What’s new in SAP Enterprise Asset Management
ERP and S/4HANA

Dean Fitt, SAP
19 May 2017
What I’ll Cover

- Introduction
- Recent Innovations in ERP (ECC)
- S/4 HANA Maintenance Management
  - Fiori 2.0 as the new UI paradigm
  - Embedded Analytics
  - Material Availability
  - Multi-resource Scheduling (MRS)
- Customer Connection
- Getting Further Information
# SAP Enterprise Asset Management Value Map

## Capital Portfolio and Project Management
- Idea Management
- Portfolio Management
- Project Management
- Resource Management
- Project Connectivity

## Asset Operations and Maintenance
- Asset Strategy and Performance
- Asset Planning and Scheduling
- Maintenance Execution
- Mobile Asset Management

## Asset Network
- Asset Information Collaboration
- Asset Information Governance
- Predictive Maintenance and Service

## Environment, Health, and Safety
- Incident Management
- Health and Safety Management
- Environment Management
- Management of Change
- Maintenance Safety and Permit to Work
Asset Management - Overall Logical Architecture

SAP Leonardo Foundation
SAP Cloud Platform

SAP Leonardo Bridge

- SAP Asset Intelligence Network
- Asset Strategy and Performance Management (ASPM)*
- SAP Predictive Maintenance and Service (deployment option)
- SAP Work Manager (Agentry Cloud Edition)

...*

S/4HANA

- Master Data Governance (MDG)
- Maintenance Planning
- Resource Scheduling
- Master Data
- Analytics

...*

SAP HANA Platform

- Ext for Oil&Gas (planned)
- Ext for Utilities (planned)
- SAP Predictive Maintenance and Service
- ...
Recent Innovations in ERP 6.0
Enhancement Package 7
Enhancement Package 8
## Summary of Enhancements in ERP 6.0 (Plant Maintenance only)

<table>
<thead>
<tr>
<th>EHP0</th>
<th>EHP2</th>
<th>EHP3</th>
<th>EHP4</th>
<th>EHP5</th>
<th>EHP6</th>
<th>EHP7</th>
<th>EHP8</th>
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</thead>
<tbody>
<tr>
<td><strong>Continuous Improvements in PM</strong></td>
<td><strong>Continuous Improvements in PM</strong></td>
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<td><strong>Continuous Improvements in PM</strong></td>
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<td><strong>Continuous Improvements in PM</strong></td>
</tr>
<tr>
<td>Basic Order View</td>
<td>Maintenance Supervisor Role</td>
<td>Take Over / Hand Over of Technical Objects (TOHO)</td>
<td>Time Zone Support</td>
<td>Linear Asset Management</td>
<td>Linear Asset Management (continued)</td>
<td>Continuous Improvements in WCM</td>
<td>EAM UI Improvements</td>
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<tr>
<td>Maintenance Technician Role</td>
<td>Technical Object Logbook</td>
<td>Shift Notes / Shift Reports</td>
<td>Enhanced Authorizations</td>
<td>Work Permit Management</td>
<td>Worker Safety</td>
<td>EAM UI Improvements</td>
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<td>Compatible Units</td>
<td>Pool Asset Management</td>
<td>Inspection Rounds</td>
<td>Maintenance Worker Role</td>
<td>Visual Enterprise Spare Parts Selection</td>
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<tr>
<td>Maintenance Planner Role</td>
<td>PM Integration for Warranty Claims Management</td>
<td>EAM Generic Role</td>
<td>Visual Enterprise Job Instructions</td>
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<tr>
<td>Maintenance Event Builder</td>
<td>Rotables Management</td>
<td>Operational Account Assignment</td>
<td>Business Context Viewer (CHIPS)</td>
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<tr>
<td>Hierarchical Task Lists</td>
<td>Shift Notes / Shift Reports (continued)</td>
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</tbody>
</table>

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## EHP7 Enhancements – Functionality Enhancements

<table>
<thead>
<tr>
<th>Product Feature</th>
<th>Version</th>
<th>Business Function</th>
<th>Support Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counter for Rows in List Reports (ALV)*</td>
<td>EHP7</td>
<td>Note 2111087</td>
<td>0007</td>
</tr>
<tr>
<td>Pre-printing and Re-printing Orders*</td>
<td>EHP7</td>
<td>LOG_EAM_CI_7</td>
<td>0007</td>
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<tr>
<td>Deactivation of Codes*</td>
<td>EHP4</td>
<td>LOG_EAM_QM_CODE_DEACT</td>
<td>0017</td>
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<tr>
<td>Changing the Notification Type*</td>
<td>EHP7</td>
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<tr>
<td>Creating Follow-on Order</td>
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<tr>
<td>Documents and Long Texts of Notification Codes</td>
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<td>LOG_EAM_SIMPLICITY_5</td>
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<tr>
<td>Improved UI for User Status at Header Level</td>
<td>EHP7</td>
<td>LOG_EAM_SIMPLICITY_5</td>
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<tr>
<td>Mass change of maintenance plans/items*</td>
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<td>LOG_EAM_CI_7</td>
<td>0007</td>
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<tr>
<td>After Event Recording</td>
<td>EHP7</td>
<td>Note 2129222</td>
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<tr>
<td>Setting User Status using Quick Views</td>
<td>EHP7</td>
<td>LOG_EAM_SIMPLICITY_6</td>
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</tr>
</tbody>
</table>

* Indicates part of customer connection 3
SAP EAM Plant Maintenance Improvements: Counting entries in List Reports (ALV)

40 List Reports for PM (ALV) e.g. list of orders, list of equipment etc. have the field name “Counter” added that contains value “1” for each row.

In the list header the total number of entries is displayed without any filters set by the user.

Using subtotals to sum on this field, the number of rows in the reports can be displayed.
### SAP EAM Plant Maintenance Improvements:

### Counting entries in List Reports

<table>
<thead>
<tr>
<th>Count. Order</th>
<th>Type</th>
<th>Bsc start</th>
<th>Revision</th>
<th>Sched Fin.</th>
<th>Description</th>
<th>MAT</th>
<th>P...</th>
<th>Priority</th>
<th>Plant</th>
<th>Main VncGrp</th>
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<td>4004007</td>
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<td>06.06.2016</td>
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<tr>
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<td>05.08.2016</td>
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<td>05.08.2016</td>
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<tr>
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<td>04.08.2016</td>
<td></td>
<td>002</td>
<td>PM1</td>
<td>1100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Number of entries (without filtering): 322**

40 List Reports for PM (ALV) e.g. list of orders, list of equipment, etc. have the field name “Counter” added that contains value “1” for each row.

In the list header the total number of entries is displayed without any filters set by the user.

Using subtotals to sum on this field, the number of rows in the reports can be displayed.
SAP EAM Plant Maintenance Improvements:
Mass Change Orders: Cancel “technical completion” and “do not execute”

With IW38 and IW37N one can perform mass change of objects.

With this new functionality two more system status namely “Do not Execute” and “Cancel Technical Completion” can be updated for multiple objects.

These enhancements simplify data entry and improving productivity.
SAP EAM Plant Maintenance Improvements:
Mass Change Orders: Cancel “technical completion” and “do not execute”
SAP EAM Plant Maintenance Improvements:
Enable shop papers of PM order to be printed before/after order release

In standard process, order documents could be printed only when the order is in release state and order cannot be printed with “Created” and “Technically Completed” Status. With this new feature this restriction is removed and orders can be printed when orders has system status “CRTD” and/or “TECO”. This provides a distinctive print status indicating “Printed before release” and “Printed after”. This function can be activated in customizing for each type of print documents, order type and user status.

**Business Benefit:**
Better traceability of the shop paper and possibilities produce shop papers during the compliance audits.
In the standard process, order documents could be printed only when an order was in the status “released,” and an order couldn’t be printed with status “created” or “technically completed.”

With the new feature, this restriction is removed, and orders can be printed when in system status “CRTD” or “TECO.”

This provides a distinctive print status indicating “printed before release” or “printed after.”

This function can be activated in customizing for each type of print document, order type, or user status.
SAP EAM Plant Maintenance Improvements: Create order as a follow on order

When an order is created as follow on order, its document flow will indicate the original order with reference to which the new order was created.

It is also possible to create follow on order while creating time confirmation using IW41.

These enhancements enable better traceability of jobs and additional work that may be identified during the preventive/planned maintenance activities.
SAP EAM Plant Maintenance Improvements
Order Document Flow: Follow-On Order

<table>
<thead>
<tr>
<th>On</th>
<th>Status</th>
<th>Descriptrn</th>
<th>DcT</th>
<th>Work ctr</th>
<th>Plant</th>
<th>Start</th>
<th>End</th>
<th>Ctrl Key</th>
<th>Equipment</th>
<th>Func Loc</th>
<th>User stat.</th>
<th>Al</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.08.2015</td>
<td>Confirmed Pre-costed Settlement rule created Close</td>
<td>Repair Pump PM01 STB-M P001</td>
<td>21.08.2015</td>
<td>21.08.2015</td>
<td>DF-1000-DF01 DF-B01-1</td>
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<td></td>
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</tr>
<tr>
<td>12.10.2016</td>
<td>Released Pre-costed Object created Material commit</td>
<td>Repair Pump PM01 STB-M P001</td>
<td>13.10.2016</td>
<td>13.10.2016</td>
<td>DF-B01</td>
<td>0</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SAP EAM Plant Maintenance Improvements: Mass change of maintenance plans and maintenance items

The list reports for maintenance plans and items have been enhanced to allow possibilities to perform mass changes on identified fields.

Operational steps are similar to mass change of orders.

A special authorization object has been provided to ensure that such changes are performed by only informed experts.
SAP EAM Plant Maintenance Improvements:
Mass change of maintenance maintenance items
SAP EAM Plant Maintenance Improvements:
Mass change of maintenance plans/maintenance item

The list reports for maintenance plans and items IP15 and IP17 have been enhanced to allow possibilities to perform mass changes on selected fields.

Operational steps are similar to mass change of orders.

A special authorization object has been provided to ensure that such changes are performed by only informed experts.

These enhancements simplify data management, efficiency and quality in master data.
SAP EAM Plant Maintenance Improvements: Change notification type

Currently Notification type changes are restricted for certain situation. It is now possible to change these restrictions so that notification types can be changed in all the cases. In addition the non compatible details like priority codes, partner roles catalogue will be removed.

These enhancements enable clean consistent transactional data and improves the history analysis.
SAP EAM Plant Maintenance Improvements: Change notification type

Currently Notification type changes are restricted for certain situation.

These restrictions will be removed and Notification type will be changed in all the cases additionally the non compatible details like priority codes, partner roles catalogue will be removed.
SAP EAM Plant Maintenance Improvements:
Change the Notification Type
SAP EAM Plant Maintenance Improvements: Deactivate Notification Codes

Codes assigned to various catalogue (e.g. Defect, Cause, Activity, Object Part etc.) could be deleted only when it is not used in any active notification that could be used for reporting. Large efforts are required to delete these codes. Any inappropriate changes would result in unacceptable inconsistency in the reporting.

**Business Benefit:**
Improved data collection from technicians and direct impact on reliability analysis using defect, cause and activity codes.

**Release:**
ECC 6.0 EhP7 SP08
## EHP8 Enhancements

<table>
<thead>
<tr>
<th>Product Feature</th>
<th>Version</th>
<th>Support Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhancements for Materials in the Order (Web UI)</td>
<td>EHP8/7</td>
<td>2/11</td>
</tr>
<tr>
<td>Enterprise Search in the Input Help (Web UI)</td>
<td>EHP8/7</td>
<td>2/11</td>
</tr>
<tr>
<td>Master Data Information Center</td>
<td>EHP8/7</td>
<td>2/11</td>
</tr>
</tbody>
</table>
New features offered within the Master Data Information Center include:

- technical object list with mass change possibilities
- maintenance plans/items
- ability to search for master data through “Enterprise search” functionality
- ability to configure the layout of the information center
Enterprise Search in the Input Help

Enhanced Search functionality includes:

- refine searches on typical criteria for SAP EAM, such as maintenance plant, order type, notification type, object type etc.
- Additional information in the result details
- use the sophisticated search in the value help of objects from SAP EAM
What’s New in S/4 HANA Asset Management

Maintenance Management
SAP S/4HANA 1610
Asset Management

SAP S/4HANA FINANCE

- Financial Services Network

SAP S/4HANA HUMAN RESOURCES

- Core human resources and payroll
- Talent management
- Time and attendance management
- Human capital analytics

SAP SuccessFactors
SAP Fieldglass

SAP S/4HANA SOURCING & PROCUREMENT

- Supplier collaboration
- Business network
- Guided End User Buying
- External Workforce Management

SAP Ariba
SAP Fieldglass

SAP S/4HANA MANUFACTURING PROCUREMENT

- Manufacturing Integration and Intelligence
- Manufacturing Execution System
- Quality Issue Management
- Visual Enterprise

SAP S/4HANA MANUFACTURING

- Constrained production planning
- Production scheduling
- Production orchestration and execution
- Quality management and compliance

SAP S/4HANA SUPPLY CHAIN

- Production Planning & Scheduling
- Advanced ATP with allocations and back order processing
- Inventory and basic warehouse management
- Material valuation
- Basic ATP

SAP S/4HANA SERVICE

- Additional capabilities for Asset Operations and Maintenance
- Environment, Health, and Safety

SAP S/4HANA SUPPLY CHAIN

- Product development and project control
- Variant Configuration
- Document Management

SAP S/4HANA RESEARCH AND DEVELOPMENT

- Engineering Collaboration
- Authoring Tool Integration
- Visual Interaction Services

Digital Core

- Order and contract management

SAP S/4HANA SALES

- Sales planning and performance management (TDM)

SAP Hybris
Cloud for Sales

- Service management
- Service master data management
- Service parts management
- Service agreement management

SAP HYBRIS
Cloud for Service

- Billing and revenue innovation management (BRIM)

SAP HYBRIS
Cloud for Marketing

- Maintenance Management

SAP S/4HANA MARKETING AND COMMERCE

- Asset Network
  - SAP Master Data Governance
  - SAP Predictive Maintenance and Service
  - SAP Asset Intelligence Network
- Mobile Asset Management

SAP S/4HANA ASSET MANAGEMENT

- Engineering Collaboration
- Authoring Tool Integration
- Visual Interaction Services

INDUSTRIES

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SAP S/4HANA ASSET MANAGEMENT

S/4HANA ENTERPRISE MANAGEMENT
- Maintenance Management

S/4 HANA PRODUCTS
- MRS / Resource scheduling for S/4HANA
- Work Clearance Management (WCM)
- Linear Asset Management (LAM)

LINE OF BUSINESS EXTENSIONS
- SAP Master Data Governance (MDG-EAM)
- SAP Predictive Maintenance and Service (PDMS)
- SAP Asset Intelligence Network (AIN)
- Mobile Asset Management
SAP S/4HANA ASSET MANAGEMENT

S/4HANA ENTERPRISE MANAGEMENT
- Maintenance Management

S/4 HANA PRODUCTS
- MRS / Resource scheduling for S/4HANA
- Work Clearance Management (WCM)
- Linear Asset Management (LAM)

LINE OF BUSINESS EXTENSIONS
- SAP Master Data Governance (MDG-EAM)
- SAP Predictive Maintenance and Service (PDMS)
- SAP Asset Intelligence Network (AIN)
- Mobile Asset Management

DIGITAL CORE

PRODUCTS

SUITE
Asset Management - Overall Logical Architecture

SAP Leonardo Bridge

SAP Asset Intelligence Network
Asset Performance and Strategy Management (APSM)*
SAP Predictive Maintenance and Service (deployment option)
SAP Work Manager (Agentry Cloud Edition)

SAP Leonardo Foundation
SAP Cloud Platform

SAP Asset Intelligence Network
SAP Predictive Maintenance and Service
SAP Work Manager (Agentry Cloud Edition)

SAP HANA Platform
Ext for Oil&Gas (planned)
Ext for Utilities (planned)
SAP Predictive Maintenance and Service

S/4HANA
Master Data Governance (MDG)
Maintenance Planning
Resource Scheduling
Master Data
Analytics

*planned

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What is SAP S/4HANA?

SAP Fiori user experience = higher productivity
– intuitive on all devices, mobile first
– proactive decision-making support

Instant, real-time insight for better decisions
– in-memory technology
– embedded analytics

THE NEXT GENERATION BUSINESS SUITE FOR A DIGITAL WORLD.

Reinvented processes for higher performance
– maximized throughput and speed
– native integration to SAP solutions

Simplified Architecture for lower TCO
– lean data footprint
– cloud deployment for higher flexibility
S/4HANA 1610

Maintenance Management – Highlights

– With S/4HANA 1610 **Maintenance Management adapts FIORI Capabilities** to boost user experience
– The role of a Maintenance Planner as well as Maintenance Technician generated a seamless integration and unified user experience between new FIORI based and non FIORI based user interfaces
– Leveraging the **new capabilities of search** based on HANA provides fast and simple access to one or multiple objects within FIORI Search, Information Center as well within the applications value help
– The **FIORI App Request Maintenance** allows employees to easily create maintenance requests using mobile devices
– Ability for the Technician to record unplanned Jobs
– Ability for the Planner to create an Task List out of an Maintenance Order
– Large number of improvements to simplify data entry using copy functions to create maintenance order and maintain information for each operation.
– Creating new info sources enabling **real time analysis of maintenance orders and notifications**
S/4HANA 1610

Maintenance Management – UX Concept

One Entry Point
• Access the relevant Maintenance apps from the FIORI Launchpad

Domain specific info and actions
• Users will quickly get an overview of what needs their attention with Work Lists and can trigger quick actions

Information Center
• Role based App for getting an overview about the different objects search, list and navigation capabilities to the different objects

Enter details and explore in depth
• All related Web Dynpro App’s have been visual harmonized supporting end to end process in an visual harmonized UI
New App Types with SAP Fiori 2.0

**Overview Page**
aggregates domain-specific information and offers quick actions

**List Reports**
allow users to filter and work with large amounts of data

**Object Page**
shows all facets of one business object
Navigating from Launchpad to Apps
Options for the casual or expert user

SINGLE ENTRY POINT
- SAP Fiori Launchpad is the single entry point to access all apps

DOMAIN-SPECIFIC INFORMATION AND ACTIONS
Overview Pages (optional)

ENTER DETAILS & EXPLORE IN DEPTH
Fiori Apps, Classic Apps

Introducing the Fiori Overview Page
SAP S/4HANA 1610 Asset Management: Fiori Apps*

Transactional (incl. Web-Dynpros)
- Confirm Jobs
- Display Job List
- Display Maintenance Item (Planner)
- Display Maintenance Item (Technician)
- Display Maintenance Order
- Display Maintenance Plan
- Display Master Data Information Center (Planner)
- Display Master Data Information Center (Technician)
- Display Measuring Point
- Display Task List (Technician)
- Display Technical Object
- Find Maintenance Notification NEW
- Find Maintenance Order NEW
- Find Maintenance Order and Operation NEW
- Find Maintenance Order Confirmation NEW
- Find Technical Object NEW
- Manage Maintenance Plan and Item List
- Manage Notification List
- Manage Order List
- Manage Orders and Notifications in Information Center
- Process Linear Reference Pattern
- Process Measuring Point
- Process Technical Object
- Request Maintenance NEW

*Exemplary overview. For full and most current list see Fiori Apps Library
One Entry Point
Access the relevant Maintenance apps from the FIORI Launchpad

Launchpad features:
- Enterprise Search
- Tiles based on role(s) and can be adapted
- List Views (Find)
- Maintenance Request
- Information Centers
- Favorites
- Comprehensive list of EAM transactions available
SAP S/4HANA Search
SAP HANA enterprise search in SAP Fiori Launchpad

SAP HANA enterprise search is a powerful search solution that provides full-text search, navigation, and access to structured and unstructured information across multiple systems.

Key capabilities
- Full-text search for business objects and documents
- Results ranking along business criteria, e.g. user’s organizational context
- Access to information across multiple systems
- Direct navigation into source systems/transactions
- Integrated support for SAP authorization concepts

Benefits
- Efficient information access and user-centric discovery through a simple user interface
- Take advantage of real-time data for decision making
- No additional costs or 3rd party systems
Search features:
- All objects > filter
- Selected object
- Save results as a tile
Domain specific info and actions
Find objects and launch follow-on actions
Object Page
Technical Object

DF-1000-DF01 Electric pump 001

Category: Machines (M)
Type: Crane
Class: Pump Class (STBPUMP)

General Information
Description: Electric pump 001
Long Text:

System Status
Status: INST
Text: Installed

User Status with Status Number
STATUS NUMBER: Status Profile:
Status: Text:

Related Actions
Change Technical Object
Change Material Serial Number
Create Technical Object
Create Material Serial Number
Create Maintenance Request
Create Unplanned Job
Deploy Technical Job
Deploy Equipment (E53)
Deploy Technical Object (E53)
Asset Viewer
Display Material Serial Number
Transfer Data
Transfer Data from Equipment
Transfer Data from Functional Location
Fiori Object Page for Technical Objects

Related Apps

- Change Technical Object
- Change Material Serial Number
- Create Technical Object
- Create Material Serial Number
- Create Maintenance Request
- Confirm Unplanned Job
- Display Technical Object
- Display Technical Object (IL03)
- Asset Viewer
- Display Material Serial Number
- Transfer Data
- Transfer Data from Equipment
- Transfer Data from Functional Location
SAP S/4HANA Search

Sophisticated search capabilities are essential for large amounts maintenance objects

- **Key capabilities**
  - Results ranking along business criteria, e.g. user’s organizational context
  - Flexible Refinement e.g. by attributes like Object type, Responsible Work Center

- **Benefits**
  - Efficient information access
  - Improved Usability

![Search Diagram]

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SAP S/4HANA Search
Sophisticated search capabilities are essential for large amounts maintenance objects

- **Key capabilities**
  - Navigation capabilities to other intents

- **Benefits**
  - Efficient information access
  - Improved usability
Fiori App to Request Maintenance
SAP S/4HANA on-premise edition 1511 FPS02 and 1610

– Managing Maintenance Request using SAP FIORI
  ▫ Simplified user interaction for occasional users to raise a request with minimal data entry
– Enable users to easily search and identify technical objects including refinement using
  ▫ type ahead search
  ▫ barcode
– Identify location of technical objects using
  ▫ free text
– Template based data entry for increasing data quality
– Tracking the maintenance request across its lifecycle
– Simplified attachment of pictures using capabilities of mobile devices
SAP S/4HANA Maintenance Management
Role Maintenance Planner

**Order Notification Information Center**
- One entry point for Planner to get an Overview
- Search on Order and Notification data
- Personalized List
  - Mass Changes
  - Setting Status
- Navigation to Order and Notification

**Benefits**
- All relevant information on his fingertips
- Efficient information access
- Improved Usability
SAP S/4HANA Maintenance Management
Role Maintenance Planner

Technical Object Create / change / display

- Maintenance of Technical Object attributes
- Quick Views enabling end user to get an overview of depending object
- Integration of Asset Viewer to easily identify dependent Object like
- End User personalization capability
- Thumbnail Integration
- Indication if documents are attached
SAP Fiori Apps Reference Library

New HTML5/UI5 Fiori apps
- Repository of all released apps
- Search and Filters
- App descriptions with screenshots
- Implementation details per app
- Data export for configuration task-lists
- Publically available
- Relevance and Readiness Analysis

www.sap.com/fiori-apps-library
S/4 FIORI Visual Harmonization

Visual Harmonization will provide a Fiori-based User experience for Dynpro-based UIs for SAPGUI for HTML and ABAP Webdynpro. SAPGUI for Windows is now available with 7.50.
SAP Fiori Visual Theme for Classic Applications

One visual design “Belize” for all Fiori applications: same colors, control design and form factor

- Text toolbar instead of Icons
- Right-aligned labels
- New icons
- Condensed table rows

### SAP Fiori Visual Theme for Classic Applications

<table>
<thead>
<tr>
<th>General</th>
<th>Internal</th>
<th>External</th>
<th>Dates</th>
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</table>

Merged Fiori header
Tab strips with SAP Fiori visualization
New footer with processing and closing actions, e.g. “Save”
S/4 FIORI Visual Harmonization
SAP GUI for Windows 7.50
S/4 FIORI Visual Harmonization
SAP GUI for Windows 7.50
SAP GUI HTML transactions
IE03 – same Fiori look and feel
SAP S/4HANA – embedded real-time analytics
Foundation for new class of applications

SAP NetWeaver platform

ABAP layer

SAP HANA database layer

SAP HANA views (virtual data model)
Core data services

Physical tables

SAP S/4HANA applications

Operational reporting

Applications (including insight-to-action)
Query tools

Zero latency!
SAP S/4HANA Embedded Analytics

Solution Overview

- **SAP S/4HANA Embedded Analytics:**
  - Delivers contextualized analytics for SAP S/4HANA embedded within the context of work and tailored to business needs and roles
  - Consists of Virtual Data Models (based on CDS Views) covering role based operational reports for lines of business
  - Comes with tools for Business Users, Power Users and Developers to analyze data and manage the lifecycle of reports and KPIs
  - Is included in the SAP S/4HANA Enterprise Management license and does not require a separate installation by customers
  - Integrates with SAP BusinessObjects BI, SAP Lumira, and SAP Cloud for Analytics all of which require a separate license
  - Does not replace SAP HANA Live, SAP Business Warehouse or any other SAP analytics offering but complements and integrates with them

*CDS: Core Data Service*
- Analyze how well a group of assets are performing and potential improvements that could result in reduced downtime of assets.
  - Damage analysis
  - Location Analysis
  - Maintenance order analysis
- These queries provide capabilities to perform an analysis of historical maintenance orders and notifications.
- Analytical queries come with a comprehensive list of attributes and important KPIs critical for asset performance analysis.
- Maintenance planners and technicians can use these queries to explore data in real time using capabilities of the SAP HANA platform and any of the standard BI tools.
Damage Analysis gives an overview of various parts that may have been damaged, various causes that may have been observed by technicians and activities they may have performed while maintaining an asset.

It allows user to evaluate these damages over a period time to validate maintenance strategies that may have been deployed for a particular asset or group of assets.

Detailed information is fetched directly from the notifications in real time without any intermediate aggregation store. CDS views ensure slicing and dicing of data and aggregating them in real time.
SAP S/4HANA Embedded Analytics

PM Queries 1610 release

Analyze how well a group of assets are performing and potential improvements that could result in reduced down time of assets.

The 3 queries for damage analysis, location analysis and maintenance order analysis provide capabilities to perform analysis of maintenance orders and notifications.

They have a have comprehensive list of attributes and important KPIs critical for asset performance analysis.

Maintenance planners and technician can use these queries to explore data in real time using the capabilities of HANA database and any of the standard BI tools.
SAP S/4HANA Embedded Analytics
PM Queries 1610 release

1. Maintenance Order Analysis Query: CIMNTORDTOCUBE/2CCMNTORDTOQUERY
2. Damage Analysis Query: 2CIDAMAGEANALYTCUBE/2CCDAMAGEANALYQRY
3. Location Analysis Query: 2CILOCANALYSISCUBE/2CCLOCANALYQUERY
Damage Analysis
Bex Ad Hoc Analysis
Material availability status for maintenance orders
Transaction: IW38A

- perform material availability check for multiple orders
- run the check as foreground or background jobs
Real-Time Maintenance Plan Scheduling
Transaction: IP30H

**Increase**
asset utilization and reduce unplanned asset downtime
- Maintenance scheduling consumes a great deal of time

**Maximize**
asset availability
- Manual and error-prone process of pre-selection of maintenance plans
- Potentially missing necessary objects for maintenance calls

**Up-to-Date**
scheduling information on maintenance operations
- High number of maintenance plans which need to be scheduled frequently

**ERP**

**With S/4 HANA**
- Accelerated mass transaction IP30H
- Instant analysis on top of transactions
- Pre-selection of due plans speeds up the process significantly
- Real-time analytics on all data including machine sensor information
- Schedule all maintenance plans within a specific timeframe
- Planning several times a day (instead of once a week) results in up-to-date scheduling information in maintenance operations
- Faster response times leads to more accurate maintenance scheduling

KPI improvements are high-level estimates, and will have to be validated for each customer situation

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Material availability status for multiple maintenance orders
Transaction: IW38A

- perform material availability check for multiple orders
- run the check as foreground or background jobs
- Updated information will reflect order status appropriately

Reinvented processes for higher performance
### Material availability status for maintenance orders

**Transaction: IW38A**

- Order status information is updated as required
- Perform material availability check for multiple orders
- Run the check as foreground or background jobs
- Updated information will reflect order status appropriately

#### Material Availability Check: Result List

<table>
<thead>
<tr>
<th>Order</th>
<th>Check Result</th>
<th>Res. Indicator</th>
<th>Status</th>
<th>Message Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>4004361</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Order 4004361 has missing parts</td>
</tr>
<tr>
<td>4004369</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004369 is successful with some warnings</td>
</tr>
<tr>
<td>4004349</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004349 is successful</td>
</tr>
<tr>
<td>4004301</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004301 is successful</td>
</tr>
<tr>
<td>4004309</td>
<td>Error</td>
<td>❌</td>
<td>Warning</td>
<td>No checking group is maintained for product AIO_5061, plant PL2 in mat master</td>
</tr>
<tr>
<td>4004289</td>
<td>Warning</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004289 is successful with some warnings</td>
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<td>4004221</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004221 is successful</td>
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<td>4004229</td>
<td>Information</td>
<td>✔️</td>
<td>Warning</td>
<td>Material availability check order 4004229 is successful</td>
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<td>4004209</td>
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<td>✔️</td>
<td>Warning</td>
<td>No material components exist</td>
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<td>Warning</td>
<td>No checking group is maintained for product AIO_5061, plant PL2 in mat master</td>
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<td>Warning</td>
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<td>Warning</td>
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<td>Warning</td>
<td>Material availability check order 4004120 has failed</td>
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<td>4004119</td>
<td>Error</td>
<td>❌</td>
<td>Warning</td>
<td>Material availability check order 4004119 has failed</td>
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SAP S/4HANA ASSET MANAGEMENT

S/4HANA ENTERPRISE MANAGEMENT
- Maintenance Management

S/4 HANA PRODUCTS
- MRS / Resource scheduling for S/4HANA
- Work Clearance Management (WCM)
- Linear Asset Management (LAM)

LINE OF BUSINESS EXTENSIONS
- SAP Master Data Governance (MDG-EAM)
- SAP Predictive Maintenance and Service (PDMS)
- SAP Asset Intelligence Network (AIN)
- Mobile Asset Management
SAP S/4HANA Product Portfolio for Scheduling and Staffing

- SAP Multiresource Scheduling option for SAP S/4HANA
  - Asset Maintenance
  - Field Services
  - Project Staffing
  - Add-on

- SAP Asset Management for resource scheduling
  - Asset Maintenance

- SAP Asset Management Cloud for resource scheduling

Road Map
SAP S/4HANA Asset Management for resource scheduling

Product Innovation

- On premise
- SAP S/4HANA core
- Availability January 2017
- SAP HANA optimized
- SAP Fiori User Experience
- Process simplified
- Annual Innovation Cycles
SAP S/4HANA Asset Management for resource scheduling
Plant Maintenance

Key Capabilities

- Monitor important KPIs for work centers
- Identify overload situations of work center
- Compare work center load balance
SAP S/4HANA Asset Management for resource scheduling
Solution Launch

Release 1610

Maintenance Planner

- Analysis of Work Center utilization
- Overview page with work center utilization
- Navigation to work order operation information
SAP Multi-resource Scheduling (MRS)
Efficient planning and scheduling across organizational boundaries

- **Scheduler workplace**
  - Graphical planning board with drag and drop
  - Manual and automatic planning
  - Visualization of clocking data
  - Alert monitor

- **Resources**
  - Employees and contractors, work center, equipment, and tools
  - Resource placeholders

- **Solution highlights**
  - Scheduling of both work orders and projects
  - Auto-leveling
  - Check material availability
  - Insight into production/machine availability
  - Mass-shifting and dispatching functionality
  - Bundling of work
  - Capacity planning, work center or aggregated people availability
  - Scheduling compliance monitoring
  - Ad hoc reporting with analytics solutions from SAP
  - Enterprise mobility: Integration with SAP Work Manager
  - SAP Fiori apps
SAP Multi-resource Scheduling, EAM scheduling view

Align with operations/production for machine availability for maintenance

SAP Multiresource Scheduling visualizes capacities and availabilities at a group level.

Furthermore, you see the maintenance activities by machine, and you can capture the machine availability for maintenance activities.
Sneak Preview
1709 release
Planned SAP Fiori App
Simplified Breakdown Maintenance for Maintenance Technicians

– End to end process to manage a malfunction or breakdown situation.
– Support user across entire process starting with report malfunction, plan resources, execute repair and ending with recording activities performed.
– App is designed to work on a mobile device enabling user to work while on the job, reducing number of round trips between work station and job location.
– Allows simplified access to historical information about various maintenance activities performed for same or similar assets, spare parts used and various documentation referred.
– Involving various teams for support.
– Recording of idle time and time required to complete a task.
– Recording failures observed and potential reasons that may have caused these failures to able root cause analysis.
Manage the End-to-End process “Respond to Breakdown”

Respond to Breakdown
- Supports Technician in the process of a breakdown situation from start to end in an responsive Design

Supported Process Steps
- Create Malfunction incl. upload of Pictures from Device
- Easy Planning of Resources needed
  - Work center
  - Material
- Time Confirmation
- Automatic time proposal for time spent
  - Start
  - Stop, with reason for unproductive time
- Record finding
- Root Cause indicator
- Completion of Malfunction Report
Manage the End-to-End process “Respond to Breakdown”

Respond to Breakdown
- Supports Technician in the process of a breakdown situation from start to end in an responsive Design

Supported Process Steps
- Create Malfunction incl. upload of Pictures from Device
- Easy Planning of Resources needed
  - Work center
  - Material
- Support the search for Material
  - Bill of Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Image</th>
<th>Quantity in BOM</th>
<th>In Stock</th>
<th>Quantity</th>
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<td>1 ST</td>
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<td>—</td>
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<td></td>
<td>4 ST</td>
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</table>
Manage the End-to-End process “Respond to Breakdown”

Respond to Breakdown
- Supports Technician in the process of a breakdown situation from start to end in an responsive Design

Supported Process Steps
- Create Malfunction incl. upload of Pictures from Device
- Easy Planning of Resources needed
  - Work center
  - Material
- Support the search for Material
  - Bill of Material
  - Historical Consumption
Manage the End-to-End process “Respond to Breakdown”

**Respond to Breakdown**
- Supports Technician in the process of a breakdown situation from start to end in an responsive Design

**Supported Process Steps**
- Create Malfunction incl. upload of Pictures from Device
- Easy Planning of Resources needed
  - Work center
  - Material
- Support the search for Material
  - Bill of Material
  - Historical Consumption
  - Free material search
  - Via Barcode

---

**Plan**
**Execute**
**Analyze**

![Lab Preview](image-url)
Break Down Analysis

KPI:
- Number of breakdown
- MTTR
- MTBR

Characteristic:
- Object Type
- ABC Indicator
- Work Center
- ....
SAP S/4HANA Search
Sophisticated search capabilities are essential for large amounts maintenance objects

SAP HANA enterprise search is a powerful search solution that provides full-text search, navigation, and access to structured and unstructured information across multiple systems.

**Key capabilities**

- Full-text search for business objects and documents
- Results ranking along business criteria, e.g. user’s organizational context
- Flexible Refinement e.g. by attributes like Object type, Responsible Work Center …. 
- Integrated support for SAP authorization concepts

**Benefits**

- Efficient information access and user-centric discovery through a simple user interface
- Take advantage of real-time data for decision making
Asset Operation and Maintenance
- Maintenance Planning and Execution end to end process fully supported in an renovated User Interface with a seamless look and feel and capabilities for a better user experience like
  - Object Pages
  - Quick Views
  - Information Center
  - Value help supported with Enterprise Search
  - Personalization capabilities
- Supporting the following roles
  - Maintenance Planner
  - Maintenance Technician
  - Employee Role supporting employees in request maintenance
- Information Center as the central entry point for different roles allowing the user to find objects easily and navigate to the objects of interest

Preventive Maintenance
- Maintenance Plan / Maintenance item
  - Combined list view of Maintenance Plan and Item
- Scheduling of Maintenance Plan

Reporting and Analysis
- New analytical views using CDS technology
  - Location Analysis
  - Damage Analysis
  - Order Analysis

Key Business Benefits
- Increased user productivity increased
- Is integrated with other functions like project,, materials, workflow… to cover the whole End-to-End Process
- All maintenance related data (master data and execution data ) information is centrally located (single source of the truth)

Mobile Asset Management
- SAP Work Manager available
- Asset Planning and Scheduling
  - MRS Add-on available
EAM Customer Connection
Cycle 4
EAM Customer Connection – Cycle 4
Overview of Project Timelines

- Submit improvement requests, subscribe for IR prioritization
- Provide feedback in development & support testing
- Provide feedback on productive use

Collect
- Collection of Improvement Requests
- Open project workspace 1.2.2016
  - Follows, moderates and comments on improvement request

Select
- Selection of improvement requests for implementation
- Close project workspace 15.4.2016
  - Detailed analysis and decision on implementation

Validate/Develop
- Improvements’ development (delivery as notes/SP)
- Development and delivery of notes and support packages

Use
- Productive use in customers’ systems
- Continuous improvement of the Customer Connection process

Customers

Kick-Off February 2, 2016
Final Call April 7, 2016
Selection Call ~ 22.07.2016
Delivery Call ~ Q1 2017
Further Delivery Calls Quarterly

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Summary

- 236 Requests
- 585 Comments
- 3406 Subscriptions
- 1131 Visitors
Summary

How to find additional information

Recap of key points
How customers get info on SAP Solutions and Products - Today

Business View/ Value Map Structure

Value Maps / Solution Explorer
sap.com/solutionexplorer

Solution Road Maps
sap.com/roadmaps

Innovation Discovery
sap.com/innovationdiscovery

Product Road Maps
sap.com/roadmaps

Product/ Functional View

Industry / Line of Business View
for Customers and Prospects

Solution / Portfolio View
for Customers

Online Innovation/ Product/Feature View
for Customers

Product Overview/ Feature View
for Customers

Innovation based

I want to understand for which business areas and business processes SAP offers solutions

I want to understand the specific value proposition for a solution and the future direction in terms of the business processes supported

I want to see the innovations and the related features for delivered and planned releases

I want to see the feature level plans for a product
Innovation Discovery
Searching for innovations that best fit your purpose

Select & Search & Personalize
- Selection options by industry and/or areas of responsibility
- Full-text search for innovation details and features
- Saved selections’ management
- Favorites’ management
- My systems overview

Using pre-defined selection tiles
- SAP has predefined innovation content for specific “hot topics” such as: SAP S/4 HANA, User Experience etc.
- You can define “my interests” using saved selections for quick access

System specific insights
- Using system-specific information: On basis of system landscape data as well as EWA data activated and published innovations are categorized for ready-to-use, high impact, etc.
Innovation Discovery
Access, Filter, Download and More

Features & Functions

1. Use filters, i.e. products, spotlights etc.
2. Access innovation information
3. Add innovations to your favorites
4. Save selections for quick access in the future and activate notification service
5. Download result list for further offline usage of innovation and feature information
Innovation Discovery
Innovations and Product Features in Detail

Features & Functions

- Description of Business context
- Key benefits of innovation
- Product features assigned with all content (i.e. screens, videos)
- Again download, share and add to favorite option
- Technical view, including
  - Software Product Version
  - Support/Feature Package Stack – if applicable
  - Business Function – if applicable
  - Software Component Version
  - Support Package - if applicable
- System Specific Usage
  - Based on EWA data
Innovations and Product Features in Detail

Result list for system specific view on category „High Business Impact“

Technical view on product features with system specific information per system chosen containing:

- Ready to use status
- Business Function
- Business Function status
- Measurement object (i.e. transaction code)
- count/ number of users
Recap of key points

- Recent Innovations in ERP 6.0

- S/4 HANA Maintenance Management
  - Fiori 2.0 as the new UI paradigm
  - Embedded Analytics with Core Data Services (CDS)
  - Multi-resource Scheduling (MRS)

- Customer Connection

- Getting Further Information
Thank you.

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