Easing into S/4HANA: What to Do Now to Prepare for Tomorrow

Bryan Parrott, Practice Lead, NIMBL
Gabe Mensching, Practice Lead, NIMBL

Session ID #ASUG82393

About the Speakers

Speaker Name

- Bryan Parrott, Practice Lead
- 10+ years SAP experience between consulting and the A&D industry.
- Out of my parent's three children, I am both the first child and the youngest child.

Speaker Name

- Gabe Mensching, Practice Lead
- 10+ years SAP experience in Basis, HANA and S/4HANA
- I’ve been working in technology in some way shape or form since age 16

Key Outcomes/Objectives

1. Provide guidance on planning and scoping the implementation of S/4HANA
2. Identify functional and technical updates to your current landscape that are required by S/4HANA but can be accomplished before the migration.

Agenda

- Scoping & Planning
- Technology Innovations
- Functional Innovations
- Lessons Learned
- Q&A and Wrap-Up

SCOPING AND PLANNING

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Which Version?

SAP S/4HANA Cloud

SAP S/4HANA Cloud, single-tenant edition

SAP S/4HANA*

Business Process	Standardized, core ERP	Flexible, ext. ERP	Customizable, ext. ERP
Innovation Lifecycle	Quarterly	Semi-annual	Annual, customer-led
TCO	Lowest	Lower	Higher
System Governance	SAP-led	Customer-influenced	Customer-led
IT Infrastructure	SAP, public	SAP, dedicated	Customer-managed
Customization	Within Standards	Within standards	Open to modifications
Extension	PaaS, SCP	PaaS, SCP	Open, SCP
System Delivery	New implementation	New implementation	New or ECC conversion

*Private cloud manged by SAP & On-premise manged by cloud providers or customers

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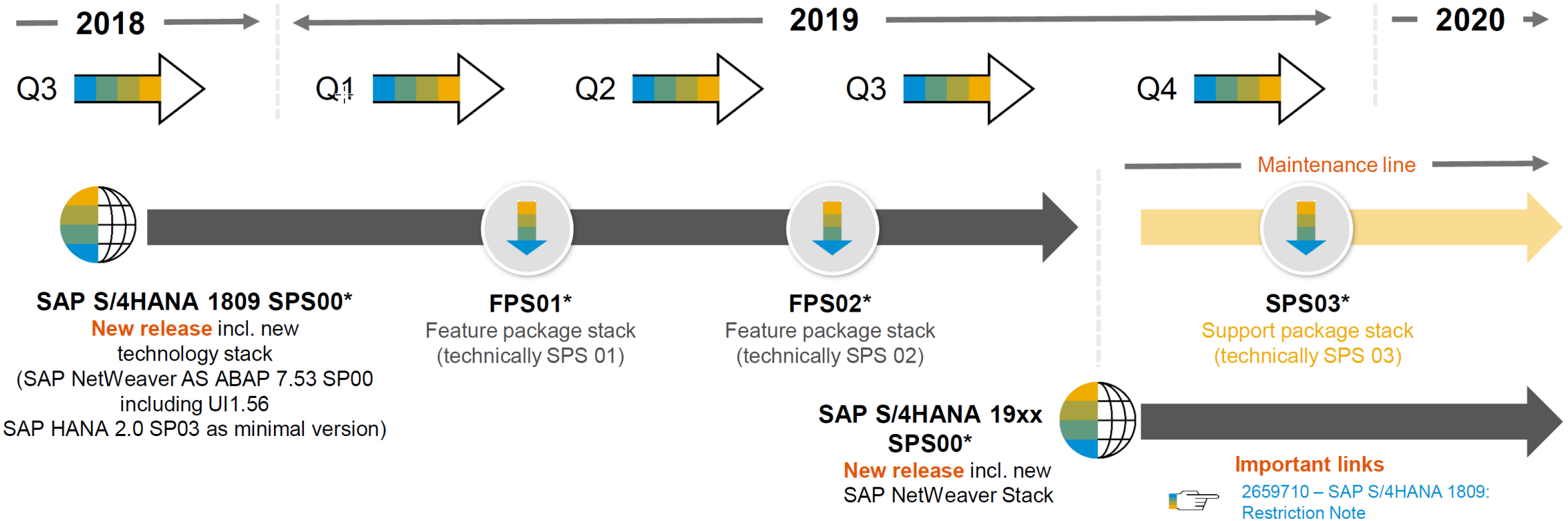
High Level Roadmap



Support package stack for SAP S/4HANA 1809*

After general availability of SAP S/4HANA 1809, feature package stacks (FPS) and support package stacks (SPS) contain stabilizations bundled with corrections and legal changes. Customers benefit from this functionality as part of their maintenance fee. The first SPS of a new release can contain selected features and is labeled feature package stack (FPS) accordingly.Support package stacks are compiled periodically and made available on the User Assistance Content Platform (product information) and on SAP Support Portal (support information).

Important links

- 2659710 – SAP S/4HANA 1809: Restriction Note
- 2655761 – Restrictions and recommendations regarding specific revisions of the SAP HANA database for use in SAP S/4HANA
- Release and maintenance strategy for SAP S/4HANA

Source: SAP

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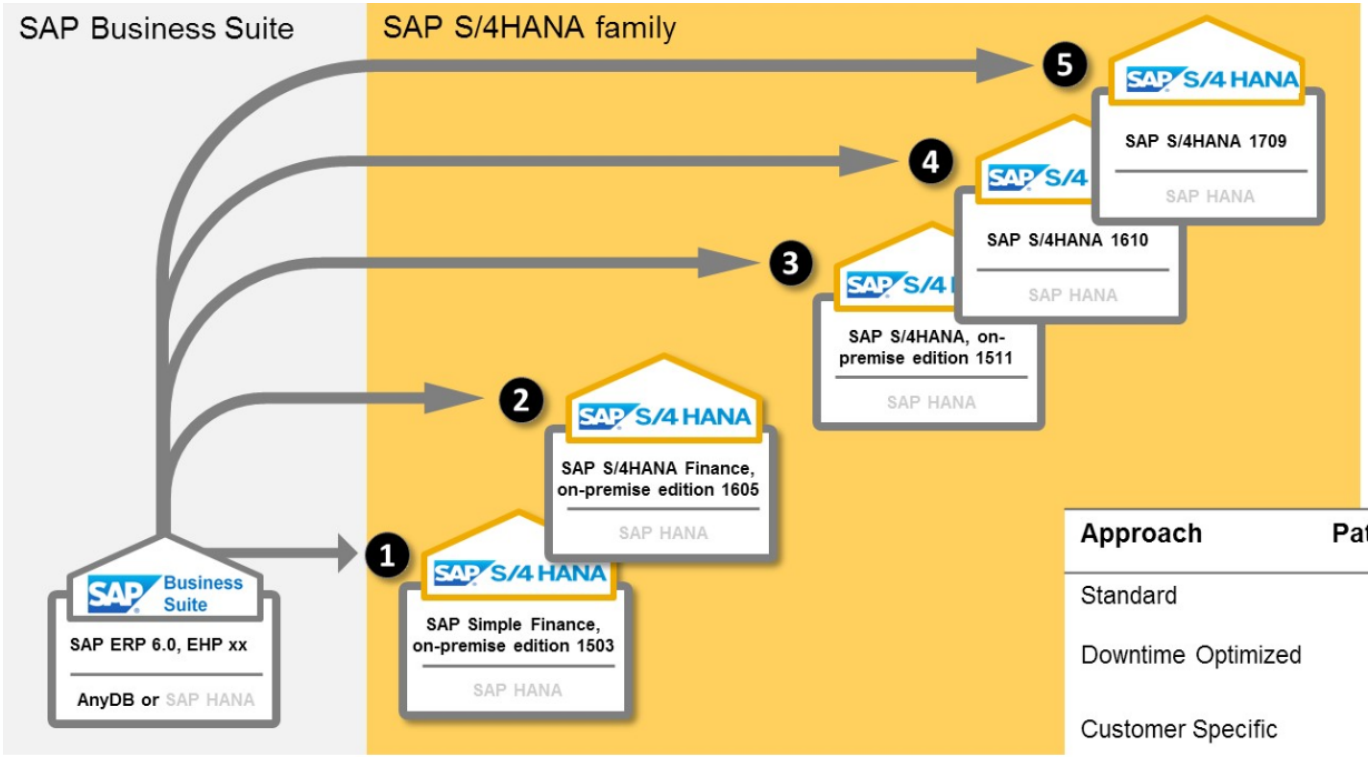
System Conversion Paths



System Conversion from SAP Business Suite to SAP S/4HANA

- **Standard approach**
  uses Software Update Manager (SUM)
- **Downtime Optimized approach**
  uses SUM and reduces downtime by moving data conversion partly to uptime
- **Customer specific approach**
  allows further reduction of downtime based on a service project

Approach	Path: 1	2	3	4	5
Standard	√	√	√	√	
Downtime Optimized	-	piloted	piloted	piloted	planned
Customer Specific	√	√	-	available	planned

Effort ↑ Downtime ↓

One-Step-procedure

- *For older SAP Business Suite releases or systems on Non-Unicode an additional step to SAP ERP 6.0 EHPxx is required.*
- *System has to be an AS ABAP-only system. Dual-stack systems (AS ABAP and AS Java combined in one system) are not supported for the conversion. If your system is as dual-stack system, you have to split it before doing the conversion.*

Source: SAP

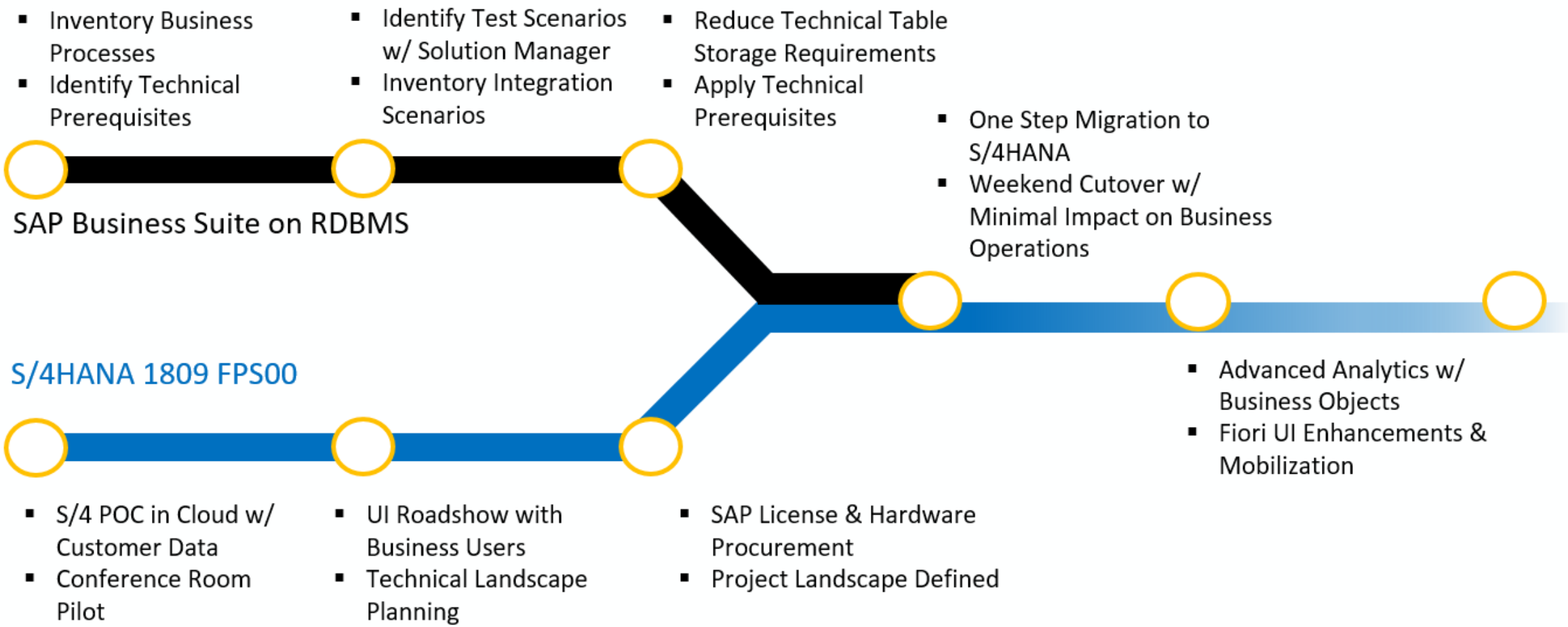
Migration Path Notes

- Is it technically possible to convert to Business Suite on HANA & S/4HANA in one weekend?
  - Yes, technically possible if we're Unicode. Is it viable?
  - What about downtime, data conversion, business validation?
- During the migration to Business Suite on HANA we can convert to Unicode
  - Unicode conversion in one step to S/4HANA is not supported
  - Unicode conversion and upgrade to ERP6 EHP8 is not supported
  - ERP6 EHP7 is the last release to support the SUM DMO Unicode conversion

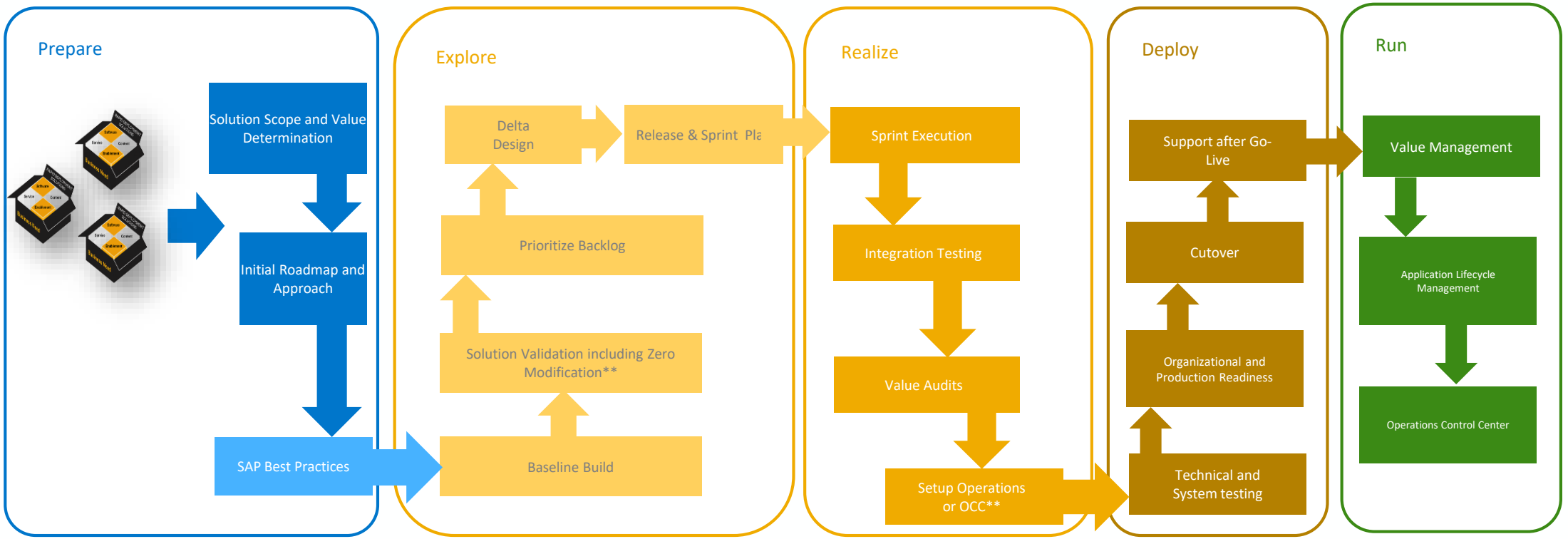
Which S/4HANA?

- S/4HANA Finance 1605 (Formerly Simple Finance 2.0)
  - S/4HANA Finance Installed as add-on to ERP6 EHP8 on HANA
  - Reduced forced change to business processes
  - Latest release= 1605 SP06 (Feb 2017)
  - Last S/4HANA Finance only release; End of Maintenance in 2020
- S/4HANA 1610 (October 2016)
  - Catch up release for Finance
  - Table simplification for Logistics (SD, MM, WM)
  - Forced process change (examples)
    - Convert Customers/Vendors to Business Partners
    - Migrate to SAP Credit Management vs ERP Credit & Collections
- S/4HANA 1709 (September 2017)
- S/4HANA 1809 (September 2018)
  - Simplification List Published!
  - https://launchpad.support.sap.com/#/sic

2019 Roadmap to S/4HANA



SAP Activate

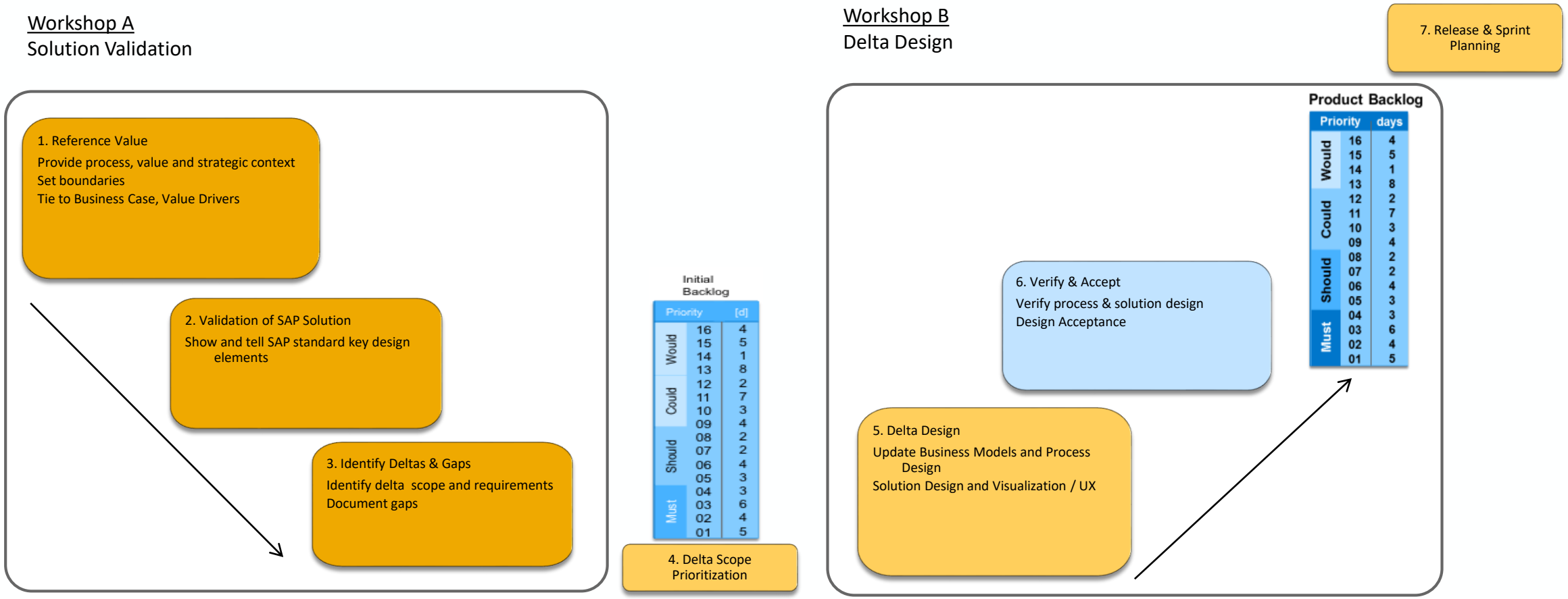


Jump-start project with pre-assembled solution

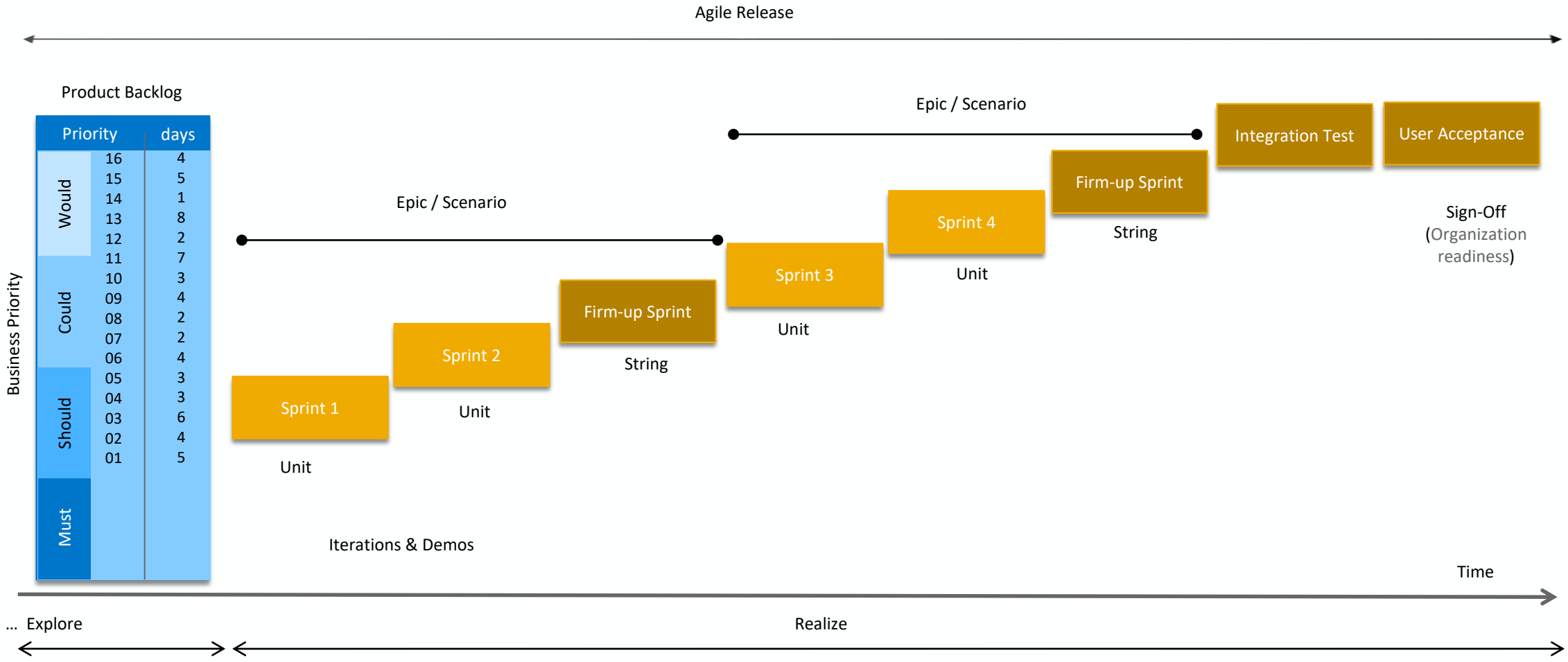
Identify & validate delta requirements and gaps

Build customer solution in short, time-boxed sprints

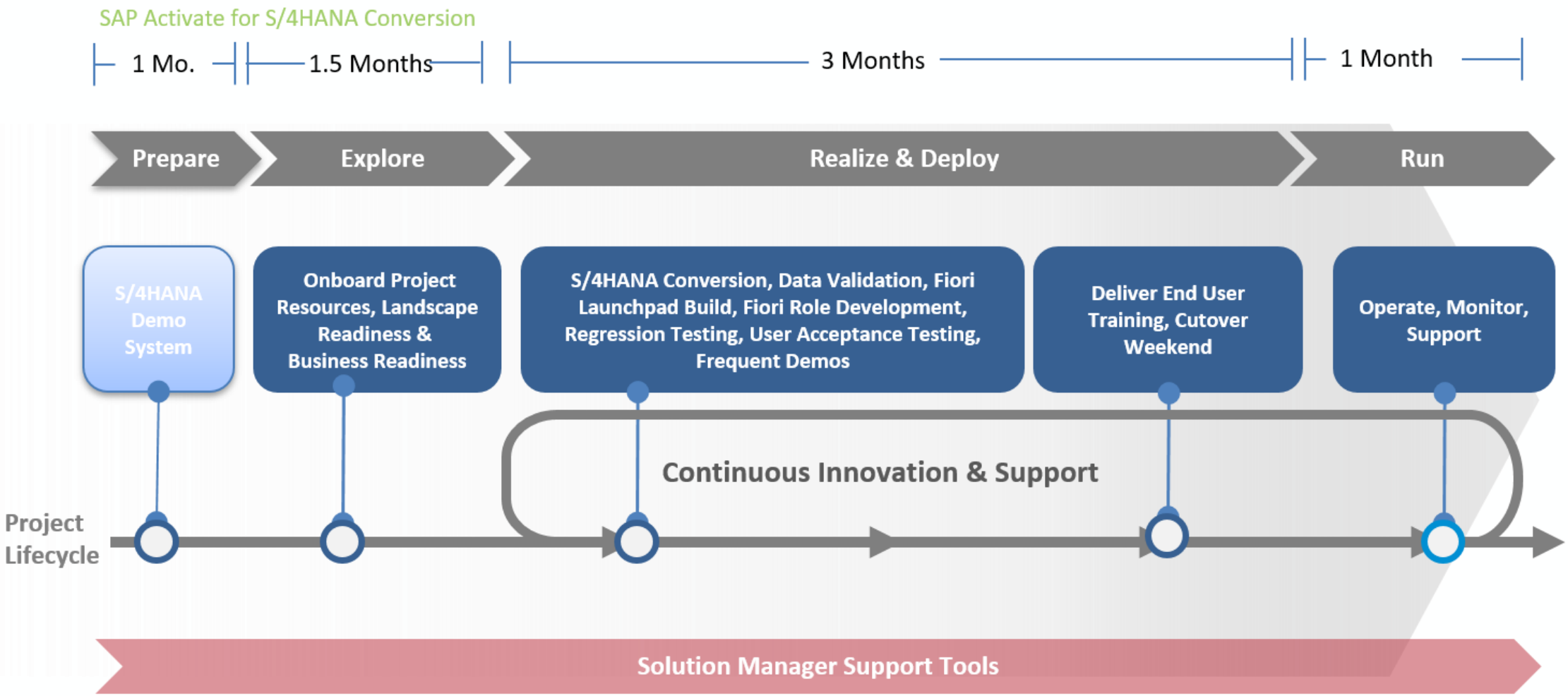
Solution Validation



Upgrades Evolved



Example Timeline



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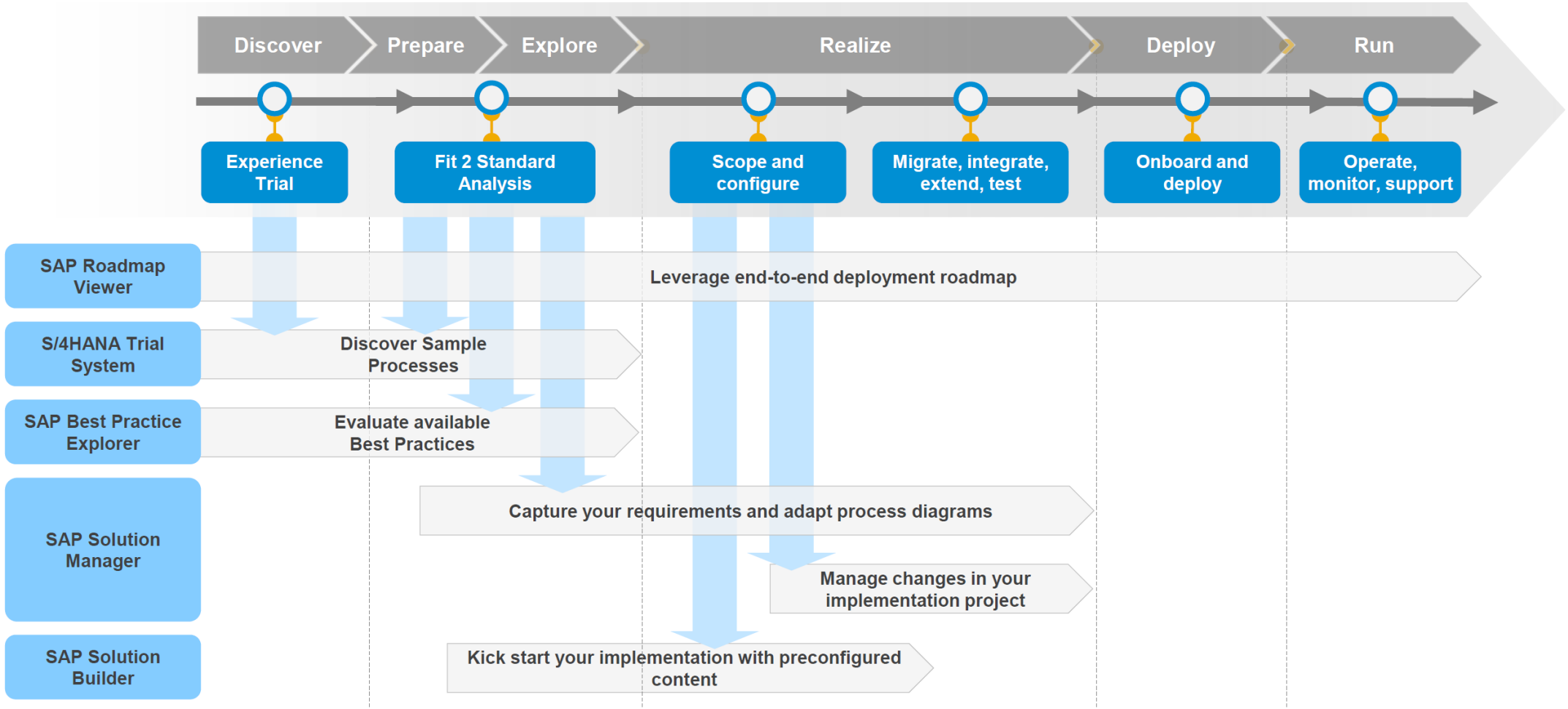
Tools within SAP Activate for S/4HANA

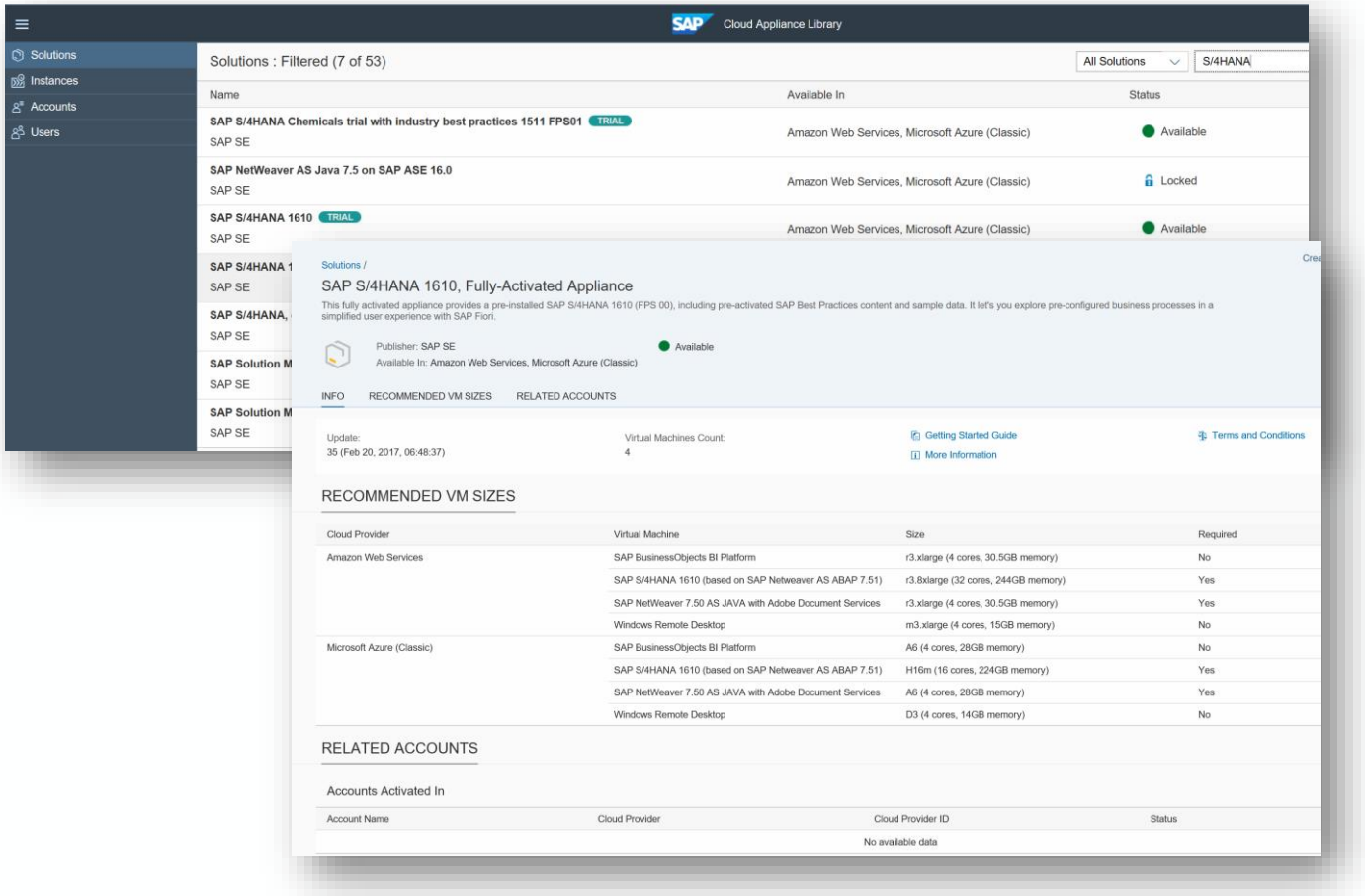


SAP Cloud Appliance Library

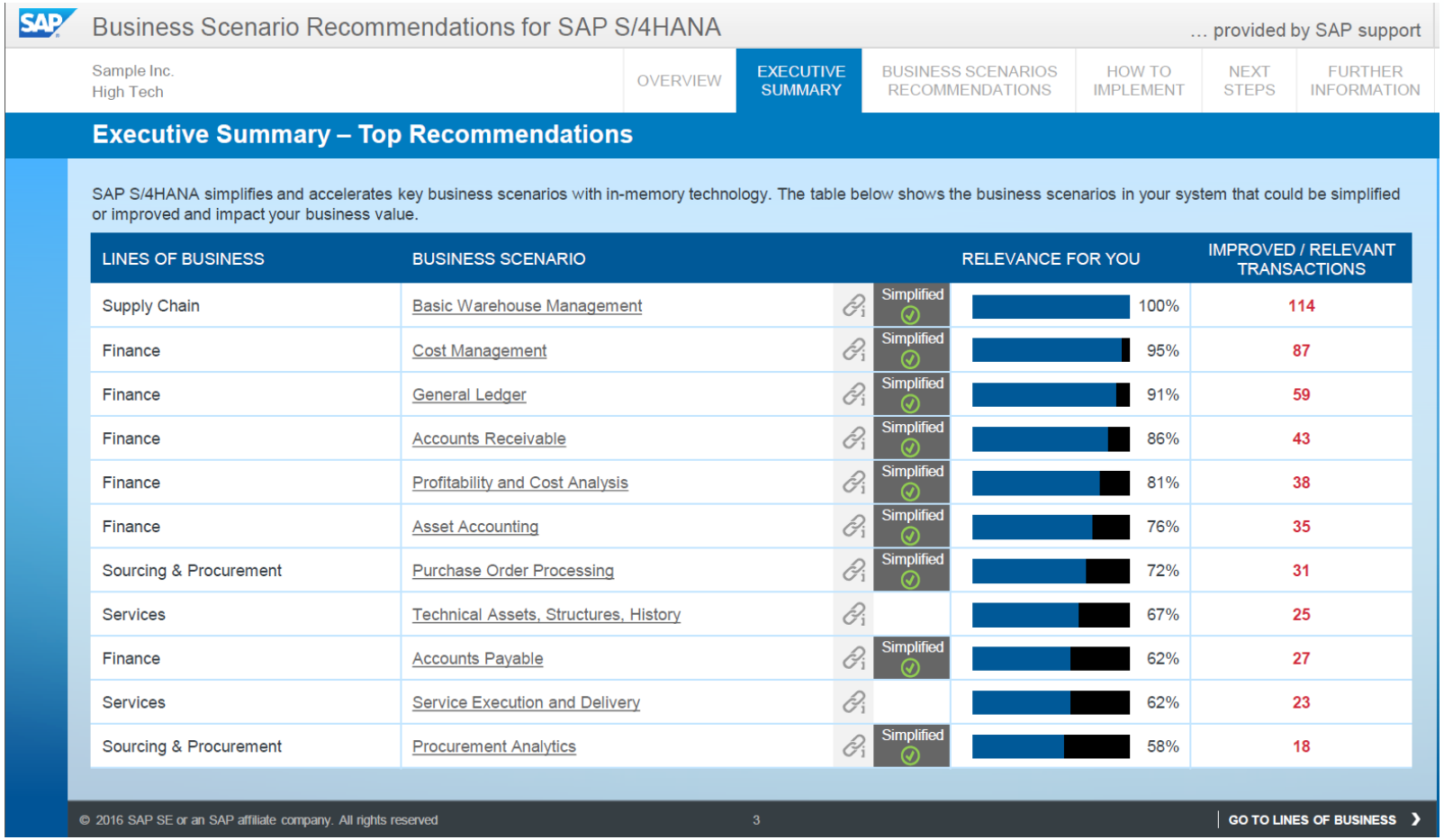
- http://cal.sap.com
- SAP Provided application

Images for customer user

- Activate in AWS or MS Azure
- Pay-per-hour or prepay
- Utilize for conference room pilots
- Explore solutions before purchasing
- Connect to your on-premise systems



Business Scenarios Recommendations



Business Scenario Recommendations for SAP S/4HANA ... provided by SAP support

Sample Inc.
High Tech

OVERVIEW | EXECUTIVE SUMMARY | BUSINESS SCENARIOS RECOMMENDATIONS | HOW TO IMPLEMENT | NEXT STEPS | FURTHER INFORMATION

Executive Summary – Top Recommendations

SAP S/4HANA simplifies and accelerates key business scenarios with in-memory technology. The table below shows the business scenarios in your system that could be simplified or improved and impact your business value.

LINES OF BUSINESS	BUSINESS SCENARIO		RELEVANCE FOR YOU	IMPROVED / RELEVANT TRANSACTIONS
Supply Chain	Basic Warehouse Management	Simplified	100%	114
Finance	Cost Management	Simplified	95%	87
Finance	General Ledger	Simplified	91%	59
Finance	Accounts Receivable	Simplified	86%	43
Finance	Profitability and Cost Analysis	Simplified	81%	38
Finance	Asset Accounting	Simplified	76%	35
Sourcing & Procurement	Purchase Order Processing	Simplified	72%	31
Services	Technical Assets, Structures, History		67%	25
Finance	Accounts Payable	Simplified	62%	27
Services	Service Execution and Delivery		62%	23
Sourcing & Procurement	Procurement Analytics	Simplified	58%	18

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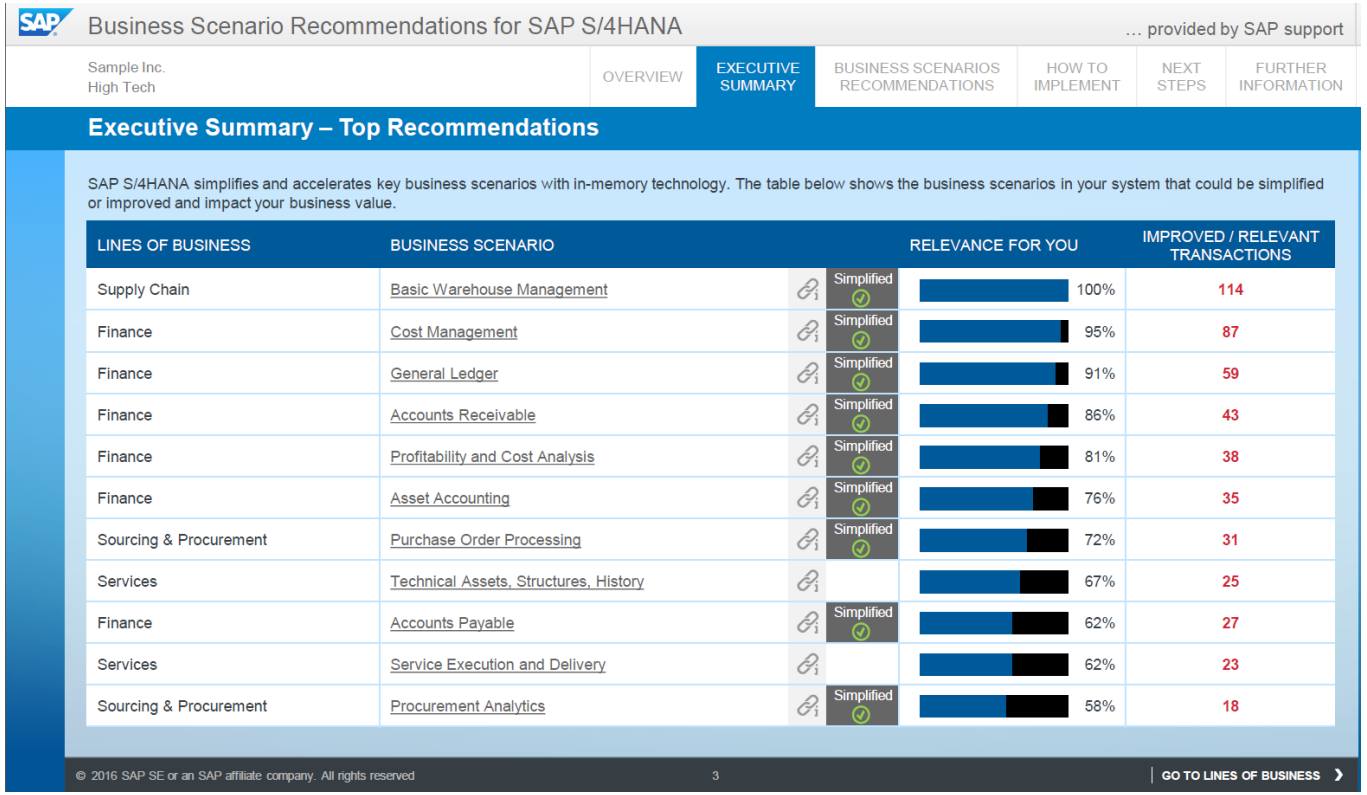
GO TO LINES OF BUSINESS

How Do I Run a BSR?

- Download data from ST03N
- More data is better
- Submit via web
  - http://s4hana.com
- Results in five days
- No cost



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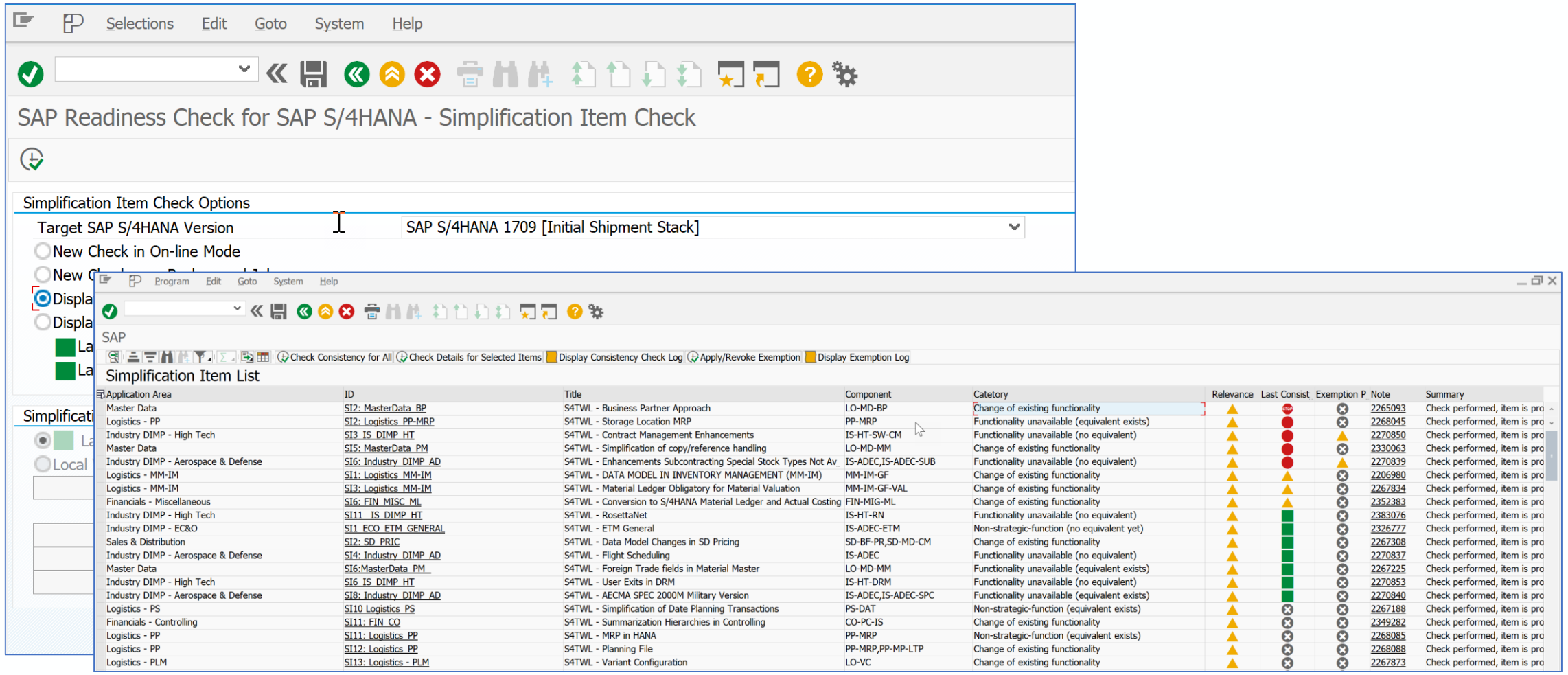
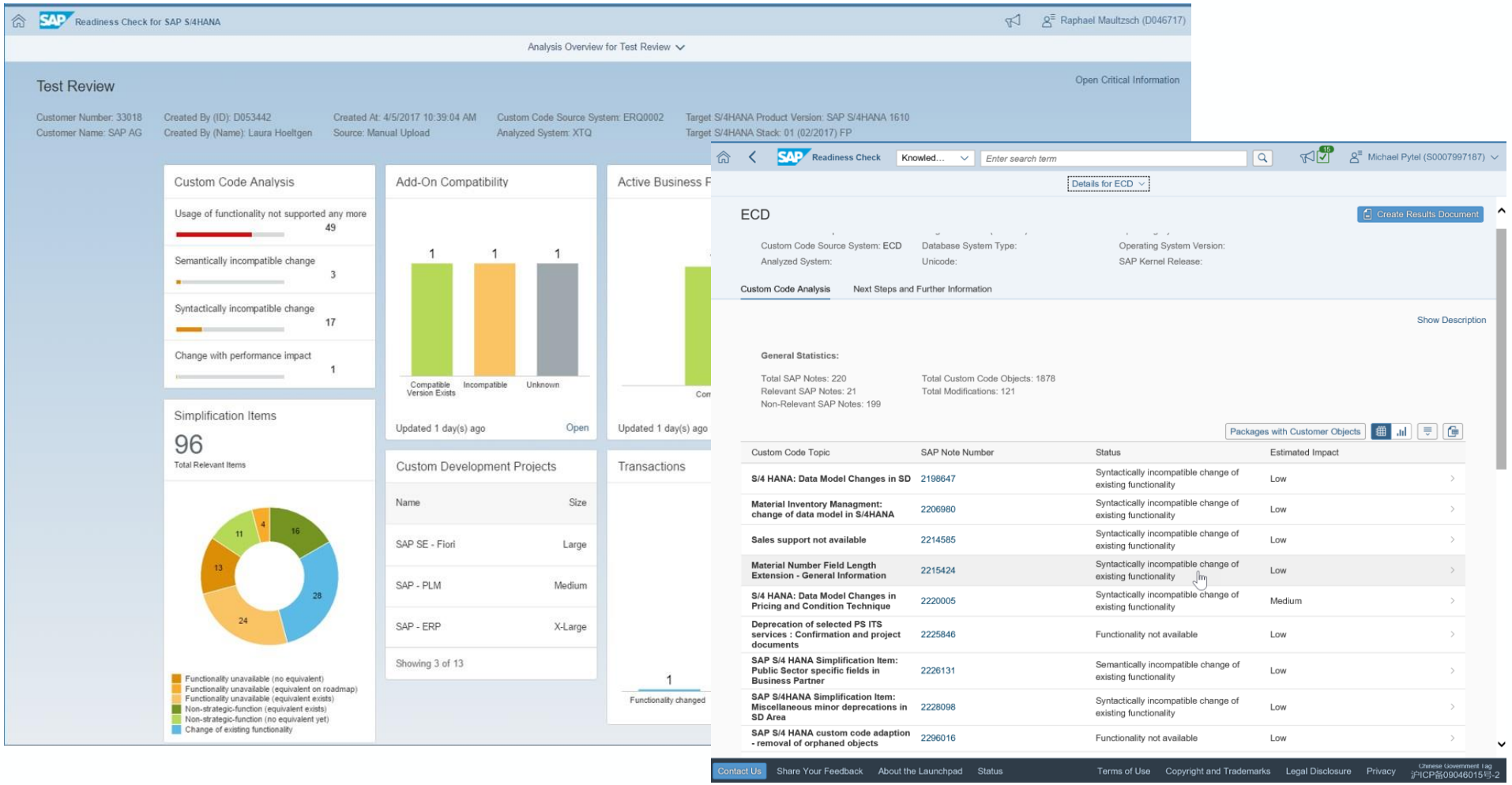
GO TO LINES OF BUSINESS

SAP S/4HANA Readiness Check



Application Area	ID	Title	Component	Catetory	Relevance	Last Consist	Exemption P	Note	Summary
Master Data	SI2: MasterData_BP	S4TWL - Business Partner Approach	LO-MD-BP	Change of existing functionality				2265093	Check performed, item is pro
Logistics - PP	SI2: Logistics_PP-MRP	S4TWL - Storage Location MRP	PP-MRP	Functionality unavailable (equivalent exists)				2268045	Check performed, item is pro
Industry DIMP - High Tech	SI3_IS_DIMP_HT	S4TWL - Contract Management Enhancements	IS-HT-SW-CM	Functionality unavailable (no equivalent)				2270850	Check performed, item is pro
Master Data	SI5: MasterData_PM	S4TWL - Simplification of copy/reference handling	LO-MD-MM	Change of existing functionality				2330063	Check performed, item is pro
Industry DIMP - Aerospace & Defense	SI6: Industry_DIMP_AD	S4TWL - Enhancements Subcontracting Special Stock Types Not Av	IS-ADEC,IS-ADEC-SUB	Functionality unavailable (no equivalent)				2270839	Check performed, item is pro
Logistics - MM-IM	SI1: Logistics_MM-IM	S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (MM-IM)	MM-IM-GF	Change of existing functionality				2206980	Check performed, item is pro
Logistics - MM-IM	SI3: Logistics_MM-IM	S4TWL - Material Ledger Obligatory for Material Valuation	MM-IM-GF-VAL	Change of existing functionality				2267834	Check performed, item is pro
Financials - Miscellaneous	SI6: FIN_MISC_ML	S4TWL - Conversion to S/4HANA Material Ledger and Actual Costing	FIN-MIG-ML	Change of existing functionality				2352383	Check performed, item is pro
Industry DIMP - High Tech	SI11_IS_DIMP_HT	S4TWL - RosettaNet	IS-HT-RN	Functionality unavailable (no equivalent)				2383076	Check performed, item is pro
Industry DIMP - EC&O	SI1_ECO_ETM_GENERAL	S4TWL - ETM General	IS-ADEC-ETM	Non-strategic-function (no equivalent yet)				2326777	Check performed, item is pro
Sales & Distribution	SI2: SD_PRIC	S4TWL - Data Model Changes in SD Pricing	SD-BF-PR,SD-MD-CM	Change of existing functionality				2267308	Check performed, item is pro
Industry DIMP - Aerospace & Defense	SI4: Industry_DIMP_AD	S4TWL - Flight Scheduling	IS-ADEC	Functionality unavailable (no equivalent)				2270837	Check performed, item is pro
Master Data	SI6:MasterData_PM	S4TWL - Foreign Trade fields in Material Master	LO-MD-MM	Functionality unavailable (equivalent exists)				2267225	Check performed, item is pro
Industry DIMP - High Tech	SI6_IS_DIMP_HT	S4TWL - User Exits in DRM	IS-HT-DRM	Functionality unavailable (no equivalent)				2270853	Check performed, item is pro
Industry DIMP - Aerospace & Defense	SI8: Industry_DIMP_AD	S4TWL - AECMA SPEC 2000M Military Version	IS-ADEC,IS-ADEC-SPC	Functionality unavailable (equivalent exists)				2270840	Check performed, item is pro
Logistics - PS	SI10 Logistics_PS	S4TWL - Simplification of Date Planning Transactions	PS-DAT	Non-strategic-function (equivalent exists)				2267188	Check performed, item is pro
Financials - Controlling	SI11: FIN_CO	S4TWL - Summarization Hierarchies in Controlling	CO-PC-IS	Change of existing functionality				2349282	Check performed, item is pro
Logistics - PP	SI11: Logistics_PP	S4TWL - MRP in HANA	PP-MRP	Non-strategic-function (equivalent exists)				2268085	Check performed, item is pro
Logistics - PP	SI12: Logistics_PP	S4TWL - Planning File	PP-MRP,PP-MP-LTP	Change of existing functionality				2268088	Check performed, item is pro
Logistics - PLM	SI13: Logistics - PLM	S4TWL - Variant Configuration	LO-VC	Change of existing functionality				2267873	Check performed, item is pro

SAP S/4HANA Online Readiness Check

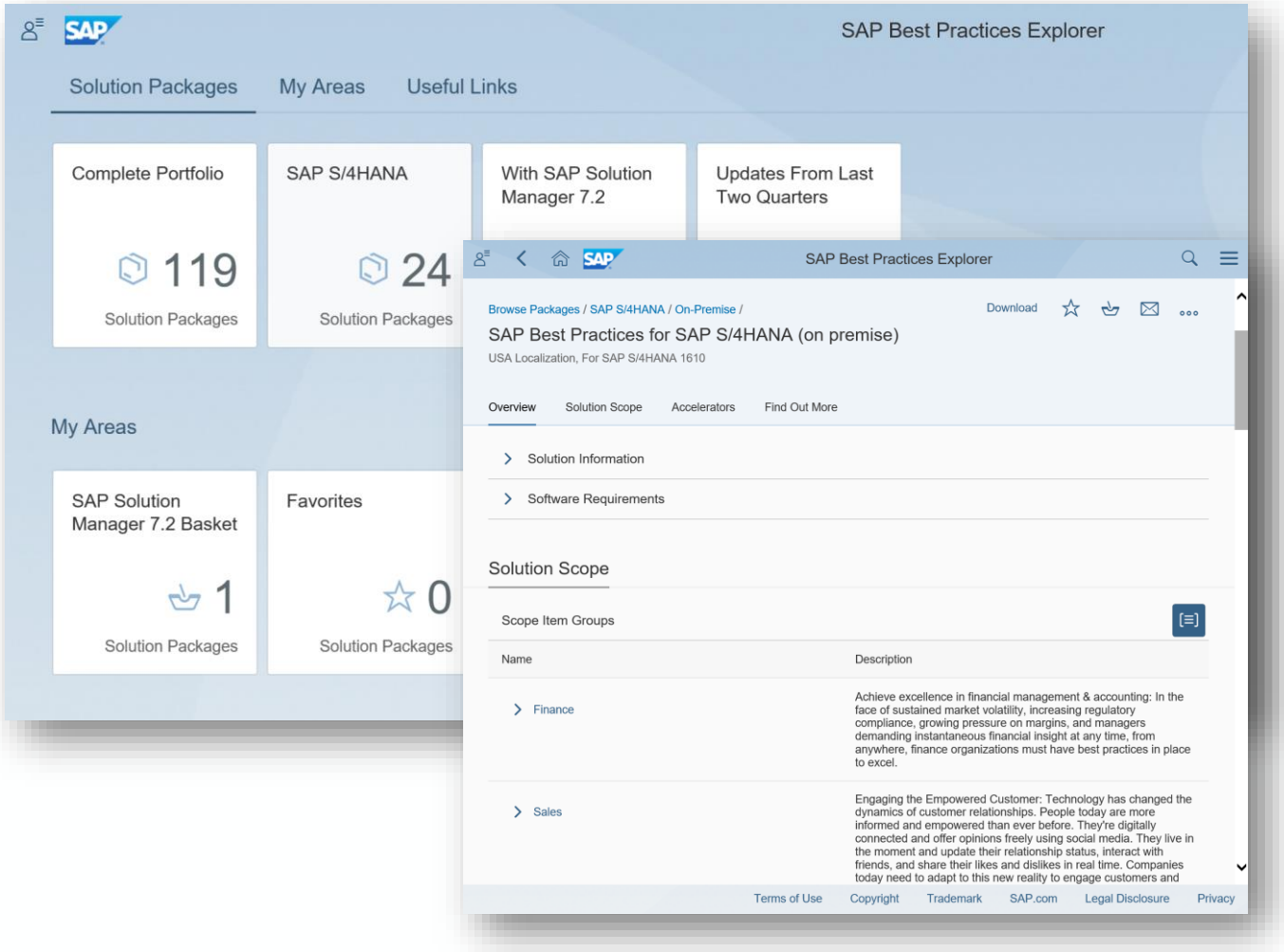


SAP S/4HANA Readiness Check

- https://launchpad.support.sap.com/#readiness
- Update the where used index in Production or a Production copy.
  - Execute report SAPRSEUB as background job. For more details see SAP Note 2234970.
  - This can take some time….
- Implement these notes
  - Implement SAP Note 2462288 to collect the HANA sizing data.
  - Implement SAP Note 2399707 to collect the simplification item relevance.
  - Implement SAP Note 2443236 to collect the business process analytics analysis.
  - Implement SAP Note 2185390 as a prerequiste note.
  - Implement SAP Note 2568736 Implement SAP Note 2310438

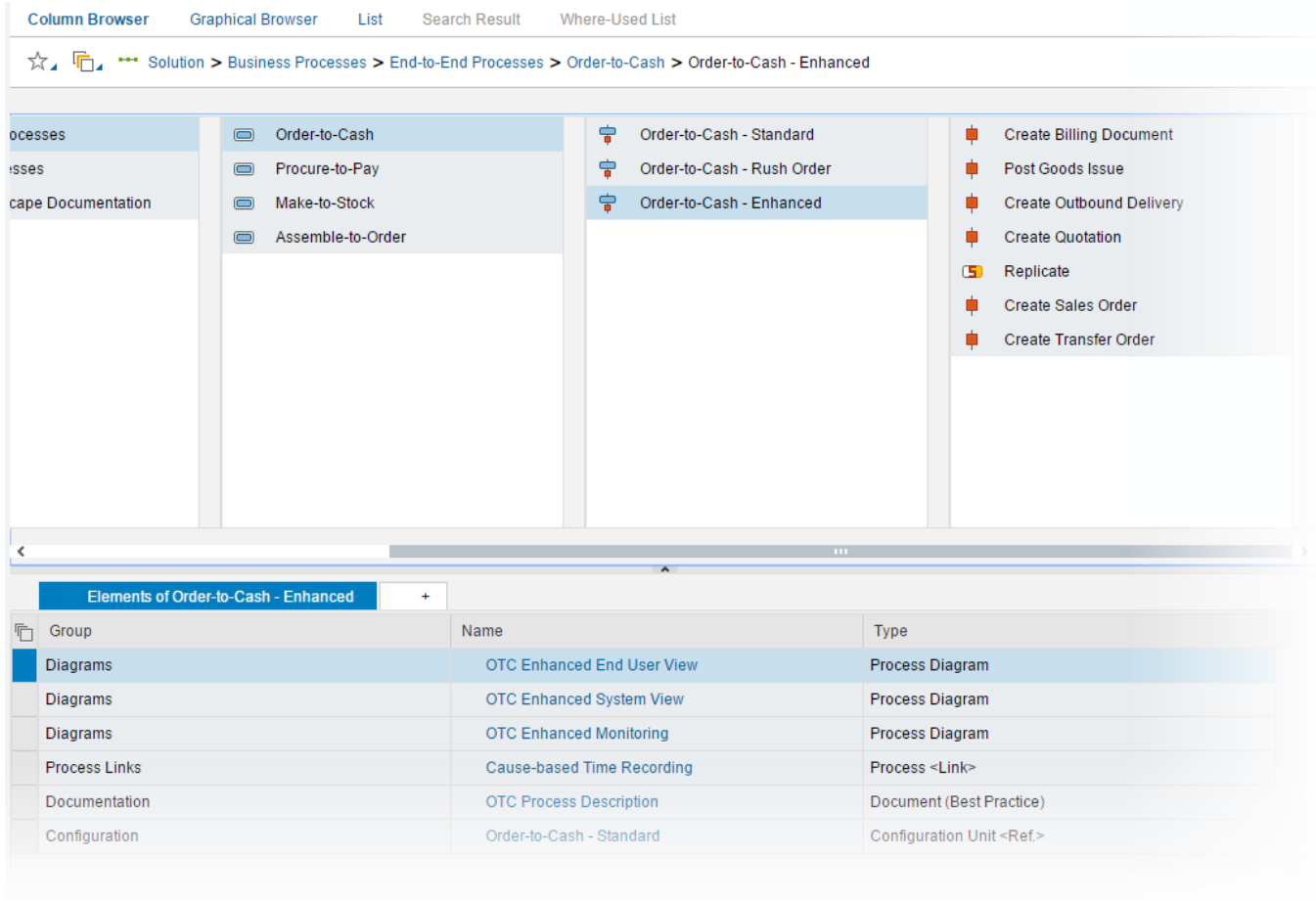
SAP Best Practice Explorer

- https://rapid.sap.com/bp
- Process Templates
- Project Accelerators
- Configuration Guides
- Process Flow Diagrams
- Integrated with Solution Manager 7.2

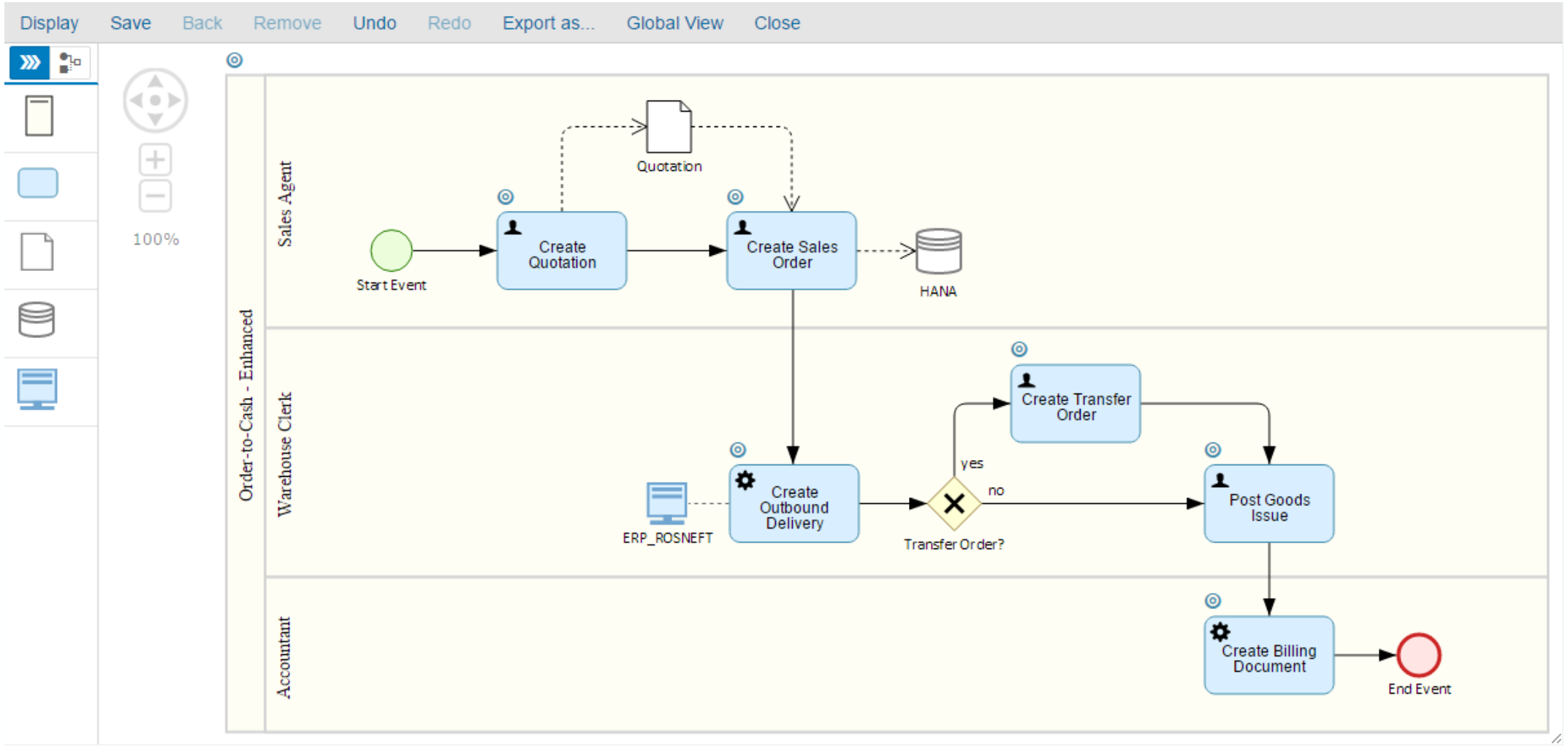


Solution Manager 7.2 - Look & Feel

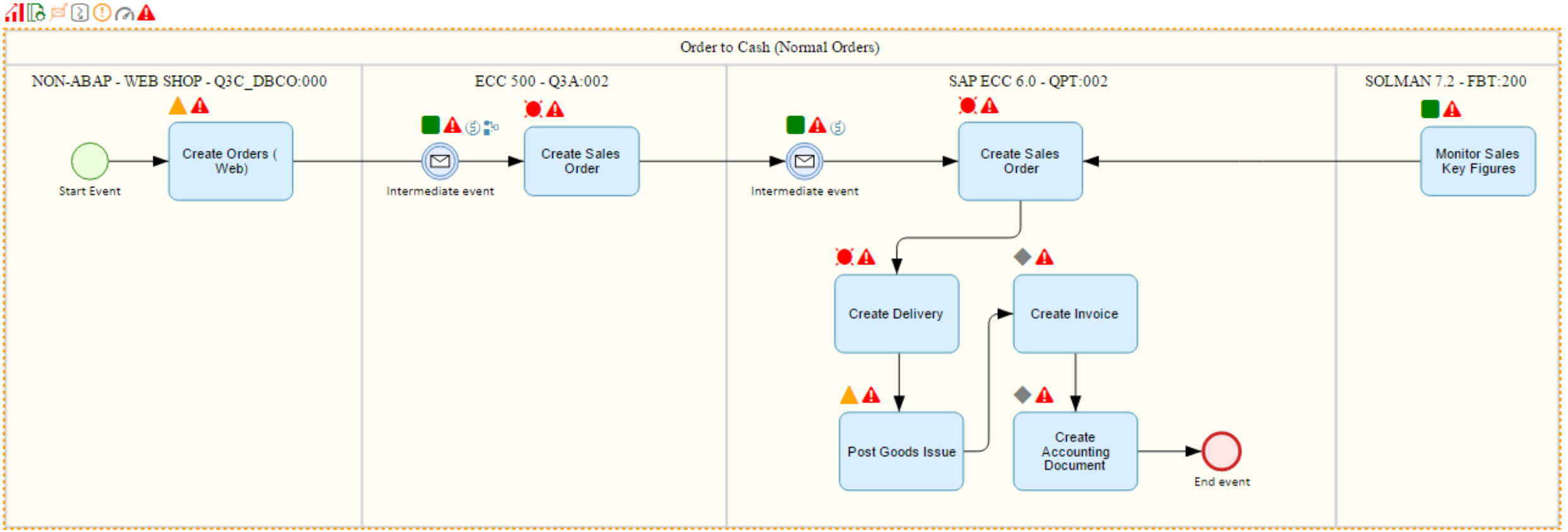
- Solution Documentation
- S4HANA Process Templates
- Organized
  - By Role
  - By System
- Searchable
- Web Based



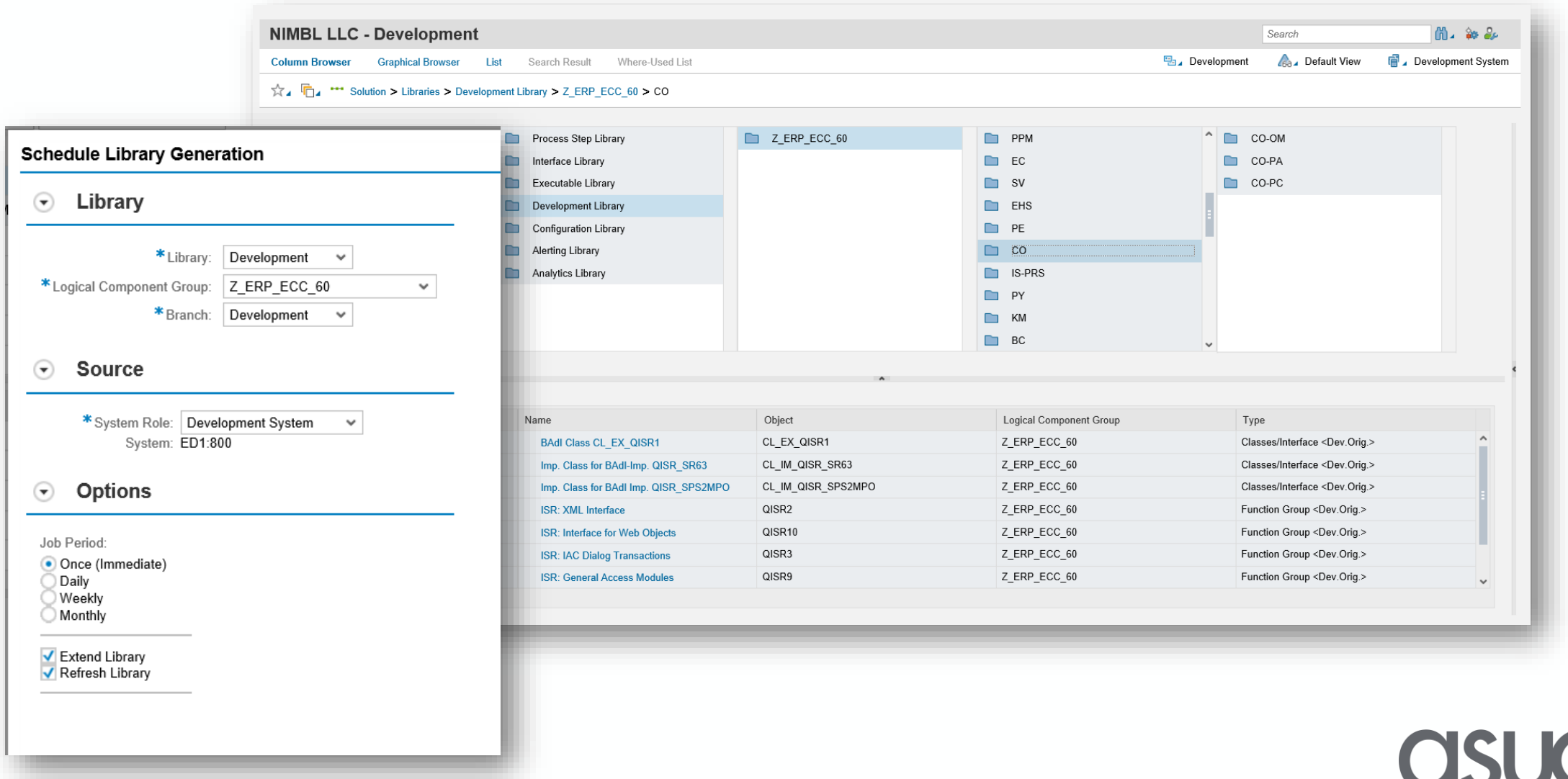
Process - Role View



Process - System View



Jumpstarting Process Documentation



TECHNOLOGY INNOVATIONS

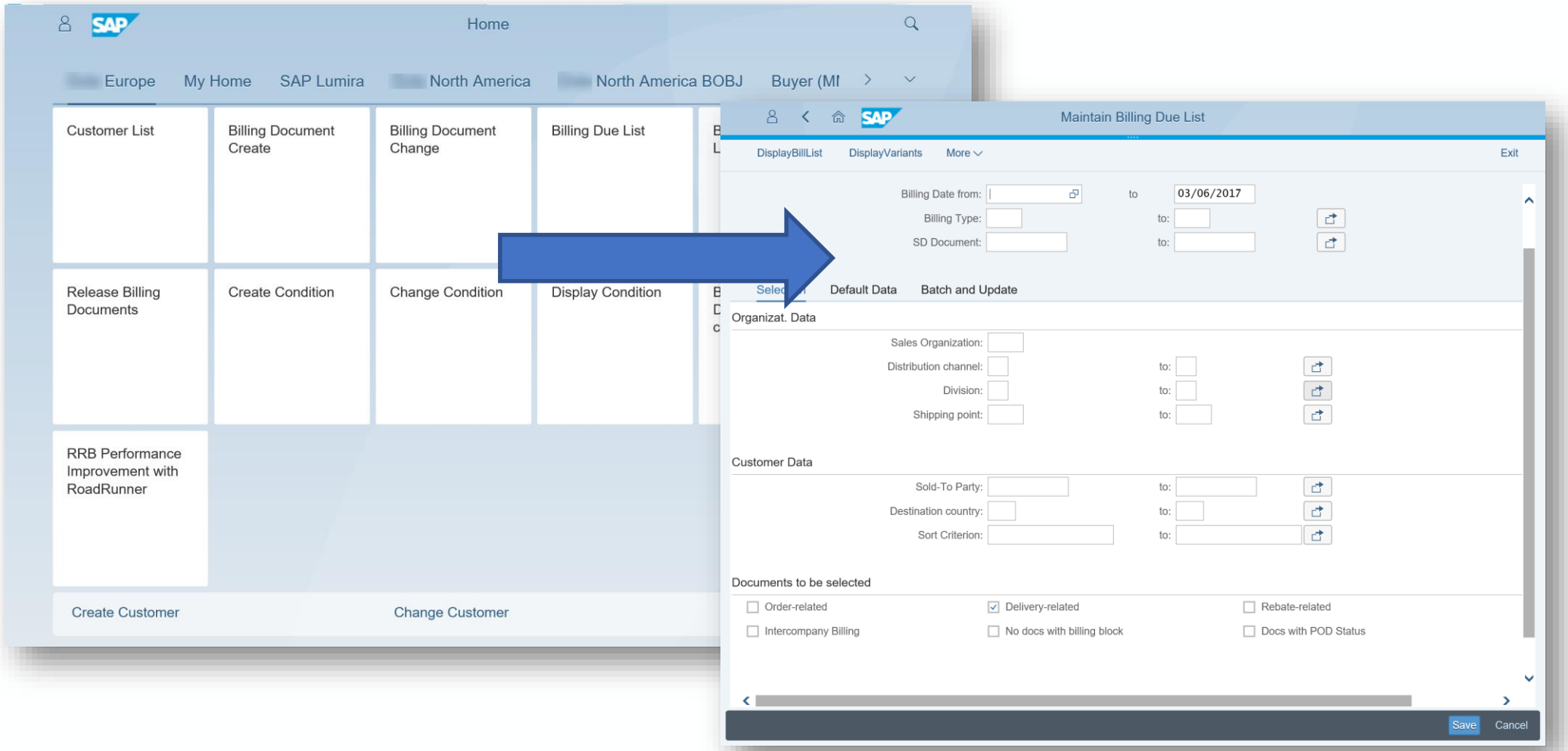
Implement HANA Now!

- Migrate non-ECC systems to HANA (BW, SolMan, etc.)
  - Gain experience with HANA with less business impact
- Migrating your current ECC system to HANA provides the benefits of running SAP on HANA while minimizing the end user impact in the short term.
  - This is a critical first step to being on S/4HANA.
  - Allows you to perform required tasks such as Unicode conversions and upgrades to minimum package levels as part of the migration project.

Implement HANA Now!

- Create an Enterprise Data Warehouse that runs on HANA and replicates data from multiple sources
  - Provides the benefits of real time reporting in your current environment
  - Allows the development and infrastructure teams to work become familiar with HANA over time

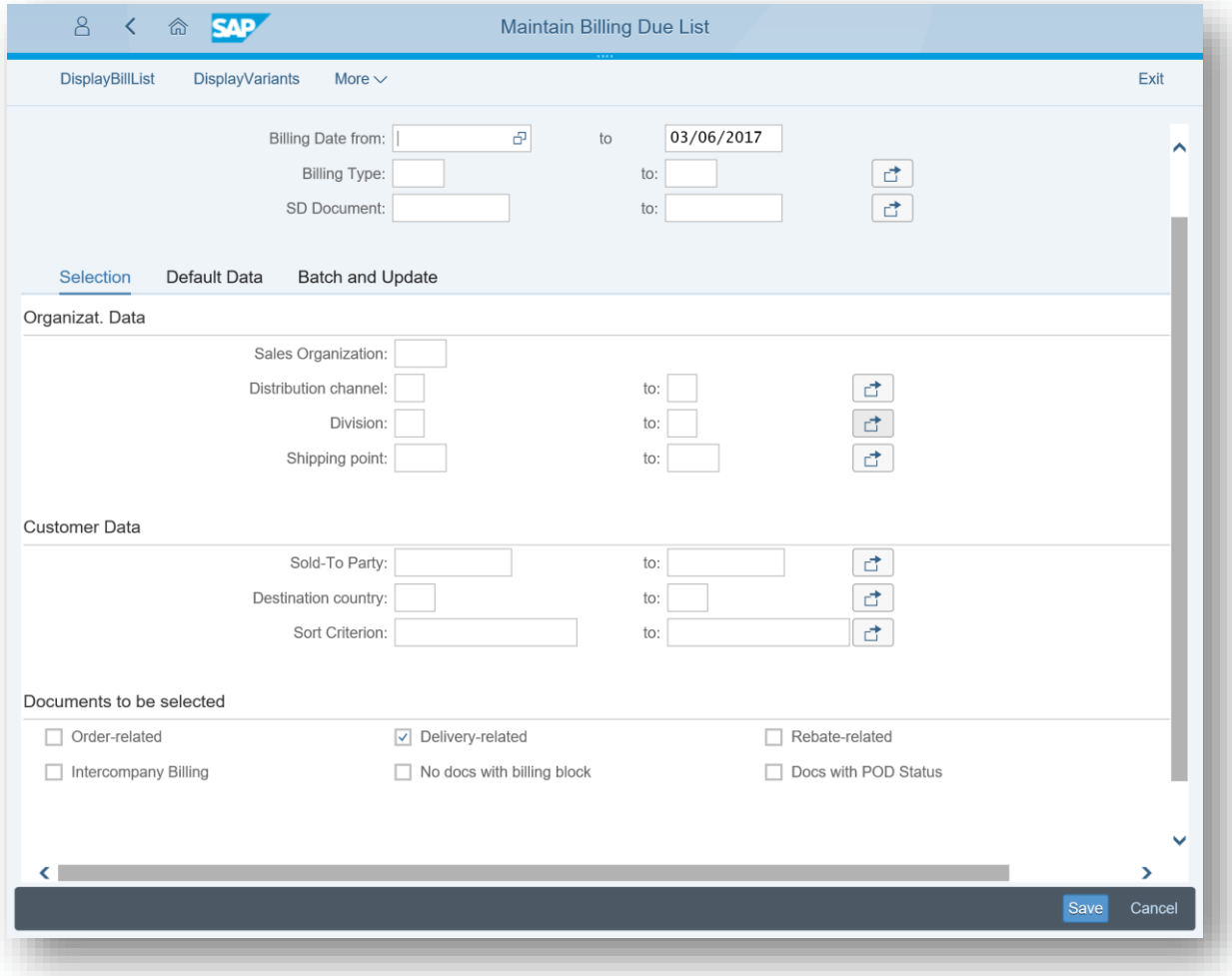
SAP Fiori 2.0 & SAP GUI HTML



SAP Fiori 2.0 & SAP GUI HTML

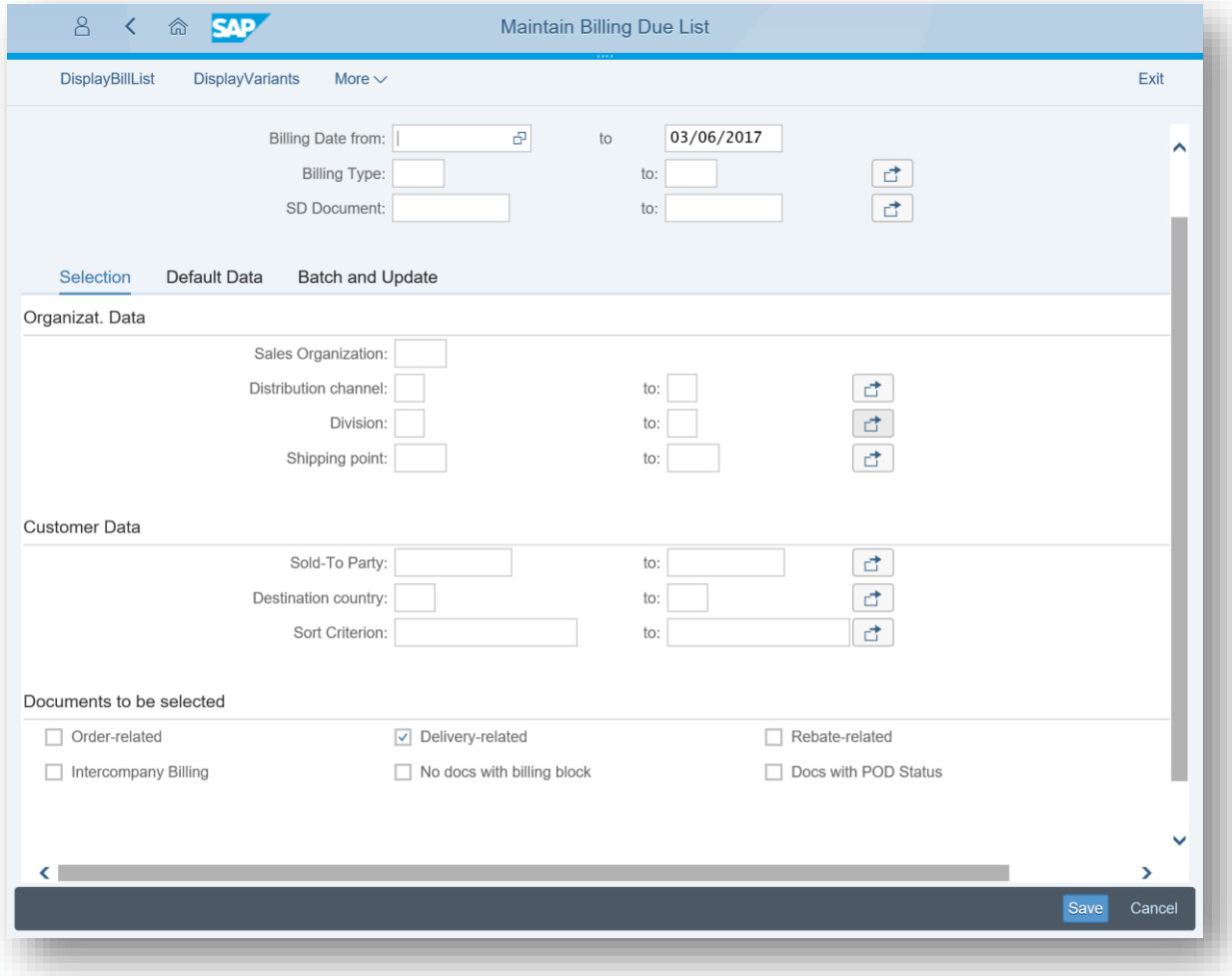
- Seamless transition to SAP GUI t-codes
- Standard SAP transactions will appear in the Belize theme by default
- Opens additional tab within the browser
- Not mobile enabled by default
- SAP Easy Access Menu is disabled
- Fiori Tiles are configured – not developed

*No Fiori Development experience needed



SAP Fiori 2.0 & SAP GUI HTML

- Allows your end users the ability to become comfortable with Fiori. This is especially true for Fiori applications that completely replace t-codes in SAP GUI.
- You can roll out new applications when you'd like, not when you have to because of the conversion.
- Provides the ability to pull the security work for Fiori forward instead of requiring it as part of the S/4HANA migration project.



WHAT CAN YOU DO NOW?

Customer Vendor Integration to Business Partners

- In S/4HANA, the use of Business Partners becomes mandatory
- Allows for master data to be managed centrally as one business partner can have multiple roles (Customer, Vendor, etc.)
- Requires conversion of all existing business relationships in SAP via Customer Vendor Integration

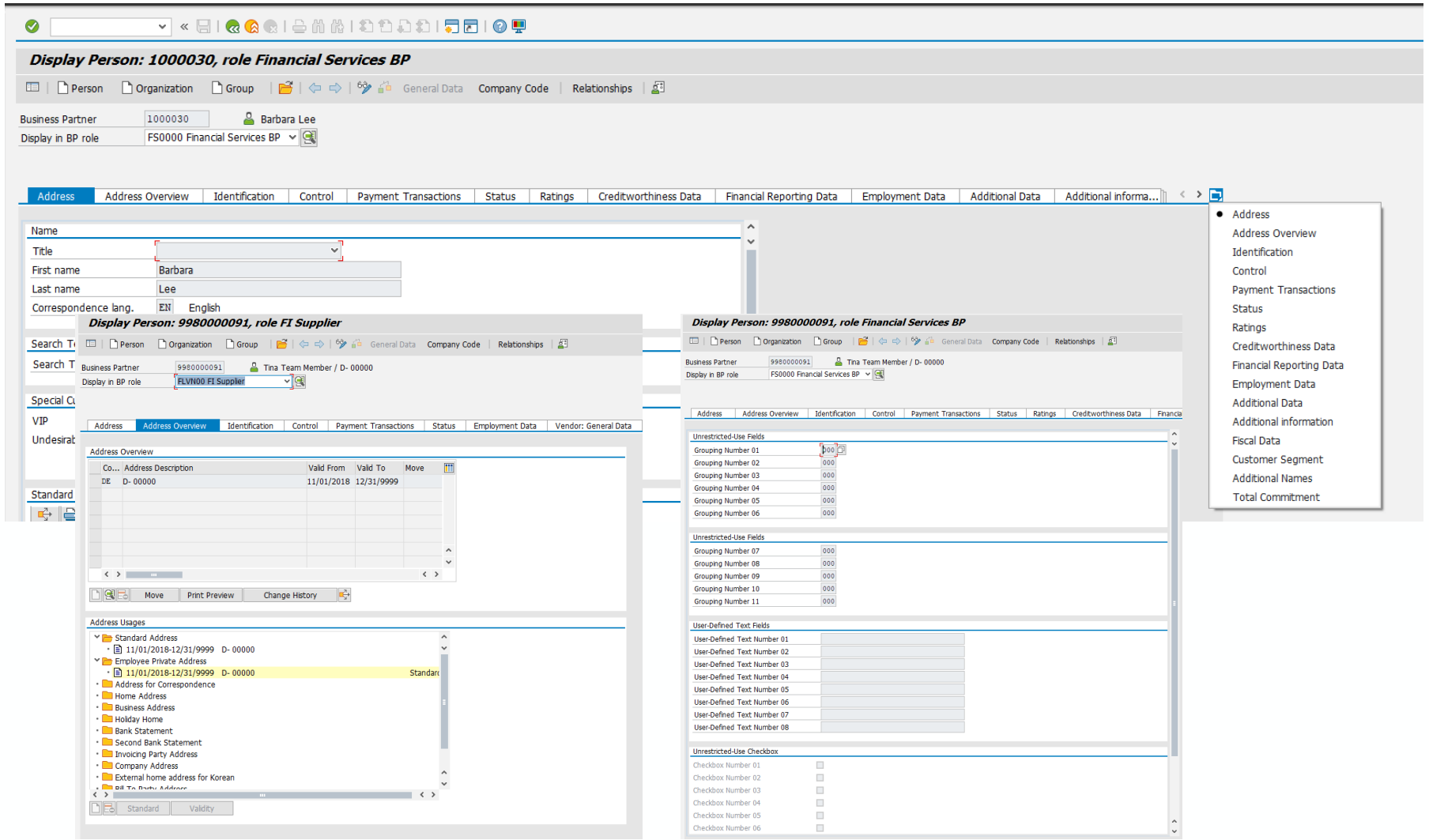
Customer Vendor Integration to Business Partners

- Conversion via CVI is highly technical and many adaptations may need to happen in the system for the project to be successful
  - Number range management
  - Cleansing and synchronization of master data objects into Business Partner objects
  - Code changes to adopt Business Partner functionality

Customer Vendor Integration to Business Partners

- Conversion also requires screen customization as the BP transaction can have **MANY** fields that your users will not need.
  - End user involvement in this process is encouraged as this change in particular can be overwhelming for users who have been using the previous transactions for a long time.
- Involvement of your security team early should be a priority as restricted fields in previously used transactions may no longer be restricted to the same users unless roles are adjusted.

Customer Vendor Integration to Business Partners



Conversion to New Asset Accounting

- New Asset Accounting was introduced in SAP ECC 6.0 EHP7
- Conversion to New Asset Accounting is also required for upgrading to S/4HANA
- SAP recommends using New Asset Accounting for all new implementations
- Several benefits that will make your accounting department happy (e.g. parallel valuation, real time depreciation postings)

Credit Management

- Conversion to FSCM Credit Management is required for upgrading to S/4HANA.
- Introduced in ECC 6.0 EHP 2 as part of FSCM

Custom Code Analysis

- We must answer the following questions
  - For a migration to HANA, will my custom code run on HANA?
  - How much effort will be required to remediate?
- When should I run the ABAP compatibility analysis?
  - You can run today – and should be included in your ABAP maintenance processes until you migrate to HANA

Custom Code Analysis

- For S/4HANA, will my custom code run on HANA?
  - Title: ABAP custom code migration for SAP HANA - recommendations and Code Inspector variants for SAP HANA migration
    Link: https://launchpad.support.sap.com/#/notes/1912445
- For S/4HANA, how will S/4HANA impact my custom code?
  - Title: SAP S/4HANA: Recommendations for adaption of customer specific code
    Link: https://launchpad.support.sap.com/#/notes/0002190420
  - Title: SAP S/4HANA: Content for checking customer specific code
    Link: https://launchpad.support.sap.com/#/notes/2241080

LESSONS LEARNED

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Common Problems

- Interfaces, interfaces, interfaces…
  - Unknown or undocumented interfaces writing to file system
  - ABAP code that references DB specific SQL functionality (EXEC SQL)
- Business Partner Conversion
  - Security
  - Customizations
- Don’t underestimate Fiori effort

Take the Session Survey.

We want to hear from you! Be sure to complete the session evaluation on the SAPPHIRE NOW and ASUG Annual Conference mobile app.

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

http://info.asug.com/2019-ac-slides

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Q&A

For questions after this session, contact us at bryan.parrott@benimbl.com and gabe.mensching@benimbl.com.

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