Project: ITQAN SAP Implementation-1C

SAP S/4 HANA OP 1511
Core team common understanding workshop

SAP PM and QM Module

Reference Documents:
Agenda

- S4 HANA Fundamentals
- Key Considerations
- SAP Best Practice & Key Innovations Overview
- Basics of SAP Fiori Applications
- SAP Activate Methodology Key Features
- PM and QM Module Simplification List
- Q & A
S4 HANA Fundamentals

Fundamental understanding

**SAP S4 HANA**: It is a new generation technologic Platform, replacing Suite on HANA (SoH) functionality with Simple Finance and Simple Logistic. It is the biggest product launch ever after year 2005, ECC 6.0. The new brand Logo looks as below.

What are deployment methods: SAP provides two options

1. **On Premises Edition** 🏡 at WFI we will use Method OP 1511 (Traditional licensing with customer control of deployment and maintenance)

2. **Cloud Edition** 🌤️ (Subscription licensing with deployment in the private cloud, maintained by SAP)
Key Considerations

1. This presentation is prepared based on S4 HANA various training material e.g. Simplification List, Feature Scope Description (FSD),

2. SAP Best Practice for SAP S4 HANA Germany baseline Version 2 (BP_OP_ENTPR_S4HANAX_DEV2)

3. For On Premise Edition 1511 at WFI Business point of view , PM and QM module no direct functional impact foreseen wrt SAP ECC to S/4 HANA solution.

4. The SAP QM and PM Subject Matter are expected to get peripheral understanding of some of transactions from integration perspective. Those identified points are covered in subsequent slides.

5. For ITQAN 1C Project with S4 HANA Platform, Tech M will use SAP Activate methodology which is replacing earlier ASAP 8 Methodology on Solution Manager 7.20 tool.
SAP BP for S/4 HANA OP 1511

SAP Best Practices for SAP S/4HANA
Scope Coverage in 1511: On-premise edition

SAP BEST PRACTICES FOR SAP S/4HANA ON PREMISE EDITION

Streamlined Procure to Pay
Supplier Information and Master Data
Sourcing and Contract Management
Operational Procurement
Inventory & Basic Warehouse Management
Invoice and Payables Management

Accelerated Plan to Product
Production Engineering and Planning
Manufacturing Operations
Inventory & Basic Warehouse Management
Product Development and Project Control
Maintenance Management

Optimized Order to Cash
Order and Contract Management
Inventory & Basic Warehouse Management
Receivables Processing

Enhanced Request to Service *
Service Master Data Management
Service Management
Service Parts Management
Service Agreement Management

Core Human Resources *
Cross Application Time Management
Employee Central Connectivity

Core Finance
Accounting and Financial Close
Cost Management and Profitability Analysis

Analytics

*) SAP Best Practices not in 1511 on-premise scope
# Accelerated Plan to Product

## SAP Best Practices for SAP S/4HANA

### Scope Coverage in 2015: On-premise edition, Accelerated Plan to Product

### SAP Best Practices for SAP S/4HANA On-premise Edition

<table>
<thead>
<tr>
<th>Streamlined Procure to Pay</th>
<th>Production Engineering and Planning</th>
<th>Production Operations and Execution</th>
<th>Inventory &amp; Basic Warehouse Management</th>
<th>Product Development and Project Control</th>
<th>Maintenance Management</th>
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<tbody>
<tr>
<td><strong>Accelerated Plan to Product</strong></td>
<td>Material Requirements Planning (S/4HANA)</td>
<td>Production Processing (S/4HANA)</td>
<td>Basic Warehouse Management (S/4HANA)</td>
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<td>Quality Management and Compliance</td>
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<td><strong>Optimized Order to Cash</strong></td>
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<td><strong>Enhanced Request to Service (*)</strong></td>
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<td><strong>Core Human Resources (*)</strong></td>
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<td><strong>Core Finance</strong></td>
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<td><strong>Analytics</strong></td>
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</table>

(*) SAP Best Practices not in 1511 on-premise scope
Key Innovations

Key Innovations 1511

- Procurement
  - Supplier Information and Master Data
  - Sourcing and Contract Management
  - Operational Procurement
  - Inventory and Basic Warehouse Management
  - Invoice and Payables Management

- Inventory Management
  - Material Valuation
  - Material Requirements Planning
  - Available to Promise
  - Capacity Planning
  - Order Mgmt. & Billing
  - Industry to Core

- Material Valuation
  - Production Engineering and Planning
  - Production Operations and Execution
  - Inventory and Basic Warehouse Management
  - Product Development and Project Control

- Material Requirements Planning
  - Order and Contract Management
  - Inventory and Basic Warehouse Management
  - Receivables Processing

- Available to Promise
  - Cross Application Time Management

- Capacity Planning
  - Service Master Data Management
  - Service Management
  - Service Parts Management
  - Service Agreement Management

- Order Mgmt. & Billing
  - Core Human Resources
  - Core Finance
    - Accounting and Financial Close
    - Cost Management and Profitability Analysis

- Industry to Core
  - Universal Journal & Central Finance

- Supplier Information and Master Data
- Sourcing and Contract Management
- Operational Procurement
- Inventory and Basic Warehouse Management
- Invoice and Payables Management
- Production Engineering and Planning
- Production Operations and Execution
- Inventory and Basic Warehouse Management
- Product Development and Project Control
- Order and Contract Management
- Inventory and Basic Warehouse Management
- Receivables Processing
- Cross Application Time Management
- Service Master Data Management
- Service Management
- Service Parts Management
- Service Agreement Management
- Universal Journal & Central Finance
SAP S/4HANA Enterprise Management

Maintenance Management

Road Map – Maintenance Management

Solution today

Planned innovations

Future direction

Cloud and On-Premise Edition:
- Enable end to end maintenance planning and execution functions using Webdynpro application with Fiori Launchpad

On-premise Edition:
- SAP Fiori apps for Employee - to create and track request for maintenance
- Object pages and overview SAP Fiori apps for Technical Objects and Notification

On-premise Edition:
- SAP Fiori app for Maintenance Technician to report and manage malfunction
- Object pages and overview SAP Fiori apps for Order, Order confirmation, Task List, Maintenance Plans, Measurement Points and Measurement Documents, Material
- Simplified reporting and monitoring of asset performance allowing insight to action
- Simplified Master Data
- Improved management of geographically distributed asset with integration of GIS solution with asset
- Geospatial enablement of asset management business processes
- Visual Asset Management
- Cloud-based applications for transactional and collaborative scenarios
  - Asset Information Network
Quality Management

How can SAP® solutions enable you to change the game?
With SAP solutions, manufacturers can run enterprise-wide, closed-loop quality management processes to prevent deficiencies, enable continuous process improvement, and sustain quality control. SAP solutions help manufacturers comply with manufacturing regulations, drive down operating costs, limit poor product visibility, and meet customer and stakeholder expectations.

What do SAP solutions help customers do?

**Quality engineering (SAP S/4HANA)**
- Help ensure the quality of products, processes, and services right from the start of the product lifecycle.

**Quality inspection (SAP S/4HANA)**
- Reduce costs and increase efficiency through high-quality operations.

**Quality improvement (SAP S/4HANA)**
- Achieve higher visibility of operations across plants and regions and improve processes at a lower cost.

Key facts

<table>
<thead>
<tr>
<th>+16%</th>
<th>Operating equipment effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>+16%</td>
<td>With product quality and operating metrics to predict quality issues*</td>
</tr>
<tr>
<td>-48%</td>
<td>Manufacturing cycle time (in days)</td>
</tr>
<tr>
<td>-48%</td>
<td>With the integration of inspection planning with other applications*</td>
</tr>
</tbody>
</table>

What are the benefits?

SAP solutions help companies attain quality management and compliance that exceed expectations, leading to:
- Greater cost savings and closed-loop inspection planning in compliance with industry standards
- More standardized, efficient, and streamlined quality processes – in the lab or on the shop floor
- Improved comprehensive oversight of operations, audit cycles, and quality improvement efforts

Why SAP?

SAP solutions connect processes for a variety of industry value chains by integrating horizontal lines of business with industry-specific solutions on premise, in the cloud, and through mobile devices.

Learn more

- Visit us online
- Benchmark your performance
- SAP Solution Explorer
SAP Fiori Application (1/2)

What is SAP Fiori

SAP Fiori is a set of apps, newly written by SAP, that address the most broadly and frequently used SAP functions, such as workflow approvals, information lookups, and self-service tasks. They provide simple and easy-to-use access across desktops, tablets, and smartphones. **SAP Fiori** is based on **SAP's** technology platform called NetWeaver.

Personalize and simplify the user experience (UX) for your SAP applications. Using modern UX design principles, SAP Fiori delivers a role-based, consumer-grade user experience across all lines of business, tasks, and devices.
SAP Fiori Application (2/2)

Broadly Fiori applications are of three types

**Transactional apps**, which allow users to perform SAP transactions on mobile devices as well as desktops. For instance, there is a transactional app for creating a leave of absence request and another for approving a purchase order.

**Fact sheets**, which display information about key business objects in SAP. For example, there is a fact-sheet app for viewing a central purchase contract; it allows users to also drill down into related entities, such as vendor contacts, items under contract, and terms.

**Analytical apps**, which allow users to display key performance measures and other aggregate information about the business.
QM Module Fiori apps

Quality Engineer is available Role and having various Fiori applications (11 Number) for Quality Management purpose.
Fiori Apps: Quality Notification

Quality Notification

Customer Complaint
454

General Information
- Notification Code: $520 - Release of installed note
- Notification Short Text: problem with component 1212314
- Material: 00000000000000002301 - Material 4
- Material Plant: 0001 - Werk 0001
- Notification Created On: 02.10.2013
- Notification Reported By:

Object Statuses (3)
- Outstanding task(s) exist(s) (OSTB)
- Notification (internal) (NOTI)
- Notification in process (NOPR)

Defects (3)
- Add powder, additional tasks required ! (0001)
- Rusty (0003)
- Wrong Color (0002)

Tasks (37)
- Subsequent delivery (0025)
- Rework (0006)
- Repair (0008)

Activities (4)
- Telephone call (0001)
- Telephone call (0002)
- Information for development (0005)
Fiori Apps : Inspection lot

Goods receipt inspection from production
040000000852 - Inspection all shaft

General Information
- Material: QS300 - Shaft
- Plant: 1000 - Werk Hamburg
- Created On: 01.04.2014 - 20:36:14

Object Statuses (10)
- Plan/specification assigned (PASG)
- Insp. characteristics created (CCTD)
- Sample calculated (CALT)

Inspection Operations (1)
- Final Inspection (00:10)

Quality Notifications (1)
- Material-Rel. Defect (555)
S/4 HANA has two roles for Maintenance

1) **Maintenance Technician** – Currently 10 apps
2) **Employee Maintenance** – Currently 1 app
Fiori Apps: Equipment

**General Information**
- **Category Description:** Machines (M)
- **Type:** Oil pump (1001)
- **Manufacturer:** DSD Manufacturer
- **Functional Location:** My Func Loc (AAAA-FL)
- **Superordinate Equipment:**
  - System Status: Installed
  - User Status: Equipment releas. for product: Scrap equ

**Maintenance Notifications (5)**
- ftests (10002134)
- ABCD (10002147)
- ABCDeeeeeeee (10002148)

**Maintenance Orders (2)**
- maintenance order (828623) – Outstanding
- ORDER: (828540) – Released

**Maintenance Items (5)**
- maintainace plan - equip-san (1092)
- maintainace plan - equip-san (1093)
- deadsa (1094)
Fiori Apps : Maintenance Notification

General Information
- Notification Type: Malfunction Report (M2)
- Maintenance Order: JMMNOT201310201510 (828401)
- Notification Date: 20.10.2013
- Breakdown:

Maintenance Tasks (2)
- Replace the sparepart – 88841
- Processing the original step – 88841

Maintenance Items (2)
- Damage (DAMAGE) – Dented
- Damage (DAMAGE) – Battered, Hammered

Maintenance Activities (2)
- General clean – 20.10.2013
- Adjust the rotation – 20.10.2013
SAP Activate Methodology Overview (1/3)

What is SAP Activate? High level description.

SAP Activate is a methodology used in S/4 HANA and is a unique combination of SAP Best Practices, Methodology, and SAP Guided Configuration delivered with a reference solution.

SAP Activate is a successor of the ASAP and SAP Launch (Cloud based Solution) methodology. In other words, SAP Activate Methodology is designed to support a broad coverage of SAP solutions starting with SAP S/4HANA.

Now, it is better to understand what the difference between these with SAP Activate is. Compared to ASAP and Launch, SAP activate has improvements in the below areas:

- Based on use of SAP Best Practices
- Reduced project lifecycle – only 4 phases
- Up to 10 key deliverables per phase, thus easier access to key guides and accelerators
- Blueprint activities replaced with solution validation
- Agile implementation as a default.
**SAP Activate Methodology Overview (2/3)**

- **Prepare**: Start with Best Practices by re-using knowledge assets and prebuild content
- **Explore**: Moving into pre assembly, rapid prototyping, solution validation workshops and delta backlog.
- **Realize**: In this phase iterative delta scope implementation and E2E integration testing
- **Deploy**: This is the final phased where the roll out is done
Business Value

- Faster, less service intensive initial implementation in the cloud or on-premise
- Rapid adoption of innovations throughout the entire product lifecycle
- Extensible framework for partners

Reduced Time-to-Value
(initial and ongoing)

Reduced Total-Cost-of-Ownership
(over total lifecycle cloud and on-premise)
What are changes related to QM /PM

• Material Master number existing field length increased from 18 to 40 characters, however at WFI we may not use all 40 character.
• Batch Management related create / Edit / Display Transaction codes MSC1/MSC2/MSC3 are replaced with MSC1N/MSC2N/MSC3N
• Vendor Master and Customer master will be known as Business Partner. Partner Type : Supplier = ‘Vendor Master’ for Quality Info Record
• The previous MB1* Transactions in ECC will get replaced with standard Transaction code MIGO
# PM and QM Simplification List

<table>
<thead>
<tr>
<th>Application Area</th>
<th>Title</th>
<th>Simplification Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logistics - PM</td>
<td>LIS in EAM</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>Download Data in MS Access out of List</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>Scheduling of Maintenance Plan</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>Mobile Asset Management (MAM)</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>Batch Input for Enterprise Asset Management (EAM)</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>Change Order and Operations</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - PM</td>
<td>WebDynpro Application for Maintenance Planner (&lt;= EhP4)</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>Results Recording</td>
<td>Functionality not available within SAP S/4HANA (no functional equivalent available)</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>ITS services in QM</td>
<td>Functionality not available within SAP S/4HANA (no functional equivalent available)</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>QM WEB Workplace (MiniApps) based on ITS Services</td>
<td>Functionality not available within SAP S/4HANA (no functional equivalent available)</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>Quality Notifications</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>Quality Management Information System (QMIS)</td>
<td>Not the target architecture - functionality still available</td>
</tr>
<tr>
<td>Logistics - QM</td>
<td>Quality Inspection Engine (QIE)</td>
<td>Not the target architecture - functionality still available</td>
</tr>
</tbody>
</table>
PM Process Simplifications List

- **LIS in Plant Maintenance**
  - No PMIS structure and reports are not available in target architecture.

- **Download Data in MS Access**
  - Download functionality is not available in target architecture

- **Scheduling of Maintenance Plan**
  - Mobile Asset Management (MAM) functionality is not available the target architecture

- **Mobile Asset Management (MAM)**
  - Mobile Asset Management (MAM) functionality is not available the target architecture.
    - However, the available functional equivalent is SAP Work Manager. This SAP Works manager is Syclo Works manager acquired by SAP.

- **Batch Input for Enterprise Asset Management (EAM)**
  - Currently there is no functional equivalent for enterprise asset management (EAM).

- **Change Order and Operations**
  - Currently there is no functional equivalent for Change Order and Operations related transactions (IW39, IW37, and IW49)

- **WebDynpro Application for Maintenance Planner (<= EhP4)**
  - Old WD Application covering Maintenance Worker, Planner, and Supervisor is not the target architecture

- **Enterprise Search**
  - Enterprise Search models are now replication free search models (using HANA DB tables instead) within SAP Enterprise Asset Management
  - Document search with attached document content
  - Document search with linked documents Search with Classification data
QM Process Simplifications List

Quality Notifications

- Currently no functional equivalent for Quality notifications in QM within SAP S/4HANA, this applies to quality notifications in general as well as defect recording within the inspection process.
- The old functionality will stay available until the new functionality is released. Migration tools will be provided.

Quality Management Information System (QMIS)

- The Quality Management Information System (QMIS) which is part of the Logistics Information System (LIS) and applies to evaluations for quality notifications as well as inspection lots and related data.
- The old functionality will stay available until the new functionality is released.

Quality Inspection Engine (QIE)

- The Quality Inspection Engine (QIE) which is part of EWM will be replaced by corresponding new functions in the future.
- The old functionality will stay available until the new functionality is released.
Questions & Feedback

- Do you have additional questions?
- Please do not forget to sign the attendance sheet
- Please fill in and return the feedback forms
Thank you

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