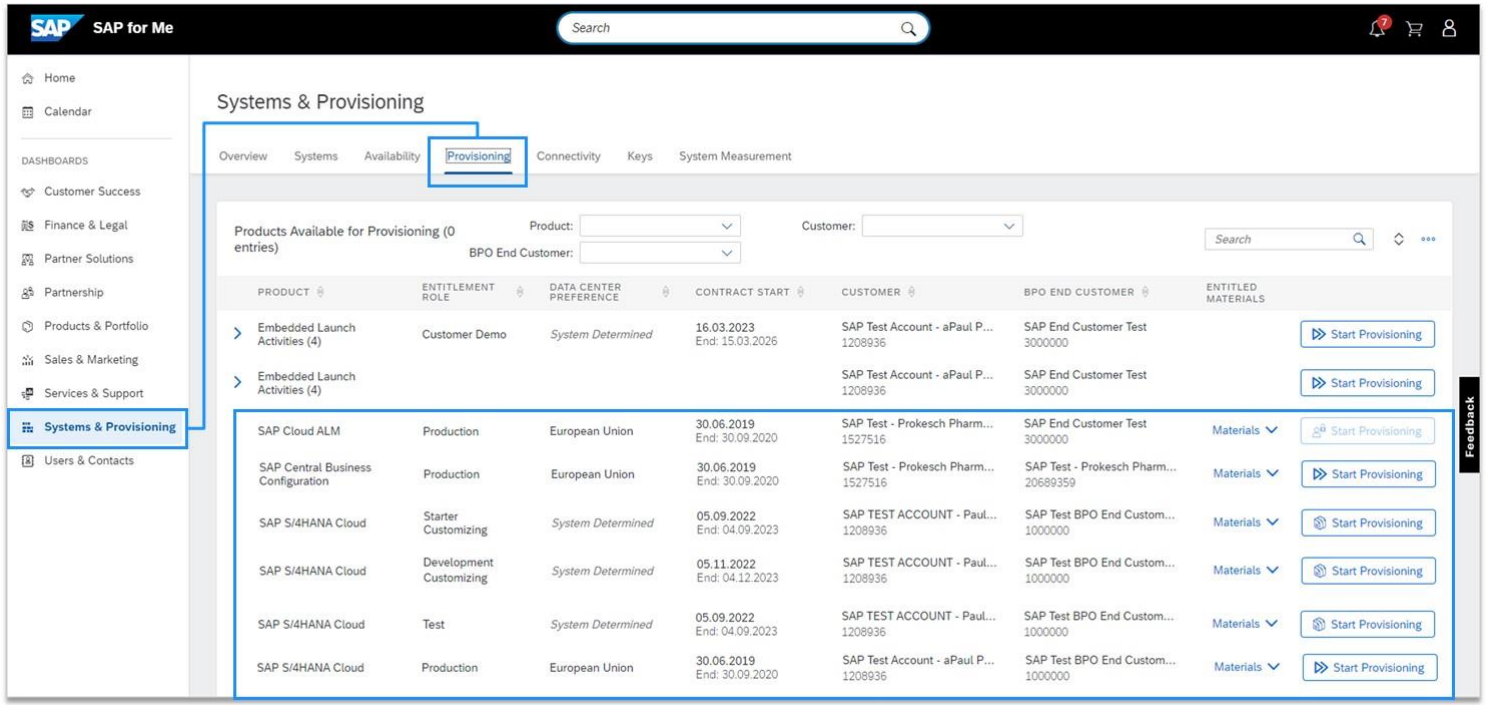
SAP S/4HANA Cloud, public edition | Overview | Welcome | Project Readiness | Project Guidance | Project Progress | Go-Live Preparation

SAP S/4HANA Cloud, public edition
Onboarding Resource Center

Let's Get Started Together

Access Onboarding Webinars

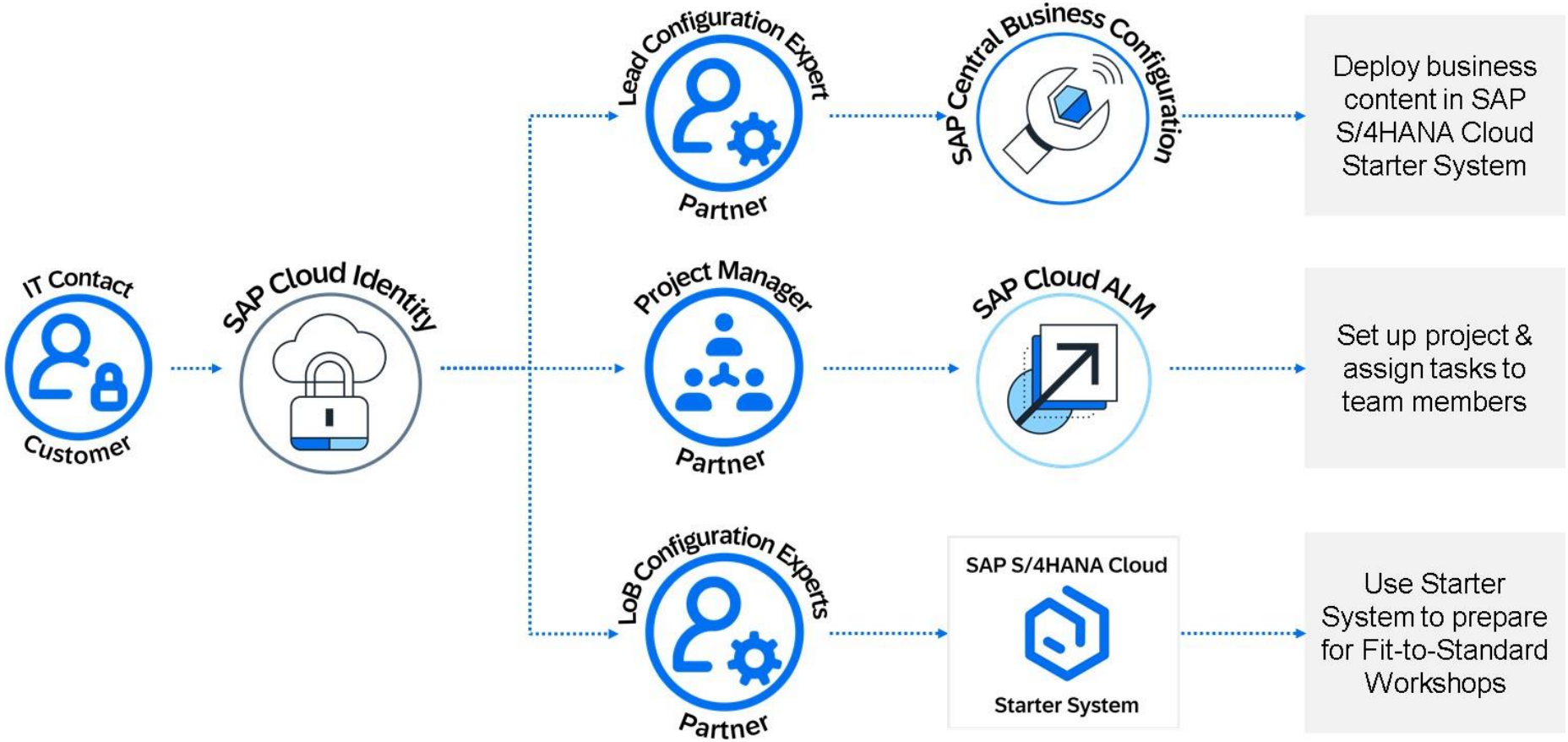
System Provisioning in SAP for Me



The **customer IT Contact** triggers provisioning

1. SAP Cloud ALM
2. SAP Central Business Configuration
3. SAP S/4HANA Cloud Starter System
4. SAP S/4HANA Cloud Development System
5. SAP S/4HANA Cloud Test System
6. SAP S/4HANA Cloud Production System

User Creation and Permission in SAP Cloud Identity (for CBC)



Start Exercise

Content Deployment in the SAP S/4HANA Cloud Starter System

Create projects

- 1 project for **starter customizing tenant**
- 1 project for **starter development tenant**

Define Scope

- **Enterprise Management** bundle pre-selected
- Select **country/region(s)**
- Select **group ledger** (IFRS and/or US GAAP)
- Select **deployment target**

Confirm org structure & finance settings

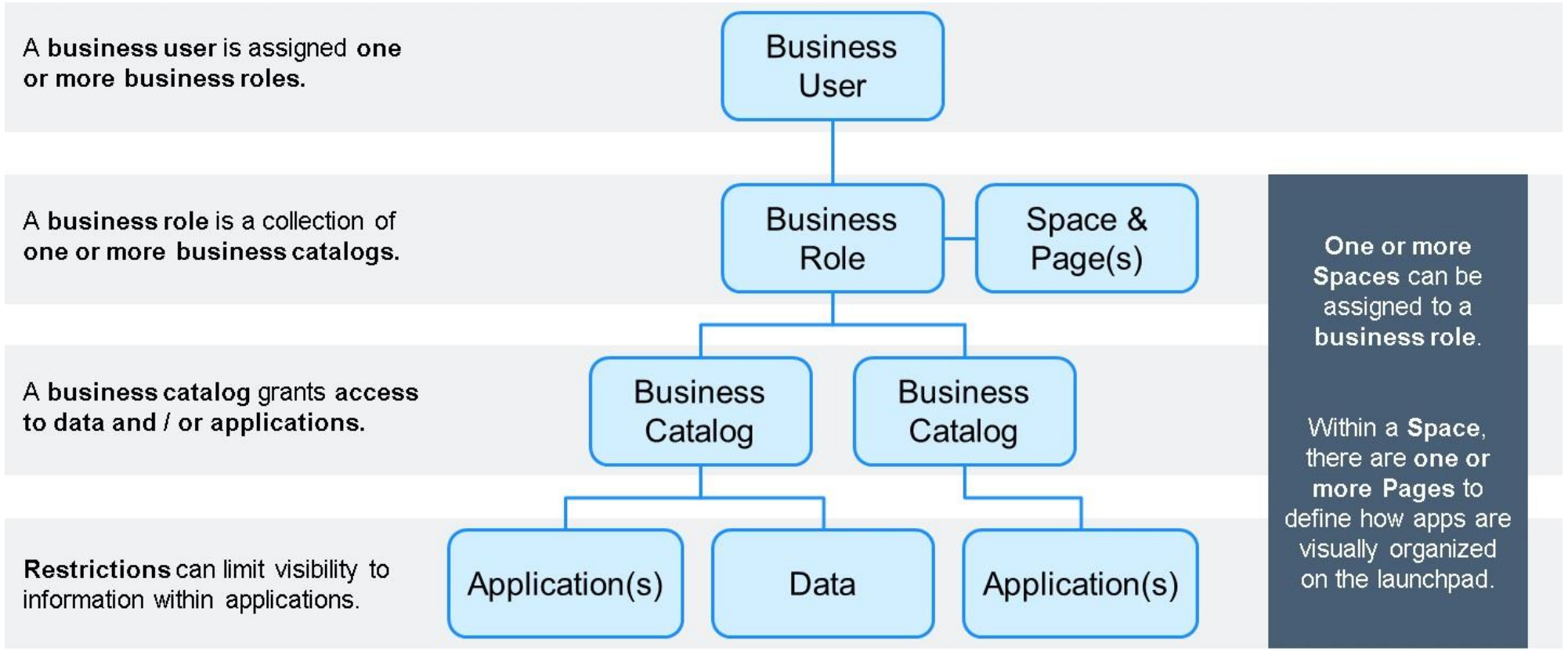
- **Organizational structure** already defined based on selected country/region(s)
- **FYV** & **group currency** are already defined

Confirm configurations

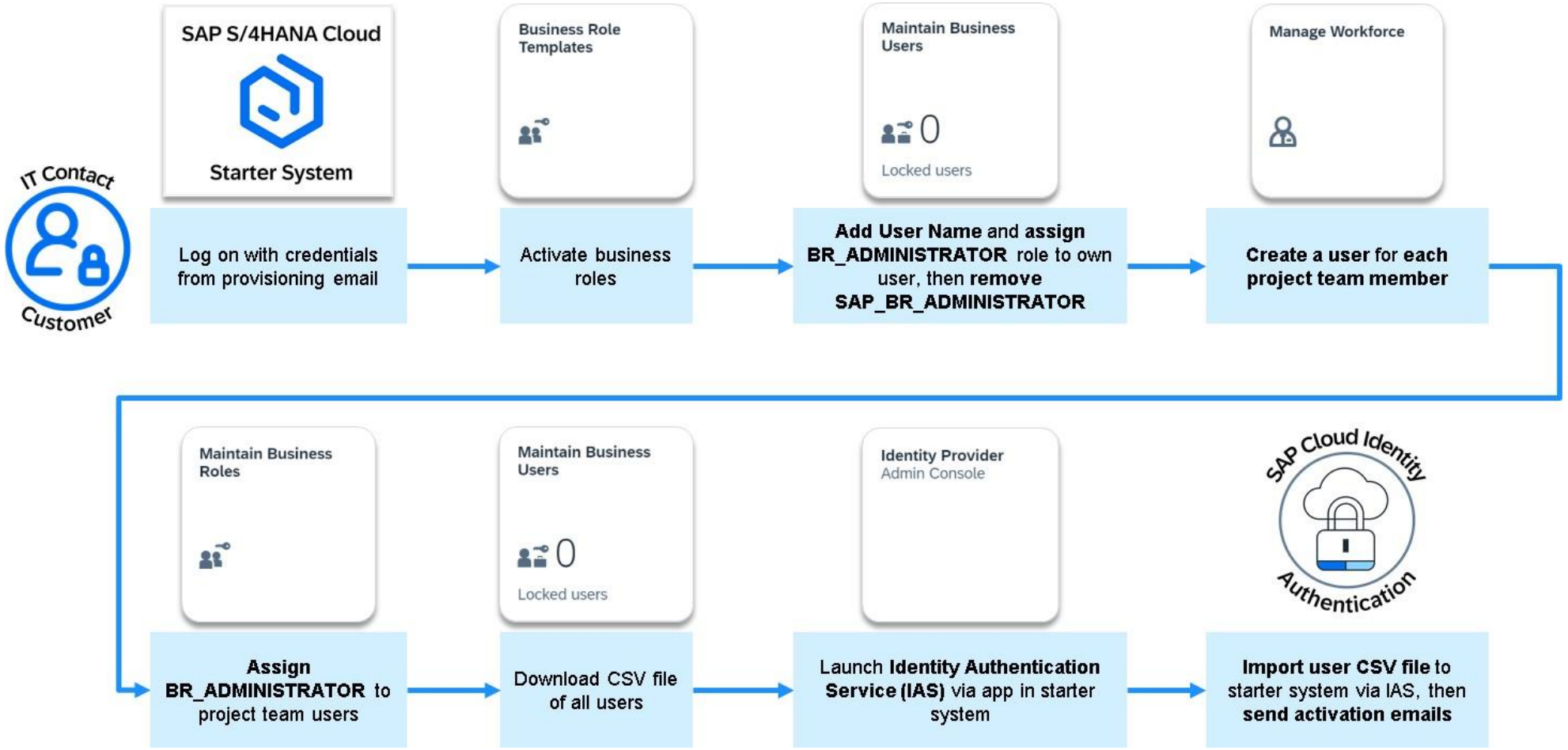
- **Config values** for each business process are already defined

User Creation and Authorization in the SAP S/4HANA Cloud Starter System

Role-Based Authorization in SAP S/4HANA Cloud



Overview of creating users and assigning permission in the SAP S/4HANA Cloud Starter System



Gathering Data in Fit-to-Standard Workshops

2 Lessons 50 mins

After completing this unit, you will be able to:

- Describe an overview of the Fit-to-Standard Analysis process flow
- Gather responses to the Business Driven Configuration Questionnaire (BDCQ)
- Prepare starter system and schedule workshops
- Demonstrate business processes and gather configuration values

Fit-to-Standard Analysis Process Overview from Prepare to Realize Phase

Prepare

Review Digital Discovery Assessment scope selections

Gather Business Driven Configuration Questionnaire (BDCQ) responses

Prepare for Fit-to-Standard Analysis Workshops

- Plan & schedule workshops
- Prepare SAP S/4HANA Cloud Starter System

Explore

Deliver Fit-to-Standard Analysis Workshops

Demonstrate each business process

- Show documentation in SAP Signavio Process Navigator
- Demonstrate test script in Starter System
- Discuss process fit

Document each business process

- Remaining BDCQ values
- Requirement in SAP Cloud ALM → Requirements app
- Change impact feedback

Customer LoB Expert → Testing in Starter System

Realize

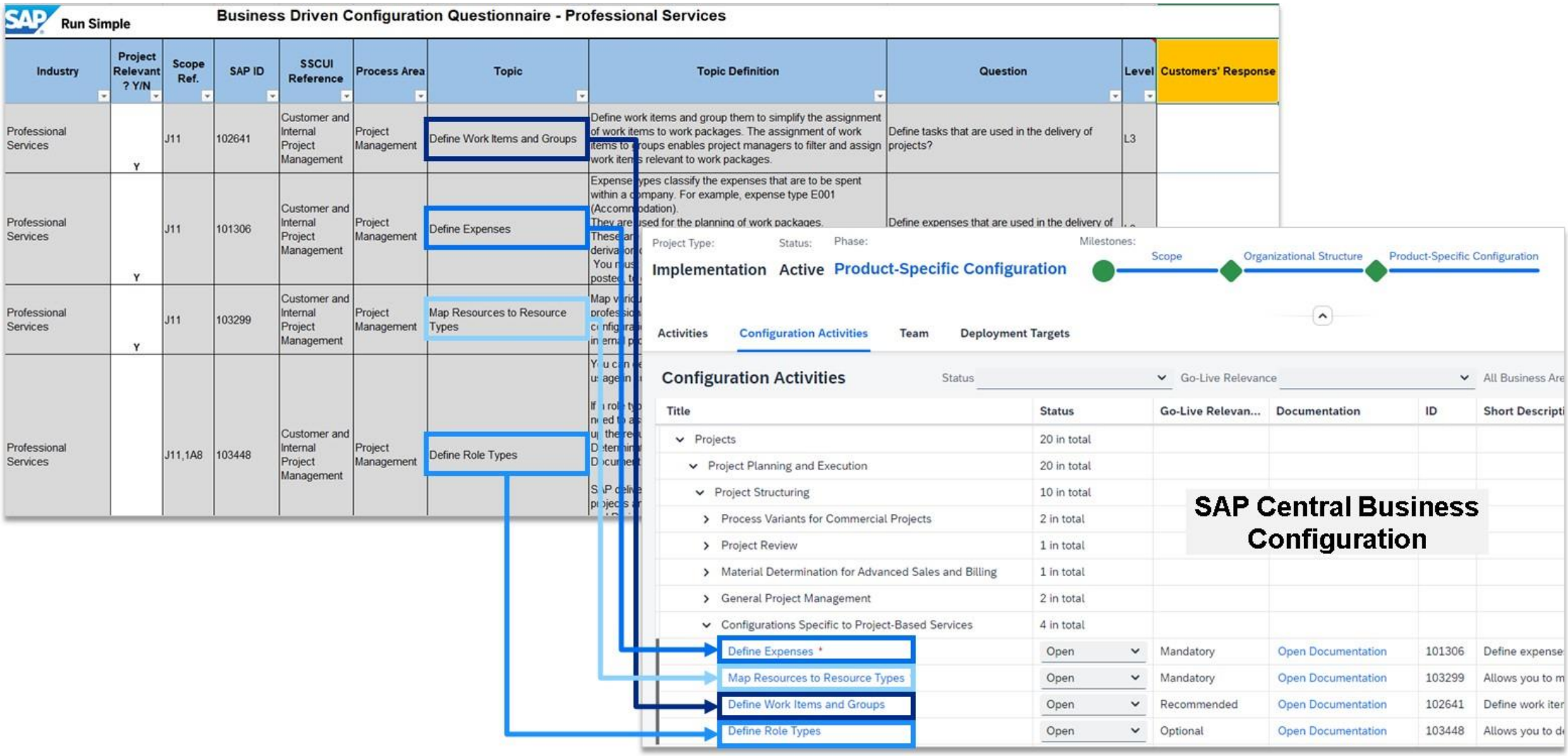
Implement Configurations & Customizations

- Configure & customize Development System tenants in sprints
- Transport from CBC → Dev → Test → Production

User Acceptance Testing (UAT) sign-off

- Set up manual test cases in SAP Cloud ALM
- Customer LoB experts test & approve processes

Purpose of the Business Driven Configuration Questionnaires (BDCQs)



Conducting Fit-to-Standard Workshops

"Mini" Kick-Off

- Why did we invite you here today?
- What is the Cloud Mindset?
- Why is your participation important?
- Where are we in the implementation process?
- What business process(es) will be covered today?

Fit-to-Standard Analysis

For each business process:

1. Demonstrate business process flow diagram
   - SAP Signavio Process Navigator / Solution Scenario /
   - **SAP Best Practices for SAP S/4HANA Cloud, public edition**
2. Demonstrate test script procedures
3. Discuss process fit with customer needs

SAP S/4HANA Cloud

Starter System

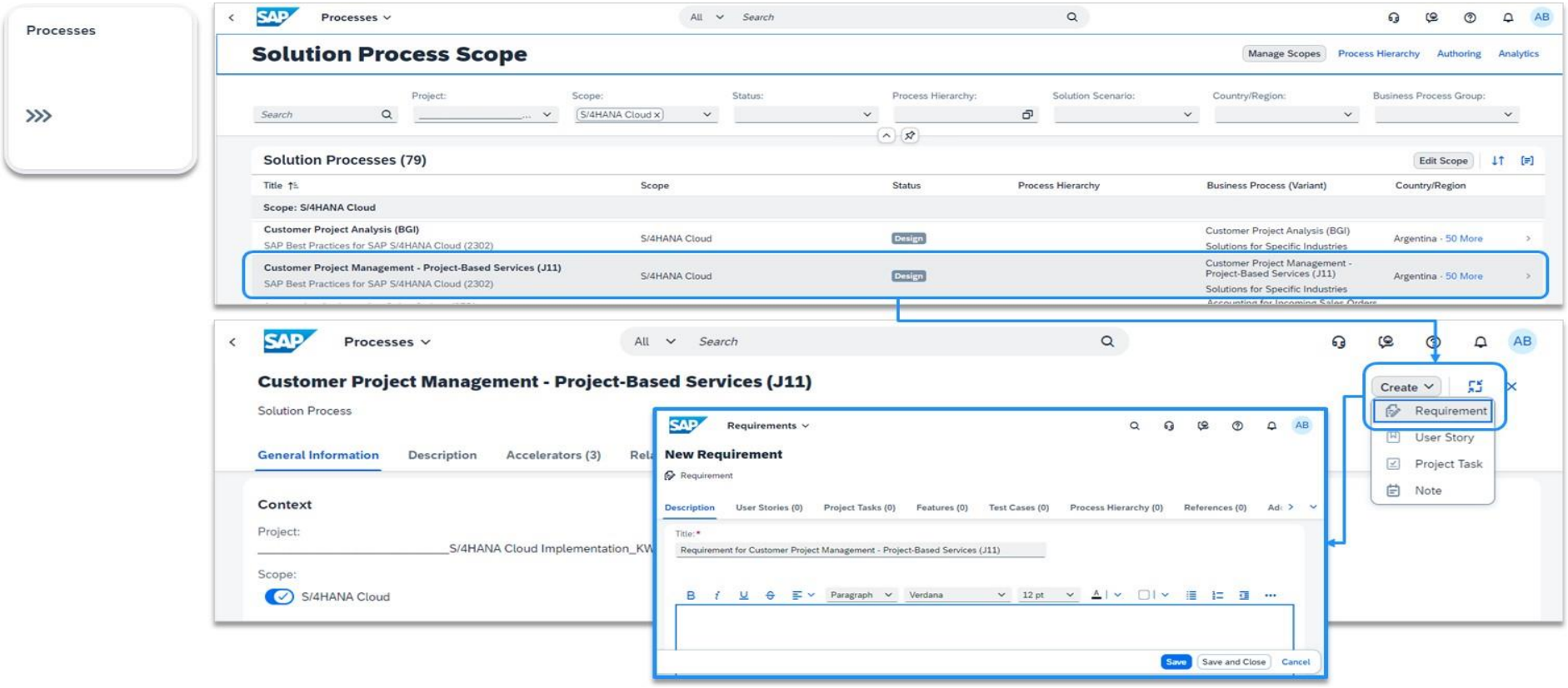
4. Document & prioritize requirements

SAP Cloud ALM

5. Gather remaining configuration values

6. Provide test user & starter system login info for customer's own testing

Documenting Requirements in SAP Cloud ALM during Fit-to-Standard Analysis Workshops



Configuring Business Processes with SAP Central Business Configuration

5 Lessons 50 mins

After completing this unit, you will be able to:

- Set up the implementation projects for the development system tenants
- Define the scope and country/region localizations
- Select the primary finance settings and build the organizational structure
- Define and transport product-specific configuration values
- Create users and grant access to the SAP S/4HANA Cloud Public Edition Development System tenants
- Create users and grant access to the SAP S/4HANA Cloud Public Edition Test and Production Systems

Overview of deploying content in SAP S/4HANA Cloud Development System tenants

Create projects

- 1 project for **development system customizing tenant**
- 1 project for **development tenant**

Define Scope

- Select **scope bundle**
- Select **country/region(s)**
- Select **group ledger** (IFRS and/or USGAAP)
- Select **deployment target**

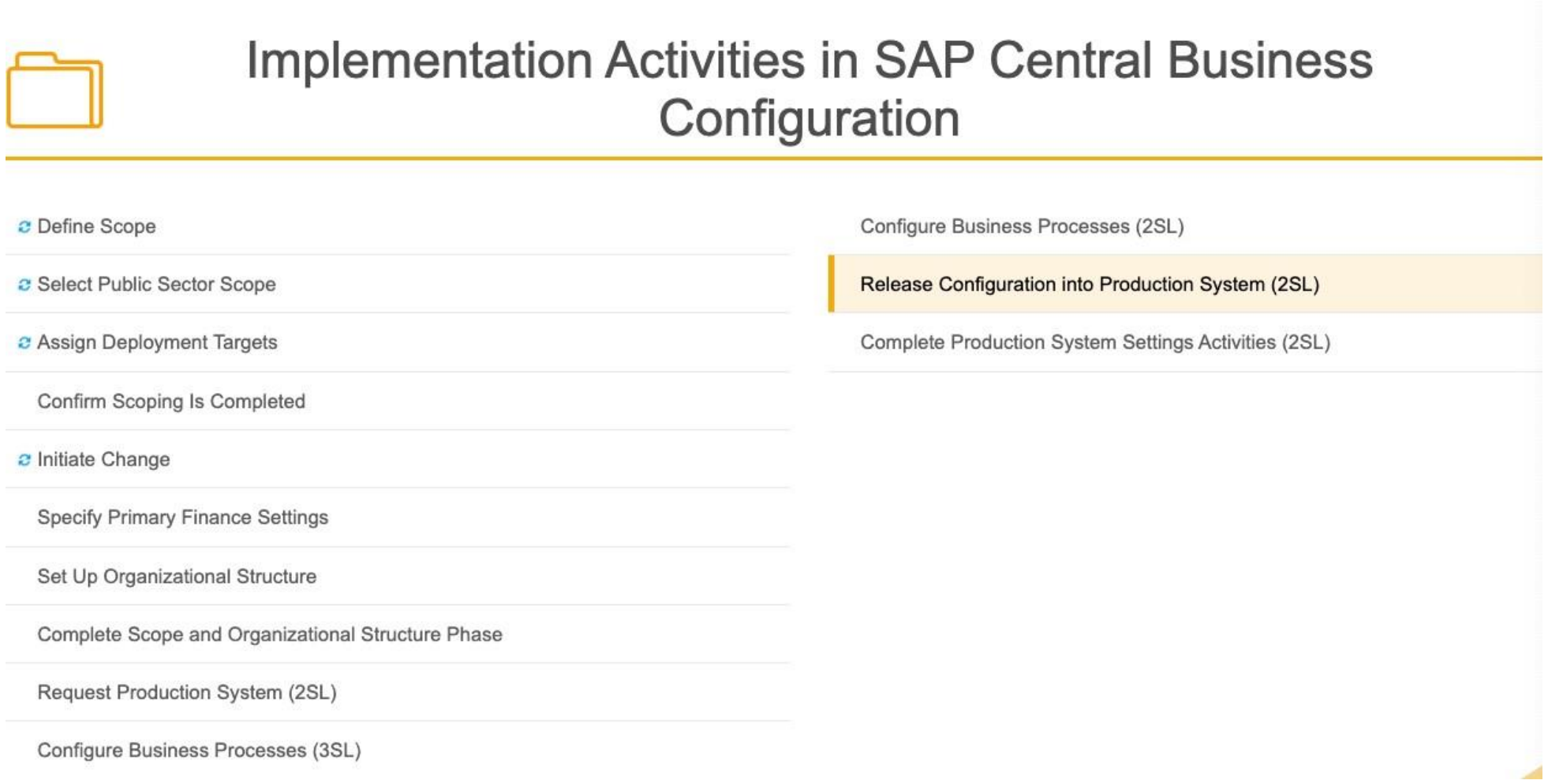
Define org structure & finance settings

- Build **customer's organizational structure** for each country/region
- **Define FYV** & **group currency**

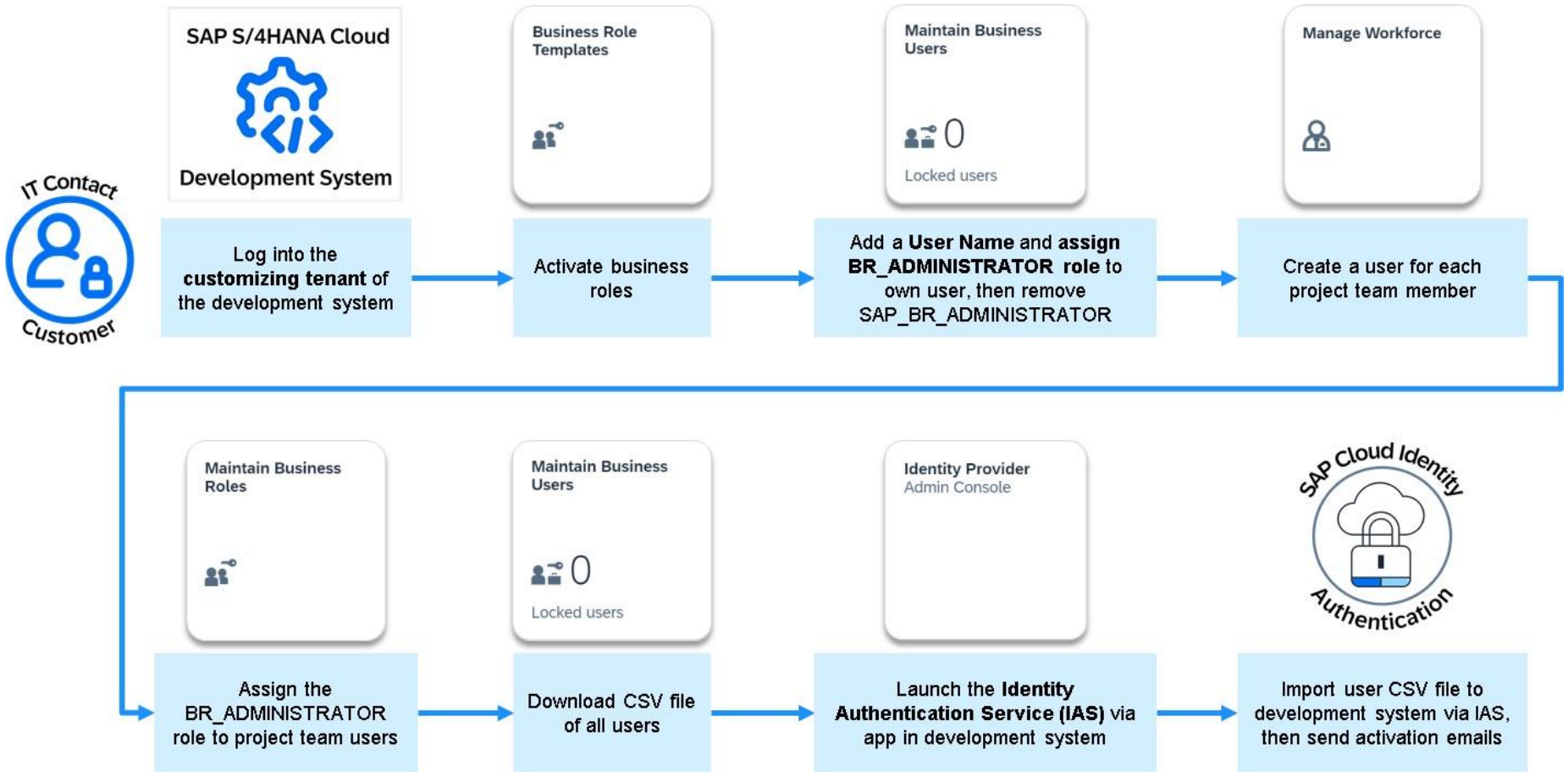
Define configurations

- Each LoB configuration expert **enters config values** gathered during their Fit-to-Standard workshops

CBC Tutorials



User Creation and Authorization in the SAP S/4HANA Cloud Development System Tenants



Working with the SAP Fiori Launchpad

6 Lessons 45 mins

After completing this unit, you will be able to:

- Navigate the SAP Fiori Launchpad
- Access the embedded support and Joule
- Manage teams and responsibilities
- Review the Situation Handling Framework
- Explore flexible business workflows
- Describe the embedded analytical applications and capabilities

Working with the SAP Fiori Launchpad

Definition:

- Design language for a consistent user experience in SAP software.
- Focus on intuitive, visually pleasing designs across devices.

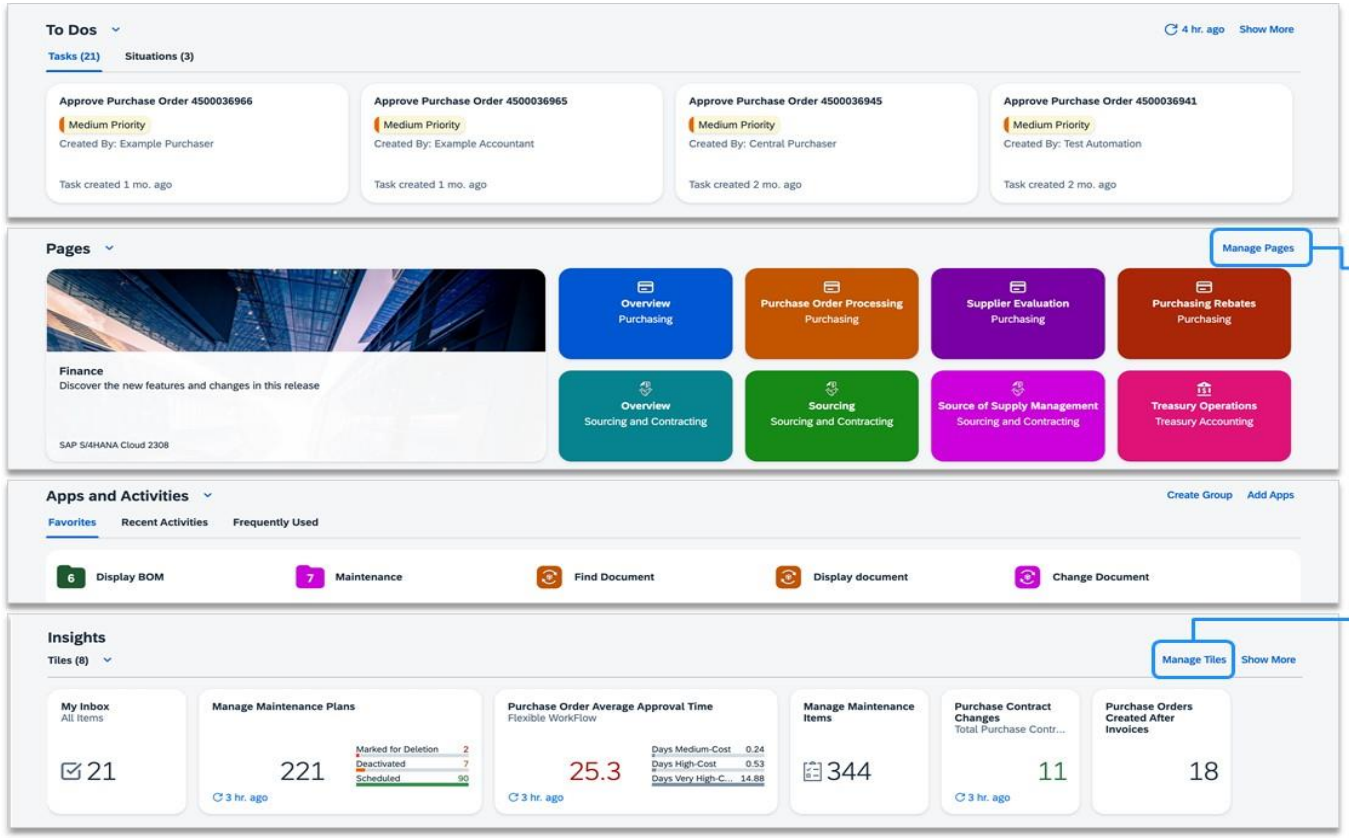
Core Concepts:

- Role-based simplification of business processes.
- Shift from monolithic solutions to activity-based apps.
- Empowerment of users in their work.

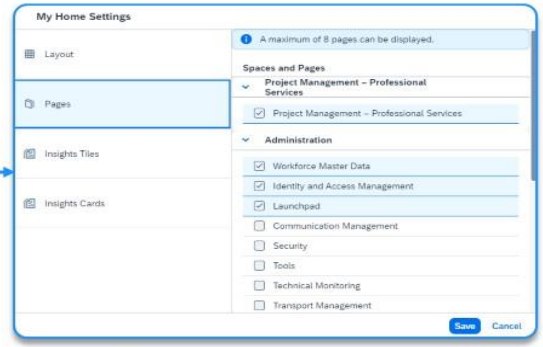
SAP Fiori Launchpad:

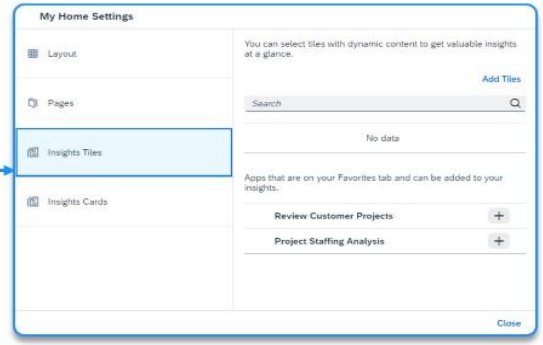
- Single entry point for user-permissioned apps on any device.
- Role-based, displaying only authorized apps.
- Responsive design based on the device used.
- Apps run within a shell with header and footer areas.

SAP Fiori Launchpad - My Home



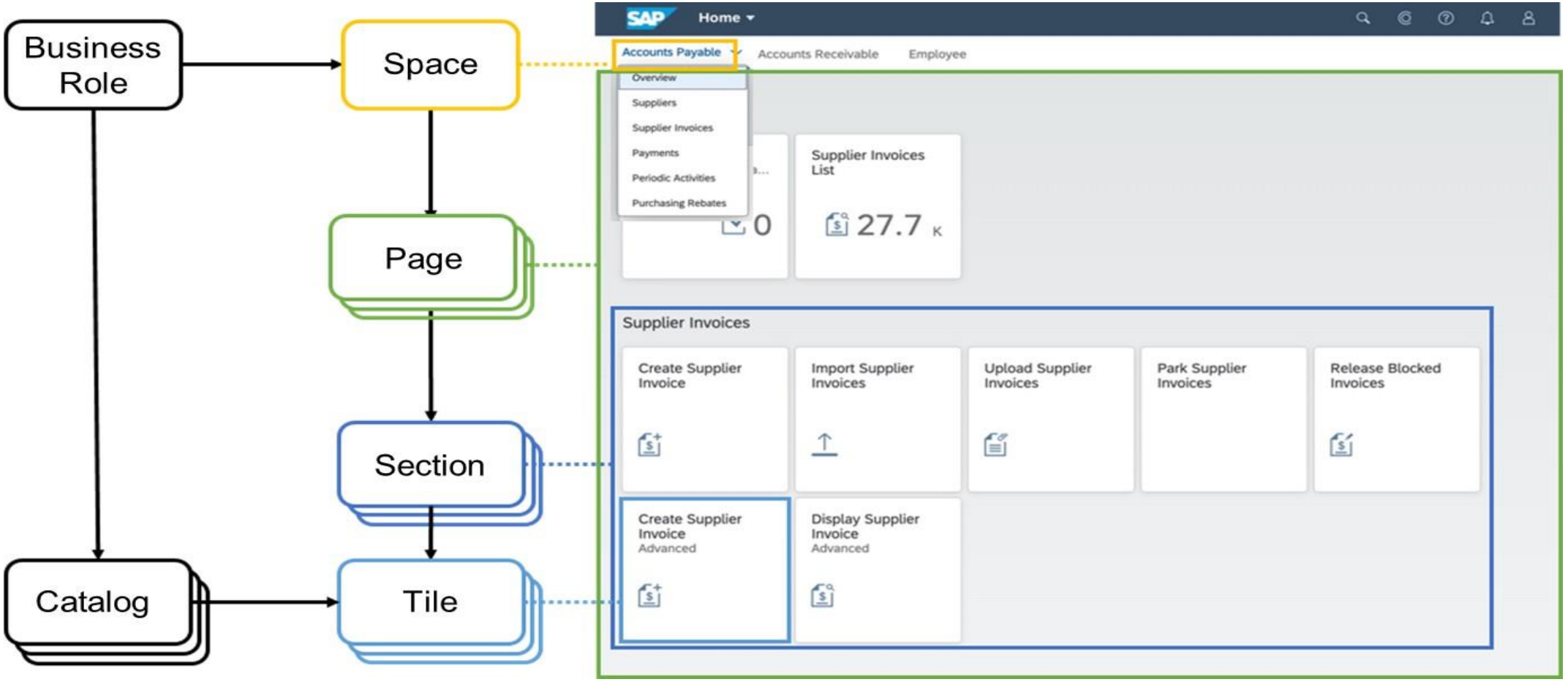
Employees can personalize what displays in each section



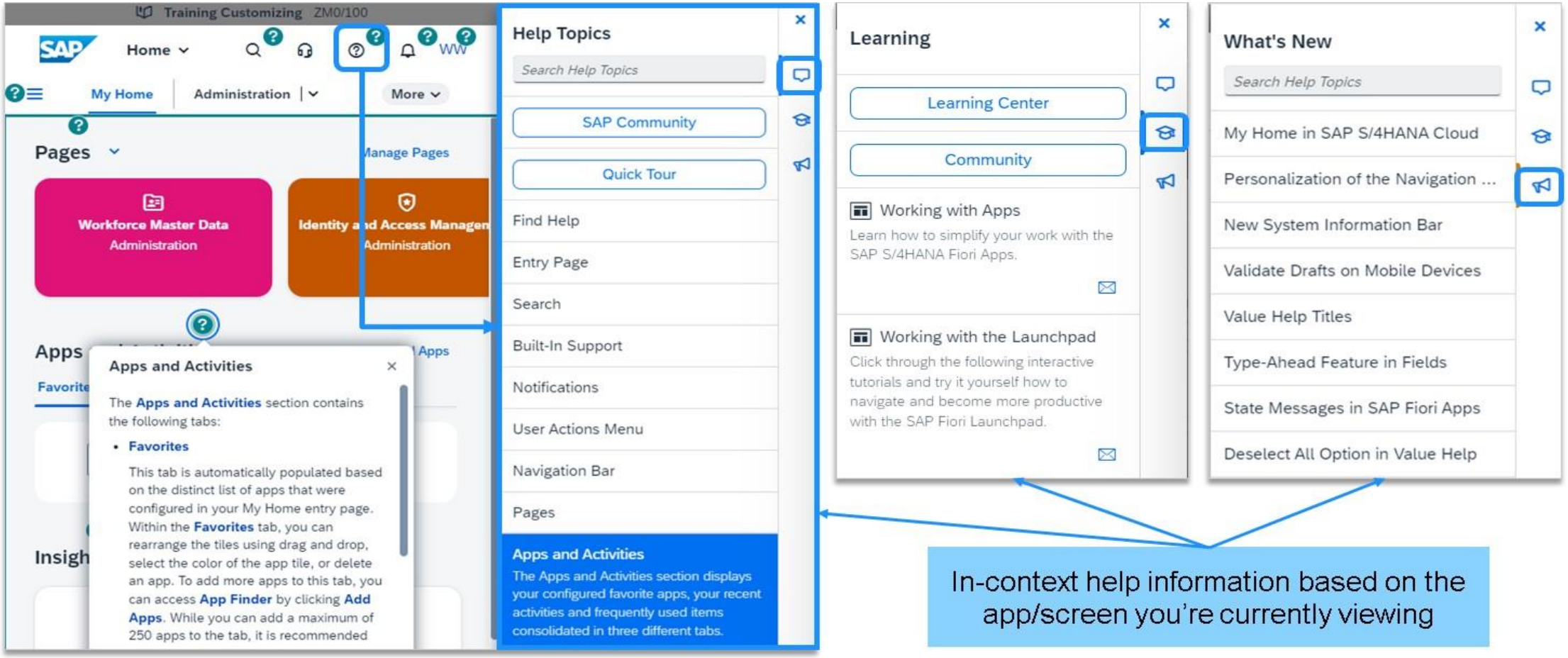


Start Exercise

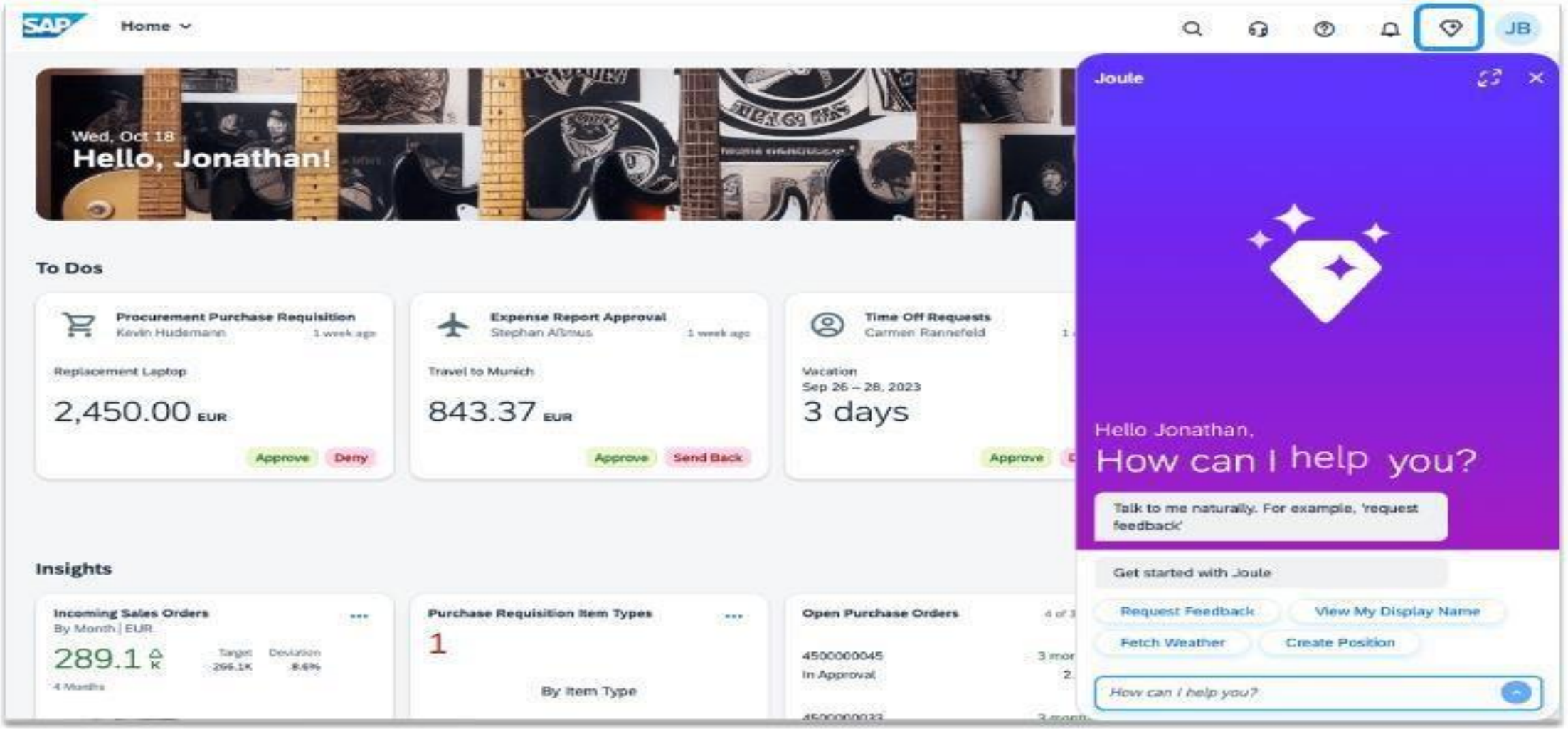
Spaces and Pages Layout



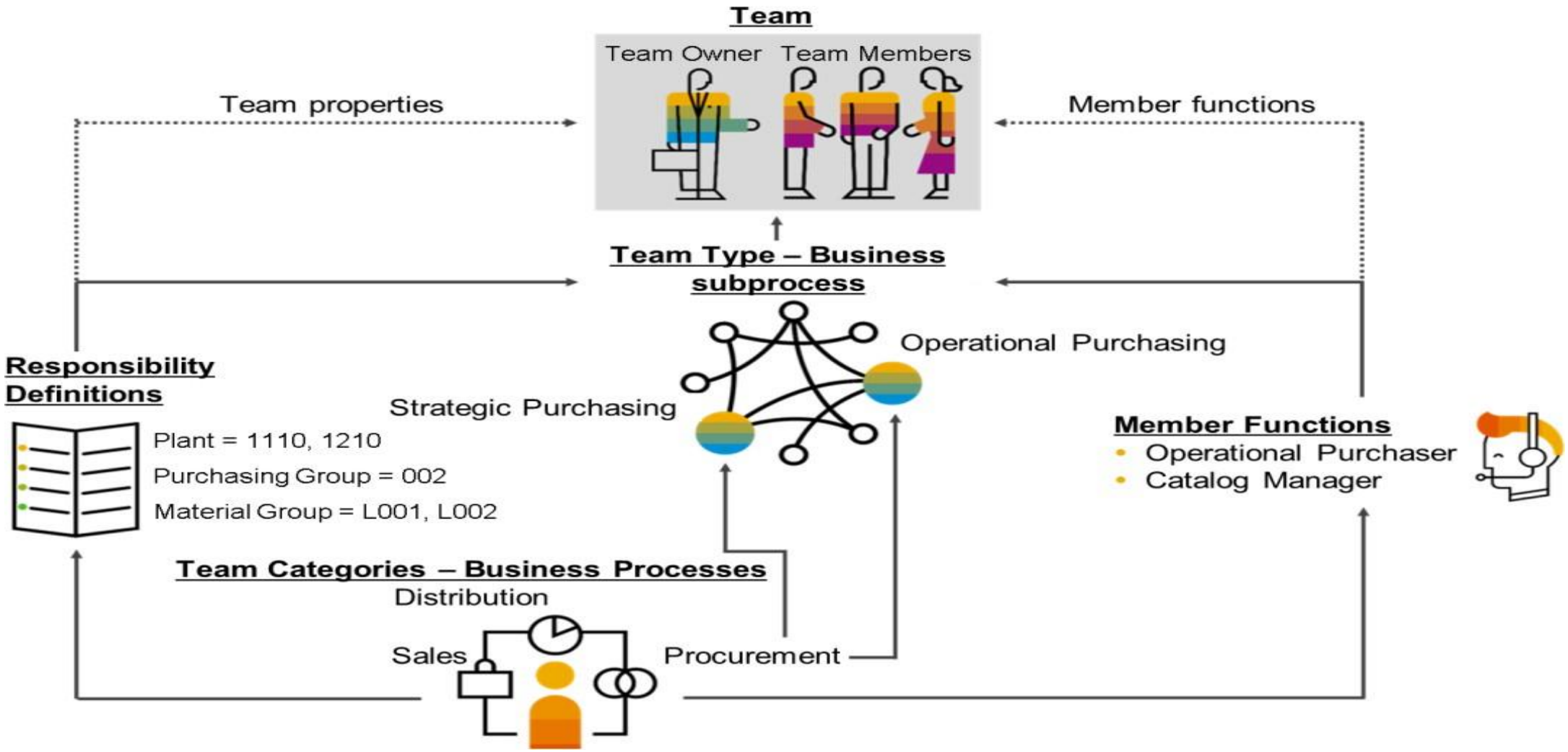
Embedded Help in the SAP Fiori Launchpad



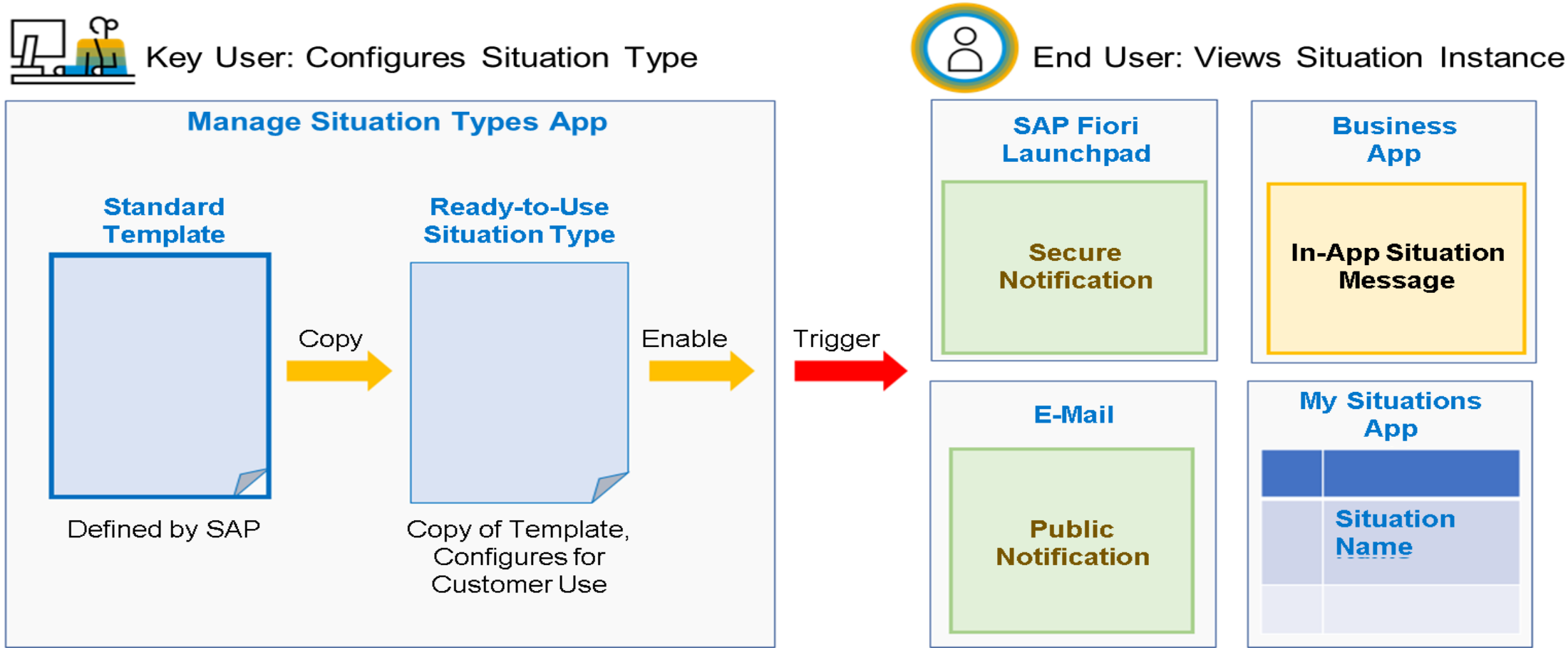
Embedded Generative AI Digital Assistant in the SAP Fiori Launchpad



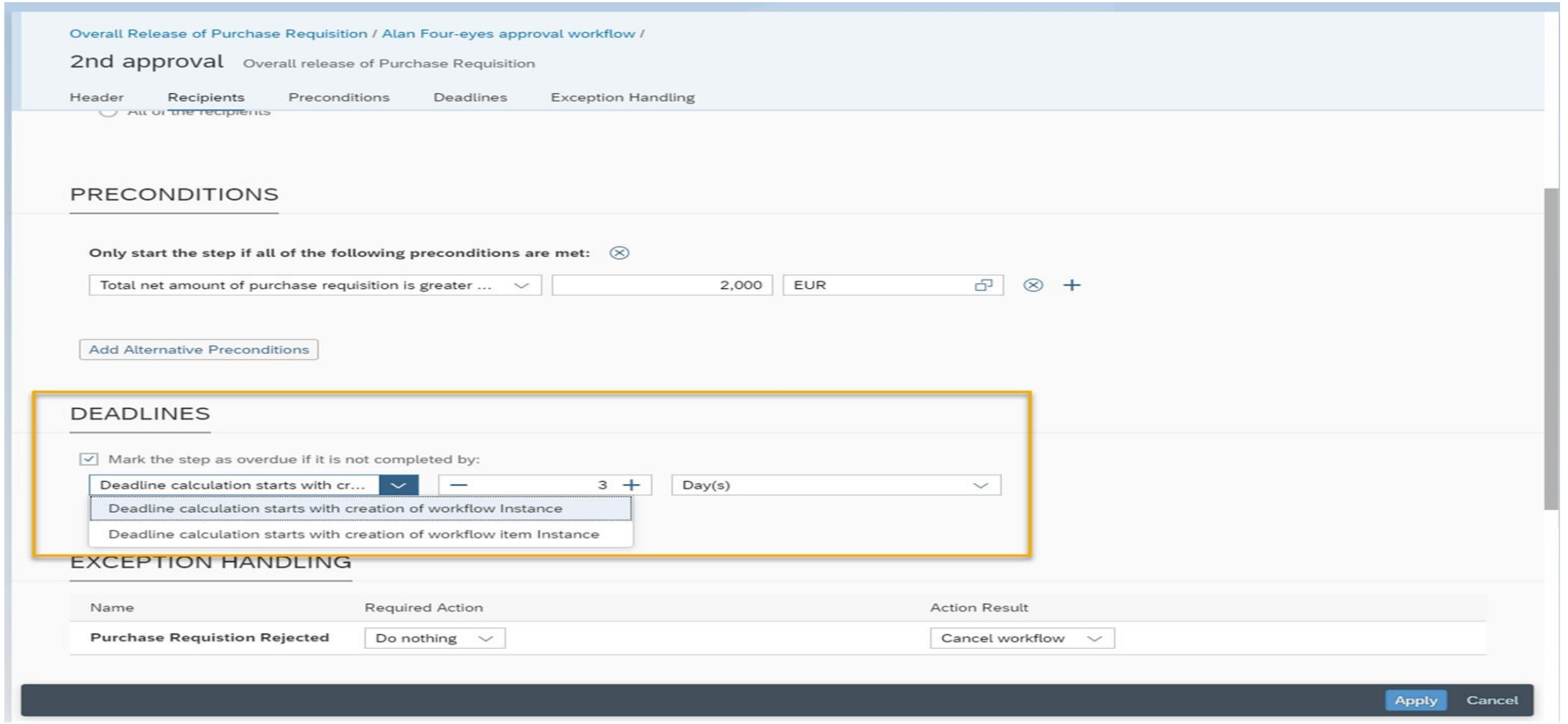
Responsibility Management



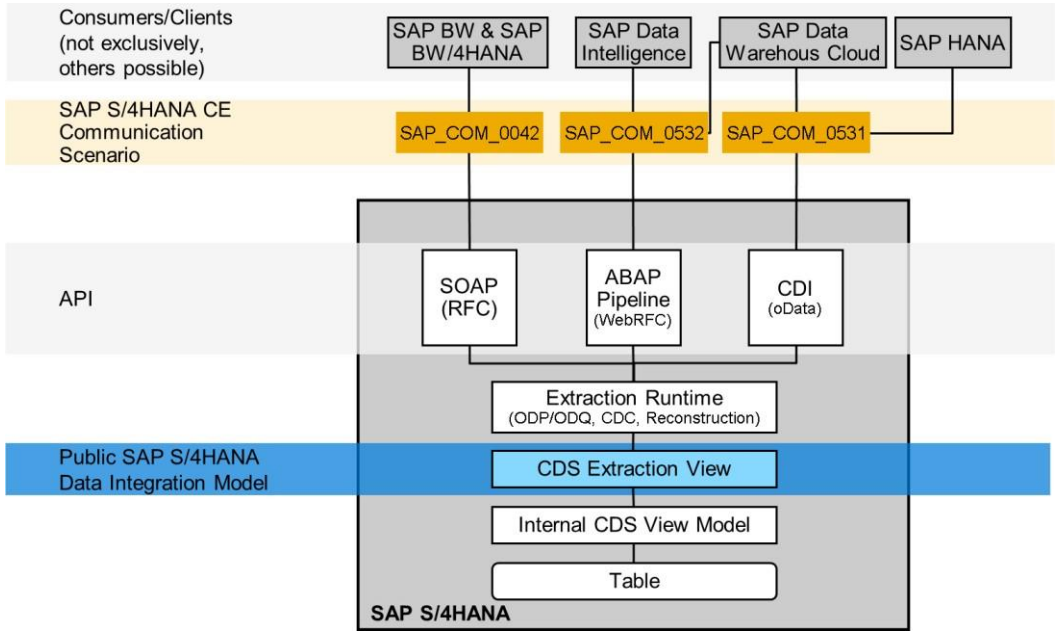
Situation Handling



Flexible Business Workflows



Analytics : Core Data Services Functionality



Usage in SAP S/4HANA Cloud:

- **Data Extraction:**
  - Pulls data from the database for SAP Fiori apps and other landscapes.
  - Strict security and compliance measures for accessing SAP-approved tables and ABAP CDS views.

[Working with Analytical Applications]

Customizing Authorizations

2 Lessons 30 mins

After completing this unit, you will be able to:

- Create a business role from a template
- Defining restrictions
- Customize a launchpad space and page

Exercise 2: Assign a Business Role
Exercise 3: Create a Custom Business Role with a Custom Launchpad Space and Page
Exercise 4: Create Teams and Responsibilities
Exercise 5: Create Business Users
Exercise 6: Define Restrictions for a Business Role

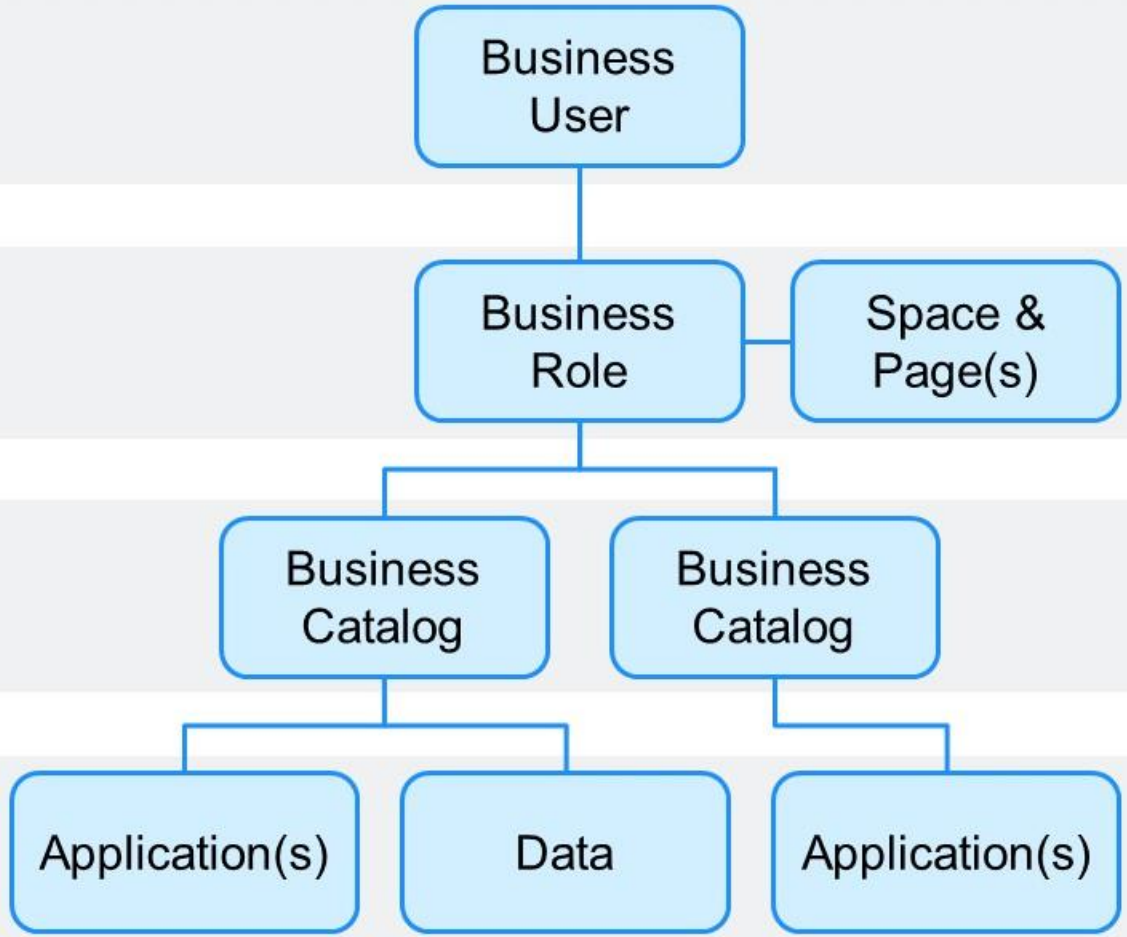
Role-Based Authorization in SAP S/4HANA Cloud

A **business user** is assigned **one or more business roles.**

A **business role** is a collection of **one or more business catalogs.**

A **business catalog** grants **access to data and / or applications.**

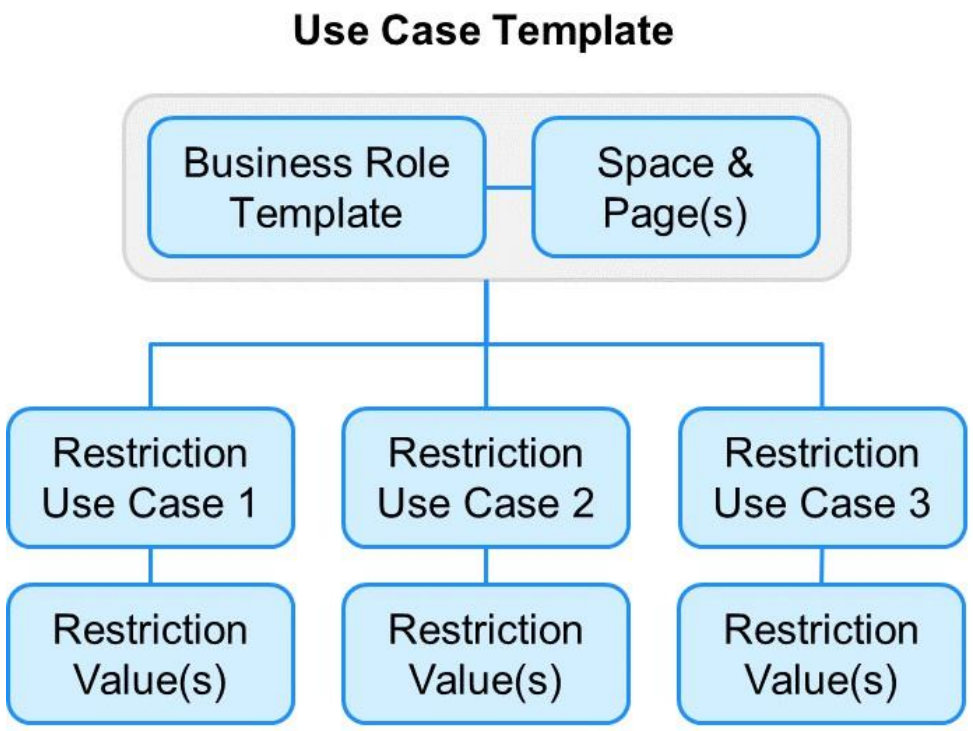
Restrictions can limit visibility to information within applications.

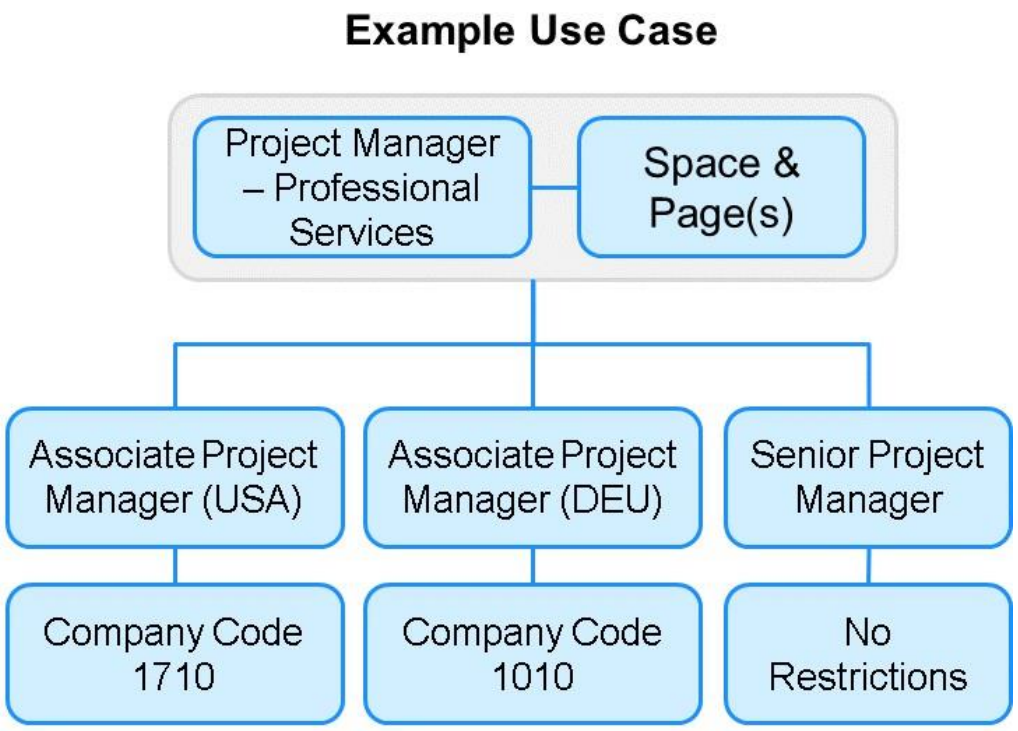


One or more Spaces can be assigned to a **business role**.

Within a **Space**, there are **one or more Pages** to define how apps are visually organized on the launchpad.

Business Role Customization Use Cases



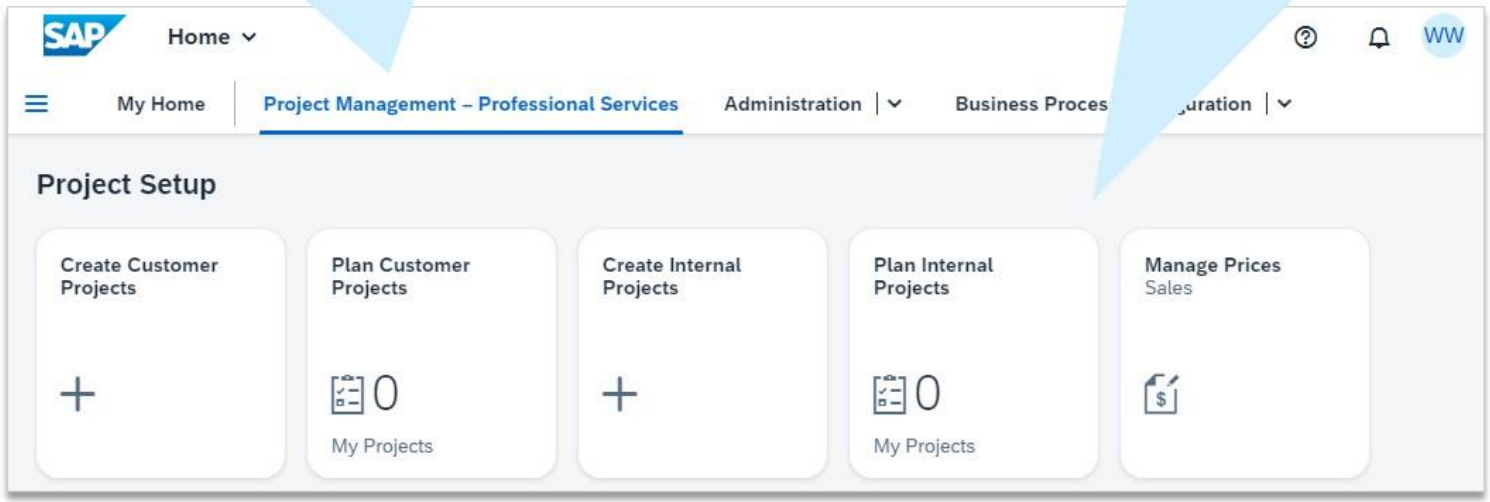


Customizing Launchpad Spaces and Pages

The **Administration space** has **multiple pages** because it displays them in a drop-down menu

The **Project Management – Professional Services space** has only **one page** because there isn't a drop-down menu

These apps are both permissioned through **Business Catalogs** assigned to the **Project Manager – Professional Services business role** AND **assigned to the page → space → business role** because they display on the launchpad



Apps assigned to Page assigned to Space assigned to Business Role

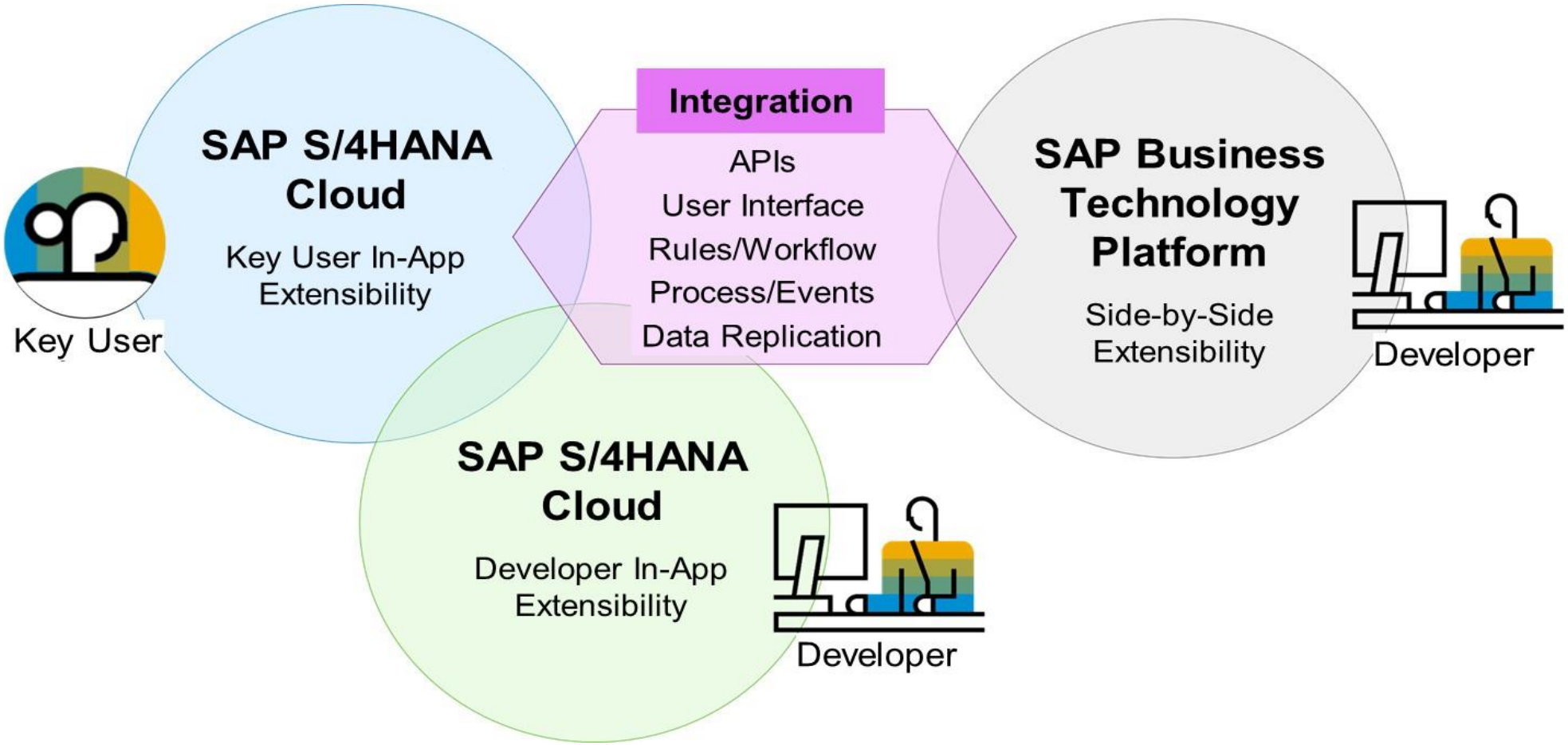
Customizing Applications

4 Lessons 1 hr 40 mins

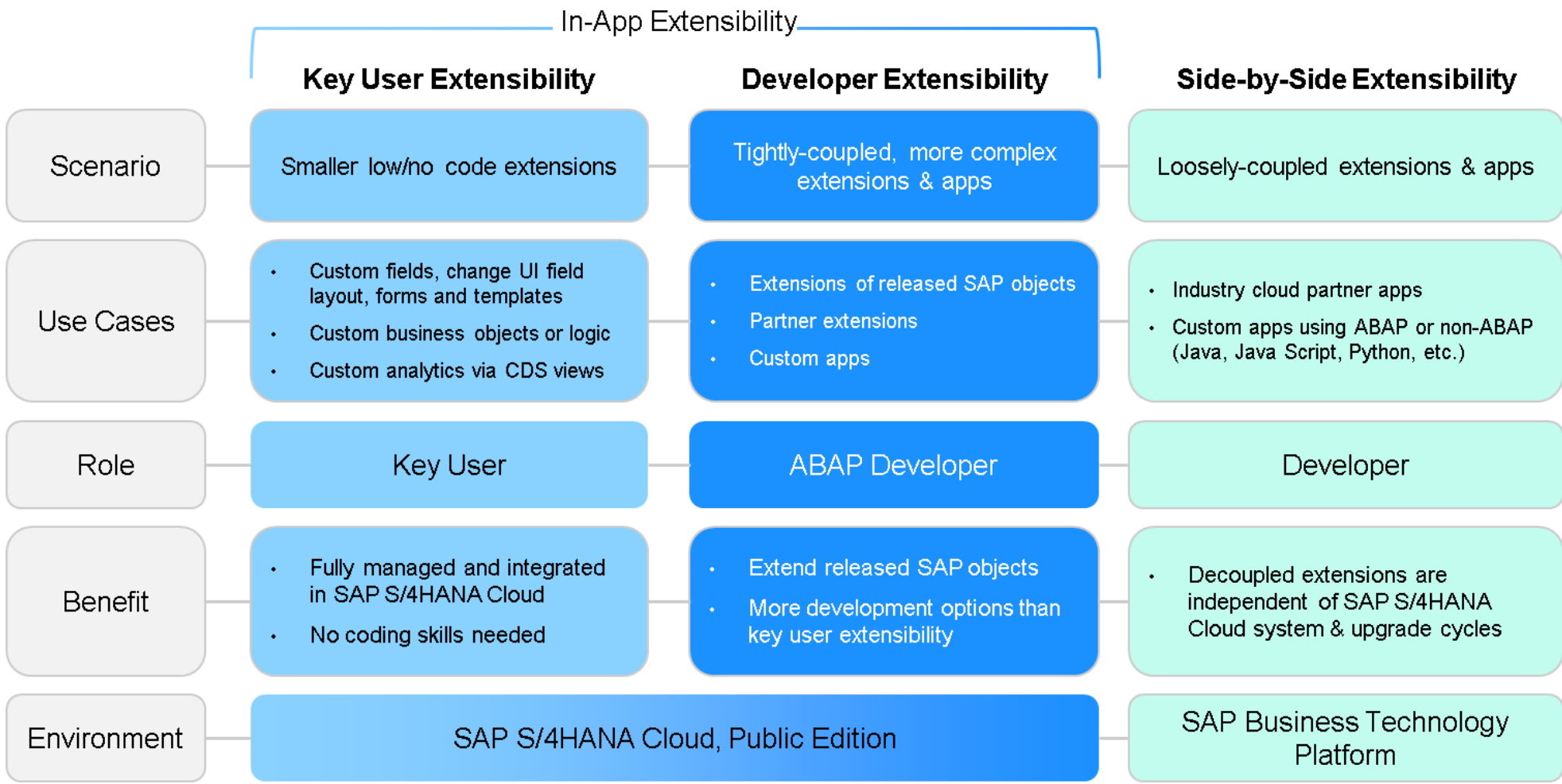
After completing this unit, you will be able to:

- Provide an overview of the extensibility tools for SAP S/4HANA Cloud Public Edition
- Explain the SAP Fiori apps to use when identifying which extensions have been made or can be made
- Change the UI of an app and create a custom field
- Add a custom logic Business Add-In (BAdI)
- Create a custom user interface
- Create a custom business object
- Customize Output Management templates
- Transport key user in-app extensions
- Summarize the developer extensibility concept and tools
- Describe an overview of side-by-side extensibility tools from SAP Business Technology Platform

Lifecycle Stable Extensions in SAP S/4HANA Cloud



Extensibility Use Cases

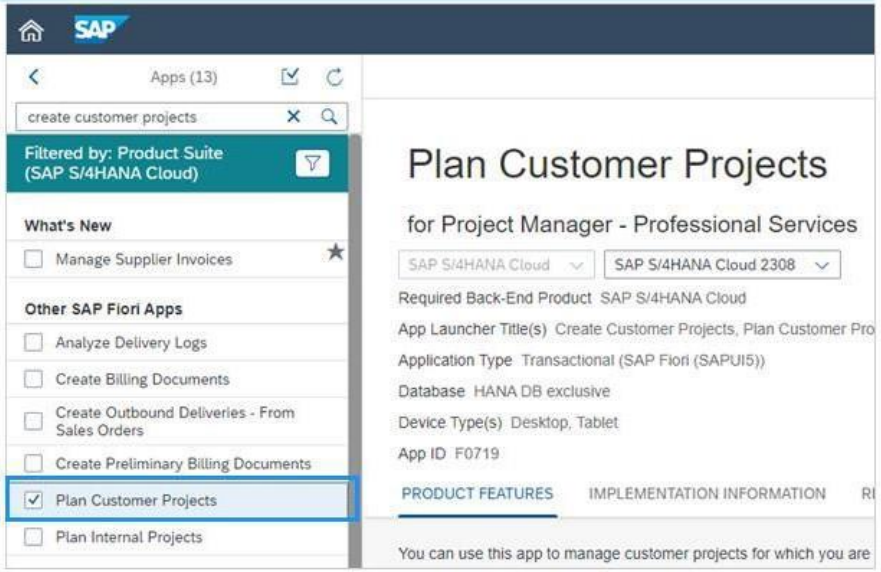


In-App Extensibility in SAP S/4HANA Cloud, public edition

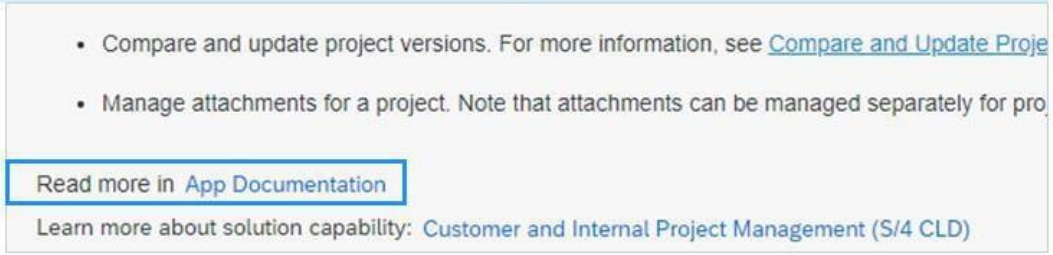
- Adapt existing user interface (UI)
- Create custom fields
- Create/extend forms & email templates
- Create custom business logic
- Create custom UIs
- Create custom business objects
- Create custom analytics

Does this app support the in-app extensibility framework?

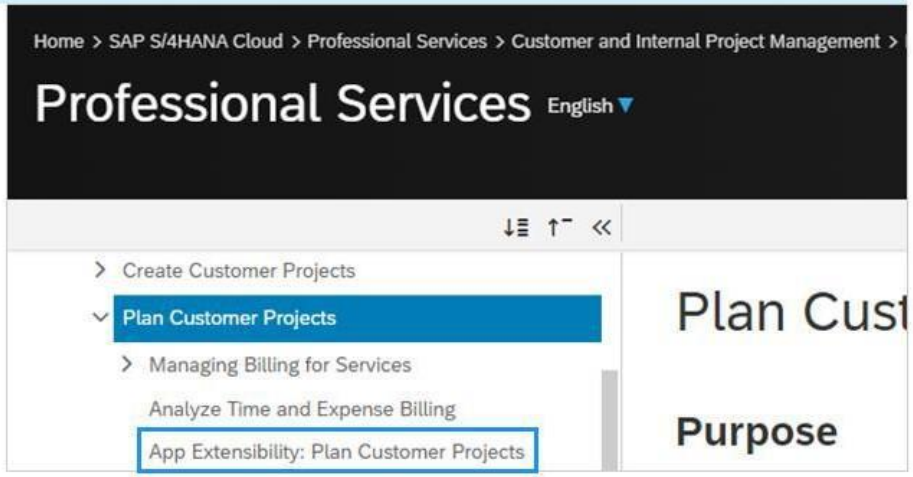
1 Look up app in SAP Fiori Apps Reference Library



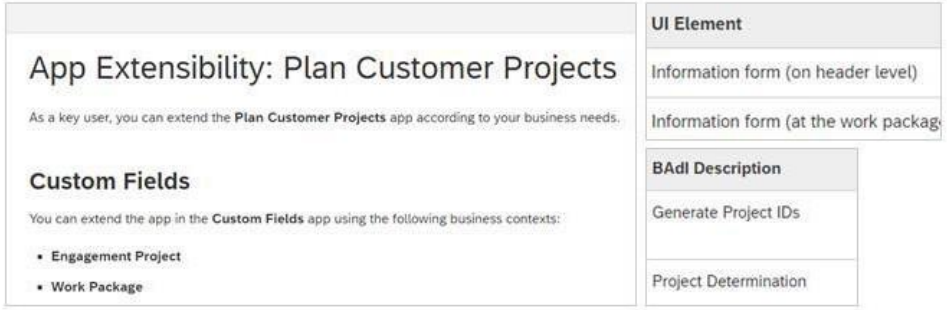
2 Scroll down to *Read more in App Documentation* & click link



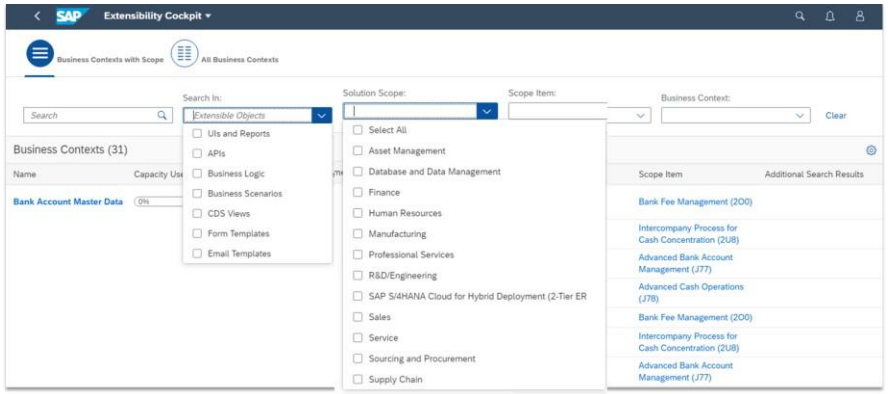
3 Select the section titled App Extensibility: [App name]



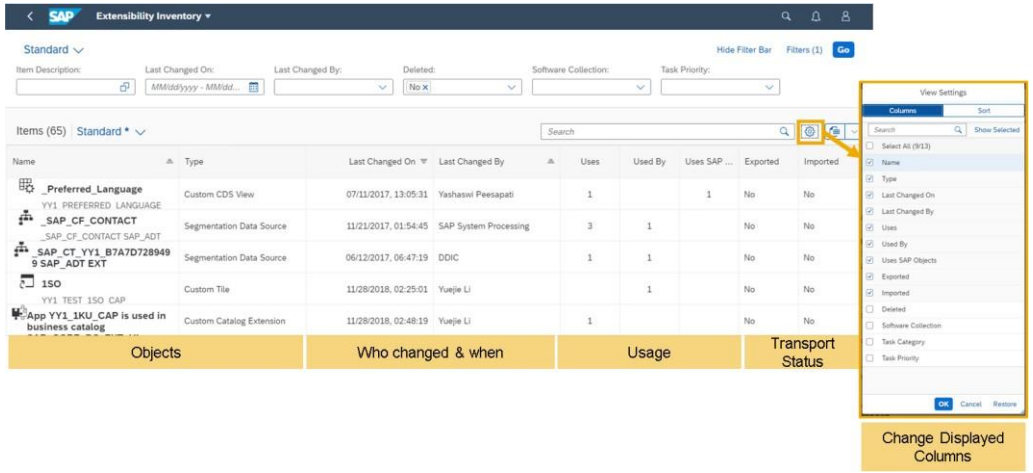
4 Find relevant business context and if custom fields (UI Elements), custom logic (BAdIs), or both are supported.



Apps



- **Functionality:**
  - Allows exploration of extension options.
  - Filters based on extension type, solution scope, scope item, or business context.
  - Provides information for extension planning.
- **Benefits:**
  - Aids in understanding available extension possibilities.
  - Supports planning and preparation for extension projects.
- **Use Cases:**
  - Developers, architects, and planners involved in extension projects.
- **Integration:**
  - Seamlessly integrates into SAP environments.
- **User Interface:**
  - User-friendly interface for easy navigation.
- **Value:**
  - Enhances visibility and decision-making in extension planning.



- **Functionality:**
  - Provides an overview of extensibility items.
  - Visualizes associations between items.
  - Assists in assessing the impact of actions on items.
- **Benefits:**
  - Facilitates extensibility management.
  - Supports decision-making on imports/exports.
- **Use Cases:**
  - Users involved in extensibility decisions.
- **Integration:**
  - Part of the SAP ecosystem.
- **User Interface:**
  - Intuitive and user-friendly.
- **Value:**
  - Enhances governance and decision support.

Adapting the UI

Adapt Fiori UI at Runtime

- In SAP Fiori launchpad, end users can personalize object pages, while key users can adapt the UI for all app users.
- "Adapt UI" mode allows users to make changes using drag and drop, applicable to transactional Fiori UIs and Fiori fact sheets.
- Key users can add fields, rearrange elements, and make UI changes, and these apply app-wide after extension transport to the production system.
- Adaptation mode features include hiding fields, renaming labels, adding fields, and manipulating form fields or UI groups.
- The Custom Fields and Logic app is accessible in Adapt UI mode for creating new custom fields.
- Users can define new filter and table variants to customize information display.

Learn how to adapt the SAP Fiori UI at runtime.

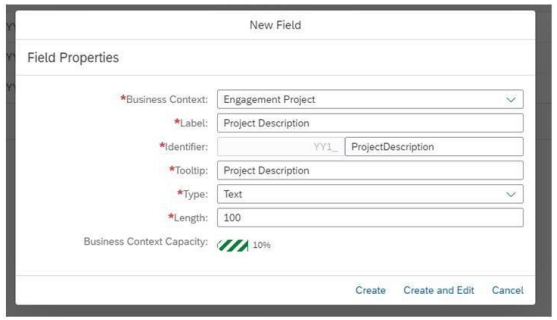
Creating App Variants

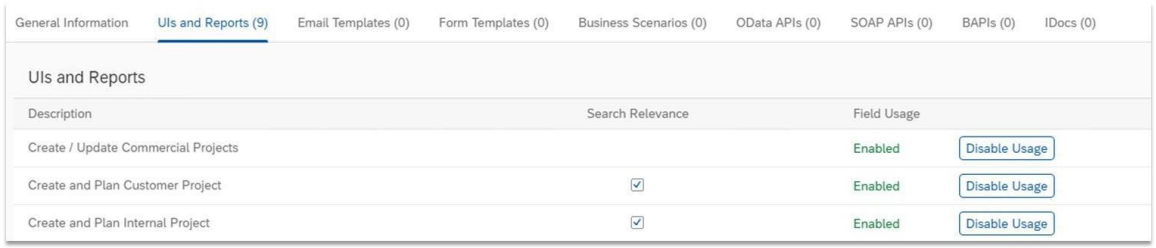
- SAP Fiori launchpad allows the creation of app variants for special scenarios (e.g., countries, organizational units, or user groups).
- Variants can be based on the app being edited in UI adaptation mode, the original app, or existing variants.
- UI changes made to the original app or a variant do not affect other variants.
- Changes to the original app made outside of UI adaptation mode are applied to adapted apps and their variants if already customized.

Adapting Views

- Some apps support changes to existing views, creation of new views, and management of available views.
- To determine if these options are available, check if the User Actions menu includes the "Adapt UI" menu item.
- If "Adapt UI" is present, it indicates that the UI adaptation mode is accessible, allowing users to make changes to the UI.

Custom Fields App

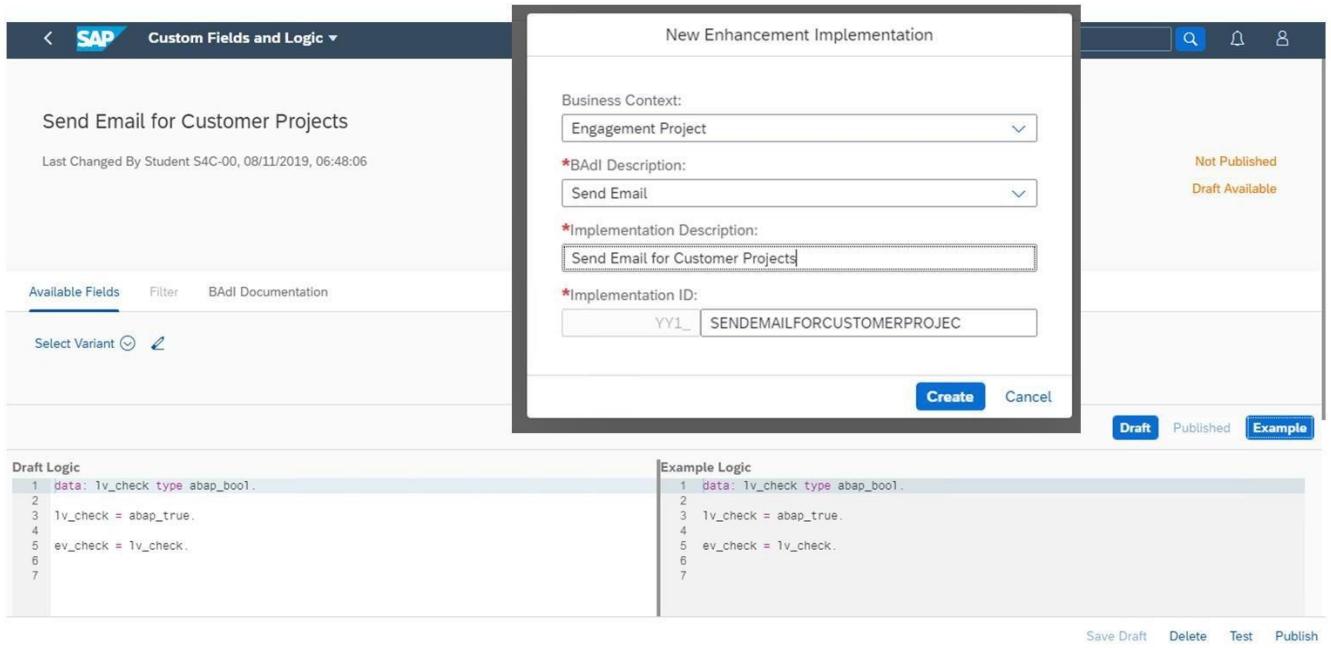




- The Custom Fields app allows users to create custom fields and implementations for customizing applications, including UIs, reports, email templates, and form templates.
- Customization is useful for addressing specific needs in different user and business contexts, such as adjusting templates and logic.
- Custom fields can enhance applications with APIs and data sources released by SAP by adding personalized data fields.
- Users can access the Custom Fields app directly from the SAP Fiori launchpad or from an extensible application by clicking "Add Field" in the UI adaptation mode during runtime authoring.
- When deleting a transported field, the data is saved for 18 months. To recover deleted custom field data, users can open an incident for the component BC-SRV-APS-EXT-FLD.
- Note: Business context information for creating implementations for custom fields can be found in the Extensibility Cockpit app.
- No read access logging is provided for custom fields.

Explore the Extensibility Cockpit and learn how to change the layout of a user interface and create custom fields.

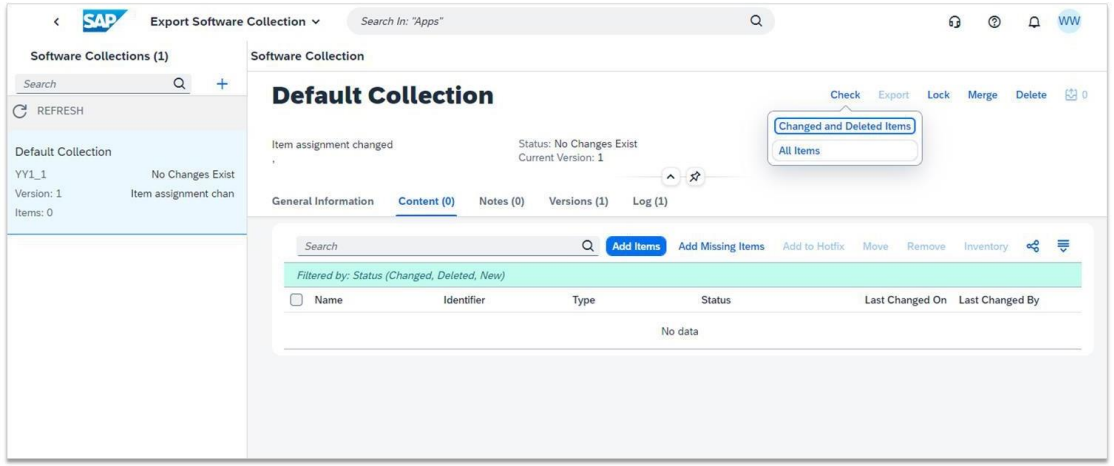
Custom Logic App



- The Custom Logic app is used to implement custom logic for enhancing applications, particularly those with internal APIs released by SAP for use in ABAP code and data sources.
- Custom logic allows users to extend and modify the behavior of applications to meet specific requirements.
- To create an implementation for a Cloud BAdI, users need to know the business context it is allocated to, and an overview of business contexts and their scope items can be found using the Extensibility Cockpit app.
- Note: Custom logic is particularly relevant for applications containing internal APIs and is a powerful tool for customization and extension.

Transporting In-App Extensions

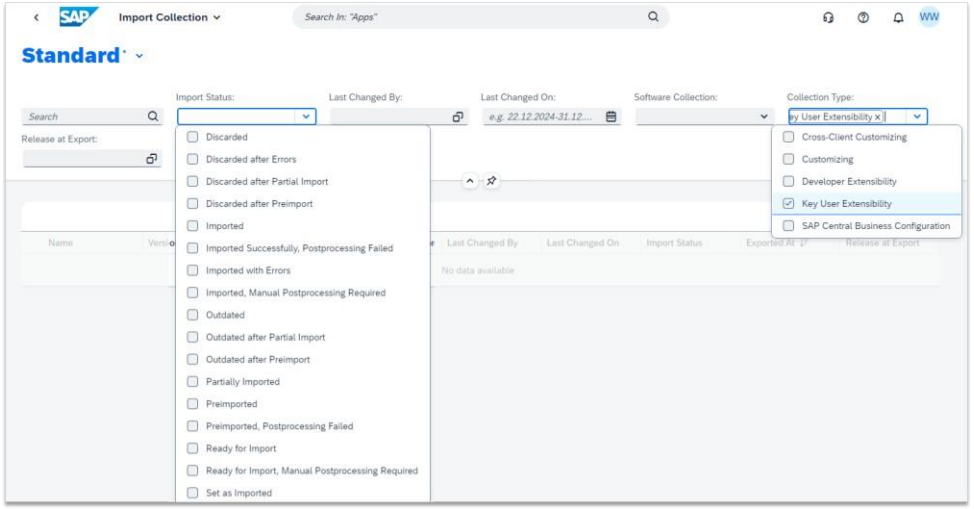
Export Software Collection app



Export Software Collection App:

- Create software collection.
- Add extension items for release.
- Items with dependencies must be exported together in the same collection.
- For example, custom business object with corresponding custom catalog extension.
- Use "Check" to identify errors or dependencies in the collection before exporting.
- Select "Add Missing Items" to include any dependencies not already in the collection.
- Choose "Export" to release a standard software collection.

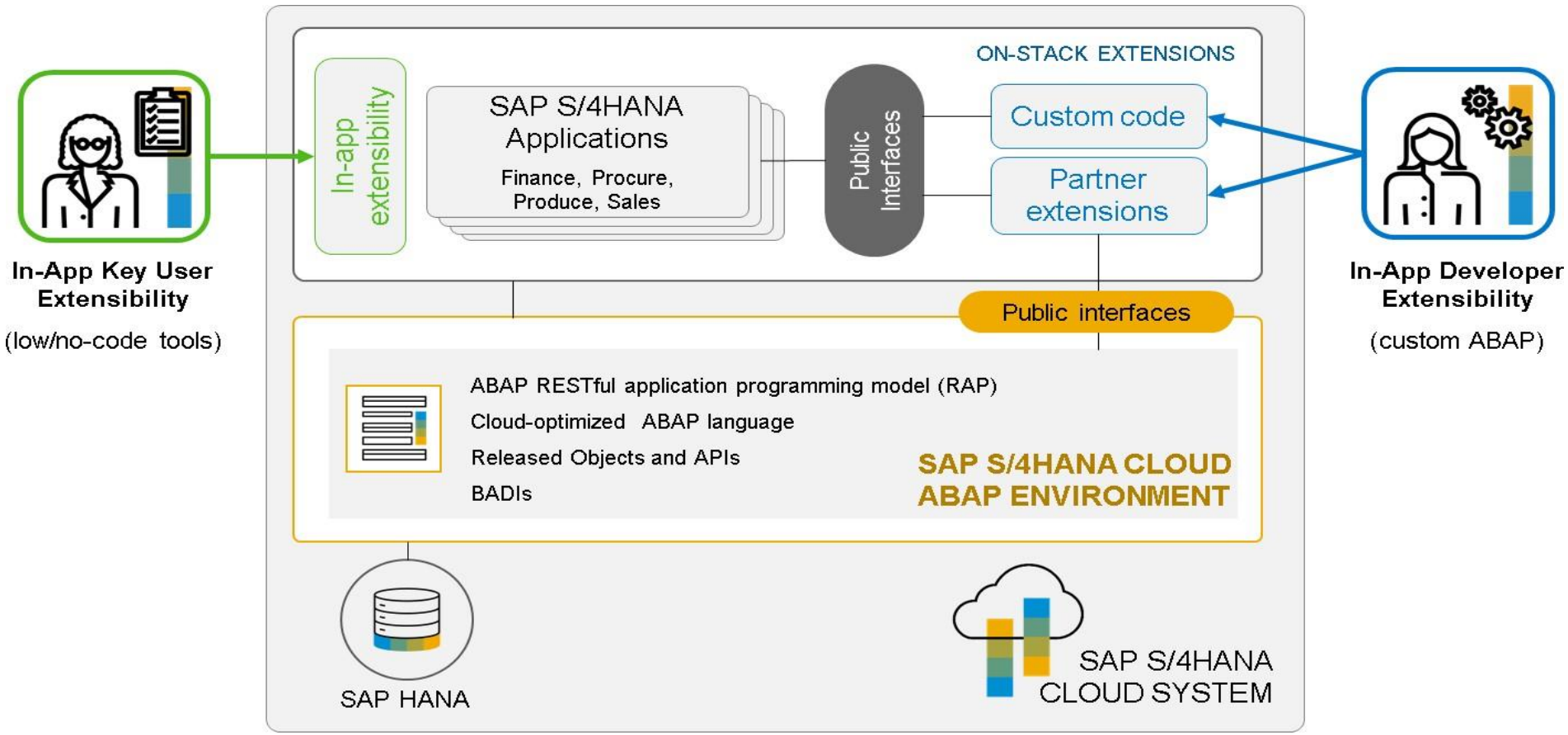
Import Collection App



Import Collection App:

- Used for importing all types of extensions.
- Includes key user in-app extensions, business content changes from SAP Central Business Configuration, and developer extensions.
- Extensions initially imported to test system for quality testing.
- Finalized extensions forwarded to production system from Import Collection app.
- Final import in production system necessary to make extension usable for end-users.

Developer Extensibility



Side-by-Side Extensibility with SAP Business Technology Platform

	Develop dependent extension	Develop your own custom application	Consume existing apps
User Interface Layer	✓	✓	✓
Application Layer	✓	✓	✓
Database Layer	✗	✓	✓

The SAP Business Technology Platform extension capability can help customers build, deploy, and operate their new functionalities easily and securely in **on-premise** or **cloud** SAP solutions.

Setting up Integrations

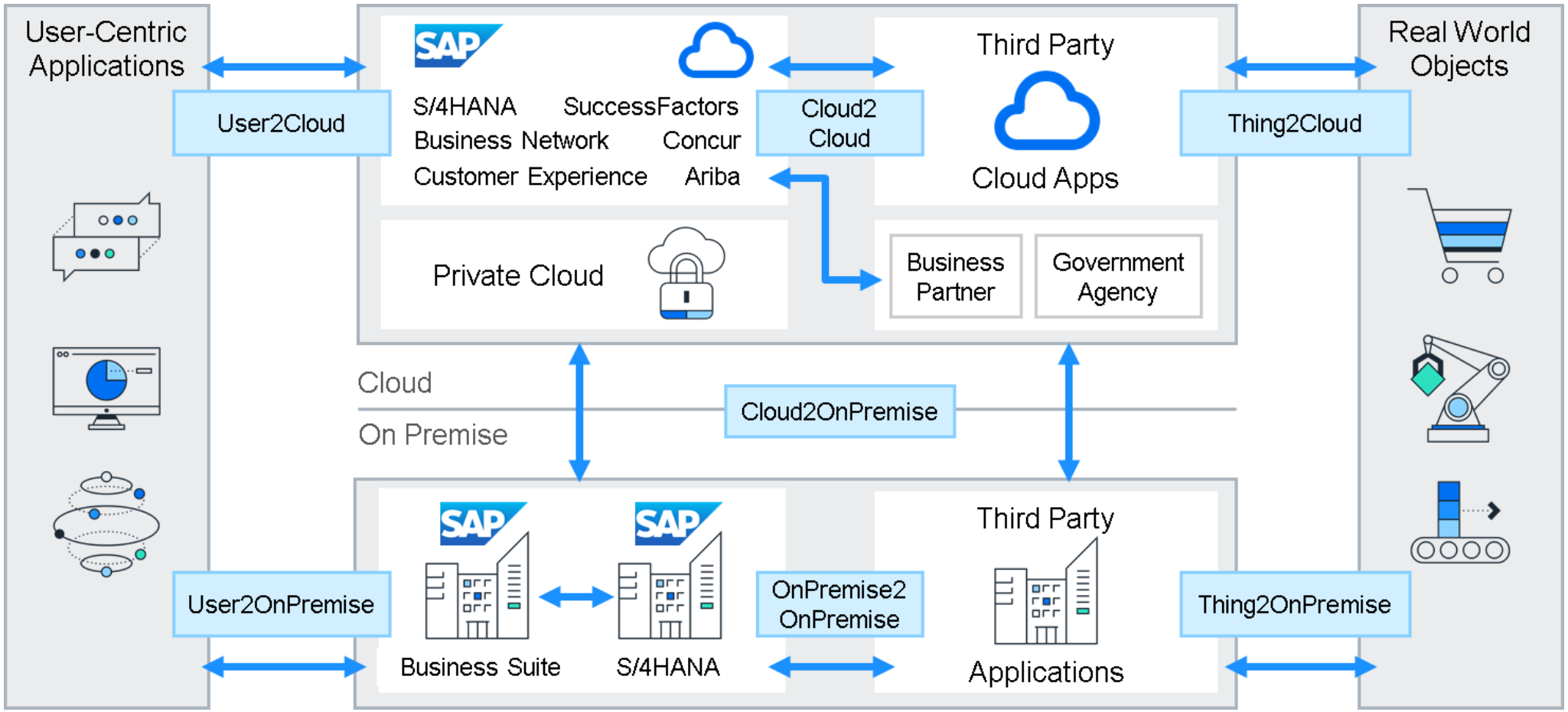
4 Lessons 50 mins

Exercise 7: Set up an Integration Scenario

After completing this unit, you will be able to:

- Analyze the integration landscape with the Integration Solution Advisory Methodology
- Become familiar with the SAP Integration Suite tools
- Identify SAP Best Practices integration packages in SAP Signavio Process Navigator
- Use the Cloud Integration Automation Service to automate SAP Best Practices integrations
- Use the SAP Fiori Communication Management apps to set up an SAP Best Practices integration
- Identify integration content in SAP Business Accelerator Hub
- Monitor integrations with SAP Cloud ALM

Introduction to Integrations and APIs



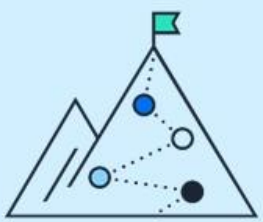
Integration Solution Advisory Methodology

Assess your integration strategy

Guided scoping of your integration requirements

Design your hybrid integration platform

Apply proven patterns for process-, data-, and user-centric integration scenarios



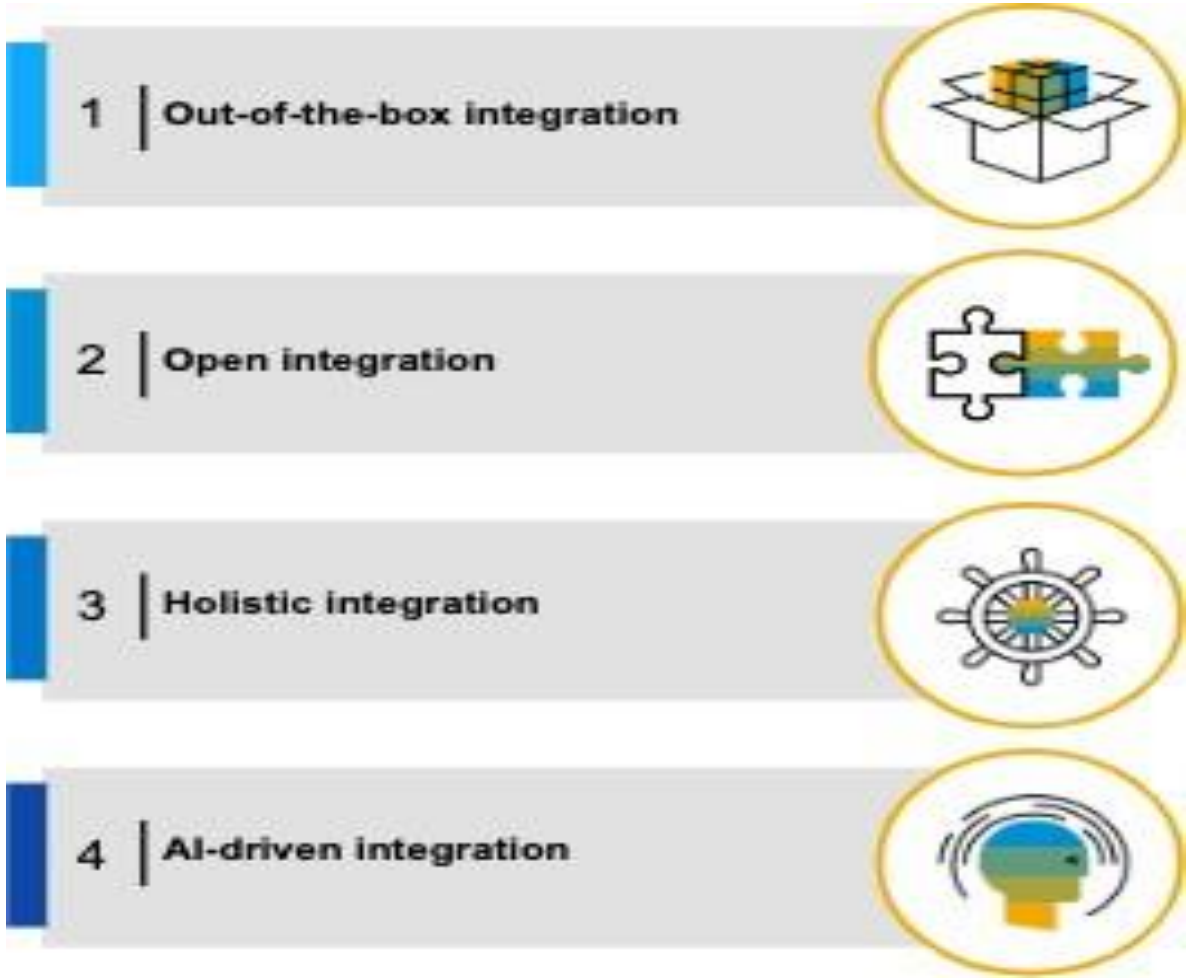
Define integration best practices

Reuse predefined architecture blueprints and adapt them to your specific needs

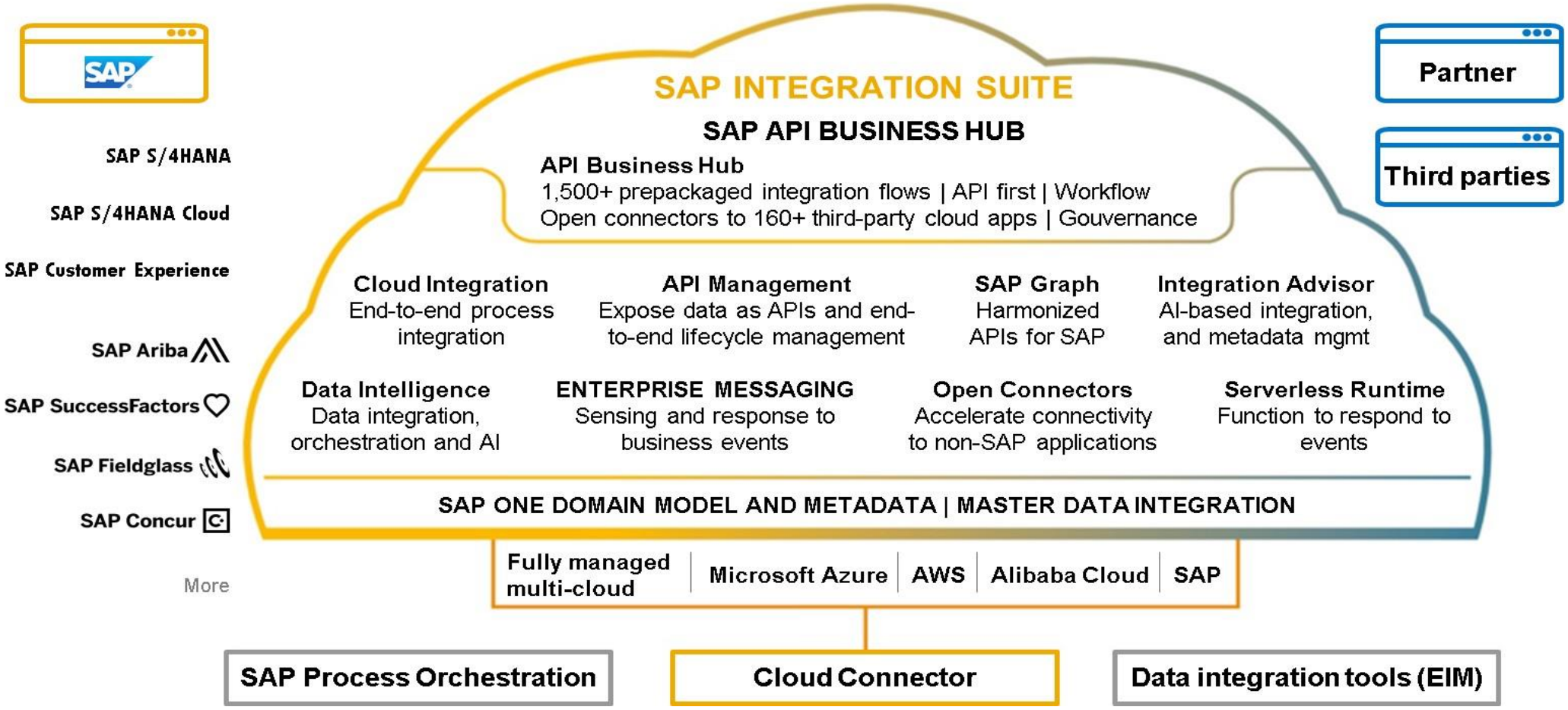
Enable a practice of empowerment

Introduce an agile integration practice (roles, governance)

Key Integration Principles for the Intelligent Enterprise

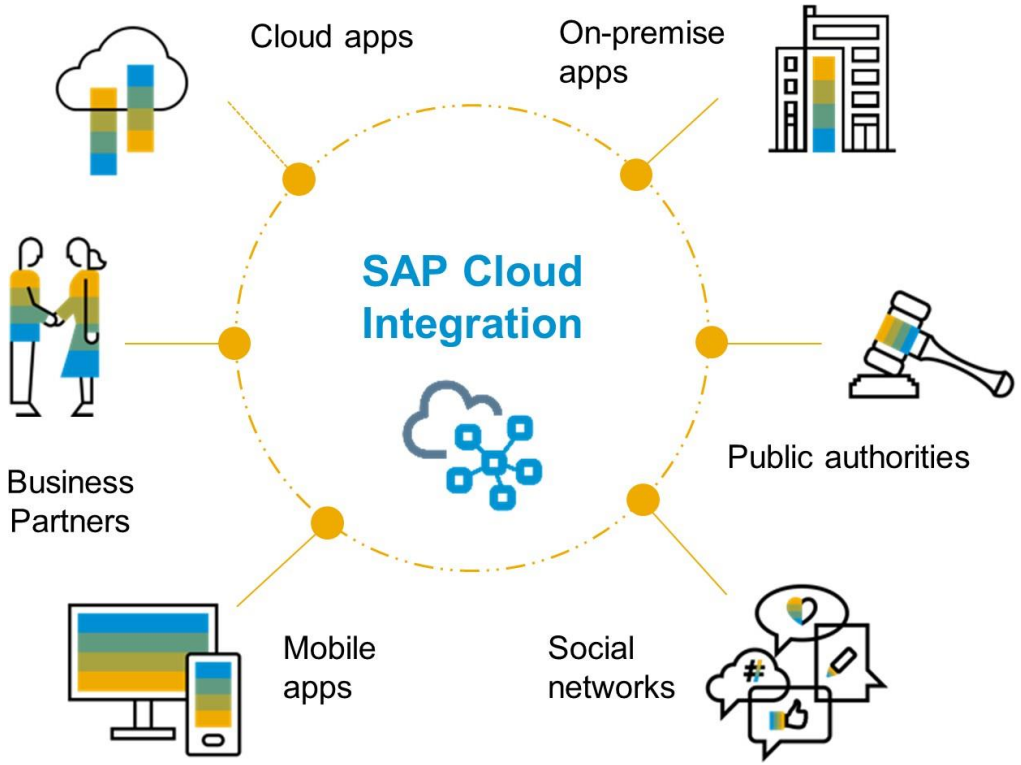


SAP Business Technology Platform Integration Suite

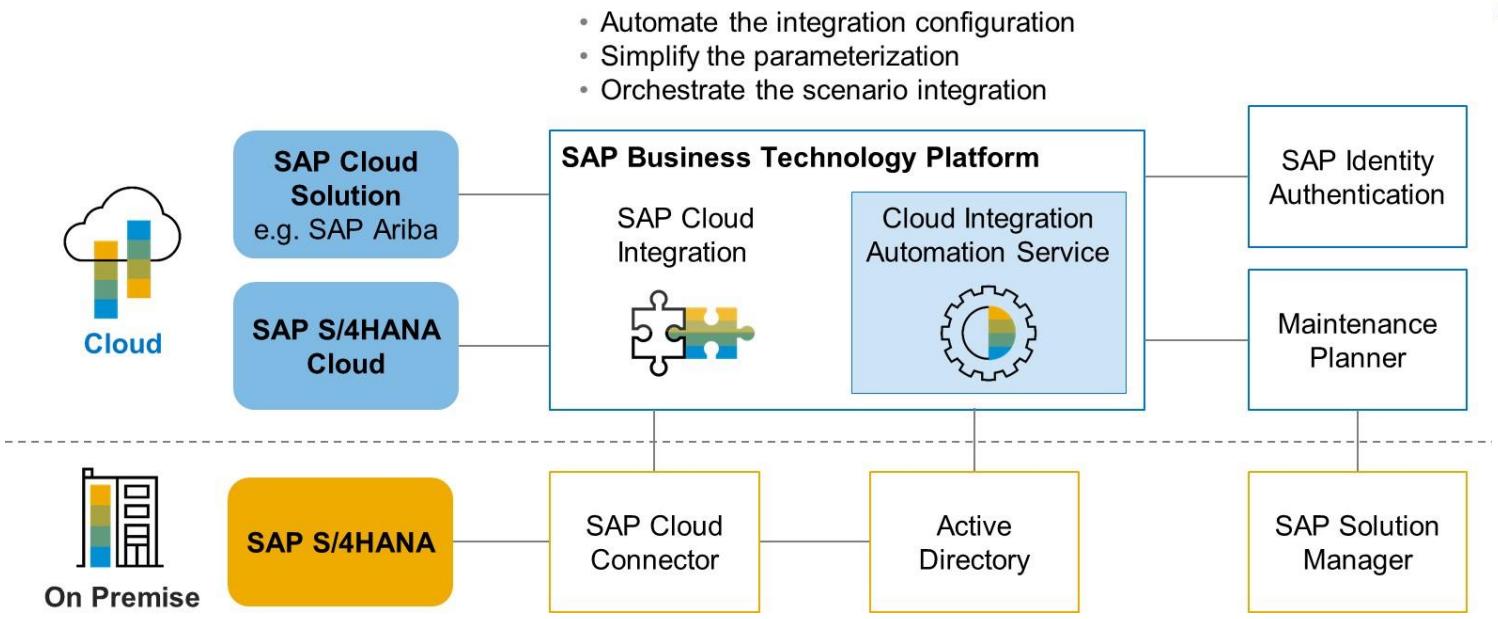


Learn more about the SAP Integration Suite in the SAP Discovery Center.

SAP Cloud Integration



Cloud Integration Automation Service



Task Types in the Cloud Integration Automation Service:

- **Automated Tasks:**
  - Utilizes APIs from applications for automation.
  - Streamlines configuration steps.
- **Semiautomated Tasks:**
  - Partial automation with customer-specific data.
  - Involves tasks with semi-automation features.
- **Manual Tasks:**
  - Requires manual intervention.
  - Displays excerpts from the implementation guide.
  - Responsible person manually applies necessary settings.

Create a Communication Arrangement in SAP S/4HANA Cloud

1. Create **Communication User** to provide authentication
2. Create **Communication System** & assign *Communication User*
3. Create **Communication Arrangement** & assign *Communication System*

Communication Scenarios in SAP S/4HANA Cloud, public edition

Maintain Communication Users App:

- Provides authentication for communication systems.
- Supports authentication methods like basic authentication or security certificate upload.
- Communication user is linked to a communication system, which is then associated with a communication arrangement.

Communication Systems App:

- Enables the creation of a communication system.
- Establishes a communication arrangement.
- Represents the communication partner in an integration scenario.
- Requires registration of systems for data exchange.
- Involves providing technical details such as host name URL, logical system, HTTPS port, etc.
- Inbound Communication: Third-party system calling services provided by SAP S/4HANA Cloud.
- Outbound Communication: SAP S/4HANA Cloud calling services provided by the third-party system.

Communication Arrangements App:

- Creates and edits communication arrangements connecting SAP S/4HANA Cloud to other systems.
- Configures electronic data exchange between the systems.
- The communication scenario determines authorizations, services, and authentication methods.
- SAP Best Practices offers predelivered communication scenarios with setup guides.

Display Communication Scenarios App:

- Displays an overview of all available communication scenarios in SAP S/4HANA Cloud.
- Provides details on scenarios, authentication methods, properties, and status.

Maintain SAP Business Technology Platform Extensions App:

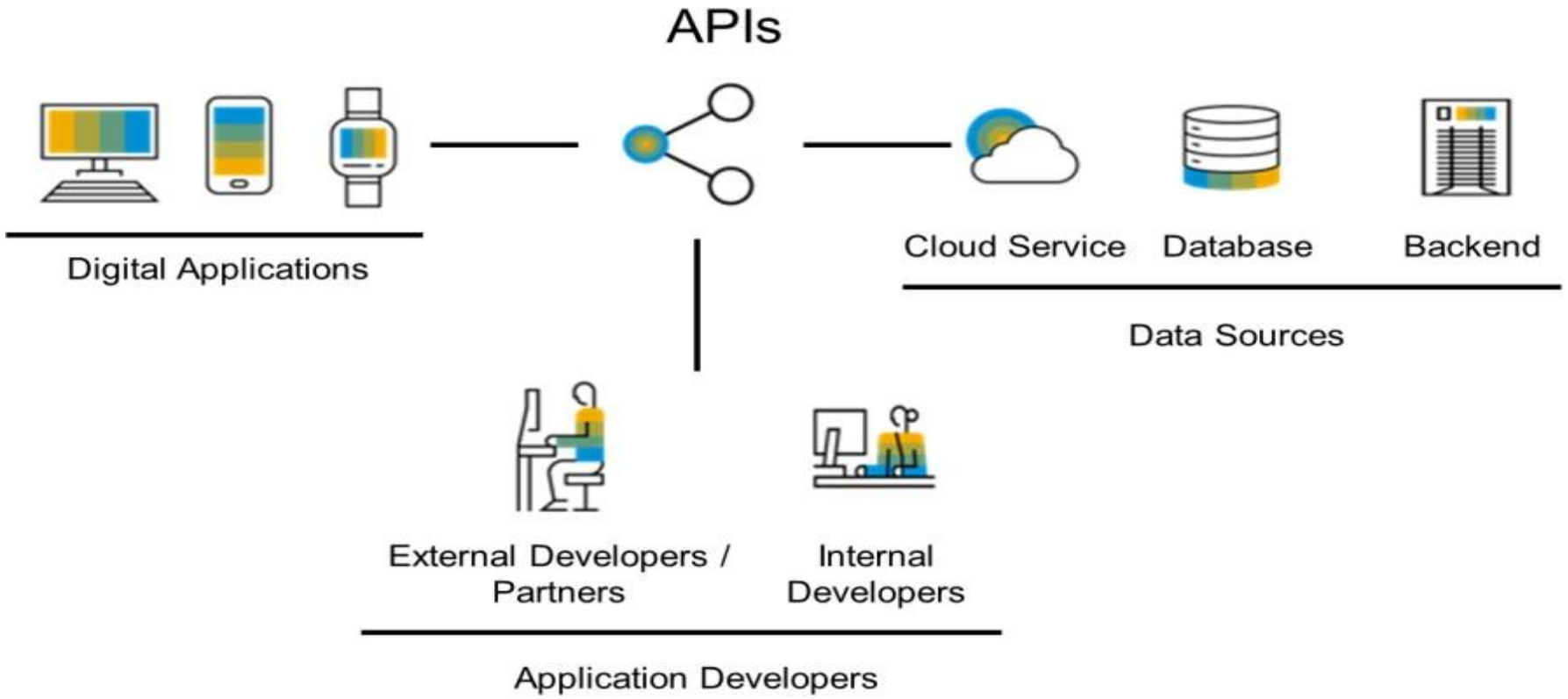
- Creates Business Technology Platform extensions to connect to SAP S/4HANA Cloud.

Custom Communication Scenarios App:

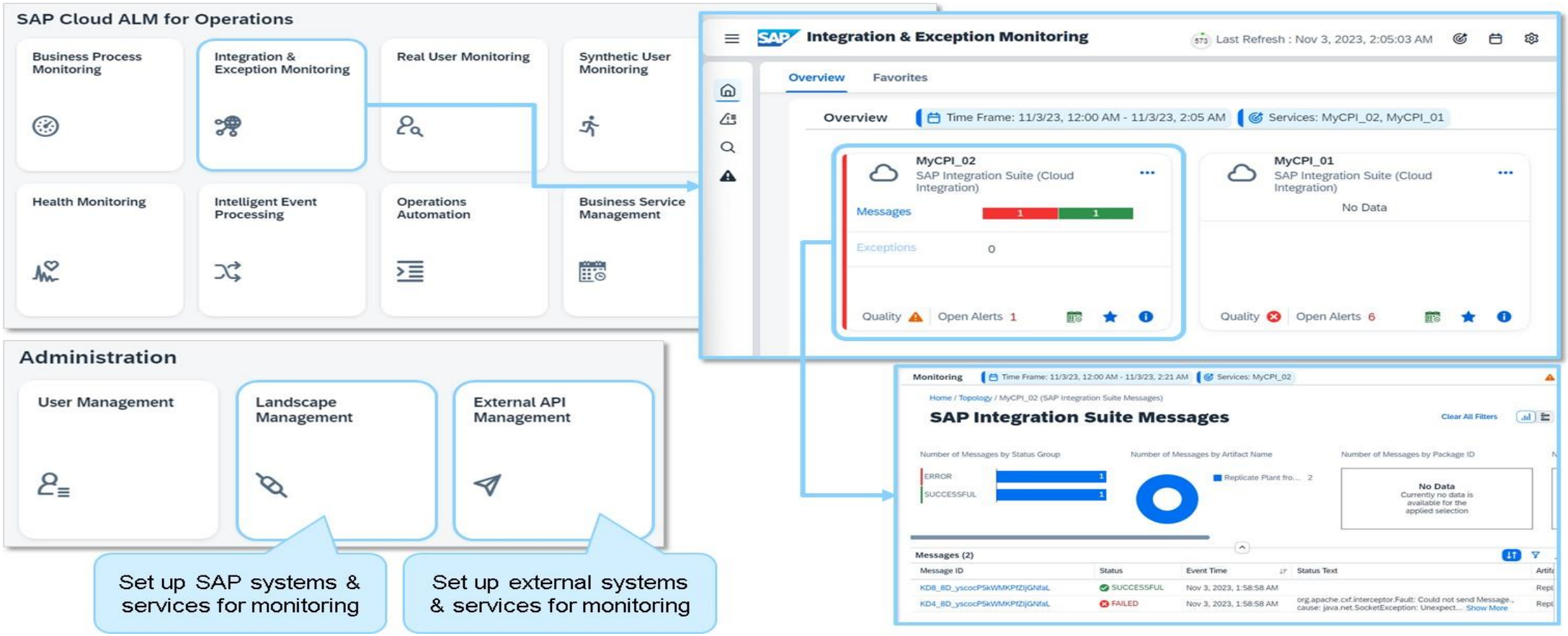
- Creates custom scenarios for later use in the Communication Arrangements app.
- Bundles inbound and outbound communication design-time artifacts.
- Forms the basis of communication between systems.

Creating a Communication Arrangement

SAP Business Accelerator Hub Overview



Integration Monitoring in SAP Cloud ALM



Migrating Data

1 Lesson 1 hr

Exercise 8: Prepare to Migrate Data
Exercise 9: Migrate Data
Exercise 10: Validate Successful Data Migration

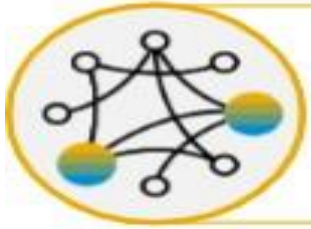
After completing this unit, you will be able to:

- Get an overview of the SAP S/4HANA Migration Cockpit
- Migrate data to SAP S/4HANA Cloud Public Edition with local templates
- Migrate data to SAP S/4HANA Cloud Public Edition with a remote SAP HANA database
- Migrate data to SAP S/4HANA Cloud Public Edition directly from an SAP ERP system
- Track the status of your migration objects
- Extend your migration objects

SAP S/4HANA Migration Cockpit

Included in the licenses for all SAP S/4HANA deployment options

Pre-configured SAP S/4HANA-specific migration content



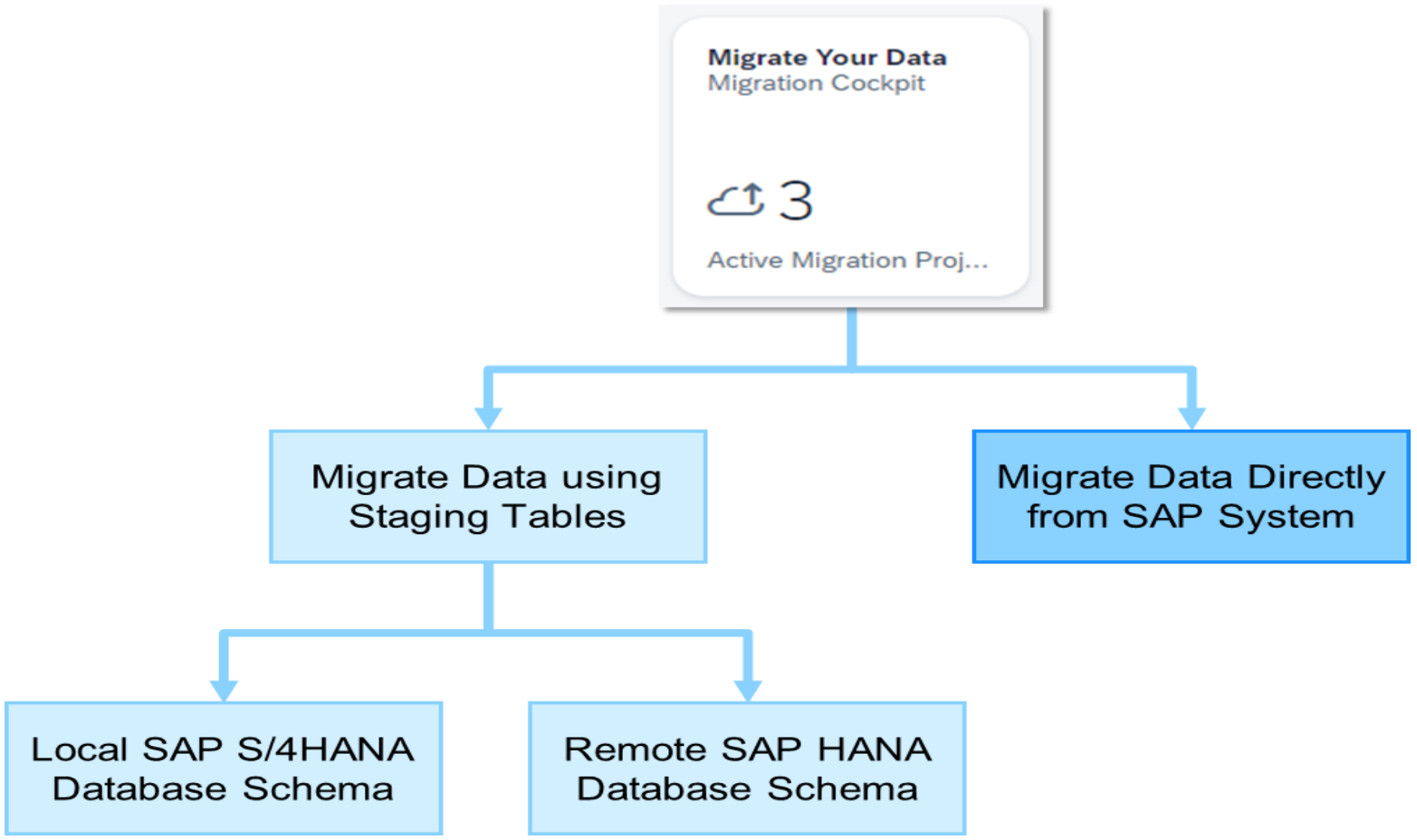
Automated mapping between source and target

Guidance and simulation for the migration process

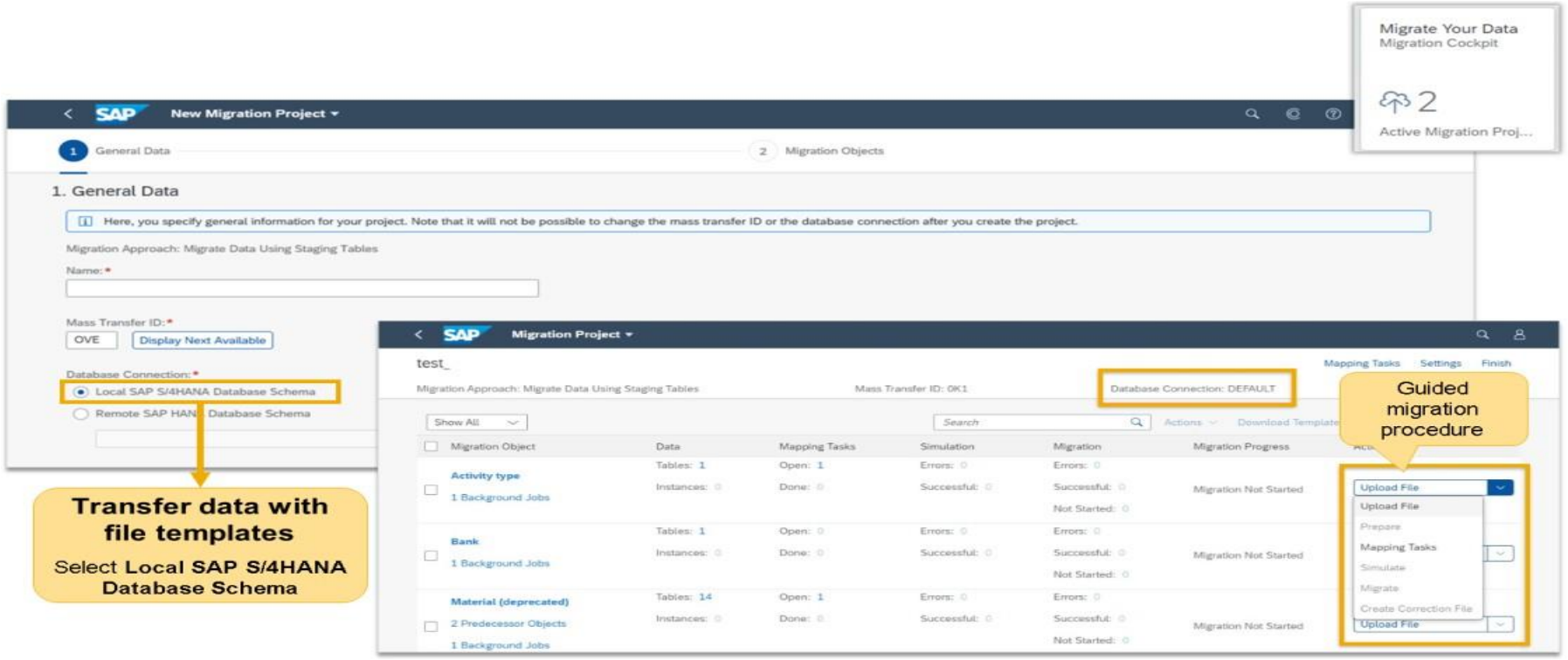
SAP Value Assurance for data migration

Lower migration time and costs

Methods of Migration

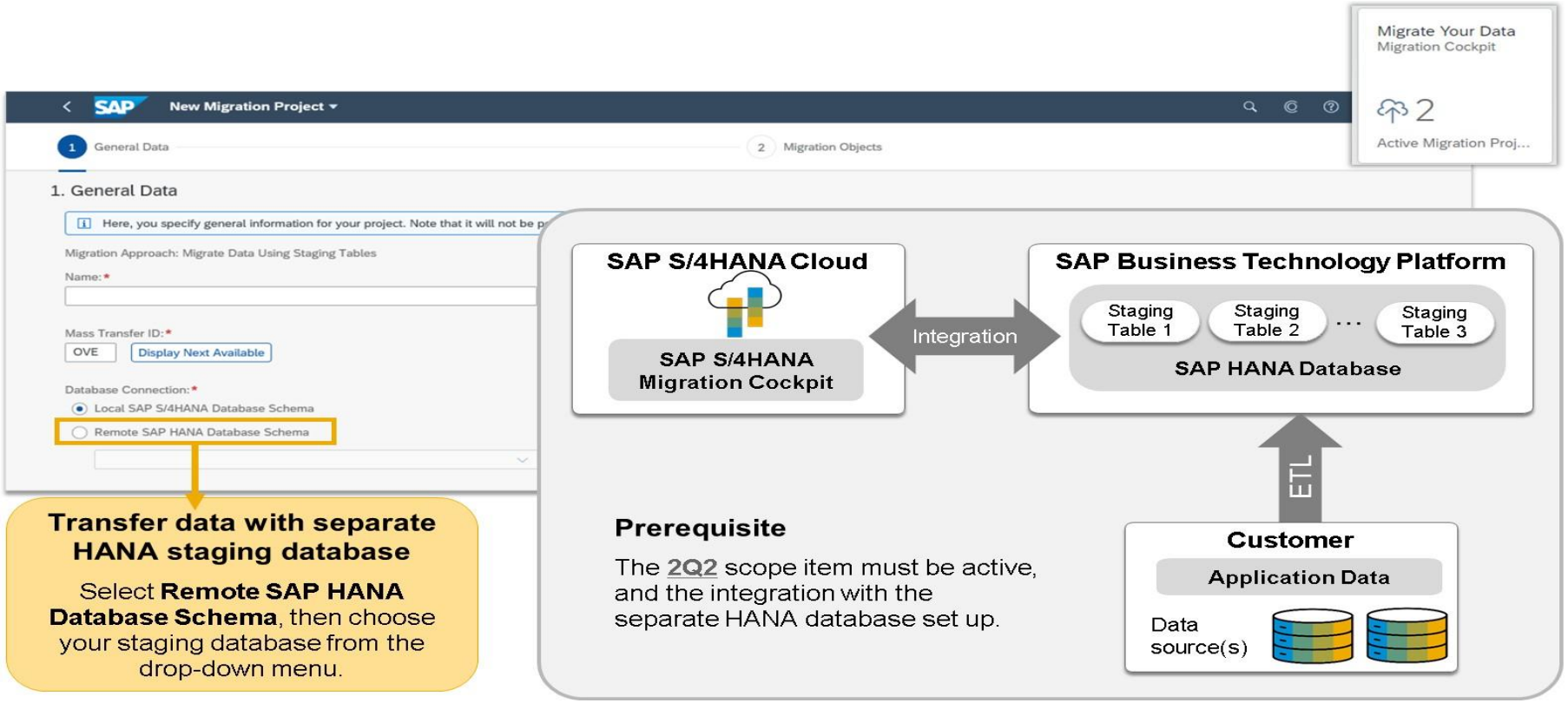


Transfer Data Using Template Files

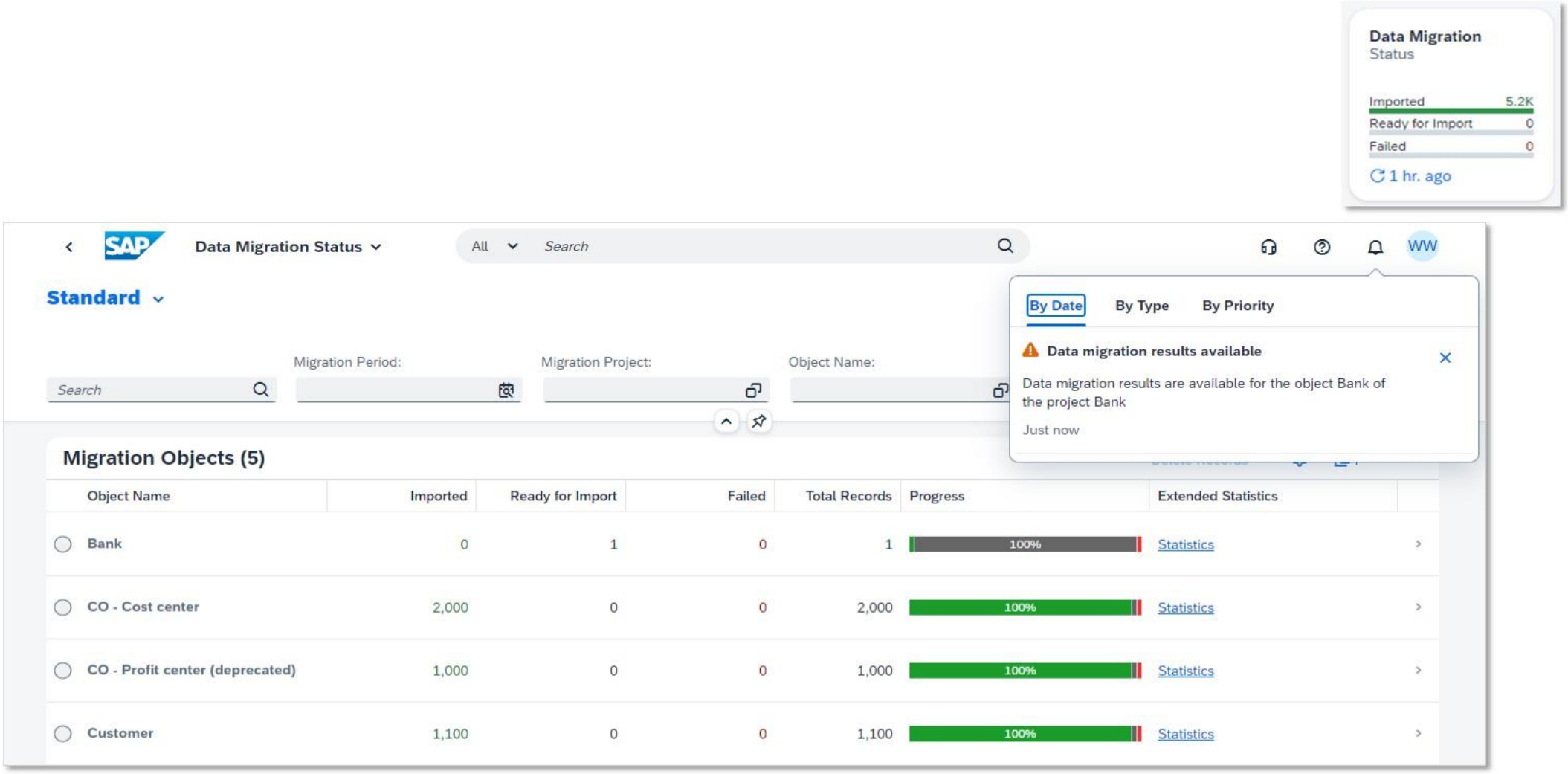


Start Exercise

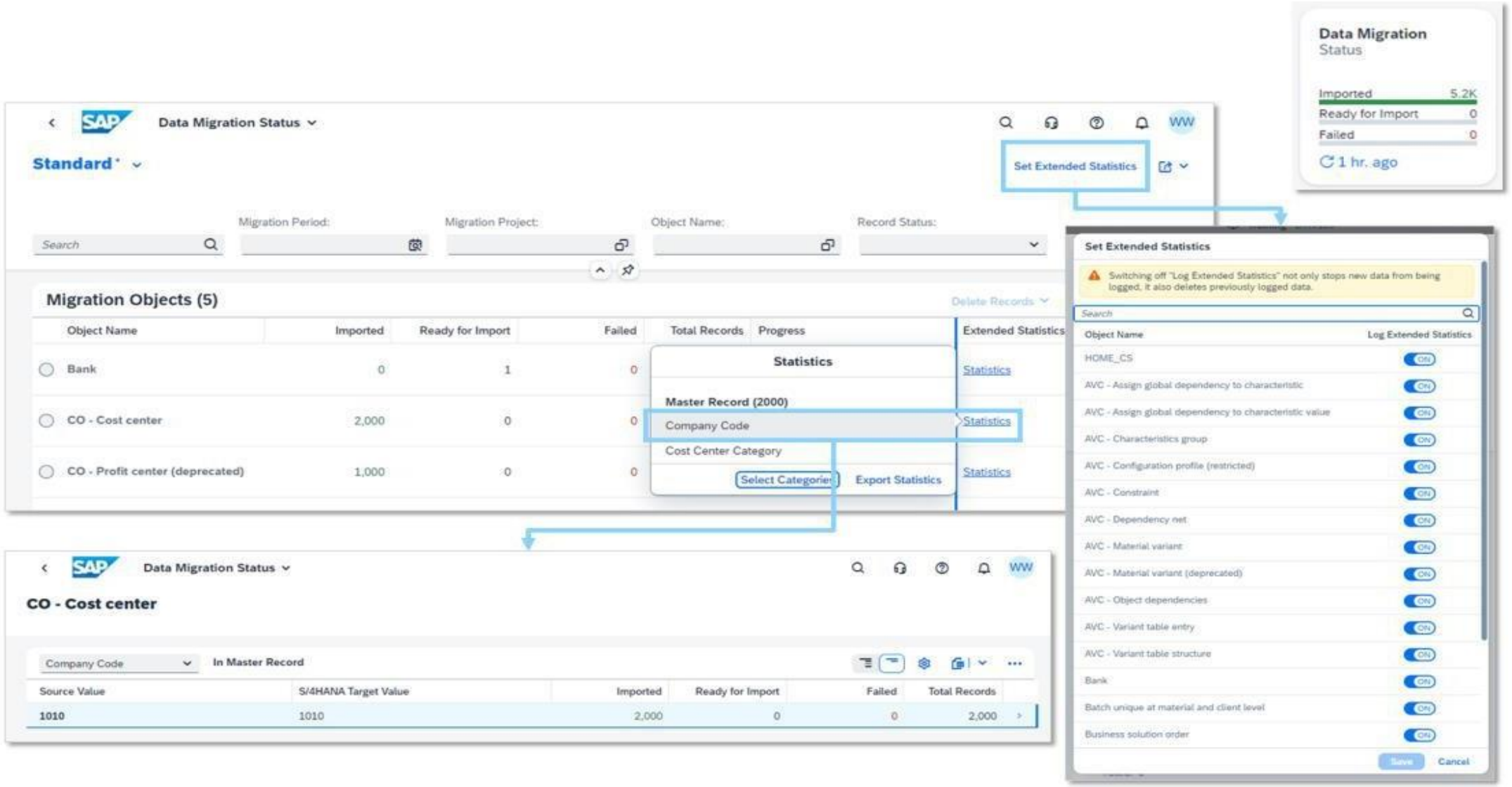
Transfer Data Using Separate SAP HANA Staging Database



Data Migration Status App



Extended Statistics in the Data Migration Status App



Testing Configured Business Processes

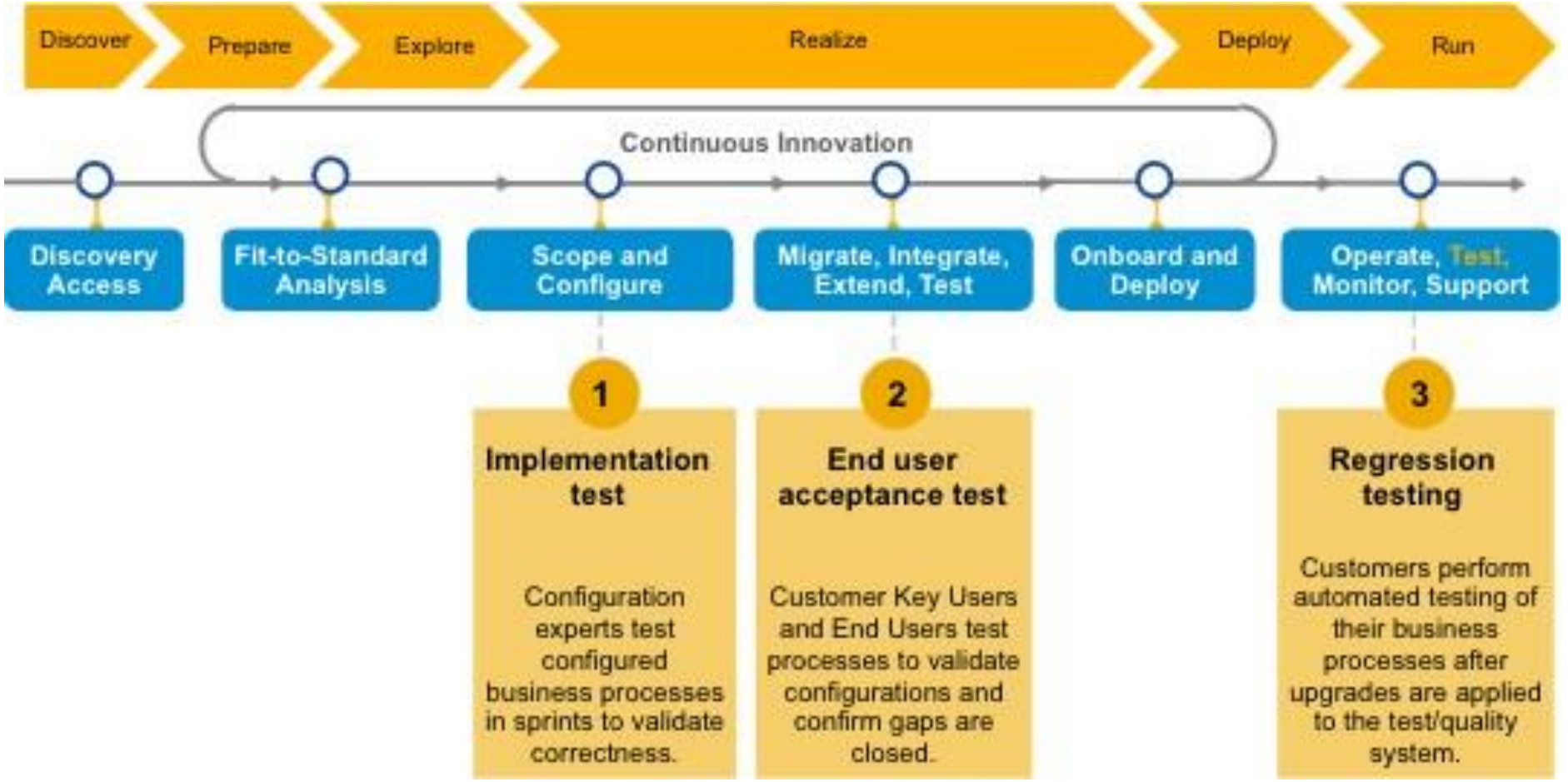
3 Lessons 2 hrs 10 mins

Exercise 11: Copy and Edit a Standard Test Automate Process
Exercise 12: Create a Test User
Exercise 13: Create a Test Plan
Exercise 14: Provide Consent for Post-Upgrade Testing by SAP

After completing this unit, you will be able to:

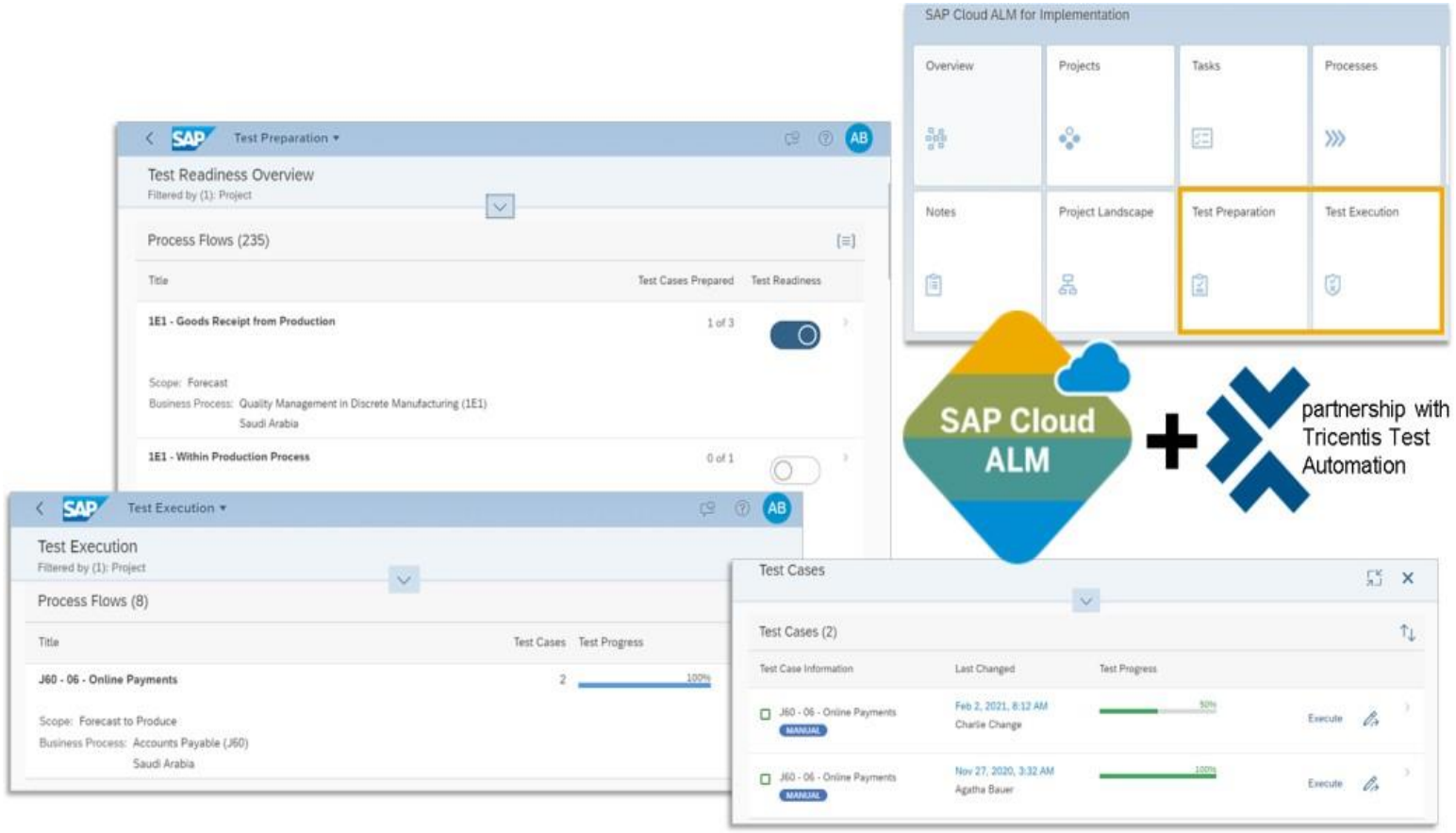
- Explain the types of tests and overall test strategy
- Prepare manual test cases for user acceptance testing in SAP Cloud ALM
- Get familiar with the Test Automation Tool
- Adapt test automates to align with customized business processes
- Create a test user and customer-specific test plan
- Provide consent for post-upgrade tests conducted by SAP
- Analyze results of automated tests

Testing Mapped to the SAP Activate Roadmap Phases

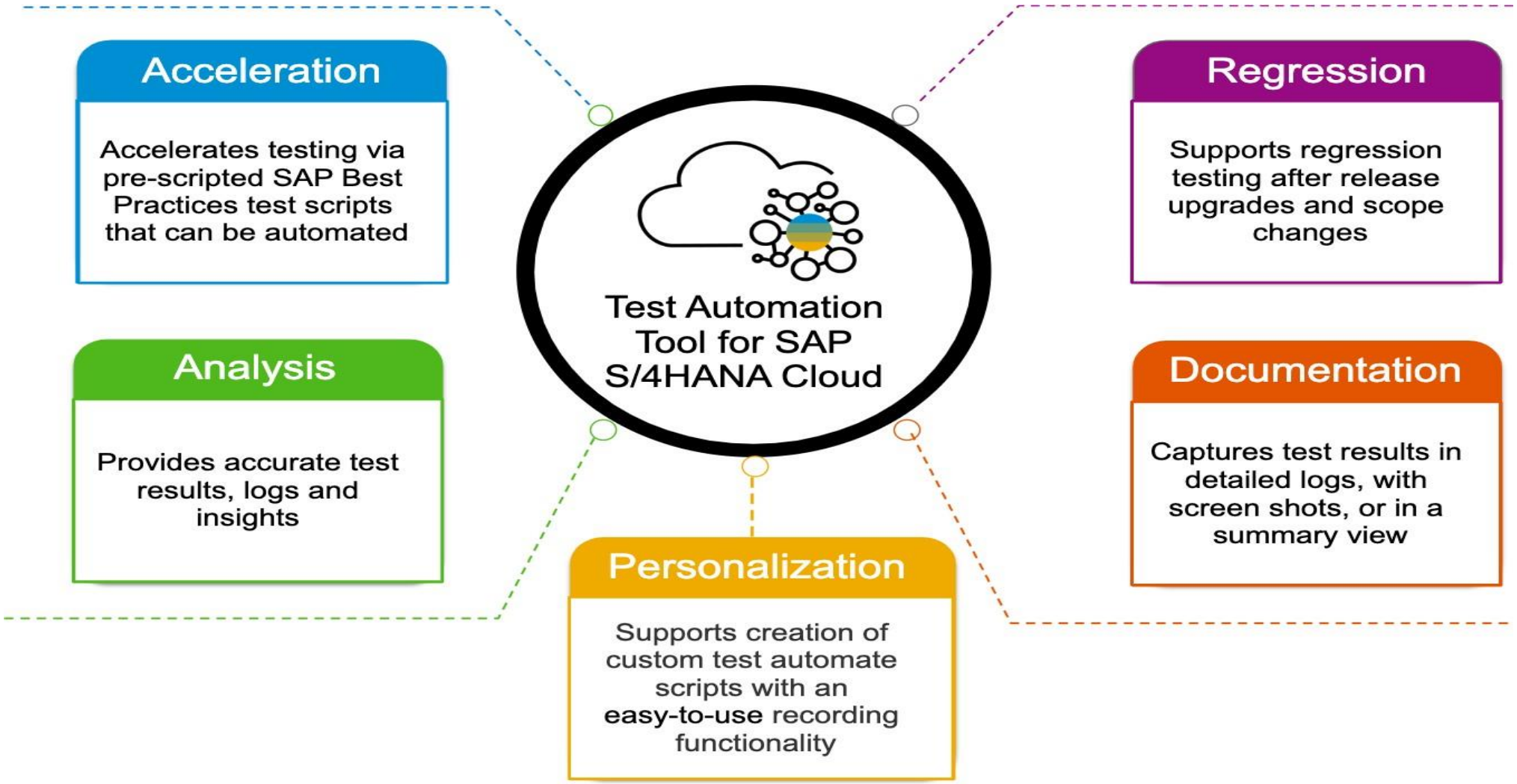


Test Management with SAP Cloud ALM

Access the [SAP Cloud ALM Internet Demo System](#).



Test Automation Tool for SAP S/4HANA Cloud



Adapt Test Automates

Standard Test Automates/Processes:

- Created and delivered by SAP according to SAP Best Practice processes.
- Users can view standard automates based on active scope items in their Q-System.
- Not editable or deletable by users.

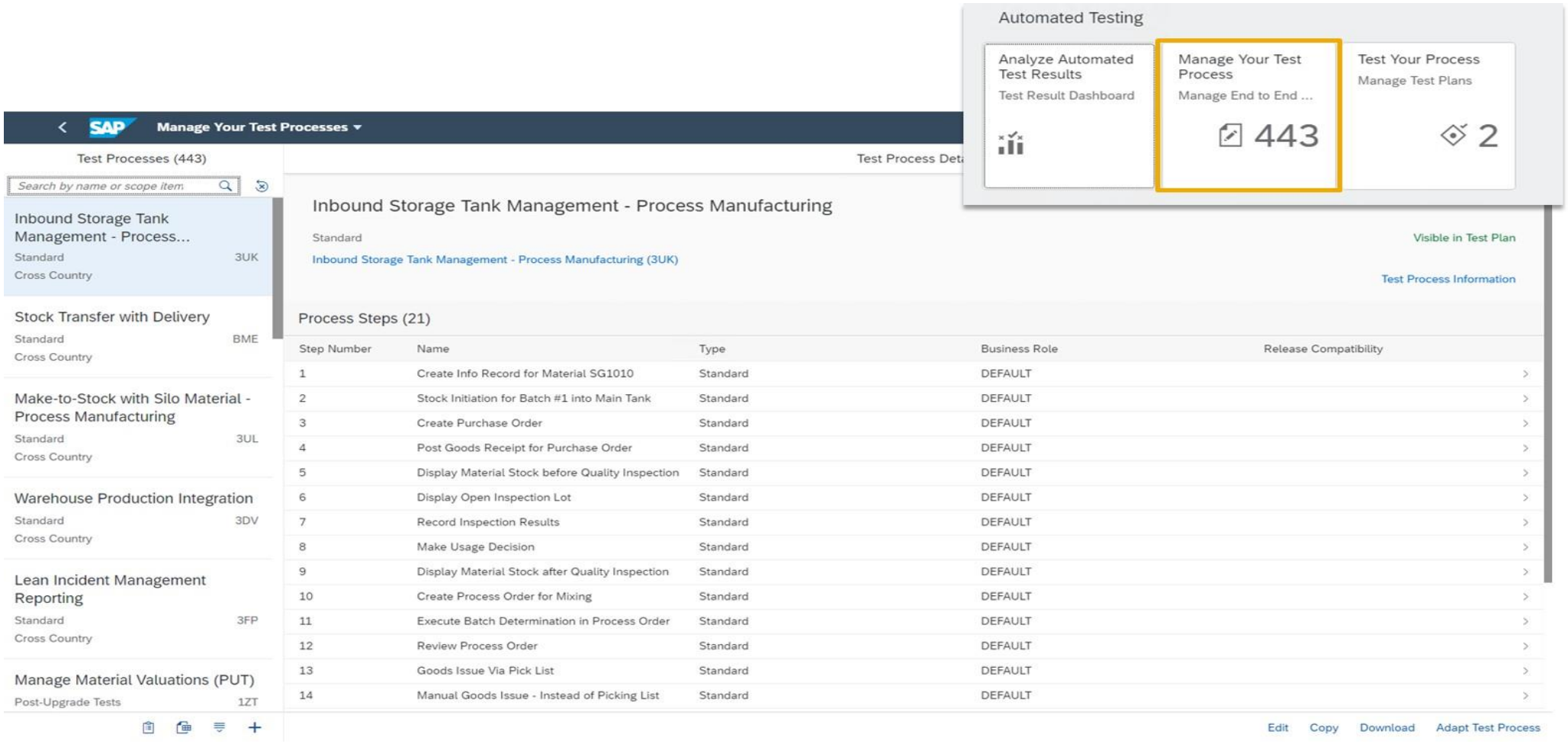
Custom Test Automate/Process:

- Users can create custom test processes by either copying from standard processes or creating new ones to align with specific business needs.
- Custom test processes are tailored to the organization's unique requirements.

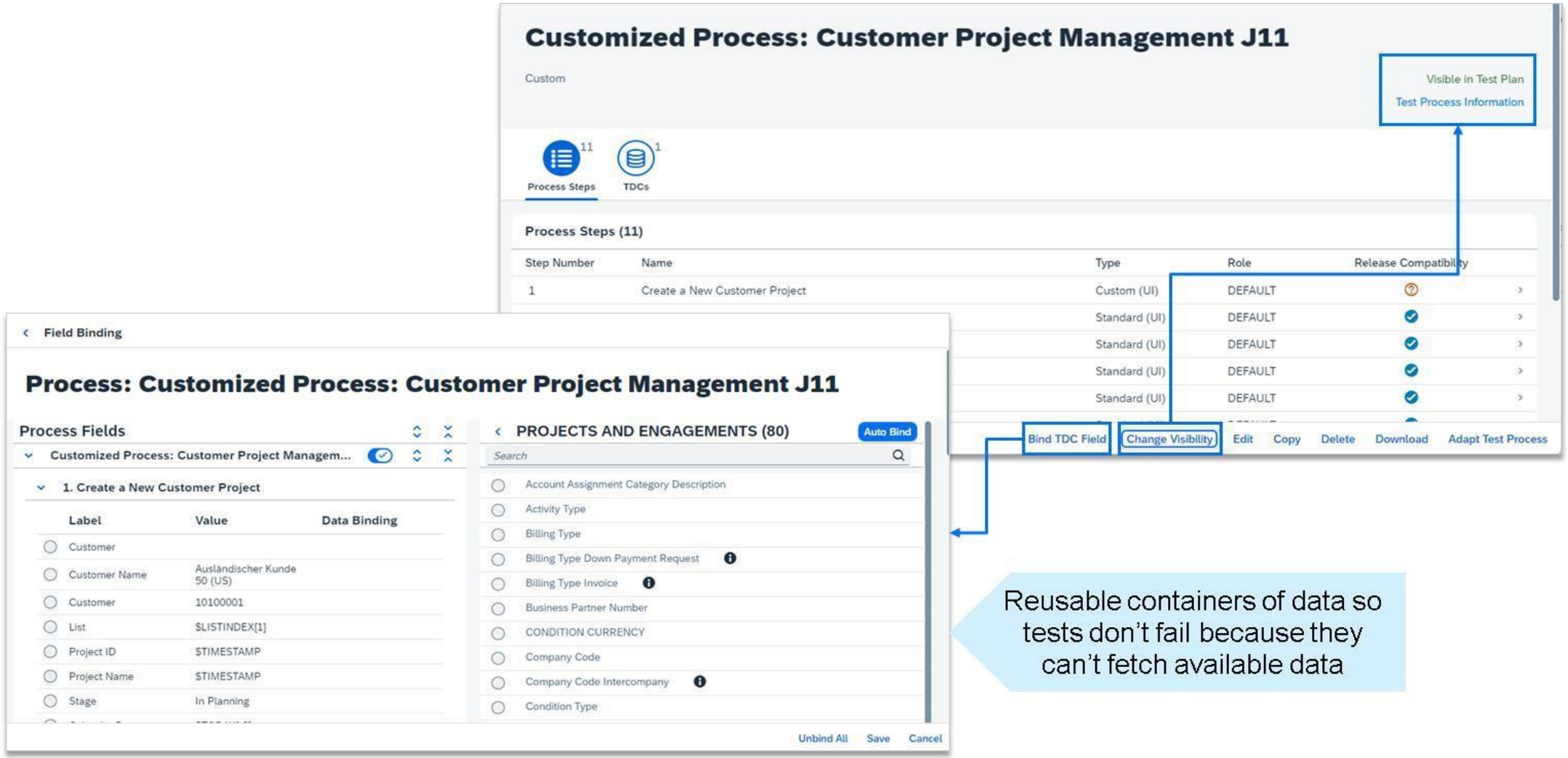
Post Upgrade Test Automate/Process:

- Created by SAP with the focus on testing key functionalities of applications based on active scope in the Q-system after an upgrade.
- Post upgrade tests are performed by SAP, contingent upon customer consent.

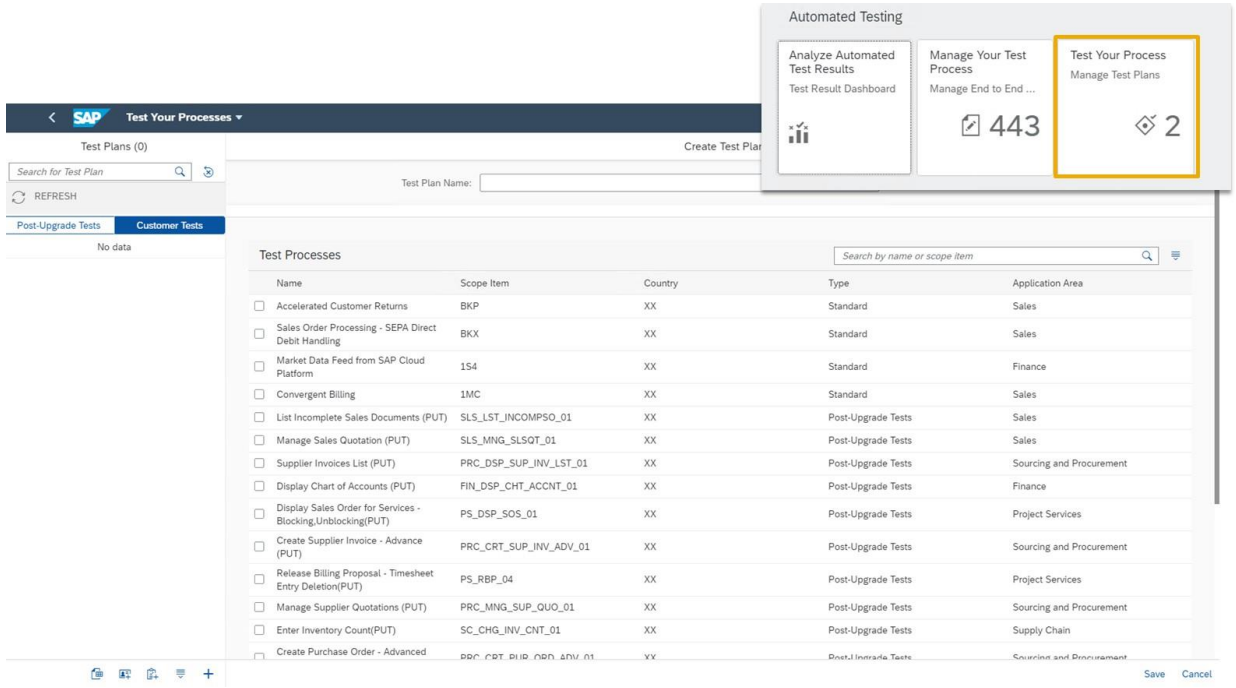
Manage Your Test Processes



Test Data Containers



Create Test Plans

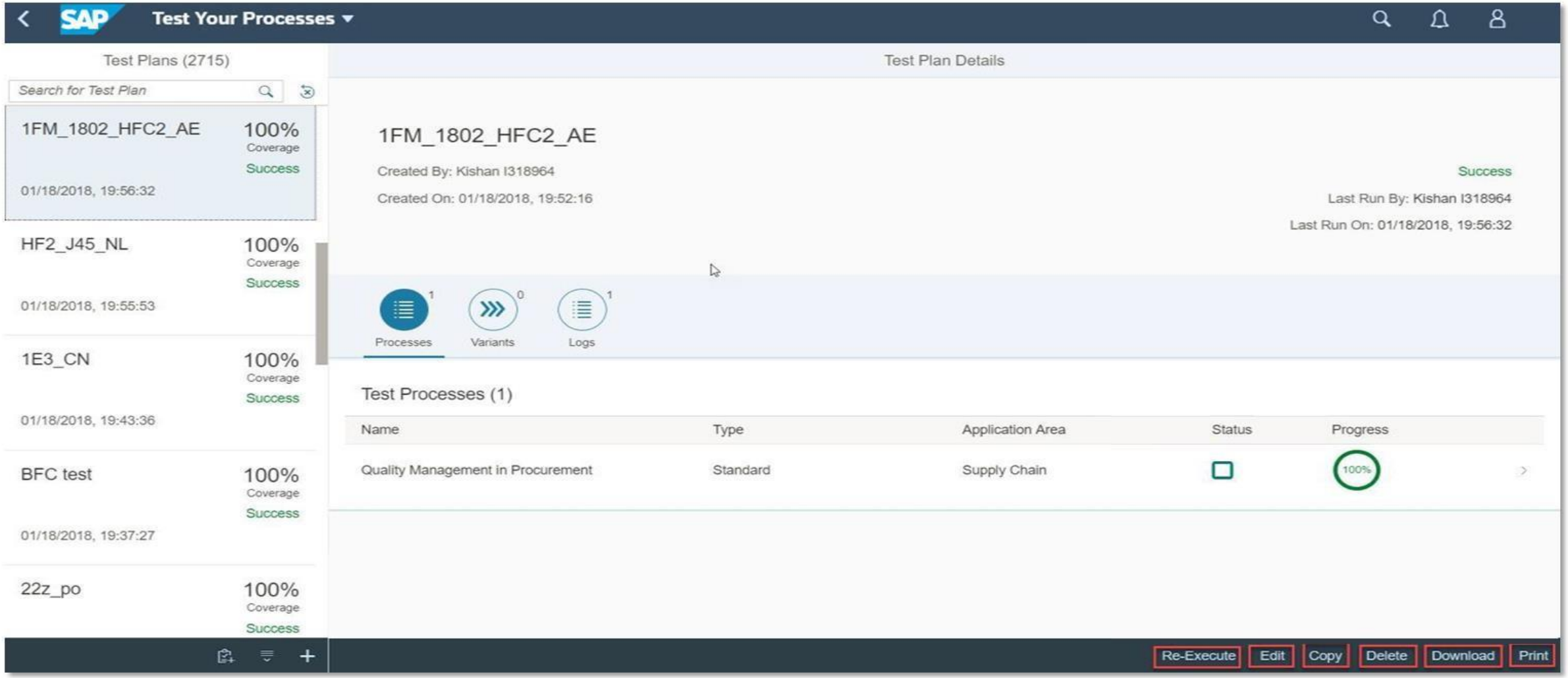


Start Exercise

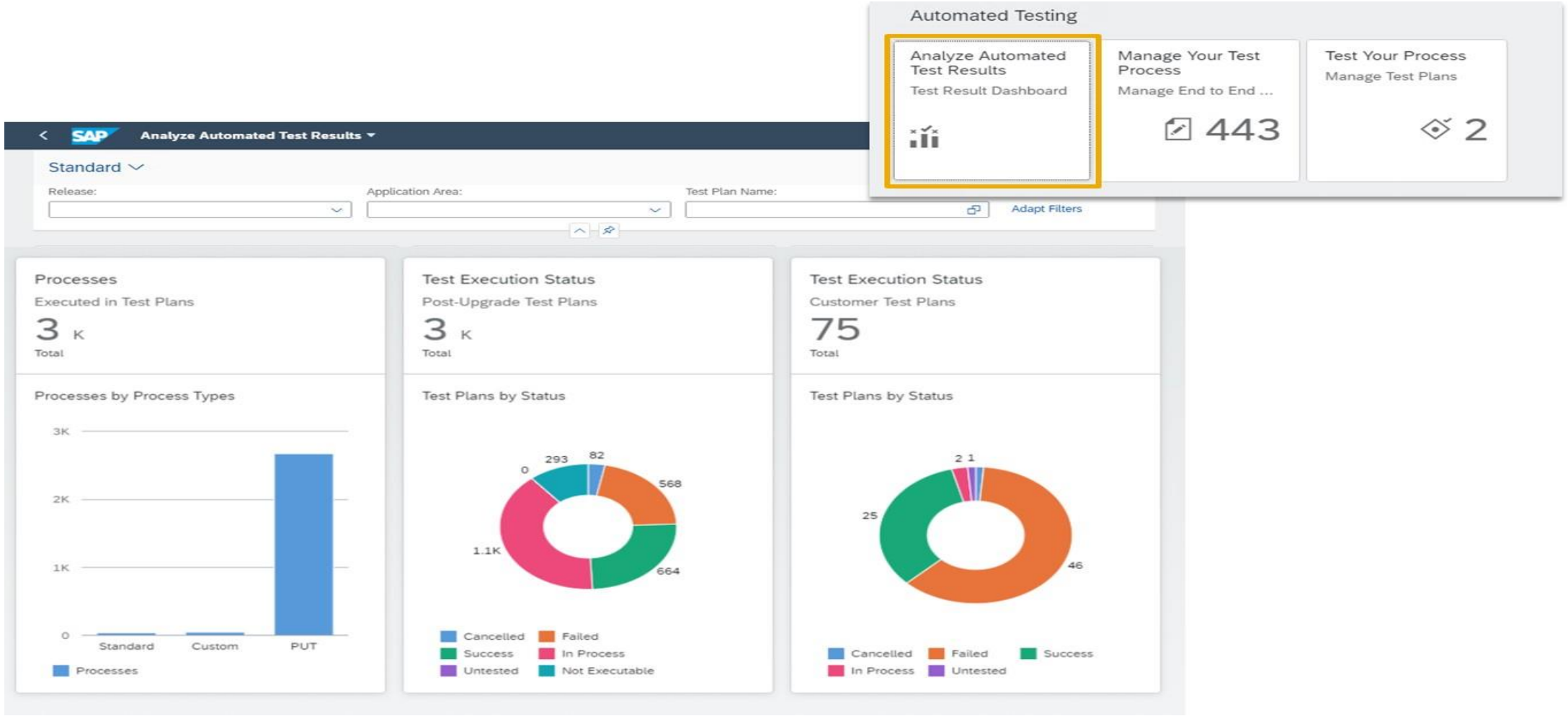
Post-Upgrade Tests

Test	Description
Post-Upgrade Testing (Automated)	A customer may grant SAP permission to carry out Post-Upgrade Testing (PUTs) on their behalf using the Test Automation Tool. If permission is granted and the prerequisites are completed, SAP will automatically execute post upgrade test scripts in the customer's Test system and the customer can review the completed test results to address any issues. PUTs are typically unit or string tests, but do not typically cover entire business processes.
Customer Testing (Automated)	A customer can use the Test Automation Tool to run automated scripts that align with the SAP Best Practice business processes. If a customer-specific configuration prevents the usage of the standard test process, the customer can make a copy of the existing process and customize it. Customers can also create entirely custom business processes from scratch with the tool.
Regression Testing (Manual)	If a predefined automated test script is not available or viable, customers can use SAP Cloud ALM Test Management to build and track completion of manual test cases.

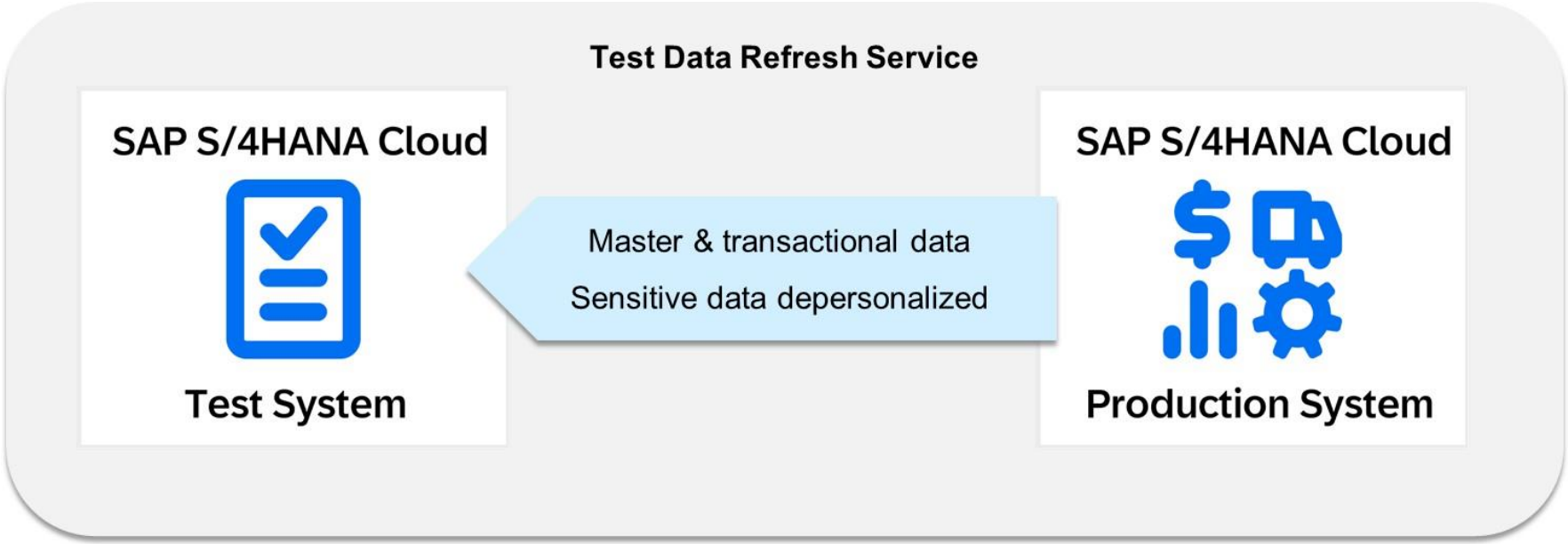
Test Result Analysis



Analyze Automated Test Results



Test Data Refresh service for SAP S/4HANA Cloud Public Edition



Test Data Refresh Service:

- Transfers application data from production system to test system.
- Ensures test system contains recent transactional and master data from production.
- Helps customers run business process tests against current production data.
- Sensitive data depersonalized to comply with GDPR.
- Additional fee may apply for this service.

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Thank You

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