



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

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CUSTOMER

# 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

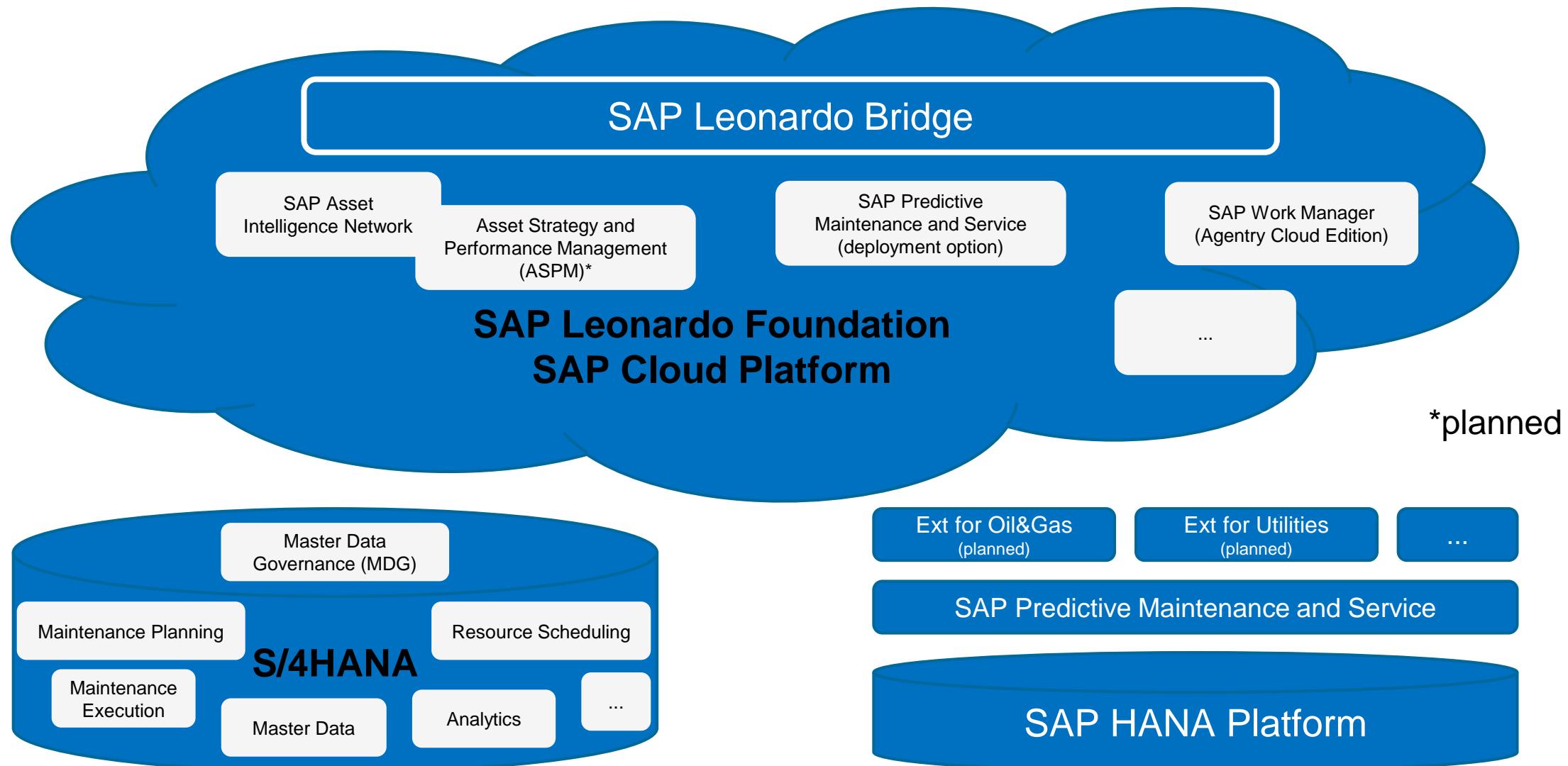
Health and Safety Management

Environment Management

Management of Change

Maintenance Safety and Permit to Work

# Asset Management - Overall Logical Architecture



# Recent Innovations in ERP 6.0

## Enhancement Package 7

## Enhancement Package 8



# Summary of Enhancements in ERP 6.0 (Plant Maintenance only)

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

# EHP7 Enhancements – Functionality Enhancements

Product Feature	Version	Business Function	Support Pack
Counter for Rows in List Reports (ALV)*	EHP7	Note 2111087	0007
Pre-printing and Re-printing Orders*	EHP7	LOG_EAM_CI_7	0007
Deactivation of Codes*	EHP4	LOG_EAM_QM_CODE_DEACT	0017
Changing the Notification Type*	EHP7	LOG_EAM_CI_7	0007
Creating Follow-on Order	EHP7	LOG_EAM_CI_7	0007
Documents and Long Texts of Notification Codes	EHP7	LOG_EAM_SIMPLICITY_5	0008
Improved UI for User Status at Header Level	EHP7	LOG_EAM_SIMPLICITY_5	0008
Mass change of maintenance plans/items*	EHP7	LOG_EAM_CI_7	0007
After Event Recording	EHP7	Note 2129222	0000
Setting User Status using Quick Views	EHP7	LOG_EAM_SIMPLICITY_6	0009

\* Indicates part of customer connection 3

# SAP EAM Plant Maintenance Improvements: Counting entries in List Reports (ALV)

The screenshot shows a SAP EAM application interface with a menu bar at the top. Below the menu is a toolbar with various icons. The main area is titled "Change Notifications: List of Notifications". A red box highlights the header cell "Number of Entries (without Filtering): 6.390". To the right of the table, a red border surrounds the "Counter" column, which contains numerical values representing the count of rows for each category.

Plnt	Type	Notification	Notif.date	Description	Counter	System status
M1					6.390	
M2					5.088	
M3					4.910	
P1					76	
S1					70	
S3					3	
Z1					15	
Z5					1	
ZA		10010231	07.10.2014		1	OSNO
ZS		10010230	07.10.2014	test	1	NOPR
					6	
		10010332	08.10.2014	Test ZS	1.197	OSNO
		10011686	28.10.2014	julian cocera		OSNO
		10011698	28.10.2014	test		OSNO
		10012012	30.10.2014			OSNO
		10012005	30.10.2014			NTCH OSNO
		10012003	30.10.2014			OSNO
0001					1	
0002					1	
	M1	10004212	07.04.2014		1	NOPR
AAPS					2	
CN01					5	
	M1	10004320	09.04.2014		4	NOPR ORAS
		10004248	08.04.2014			NOPR
		10004261	08.04.2014	Test MP - Notification		NOPR
		10004262	08.04.2014	Test MP - Notification		NOPR
	M2	10004188	07.04.2014		1	NOPR
D100					1	
HJR1					57	
OLEF					28	
PGHM					11	

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

Change PM Orders: List of Orders												
	Details	Change <> Display	Update	Graphic	Order	Long Text	Release Order	Complete (Technically)	Operations	More		
Number of entries (without filtering): 322												
	Count.	Order	Type	Bsc start	Revision	Sched.Fin.	Description	MAT	P	P...	Priority	Plant
		4004007	PM01	07.08.2016		07.08.2016		001	PM			1100
		4004006	PM01	07.08.2016		07.08.2016		001	PM			1100
		4004004	PM01	06.08.2016		06.08.2016		001	PM			1100
		4004003	PM01	06.08.2016		06.08.2016		001	PM			1100
		4004002	PM01	06.08.2016		06.08.2016		001	PM			1100
		4003983	PM01	04.08.2016		04.08.2016		001	PM			1100
		4003982	PM01	04.08.2016		04.08.2016		001	PM			1100
		4003980	PM02	04.08.2016		04.08.2016		002	PM			1100
		4004000	PM02	06.08.2016		06.08.2016		002	PM			1100
		4004001	PM02	06.08.2016		06.08.2016		002	PM			1100
		4003981	PM03	04.08.2016		04.08.2016		003	PM			1100
	11											_WC02
		4003602	PM01	24.07.2016		24.07.2016		001	PM			0001
		4003600	PM01	20.07.2016		20.07.2016		001	PM			0001
		4003440	PM01	18.07.2016		18.07.2016		001	PM			0001
		4004484	PM01	28.09.2016		28.09.2016	Test Data	001	PM			0001
		4004483	PM01	28.09.2016		28.09.2016	Test data test	001	PM			0001
		4004580	PM01	28.09.2016		28.09.2016	Test data test	001	PM			0001
		4003881	PM01	02.08.2016		02.08.2016	Aut voluptas neque nemo enim iusto ad. Q	001	1	PM	1-Very high	0001
		4003862	PM01	02.08.2016		02.08.2016		001	PM			0001
		4003660	PM01	24.07.2016		24.07.2016		001	PM			0001
		4003840	PM04	31.07.2016		31.07.2016	Test HANA	004	PM			0001
		4003705	PM04	25.07.2016		25.07.2016		004	PM			0001
		4003640	PM04	24.07.2016		24.07.2016	Test HANA 1	004	PM			0001
		4003706	PM04	25.07.2016		25.07.2016	Test HANA 1	004	PM			0001
		4003708	PM04	25.09.2016		25.09.2016	Test HANA 1	004	PM			0001
		4003800	PM04	14.08.2016		14.08.2016	Test HANA	004	PM			0001
		4003780	PM04	26.07.2016		26.07.2016	Test HANA	004	PM			0001
	16											0001
		4003960	PM01	03.08.2016		03.08.2016		001	PM			AAA

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.

The screenshot shows the SAP EAM IW38 interface for managing maintenance orders. A context menu is open over a list of orders, specifically focusing on the 'Completion' section. The menu includes options like 'Complete (Technically)', 'Cancel Technical Completion', 'Complete (Business)', 'Cancel Business Completion', and 'Do not execute'. The main table lists various maintenance tasks with columns for ID, Date, Description, Entered by, and Plant. Some rows are highlighted in yellow, likely indicating selected items for mass processing.

ID	Date	Description	Entered by	Plant
4011044	11.09.2014	PGHM		
4011182	13.08.2014	Order		
4011279	06.07.2014	d7zf9sdzf89s		
4011280	06.08.2014	d7zf9sdzf89s		
4011352	04.07.2014	Pump revision		
4011353	03.08.2014	Pump revision		
4011414	03.08.2014	PM boxer2		
4011604	26.08.2014		MEEST	0001
4012492	12.08.2014	Weichenwartung Bf. Belp	C5168441	0001
4014060	08.08.2014	Weichenwartung Bf. Belp	C5168441	0001
4009846	01.07.2014	Sample	MANJUNATHM	0001
4009881	02.07.2014	stb	BANTLIN	0001
4009882	02.07.2014	s	BANTLIN	0001
4011183	11.08.2014	STB test Docflow 1519	BANTLIN	0001
4011299	08.07.2014	saxm test	IP1020140819	0001
4011300	07.08.2014	saxm test	IP1020140819	0001
4011310	04.07.2014	Apply anti corrosion paint	IP1020140819	0001
4011311	03.08.2014	Apply anti corrosion paint	IP1020140819	0001
4011315	29.07.2014	Quickview Test Maintenance Plan	IP1020140819	0001
4011326	04.07.2014	Maintenance Plan Quickview	IP1020140819	0001
4011327	26.07.2014	Maintenance Plan Quickview	IP1020140819	0001
4011338	04.07.2014	Quickview Maintenance Plan	IP1020140819	0001
4011339	26.07.2014	Quickview Maintenance Plan	IP1020140819	0001
4011340	02.09.2014	Quickview Maintenance Plan	IP1020140819	0001
4011344	04.07.2014	test1woro	IP1020140819	0001
4011345	03.08.2014	test1woro	IP1020140819	0001
4012103	16.09.2014	archive test 3	BANTLIN	0001
4012126	17.09.2014		D054547	PGH...
4013109	29.09.2014	STB test Maintenance plan Mass change 2	BANTLIN	0001
4011361	21.08.2014	header short text	MEEST	0001
4011721	28.08.2014		MEEST	0001

# SAP EAM Plant Maintenance Improvements:

## Mass Change Orders: Cancel “technical completion” and “do not execute”

Change PM Orders: List of Orders

Count.	Order	Type	Bsc start	Revision	Sched.Fin.	Description	MAT	P	P...	Price
	4004002	PM01	06.08.2016		06.08.2016		001	PM		
	4003983	PM01	04.08.2016		04.08.2016		001	PM		
	4004003	PM01	06.08.2016		06.08.2016		001	PM		
	4003982	PM01	04.08.2016		04.08.2016		001	PM		
	4004004	PM01	06.08.2016		06.08.2016		001	PM		
	4004006	PM01	07.08.2016		07.08.2016		001	PM		
	4004007	PM01	07.08.2016		07.08.2016		001	PM		
	4003980	PM02	04.08.2016		04.08.2016		002	PM		
	4004000	PM02	06.08.2016		06.08.2016		002	PM		
	4004001	PM02	06.08.2016		06.08.2016		002	PM		
	4003981	PM03	04.08.2016		04.08.2016		003	PM		
11										
	4003440	PM01	18.07.2016		18.07.2016		001	PM		
	4003600	PM01	20.07.2016		20.07.2016		001	PM		
	4003602	PM01	24.07.2016		24.07.2016		001	PM		
	4003862	PM01	02.08.2016		02.08.2016		001	PM		
	4003881	PM01	02.08.2016		02.08.2016	Aut voluptas neque nemo enim iusto ad. Q	001	1	PM	1-Very high 0001
	4004580	PM01	28.09.2016		28.09.2016	Test data test	001	PM		
	4004483	PM01	28.09.2016		28.09.2016	Test data test	001	PM		
	4004484	PM01	28.09.2016		28.09.2016	Test Data	001	PM		
	4003660	PM01	24.07.2016		24.07.2016		001	PM		
	4003706	PM04	25.07.2016		25.07.2016	Test HANA 1	004	PM		

- Σ Subtotal (Ctrl+F1)
- Print (Ctrl+F8)
- CET (Ctrl+Shift+F3)
- Find (Ctrl+F)
- List >
- Edit >
- Goto >
- Order >
- Environment >
- Settings >
- System >
- Help >
- Cancel (Escape)
- GUI Actions and Settings >
- Complete (Technically) (Ctrl+Shift+F9)
- Cancel Technical Completion
- Complete (Business)
- Cancel Business Completion
- 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.

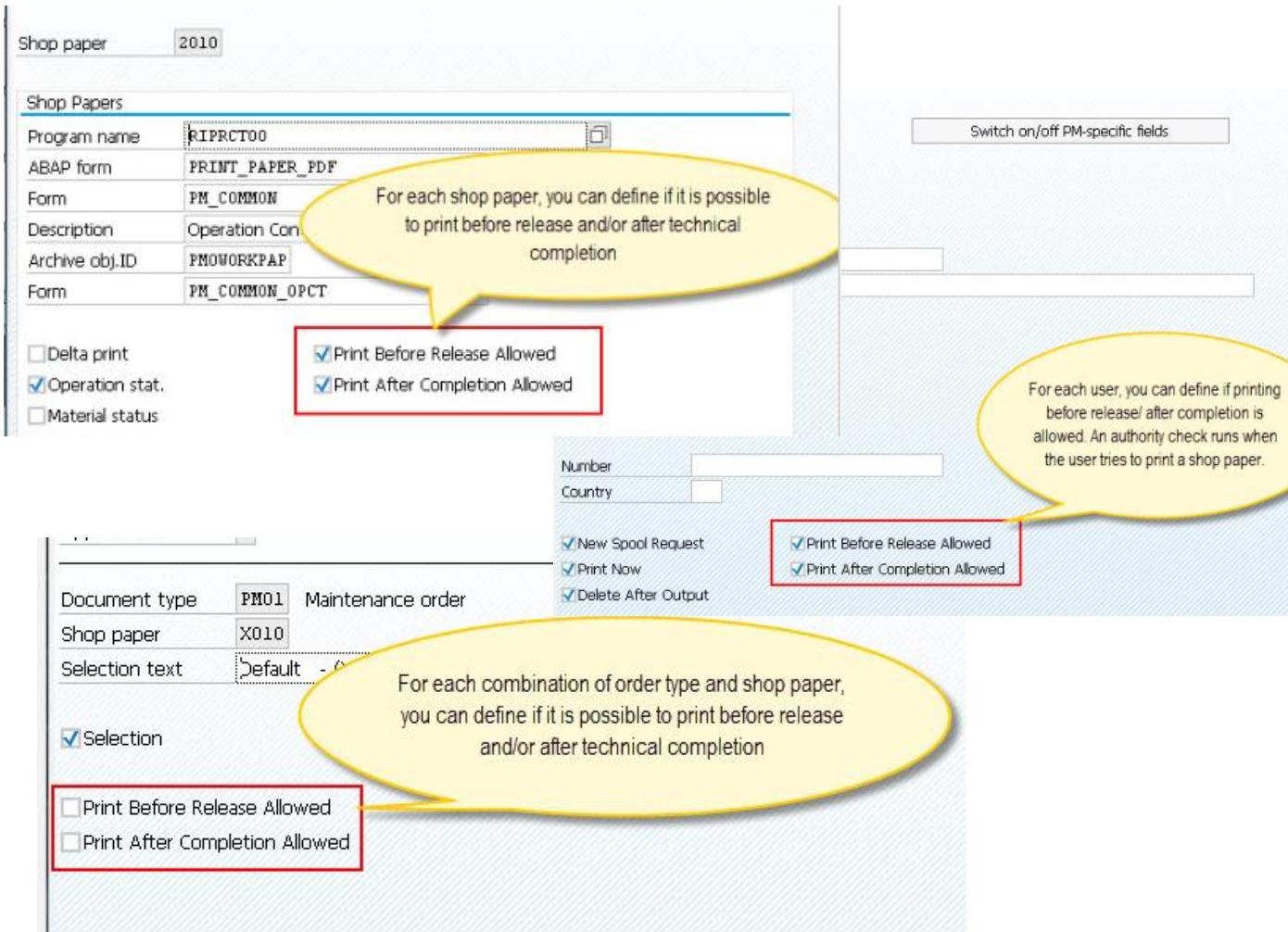
Vorschau Druckausgabe, Dokument 1 von 1						
ken und Archivieren		Archivieren				
29.09.2014	Preprint of Steuerkarte	C5168441	Kopie	100	Seite 1	
Auftrag	4012349		Auftragsart	PM01	Instandhaltungsauftrag	
Bezeichnung	Weichenstörung beheben				Endedatum	01.10.2014
Startdatum	29.09.2014					
Priorität						
Status	EROF KKMP NMVP VOKL					
Techn. Platz	SWAU-04-SP_____DKW434-ANT				Antriebe	
Equipment						
Baugruppe						
Standort					Raum	
IH-Planergruppe	010		IH-Planer	010	IH-Werk	0001
Leitarbeitsplatz	EAMT-E	0001	EAMT	Unit Test Workcenter - do not change	Wartungsplano	s.
Wartungsplan						
Revisionsnummer						

### Business Benefit:

Better traceability of the shop paper and possibilities produce shop papers during the compliance audits.

# SAP EAM Plant Maintenance Improvements:

## Enable shop papers of PM order to be printed before/after order release



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.

\* Order Type: PM01  
Priority: 3-Medium  
Func. Loc.: DF-B01  
Equipment:  
Assembly:  
Plant:  
Bus. Area:  
  
Reference  
 Create Follow-On Order  
Order: 4000568

	On	Status	Descrptn	Dct...	Work ctr	Plant	Start	End	Ctrl Key	Equipment	Func. Loc.	User stat.	Action
▼	21.08.2015	Confirmed Pre-costed Settlement rule created Close	Repair Pump	PM01	STB-M	P001	21.08.2015	21.08.2015		DF-1000-DF01	DF-B01-1	01	
▼	12.10.2016	Released Pre-costed Object created Material commit	Repair Pump	PM01	STB-M	P001	13.10.2016	13.10.2016			DF-B01	01	

# SAP EAM Plant Maintenance Improvements

## Order Document Flow: Follow-On Order

# 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.

The screenshot shows a SAP EAM application window titled "Change Maintenance Plan: Maint...". Below it is another window titled "Change Maintenance Item: Maint...". The main area displays a grid of maintenance items with columns for Maintenance Item, MaintenancePlan, Strat..., Maintenance item description, MAT, Type, and Mn.wk.ctr. A modal dialog box titled "Mass Maintenance: Field View" is open, containing a section labeled "✓ Item Data". It includes fields for "MaintActivityType" (with "New value" 003 and "Replace only" checked), "Order Type" (with "New value" PM03 and "Replace only" checked), and other settings like "New value" and "Replace only". At the bottom of the dialog are buttons for "Check" and "In the Background".

	Maintenance Item	MaintenancePlan	Strat...	Maintenance item description	MAT	Type	Mn.wk.ctr
	141	1		cdgtest	001	PM01	R-F00
	161	11		test			FIO_01
	162	12		test			FIO_01
	181	21		Check lubrication monthly			STB-M
	182	22		Order or notification - this is the ques			
	201	31		ein Wartungsplan	003	PM03	STB-M
	221	41		TEST			
	222	42		TEST2			
	241			test3			
	242			test3			
C	243			testing			
C	244	51		01			
B	245	52		Maintenance Plan Cl01			
	261	61	A	Expansion Heat dryer			
	262	62		Maintenance counter controlled			
	263	63		EZP_Betriebsstunden 01			
	281	71	A	Marc's Wartungsplan			
	282	71	A	Marc's Wartungsplan			
	283	72		Wartungspos. 1			
	284	73		Check Asset			
	285	74		1te Pos			
	286	Q2		QSTAB1 Room Temperature 21°			
	287	Q2		QSTAB1 Temperatur 20°			
	288	Q2		QSTAB1 Temperatur 30°			
	289	Q2		QSTAB1 Temperatur 40°			
	290	Q2		QSTAB1 Refrigerator 7°			
	291	75		simones 2.			
	292	76		sca			
	301	Q1		QSTAB1 Raumtemperatur 21°			
	302	Q1		QSTAB1 Temperatur 20°			
	303	Q1		QSTAB1 Temperatur 30°			
	304	Q1		QSTAB1 Temperatur 40°			
	305	Q1		QSTAB1 Kühlschrank 7°			
	321	81	A	ITEM1			

# SAP EAM Plant Maintenance Improvements: Mass change of maintenance maintenance items

SAP

Change Maintenance Item: Maint...

Details Change <-> Display Update Graphic Long Text Maintenance item Maintenance plans Cost estimate More Exit

A	S	Maintenance Item	MaintenancePlan	Strat...	Maintenance item description	MAT	Type	Mn.wk.ctr
		141	1		cgdtest	001	PM01	R-F00
		161	11		test			FIO_01
		162	12		test			FIO_01
		181	21		Check lubrication monthly			STB-M
		182	22		Order or notification - this is the ques	003	PM03	STBL-M
		201	31		ein Wartungsplan			
		221	41		TEST			
		222	42		TEST2			
		241			test3			
		242			test3			
C		243			testing			
C		244	51		01			
B		245	52		Maintenance Plan CI01			
		261	61	A	Expansion Heat dryer			
		262	62		Maintenance counter controlled			
		263	63		EZP_Betriebsstunden 01			
		281	71	A	Marc's Wartungsplan			
		282	71	A	Marc's Wartungsplan			
		283	72		Wartungspos. 1			
		284	73		Check Asset			
		285	74		1te Pos			
		286	Q2	QSTAB1	Room Temperature 21°			
		287	Q2	QSTAB1	Temperature 20°			
		288	Q2	QSTAB1	Temperature 30°			
		289	Q2	QSTAB1	Temperature 40°			
		290	Q2	QSTAB1	Refrigerator 7°			
		291	75		simones 2.			
		292	76		sca			
		301	Q1	QSTAB1	Raumtemperatur 21°			
		302	Q1	QSTAB1	Temperatur 20°			
		303	Q1	QSTAB1	Temperatur 30°			
		304	Q1	QSTAB1	Temperatur 40°			
		305	Q1	QSTAB1	Kühlschrank 7°			
		321	81	A	ITEM1			

Mass Maintenance: Field View

✓ Item Data

MaintActivityType New value 003  
 Replace only 001

Order Type New value PM03  
 Replace only

Check In the Background

# SAP EAM Plant Maintenance Improvements:

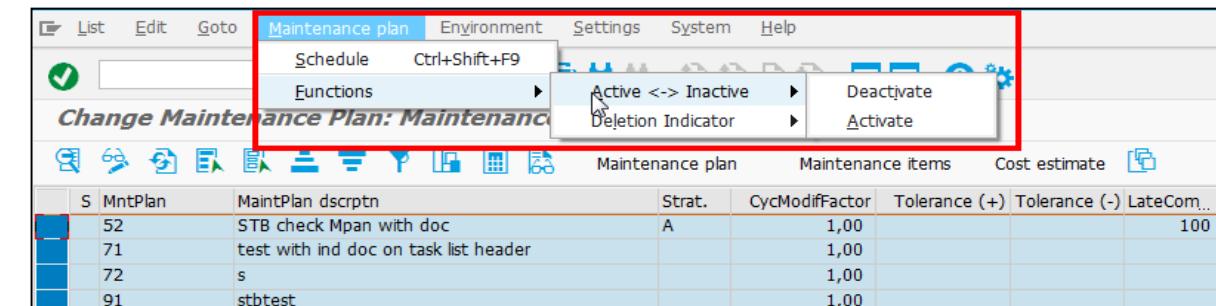
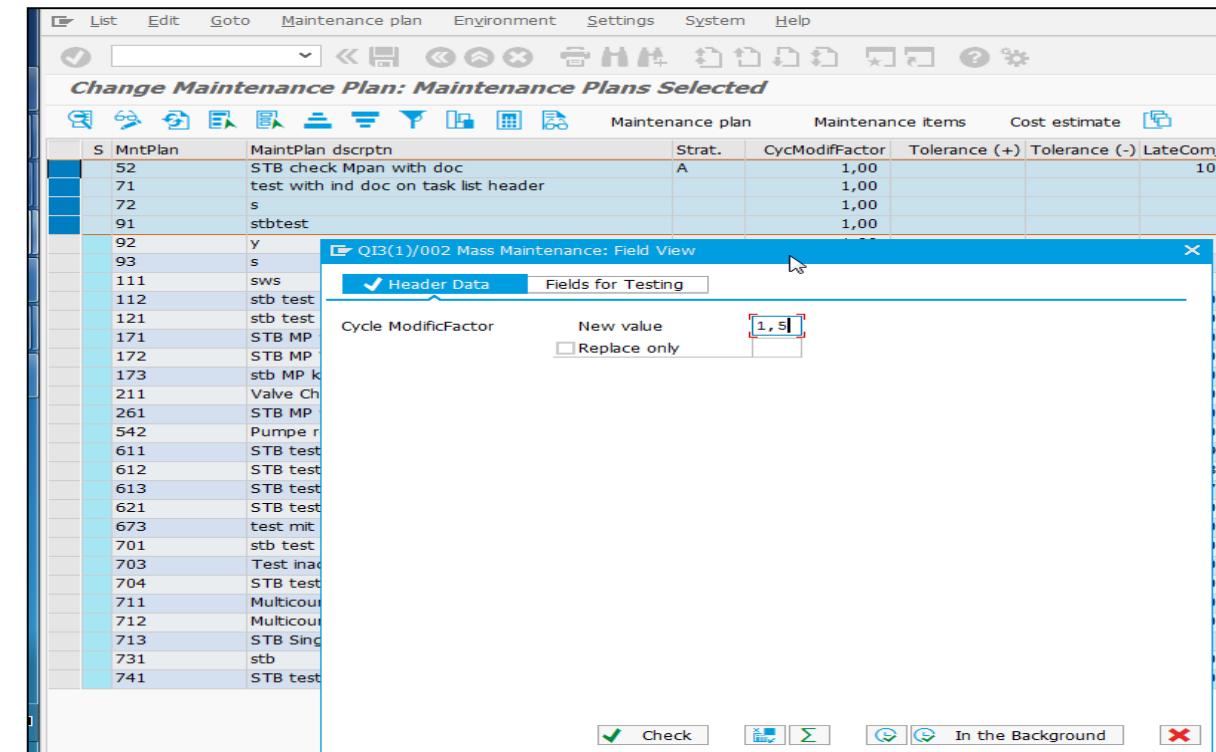
## Mass change of maintenance plans/maintenance item

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.

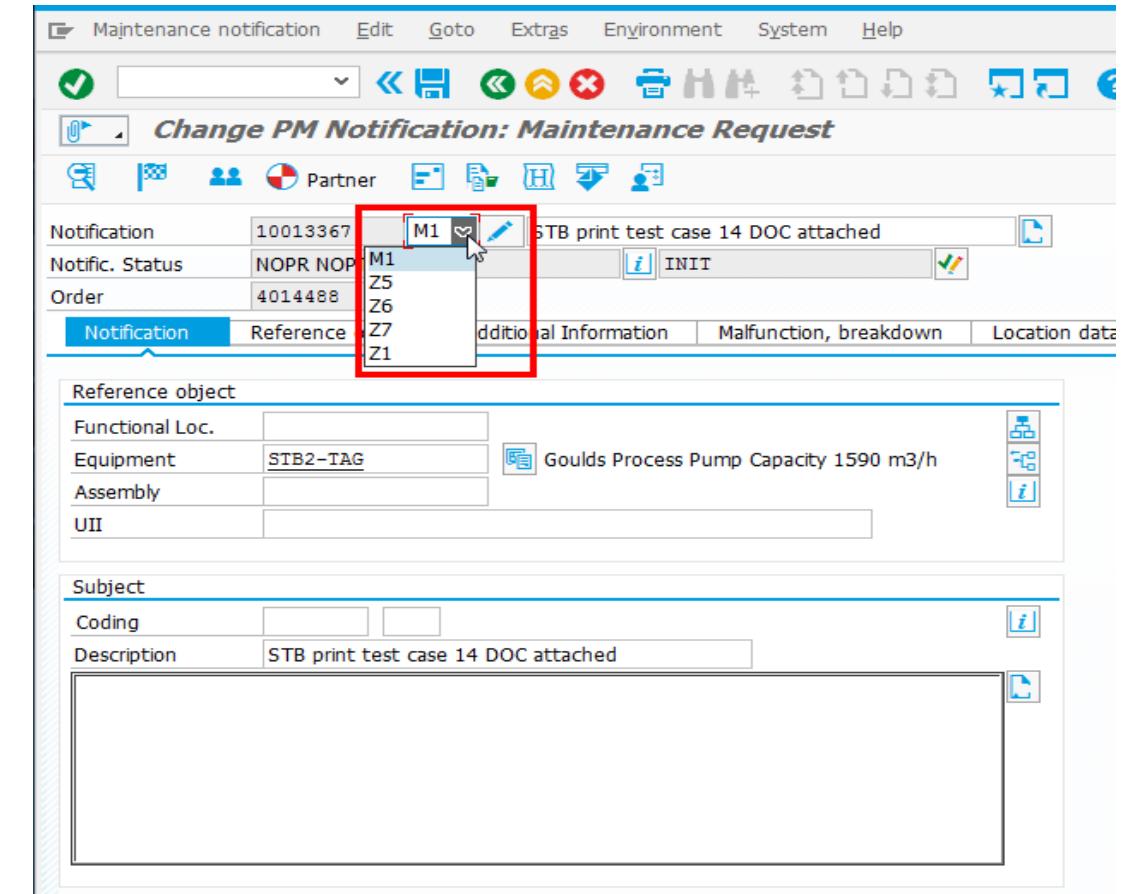


# SAP EAM Plant Maintenance Improvements:

## 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

The screenshot shows the SAP EAM interface for changing a PM notification. The title bar reads "Change PM Notification: Mainten...". The main area displays notification details: Notification ID 10002874, Status NOPR, and Order M2. Below this, there are tabs for "Notification", "Reference object", "Additional data 2", "Malfunction, breakdown", "Location data", "Maintenance plan", "Items", "Tasks", and "Activities". Under "Reference object", functional loc. DF-B01-1 is linked to Pump set 1, equipment DF-1000-DF01 is linked to Electric pump 001, and assembly information is shown. The "Subject" section includes coding fields and a description "Pump Leaking".

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

**Change Notification: 10000731**

Save | Read Only | Check Entries | Set System Status | Set User Status

Notification 10000731 | **Notification type M1, Maintenance Request** | Technic

**General Data** | Location Data | Organizational Data | Malfunction Data

Additional Functions | You can also |

- Add to Favorites
- Print
- Attach New Document
- Status Information
- Change Notification Type**

**Change Notification Type**

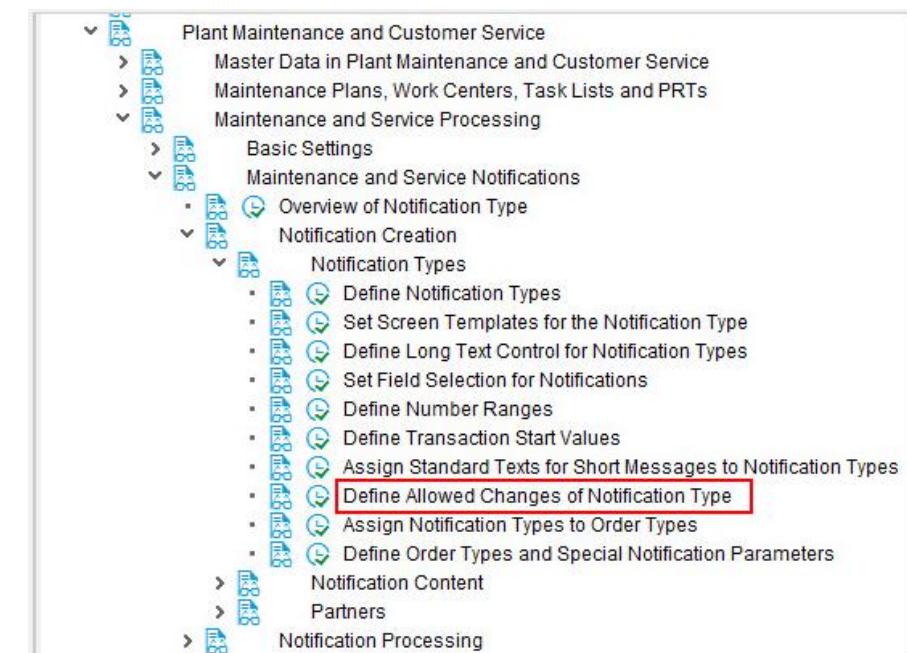
Notification type: **Malfunction Report**

Malfunction Report	M2
Activity Report	M3
Maintenance Request	Z1
Z5 w/o hdr. tasks	Z5
Z6 w/o hdr. activiti	Z6

**Change Notification: 10000731**

Save | Read Only | Check Entries | Set System Status | Set User Status | Additional Functions

Notification 10000731 | **Notification type M2, Malfunction Report** | Technical Object VH01-H



# 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.

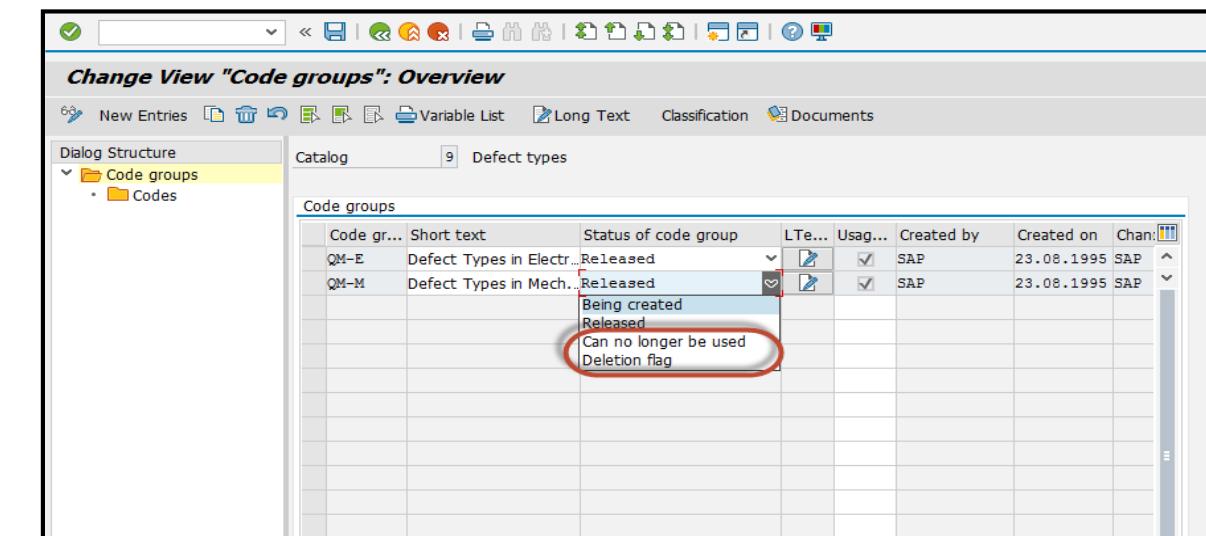
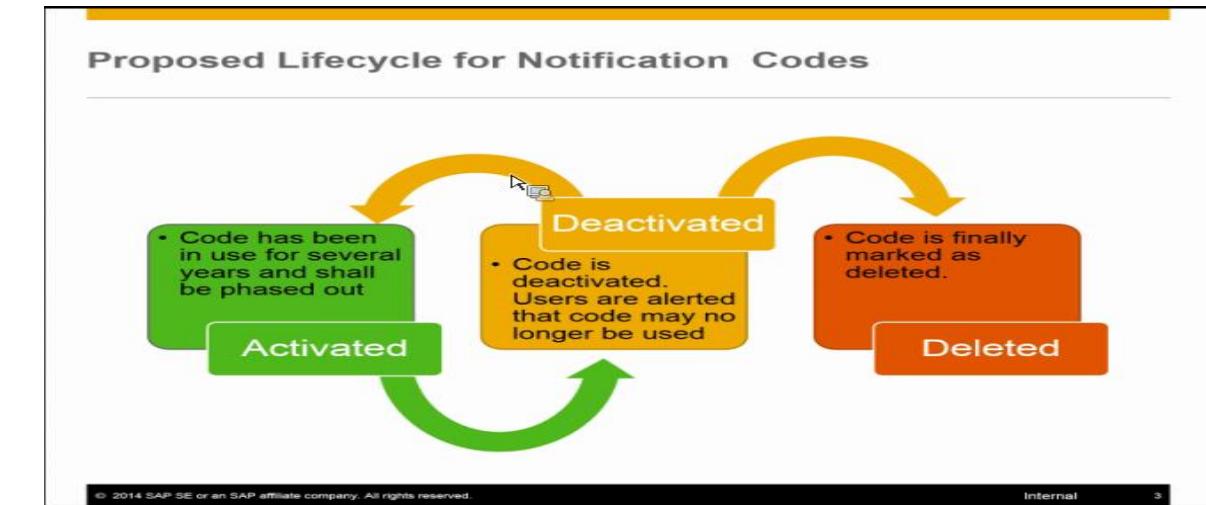
Large efforts are required to delete these codes. Any inappropriate changes would result in unacceptable inconsistency in the reporting.

## 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

Product Feature	Version	Support Pack
Enhancements for Materials in the Order (Web UI)	EHP8/7	2/11
Enterprise Search in the Input Help (Web UI)	EHP8/7	2/11
Master Data Information Center	EHP8/7	2/11

# SAP EAM Plant Maintenance Improvements: Information Center with Technical Object List

The screenshot shows the SAP EAM Master Data Information Center interface. At the top, there's a search bar with options like 'All Objects', 'Technical Object', 'Task List', 'Maintenance Order', 'Object Link', and 'More'. Below the search bar is a list titled 'Without Category Assignment' with items such as 'My Favorites (1)', 'Last Accessed (9)', 'Technical Object List - Default (250)', and 'Maintenance Plan and Item List - Default (71)'. The main area displays a table of maintenance plans and items. The columns include: Changed, Maintenance Plan, Maint. Plan Text, Maint. Item, Maint. Item Text, Strategy, Maint. Plan Category, Cycle Start, Maint. Plan Status, Tech. Object, Last Sched. Call Obj, Next Sched. Call Obj, Last Man. Call Obj, and Next Man. Call Obj. The table contains several rows of data, with some items having checkmarks in the 'Changed' column. At the bottom of the table, it says 'Status of 22.09.2016 14:18:53 CET Refresh List'. In the bottom left corner, there's a 'Direct Access' section with fields for 'Technical Object', 'Task List', and 'Maintenance Plan', each with a 'Display' button.

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

The screenshot shows the SAP Master Data Information Center interface. At the top, there's a navigation bar with the SAP logo, the title 'Master Data Information Center', and icons for 'Side Panel', 'Settings', and 'Help'. Below the header, a search bar displays 'Search For: pump' and 'Search In:'. There are two search buttons: 'Search' and 'Basic Search'. The main content area is titled 'Advanced Search' and shows a search result for 'pump'. The results are listed in a table format with columns for Material ID, Description, Type, Group, Category, ABC Indicator, Maintenance Work Center, and Location Sort Field. The first result is 'Material: R-F100 Material Description: Pump' with details: Material Type: Finished Product, Material Group: 03-Pumps, Material Category: Product. The second result is 'BPPUMPODATATEST' with details: Equipment Description: Test Pump for odata - Do not change, Category: M, Planner Group: STB, ABC Indicator: B, Maintenance Work Center: STB-M, Location Sort Field: STB SORT EQUI. The third result is 'BPPUMPODATATEST02' with similar details. The fourth result is 'Material: YXY56-3301 Material Description: Pump Shaft'.

Material	Description	Type	Group	Category	ABC Indicator	Maintenance Work Center	Location Sort Field
R-F100	Pump	Finished Product	03-Pumps	Product			
BPPUMPODATATEST	Test Pump for odata - Do not change			M	B	STB-M	STB SORT EQUI
BPPUMPODATATEST02	Test Pump for odata - Do not change			M			
YXY56-3301	Pump Shaft				A		

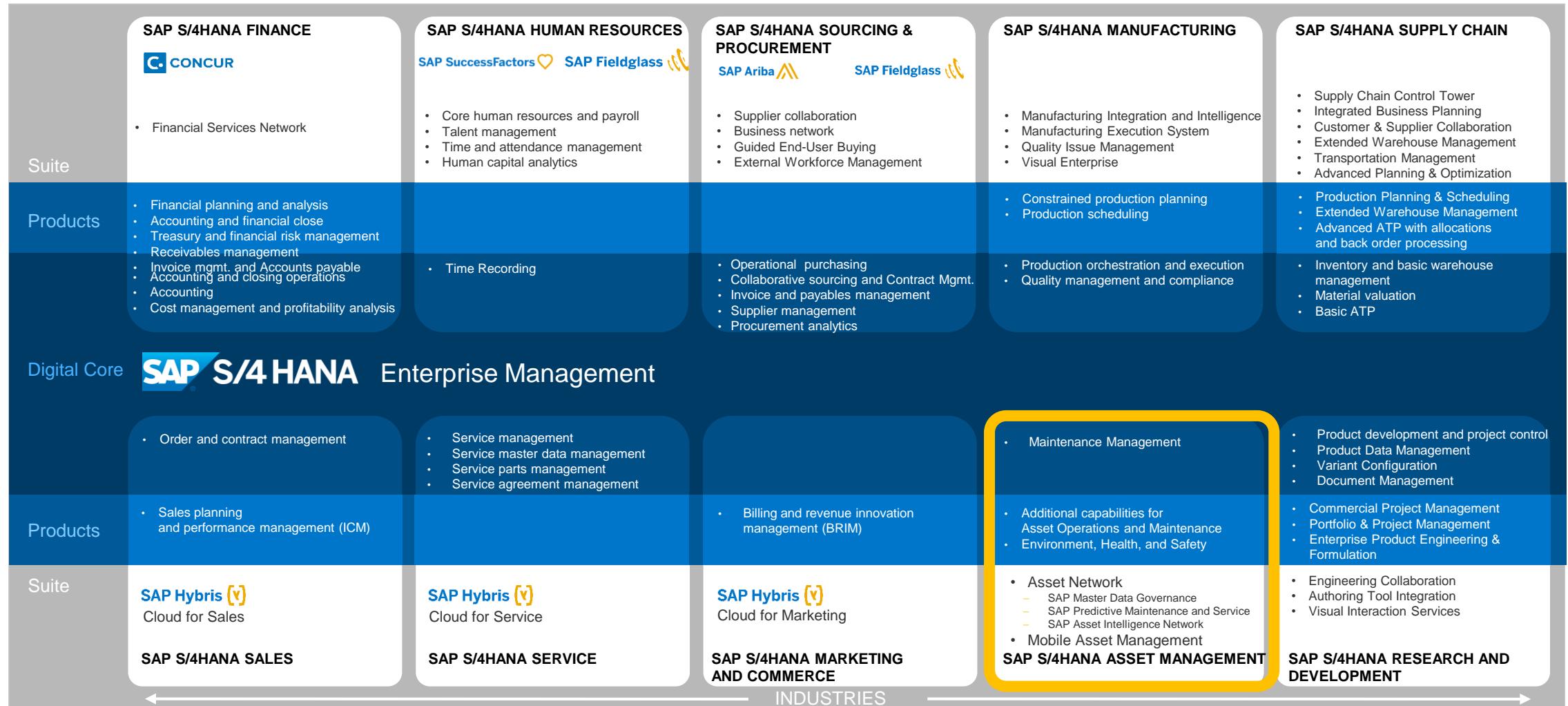
# What's New in S/4 HANA Asset Management

## Maintenance Management



# SAP S/4HANA 1610

## Asset Management



# SAP S/4HANA 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

# SAP S/4HANA 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

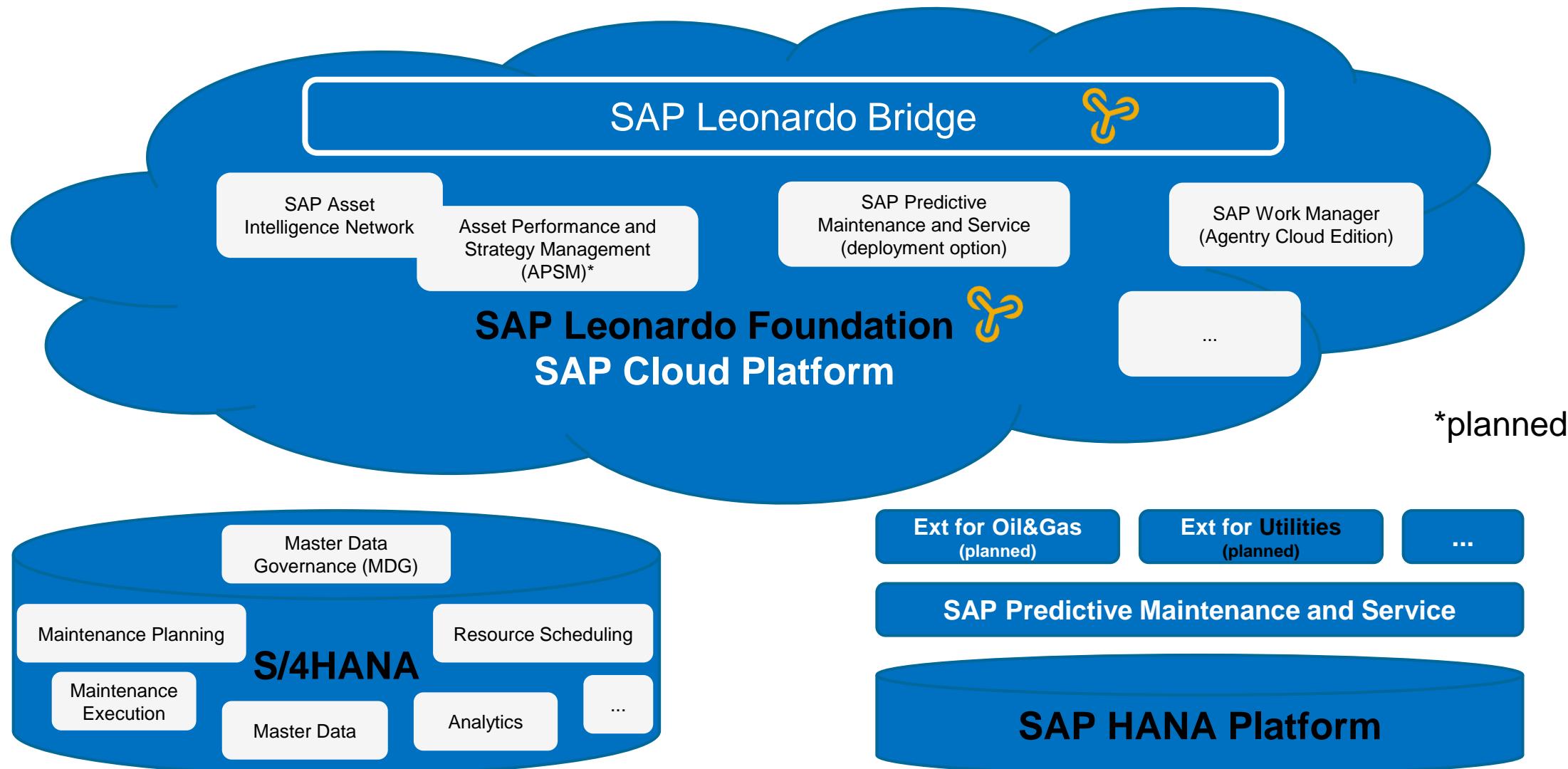
- SAP Master Data Governance (MDG-EAM)
- SAP Predictive Maintenance and Service (PDMS)
- SAP Asset Intelligence Network (AIN)
- Mobile Asset Management

DIGITAL CORE

PRODUCTS

SUITE

# Asset Management - Overall Logical Architecture



# 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

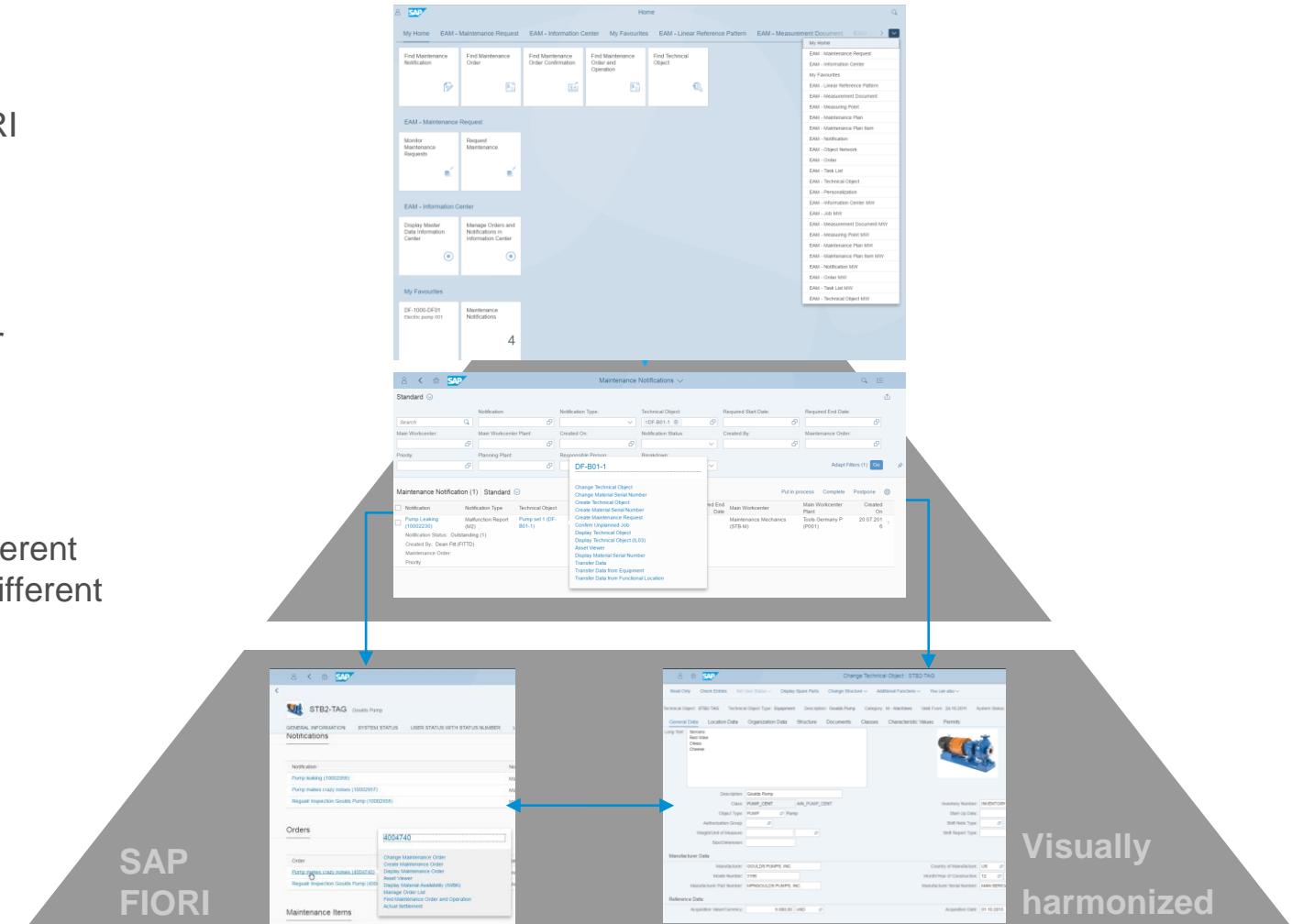
- Users will quickly get an overview of what needs their attention with Work Lists and can trigger *quick actions*

### 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

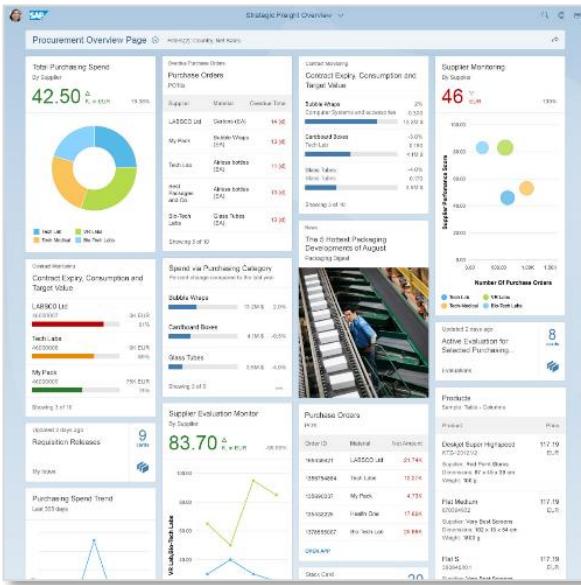
- All related Web Dynpro App's have been visual harmonized supporting end to end process in an visual harmonized UI



# New App Types with SAP Fiori 2.0

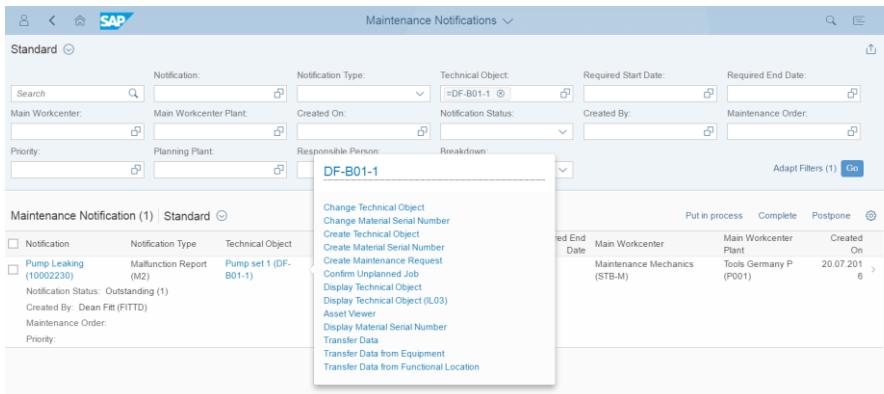
## Overview Page

aggregates domain-specific information and offers quick actions



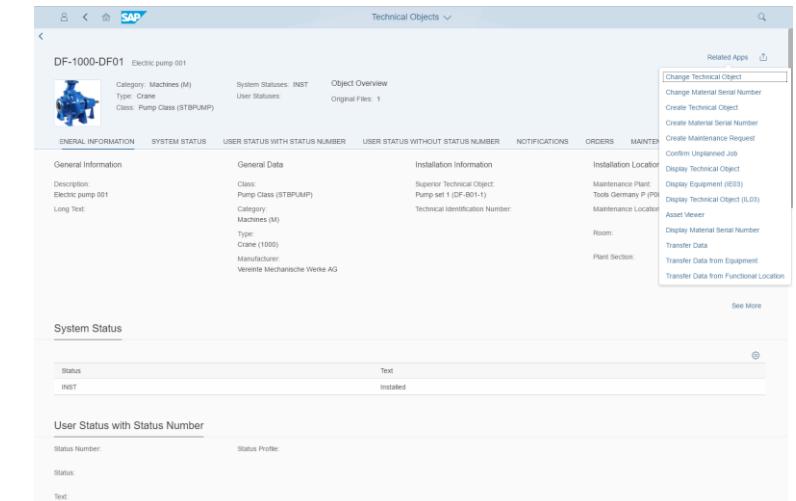
## List Reports

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

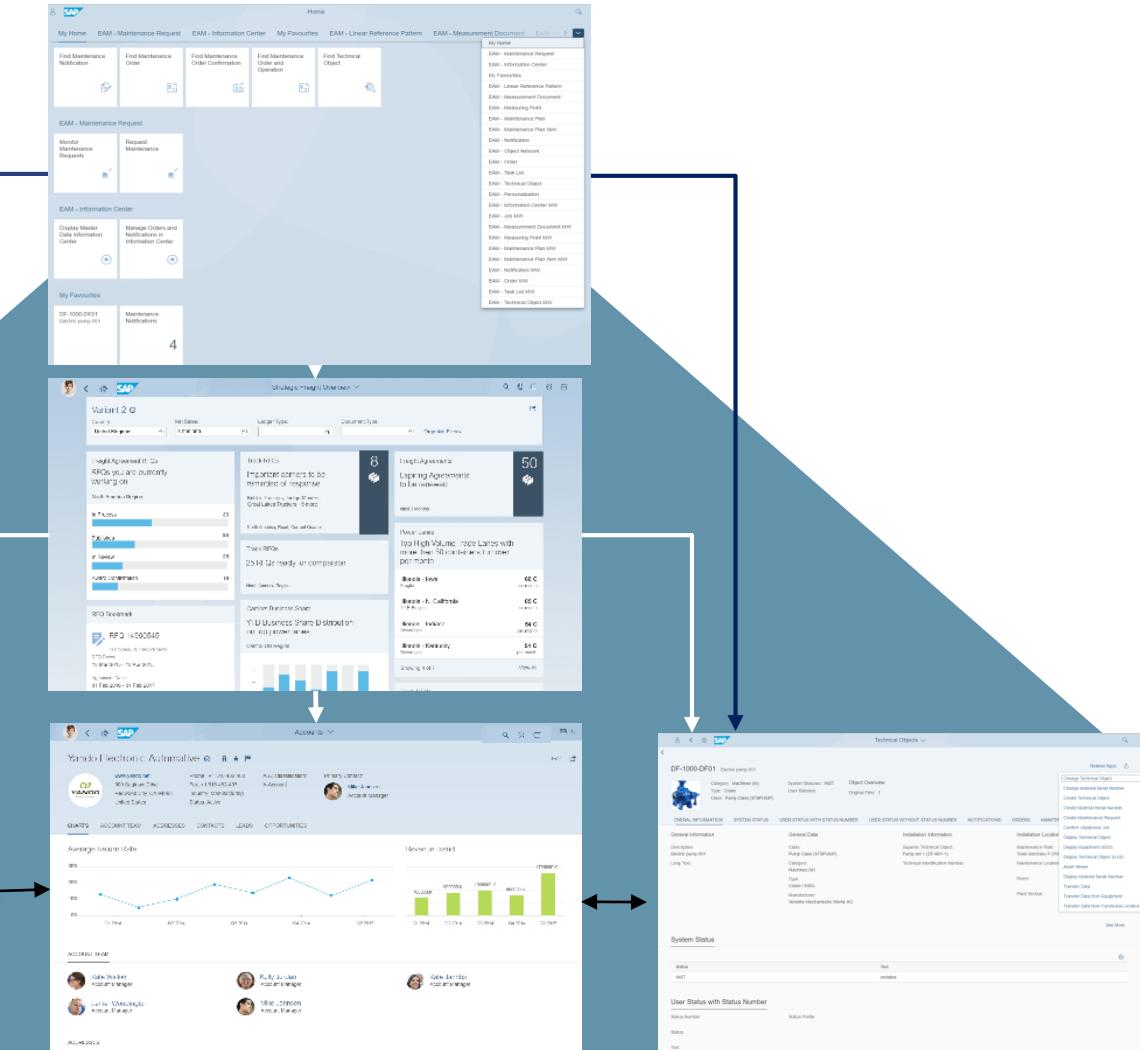
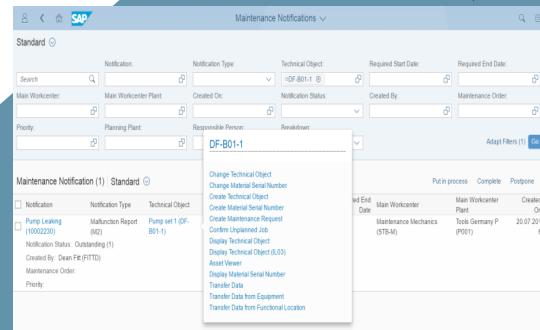
## SINGLE ENTRY POINT

- **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

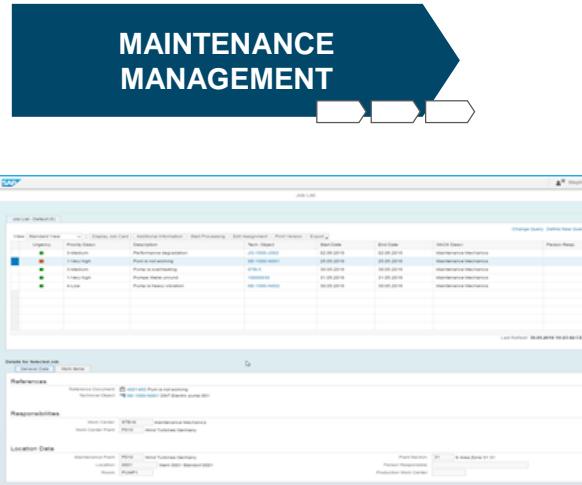
**Fiori Apps,  
Classic Apps**



Introducing the Fiori Overview Page

# SAP S/4HANA 1610 Asset Management: Fiori Apps\*

\*Exemplary overview. For full and most current list see [Fiori Apps Library](#)



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 Maintenance Notification (Planner)
- Process Maintenance Notification (Technician)
- Process Maintenance Order
- Process Maintenance Plan
- Process Measurement Document (Planner)
- Process Measurement Document (Technician)
- Process Measuring Point
- Process Object Network
- Process Task List (Planner)
- Process Technical Object
- **Request Maintenance NEW**

# One Entry Point

Access the relevant Maintenance apps from the FIORI Launchpad

The screenshot shows the SAP Fiori Launchpad interface. At the top, there's a navigation bar with links for 'My Home', 'EAM - Maintenance Request', 'EAM - Information Center', 'My Favourites', 'EAM - Linear Reference Pattern', 'EAM - Measurement Document', and 'EAM - ...'. Below the navigation bar, there are several tiles grouped under sections: 'EAM - Maintenance Request' (containing 'Find Maintenance Notification', 'Find Maintenance Order', 'Find Maintenance Order Confirmation', 'Find Maintenance Order and Operation', and 'Find Technical Object'), 'EAM - Information Center' (containing 'Monitor Maintenance Requests' and 'Request Maintenance'), and 'My Favourites' (containing 'DF-1000-DF01 Electric pump 001' and 'Maintenance Notifications'). To the right of the main content area is a vertical sidebar titled 'My Home' which lists a comprehensive menu of EAM transactions.

Section	Items
EAM - Maintenance Request	Find Maintenance Notification, Find Maintenance Order, Find Maintenance Order Confirmation, Find Maintenance Order and Operation, Find Technical Object
EAM - Information Center	Monitor Maintenance Requests, Request Maintenance
My Favourites	DF-1000-DF01 Electric pump 001, Maintenance Notifications
My Home (Sidebar)	EAM - Maintenance Request, EAM - Information Center, My Favourites, EAM - Linear Reference Pattern, EAM - Measurement Document, EAM - Measuring Point, EAM - Maintenance Plan, EAM - Maintenance Plan Item, EAM - Notification, EAM - Object Network, EAM - Order, EAM - Task List, EAM - Technical Object, EAM - Personalization, EAM - Information Center MW, EAM - Job MW, EAM - Measurement Document MW, EAM - Measuring Point MW, EAM - Maintenance Plan MW, EAM - Maintenance Plan Item MW, EAM - Notification MW, EAM - Order MW, EAM - Task List MW, EAM - Technical Object MW

## 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

The screenshot shows the SAP Fiori Launchpad interface with the SAP logo at the top. A search bar at the top right contains the text "pump". The main area is divided into two sections: "Search In" on the left and "Results (3.633)" on the right. The "Search In" section lists various categories with their counts: All (3.633), All Objects (371), All Objects (1.801), All Objects (1.720), Billing Documents (166), Cost Center Groups (2), Cost Centers (38), Credit Memo Requests (14), Customer Returns (52), Customers (30), Document Info Record Struct... (1), Document Info Record Struct... (1), Document Info Records (16), EAM Objects (1.613), Equipment (659), Functional Location (583), Internal Orders (2), Maintenance Object List (4), Material BOM (13), Material Documents (21), Network Activities (540), Physical Inventory (1), Process Orders (5), Product Item Variants (2), Production Orders (499), Production Routings (5), Profit Center (3), Purchase Contracts (1), Purchase Orders (77). The "Results" section displays a list of search results for "pump":

- 10000001423/ DRW/ 00/ 000 Document Info Record: Document Description: Pump; Document Status: WR - Work Request; Created On: 21.07.2016 10:49:22; Created By: Dean Fitt; Change Number: -; Authorization Group: -; Laboratory/Design office: -; Person Responsible: Dean Fitt; Changed By: Dean Fitt; Changed On: 21.07.2016 14:06:31; Created in CAD: No; Deletion Indicator: No
- Invoice 90008052 Billing Document: Payer: C0025 - Tools Inc. South Am...; Billing Date: 01.01.2014; Overall Billing Status: -; Net Value: 157.250,00 BRL
- Pump 16111 Cost Center: Company Code: REO1 - REOG 2016; User Responsible: -; Valid from: 01.01.2013; Valid to: 31.12.9999
- Pump H1611 Cost Center Group: Controlling Area: REOG 2016 REO0; Created by: TESTER\_WDF09; Created on: 20.04.2016; Representative Cost Center: -
- 10003010 Maintenance Notification: Description: Pump clogged; Notification type Description: Activity Report; Priority Text: -; Maintenance Plant: P001
- A PUMP 1 Exchange Pump Maintenance Task List: Functional Location: -; Planner Group: 2; Maintenance Planning Plant: P001; Equipment: -
- R-F100 Pump Material: Material Type: Finished Product; Material Group: 03 - Pumps; Material Category: Product; Base Unit: Piece
- 5300009050 Purchasing Info Record: Supplier: 769 - Hammer & Nagel; Material: R-F100 - Pump; Supplier Material Number: -; Regular Supplier: No

# Enterprise Search

The screenshot shows the SAP Enterprise Search interface. On the left, there is a sidebar titled 'Search In' with a tree view and a list of objects and their counts. The main area is titled 'Results (3.633)' and shows a list of search results. Each result is a card with a title, a brief description, and several data fields. The results include:

- 10000001423/ DRW/ 00/ 000 Document Info Record**  
Document Description: Pump  
Document Status: WR - Work Request  
Created On: 21.07.2016 10:49:22  
Created By: Dean Fitt  
Change Number: -  
Authorization Group: -  
Laboratory/Design office: -  
Person Responsible: Dean Fitt  
Changed By: Dean Fitt  
Changed On: 21.07.2016 14:06:31  
Created in CAD: No  
Deletion Indicator: No
- Invoice 90008052 Billing Document**  
Payer: C0025 - Tools Inc. South Am...  
Billing Date: 01.01.2014  
Overall Billing Status: -  
Net Value: 157.250,00 BRL
- Pump 16111 Cost Center**  
Company Code: REO1 - REOG 2016  
User Responsible: -  
Valid from: 01.01.2013  
Valid to: 31.12.9999
- Pump H1611 Cost Center Group**  
Controlling Area: REOG 2016 REO0  
Created by: TESTER\_WDF09  
Created on: 20.04.2016  
Representative Cost Center: -
- 10003010 Maintenance Notification**  
Description: Pump clogged  
Notification type Description: Activity Report  
Priority Text: -  
Maintenance Plant: P001
- A PUMP 1 Exchange Pump Maintenance Task List**  
Functional Location: -  
Planner Group: 2  
Maintenance Planning Plant: P001  
Equipment: -
- R-F100 Pump Material**  
Material Type: Finished Product  
Material Group: 03 - Pumps  
Material Category: Product  
Base Unit: Piece
- 5300009050 Purchasing Info Record**  
Supplier: 769 - Hammer & Nagel  
Material: R-F100 - Pump  
Supplier Material Number: -  
Regular Supplier: No

- ## Search features:
- All objects > filter
  - Selected object
  - Save results as a tile

# Domain specific info and actions

## Find objects and launch follow-on actions

SAP Maintenance Notifications

Standard

Notification: Notification Type: Technical Object: Required Start Date: Required End Date:

Main Workcenter: Main Workcenter Plant: Created On: Notification Status: Created By: Maintenance Order:

Priority: Planning Plant: Responsible Person: Breakdown:

Search  Adapt Filters (1)

Maintenance Notification (1) Standard

Red End Date	Main Workcenter	Main Workcenter Plant	Created On
20.07.2016	Maintenance Mechanics (STB-M)	Tools Germany P (P001)	20.07.2016

Notification  Pump Leaking (10002230) Notification Type  Malfunction Report (M2) Technical Object  Pump set 1 (DF-B01-1)

Notification Status: Outstanding (1)  
Created By: Dean Fitt (FITTD)  
Maintenance Order:  
Priority:

DF-B01-1

- 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

# Object Page

## Technical Object

SAP

Technical Objects ▾

DF-1000-DF01 Electric pump 001

Category: Machines (M) System Status: INST Object Overview

Type: Crane User Statuses:

Class: Pump Class (STBPUMP) Original Files: 1

GENERAL INFORMATION SYSTEM STATUS USER STATUS WITH STATUS NUMBER USER STATUS WITHOUT STATUS NUMBER NOTIFICATIONS ORDERS MAINTENANCE

General Information General Data Installation Information Installation Location

Description: Superior Technical Object: Maintenance Plant: Tools Germany P (P001)

Electric pump 001 Class: Pump set 1 (DF-B01-1)

Long Text: Category: Machines (M)

Type: Crane (1000)

Manufacturer: Vereinte Mechanische Werke AG Technical Identification Number:

Maintenance Location Room: Plant Section:

Change Technical Object

Change Material Serial Number

Create Technical Object

Create Material Serial Number

Create Maintenance Request

Confirm Unplanned Job

Display Technical Object

Display Equipment (IE03)

Display Technical Object (IL03)

Asset Viewer

Display Material Serial Number

Transfer Data

Transfer Data from Equipment

Transfer Data from Functional Location

See More

System Status

Status Text

INST Installed

User Status with Status Number

Status Number: Status Profile:

Status: Text:

# Fiori Object Page for Technical Objects

## Related Apps

SAP

Technical Objects ▾

DF-1000-DF01 Electric pump 001

INFORMATION SYSTEM STATUS USER STATUS WITH STATUS NUMBER USER STATUS WITHOUT STATUS NUMBER NOTIFICATIONS ORDERS MAINTENANCE ITEMS ORIGINAL FILES ...

Notification	Notification Type	System Statuses	Created On	Created At	Priority
Pump Leaking (10000515)	Maintenance Request (M1)	OSNO	13.08.2015	05:24:07	
Repair Pump (10000658)	Malfunction Report (M2)	NOCO, ORAS	21.08.2015	11:47:01	
follow on order - connected noti (10000720)	Maintenance Request (M1)	NOPR, ORAS	24.08.2015	16:05:44	

Orders

Order	Order Type	System Statuses	Created on	Created At	Priority
Repair Pump (4000568)	Maintenance order (PM01)	CLSD, CNF, GMPS, MANC, PRC, SETC	21.08.2015	11:47:02	
follow on order (4000569)	Maintenance order (PM01)	MACM, PRC, REL	21.08.2015	11:49:22	

Maintenance Items

Maintenance Item	Maintenance Item Text	Maintenance Plan	Maintenance Plan Text	Priority
No entries found.				

Original Files

Attachments (1)

Add a URL +

 centrifugal-pump.jpg  
Uploaded By: Dean Fitt · Uploaded On: 21-07-2016 · File Size: 34 KB  
Source: DMS

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

Created At	Priority
------------	----------

# 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

The screenshot shows the SAP S/4HANA search interface. At the top, a search bar contains the text "Pump". A callout bubble labeled "Search term" points to this bar. Below the search bar, a message "Number of hits for this Business Object" is displayed above a red box containing "Results (630)". Another callout bubble labeled "Number of hits" points to this message. On the left, a sidebar titled "Search In" shows "Equipments" selected with a count of 630. A callout bubble labeled "Number of hits for this Business Object" points to this selection. The sidebar also includes sections for "Filter By" (Category, Type of Technical Object, Manufacturer), each with a "Show More" link. The main area displays a list of search results for "Equipment". The first result is "BPPUMPODATATEST" (Equipment) with details: Equipment Description: Test Pump for odata - Do not..., Category: M, ABC Indicator: B, Maintenance Planning Plant: P001. A callout bubble labeled "Refinement possibilities with different visualization capabilities" points to the equipment description. The second result is "BPPUMPODATATEST02" (Equipment) with similar details. The third result is "SW-2000-N005" (Equipment) with details: Equipment Description: Electric pump 004, Category: M, ABC Indicator: A, Maintenance Planning Plant: P001. A callout bubble labeled "Search term highlighted" points to the equipment description. Other results listed include "BPPUMP", "DF-1000-N001", and "STB2-TAG". A pie chart at the bottom of the sidebar shows manufacturer distribution: Strobel Gerätebau GmbH (approx. 40%), Vereinte Mechanische Werkstätten (approx. 30%), and Gerätewerkstatt (approx. 30%).

# 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

The screenshot shows the SAP S/4HANA Equipment search interface. The top navigation bar includes 'Search', 'Equipments' (selected), and 'Pump Goulds'. The main area displays 'Results (2)'. Two equipment entries are listed:

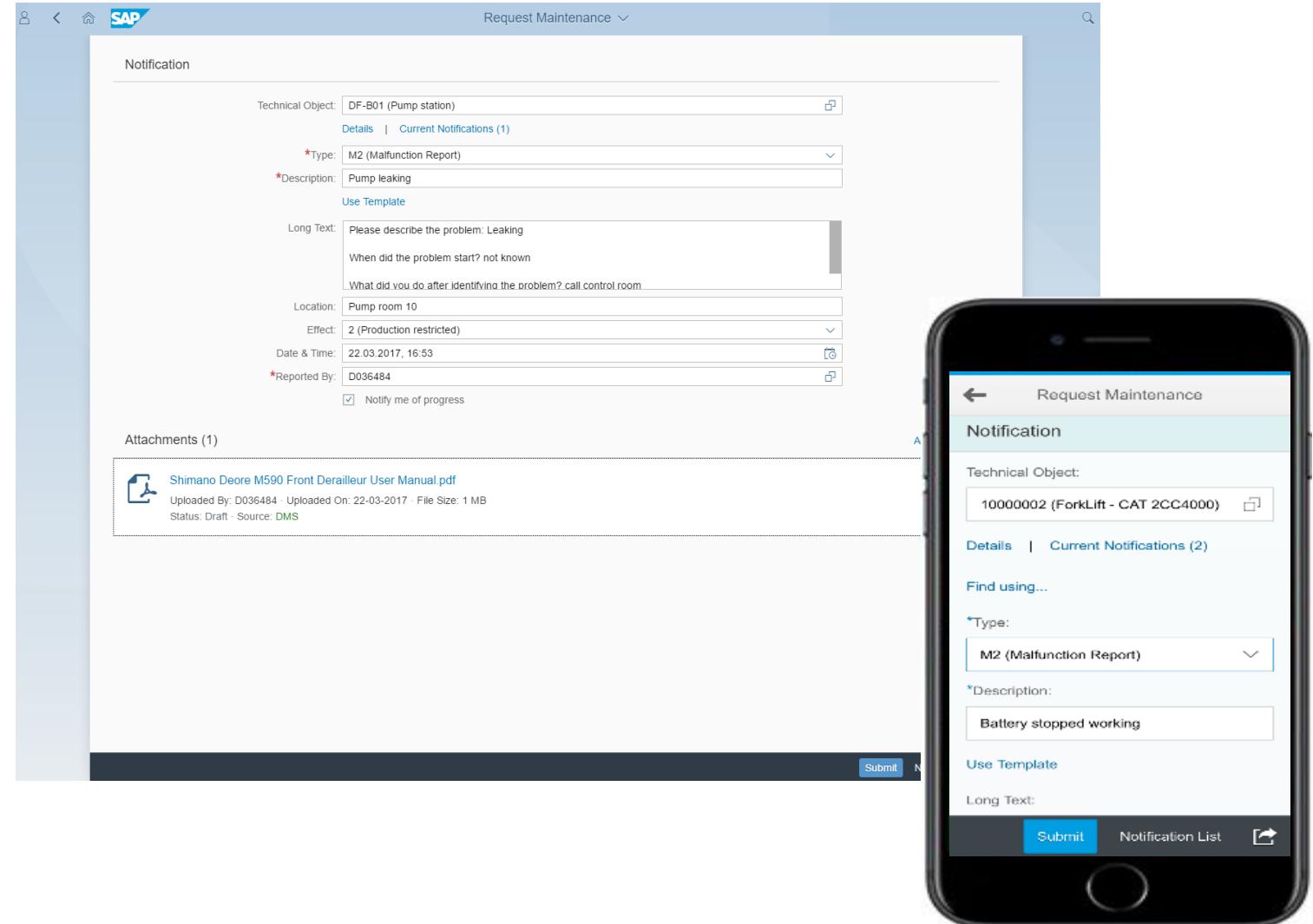
- STB2-TAG Equipment**
  - Equipment Description: **Goulds Pump**
  - Category: M
  - ABC Indicator: 2
  - Maintenance Planning Plant: P001
  - Planner Group: STB
  - Maintenance Work Center: STB-M
  - Maintenance Plant: P001
  - Location: L001
  - Type of Technical Object: **PUMP**
  - Characteristic Description: Pump Impeller Type
  - Long Text: Serrano  
Red Wine  
Olives  
Cheese
  - Image: A blue and orange industrial pump.
  - Technical Object: STB2-TAG
  - Object Type: VALVE
  - Authorization Group:
  - Weight/Unit of Measure:
  - Size/Dimension:
  - Manufacturer Data:
    - Manufacturer: GOULDS PUMPS, INC.
    - Model Number: 3196
    - Manufacturer Part Number: MPNGOULDS PUMPS, INC.
  - Reference Data:
    - Country of Manufacture: US
    - Month/Year of Construction: 12 1954
    - Inventory Number: INVENTORY NUMBER
    - Start-Up Date:
    - Shift Note Type:
    - Shift Report Type:

- STB-T1 Equipment**
- Equipment Description: STB test Equi 1

# 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

The screenshot shows the SAP S/4HANA Order and Notification Information Center. The top navigation bar includes 'Order and Notification Information Center' and user profile 'Stephan Bantlin'. Below the header, there are search fields for 'Order' and 'Notification', and tabs for 'Search' and 'Direct Access'. A 'Lists' section displays a grid of maintenance orders and notifications. One specific maintenance order, '4000240', is highlighted with a red box. This order is for a 'Pump Leak' at plant 'P001' with priority '3-Medium'. It was created on '21.08.2015' and is currently 'Outstanding'. The details pane on the right shows the order's description, planning plant, start date, responsible work center, and more. Other orders listed include '4000241' (Pump Leak, P001, 07.08.2015), '4000268' (Repair Pump, P001, 07.08.2015), and '4000280' (NEW Malfunction notification SW, P001, 07.08.2015). The bottom of the screen features a footer with links like 'Order Planning Data (1 result)', 'Components (No results)', 'Object Status (5 results)', 'Maintenance Order Operation (4 results)', and 'Maintenance Object List (No results)'. The footer also includes a page number 'Page 1 of 1' and a 'Results per Page' dropdown set to '10'.

# 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 Change Technical Object : STB2-TAG

Read Only Check Entries Set User Status Display Spare Parts Change Structure Additional Functions You can also Side Panel 

Technical Object: STB2-TAG Technical Object Type: Equipment Description: Goulds Pump Category: M - Machines Valid From: 24.10.2011 System Status: AVLB

User Status: 1 Document(s)

General Data Location Data Organization Data Structure Documents Classes Characteristic Values Permits

Long Text: Capacities to 1590 m<sup>3</sup>/h Heads to 223 m Temperature to 371 Celcius Pressure to 26 Bar

Description: Goulds Pump  
Class: PUMP\_CENT AIN\_PUMP\_CENT  
Object Type: PUMP Pump  
Authorization Group:  
Weight/Unit of Measure: 800,000 KG  
Size/Dimension:

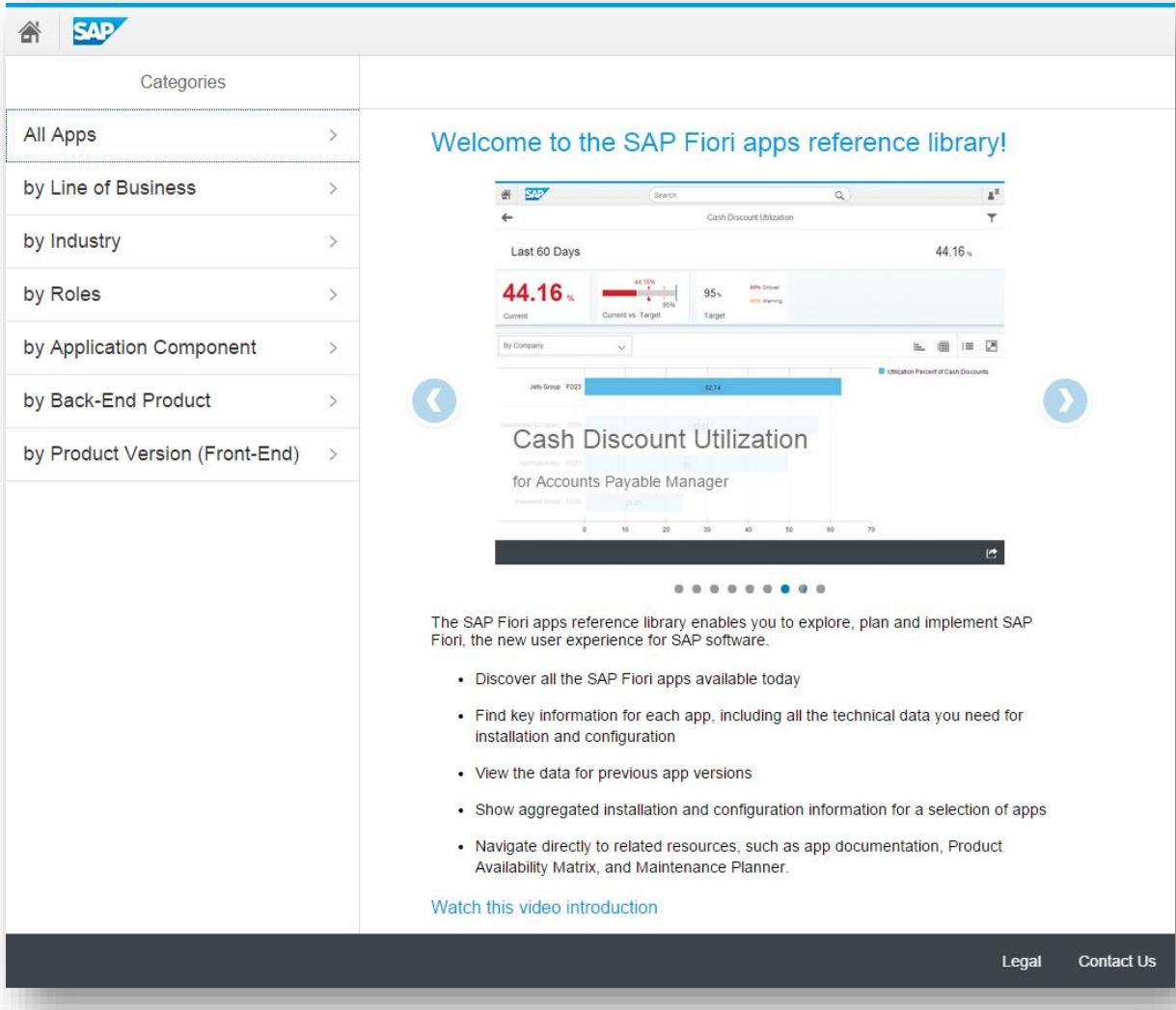
Inventory Number: INVENTORY NUMBER Start-Up Date:

Manufacturer Data  
Manufacturer: GOULDS PUMPS, INC.  
Model Number: 3196  
Manufacturer Part Number: MPNGOULDS PUMPS, INC.  
Country of Manufacture: US  
Month/Year of Construction: 12 1954  
Manufacturer Serial Number: MAN SERIOAL NUMMER3196

Reference Data  
Acquisition Value/Currency: 9.000,00 USD  
Acquisition Date: 01.10.2013

 Save

# SAP Fiori Apps Reference Library



The screenshot shows the SAP Fiori Apps Reference Library homepage. On the left, there's a sidebar with a 'Categories' section containing links like 'All Apps', 'by Line of Business', 'by Industry', 'by Roles', 'by Application Component', 'by Back-End Product', and 'by Product Version (Front-End)'. The main content area features a large heading 'Welcome to the SAP Fiori apps reference library!' above a screenshot of a Fiori app interface titled 'Cash Discount Utilization'. The interface displays a chart with '44.16 %' and '44.15%' and a progress bar at '95%'. Below the screenshot is a paragraph explaining the library's purpose and a bulleted list of features. At the bottom, there's a link to 'Watch this video introduction' and a footer with 'Legal' and 'Contact Us' links.

The SAP Fiori apps reference library enables you to explore, plan and implement SAP Fiori, the new user experience for SAP software.

- Discover all the SAP Fiori apps available today
- Find key information for each app, including all the technical data you need for installation and configuration
- View the data for previous app versions
- Show aggregated installation and configuration information for a selection of apps
- Navigate directly to related resources, such as app documentation, Product Availability Matrix, and Maintenance Planner.

[Watch this video introduction](#)

Legal Contact Us

## 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](http://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

The screenshot shows the SAP GUI for Windows interface with the title bar "Equipment" and various menu options like Edit, Goto, Extras, Structure, Environment, System, and Help. The main content area is titled "Change Equipment : General Data". It displays equipment details for "DF-1000-DF01" (Category: Machines). The "Description" field contains "Electric pump 001". Other fields include "Status: INST", "Valid From: 01.01.2012", and "Valid To: 31.12.9999". Below this, tabs for General, Location, Organization, Structure, Additional data 1, and SerD... are visible. The "General" tab is selected, showing sections for General data (Class: STBPUMP, Object Type: 1000 - Crane) and Reference data (AcquistnValue, Acquisition date). Manufacturer data at the bottom includes fields for Manufacturer (Vereinte Mechanische Werke AG), Model number (P-I), ManufPartNo. (EP-3445-GH1), and ManufSerialNo.

Example screen from transaction IE02 (Change Equipment) in SAP GUI



The screenshot shows the SAP GUI for HTML interface with the title bar "SAP" and navigation links like Object info..., Address..., Partners, Structure list, Class overview, Measuring points/counters, CET, Services for Object..., and More. The main content area is titled "Change Equipment : General Data". It displays equipment details for "DF-1000-DF01" (Category: Machines). The "Description" field contains "Electric pump 001". Other fields include "Status: INST", "Valid From: 01.01.2012", and "Valid To: 31.12.9999". Below this, tabs for General, Location, Organization, Structure, Additional data 1, SerData, Configuration data, Other, and Configuration Control are visible. The "General" tab is selected, showing sections for General data (Class: STBPUMP, Object Type: 1000 - Crane) and Reference data (AcquistnValue, Acquisition date). Manufacturer data at the bottom includes fields for Manufacturer (Vereinte Mechanische Werke AG), Model number (P-I), ManufPartNo. (EP-3445-GH1), and ManufSerialNo.

Visual Harmonization enabled (implementation in SAP GUI for HTML)

# 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

The screenshot shows a SAP Fiori application titled "Change Maintenance order 4004...". The header includes the SAP logo and navigation links like Schedule, Determine costs, Material availability, overall, etc. Below the header is a toolbar with fields for Order (PM01 4004380) and Yearly Inspection, and a status bar showing Sys.Status: REL CSER MANC NMAT NTUP PRC TTJL. The main content is a table with columns for Act, SOp, Work ctr, Plant, Co..., StTextK, Operation short text, LT, VI, S..., Actual Work, Work, Un, N..., Dur., Un, C.Key. The table lists various maintenance tasks with their descriptions and resource assignments. At the bottom is a footer with Save and Cancel buttons.

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

SAP Change Equipment: Equipment List

Details Change <-> Display Update Graphic Spreadsheet Long Text Linear Data CET Layout for Characteristics Print Find More Exit

S	Equipment	Description of technical object	A	Manufacturer of Asset
	DF-1000-CF01	Centrifugal Pump SpecPumps XY3...	Vereinte Mechanische Werke AG	
	DF-1000-DF01	Electric pump 001	Vereinte Mechanische	
	DF-1000-DF02	Electric pump 001	Vereinte Mechanische	
	DF-1000-DF03	Electric pump 001	Vereinte Mechanische	
	DF-1000-N001	Pump, Transfer	Ahlstrom	
	DF-1000-N002	Electric pump 002	Vereinte Mechanische	
	DF-1000-N003	Electric pump 003	Gerätefabrik Holst Gml	
	DF-1000-N004	Electric pump 004	Gerätefabrik Holst Gml	
	DF-1000-N005	Electric pump 005	Gerätefabrik Holst Gml	
	DF-1000-N006	Electric pump 006	Solms&Söhne KG	
	DF-1000-N007	Electric pump 007	Vereinte Mechanische	
	DF-1000-N051	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N052	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N053	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N054	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N055	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N056	Electric pump motor	Strobel Gerätebau Gm	
	DF-1000-N057	Electric pump motor	Strobel Gerätebau Gm	
	DF-2000-N002	Electric pump 001	Vereinte Mechanische	
	DF-2000-N004	Electric pump 004	Gerätefabrik Holst Gml	
	DF-2000-N005	Electric pump 004	Gerätefabrik Holst Gml	

Change Equipment : General Data

Object info... Address... Partners Structure list Class overview Measuring points/counters CET AllMeasDocs More Exit

Equipment: DF-1000-DF01 Category: M Machines

Description: Electric pump 001 Intern.note

Status: INST Valid From: 01.01.2012 Valid To: 31.12.9999

General Location Organization Structure Additional data 1 SerData Configuration data Other Configuration Control

General data

Class: STBPUMP Pump Class

Object Type: PUMP Pump

AuthorizGroup:

Weight: Size/dimension:

Inventory no.: Start-up date:

Reference data

AcquisitnValue: Acquisition date:

Manufacturer data

Manufacturer: Vereinte Mechanische Werke AG ManufCountry: DE

Model number: P-I Constr.yr/mth: 1985 / 01

ManufPartNo: EP-3445-GH1

ManufSerialNo:

# S/4 FIORI Visual Harmonization

## SAP GUI for Windows 7.50

Change Equipment : General Data

Object info... Address... Partners Structure list Class overview Measuring points/counters CET AllMeasDocs More ▾

Equipment: DF-1000-DF01 Category: M Machines

Description: Electric pump 001 Intern.note

Status: INST

Valid From: 01.01.2012 Valid To: 31.12.9999

General Location Organization Structure Additional data 1 SerData Configuration data Other Configuration Control

**General data**

Class: STBPUMP Pump Class  
Object Type: PUMP Pump  
AuthorizGroup:  
Weight:  
Inventory no.: Size/dimension:  
Start-up date:

**Reference data**

AcquistnValue: Acquisition date:

**Manufacturer data**

Manufacturer: Vereinte Mechanische Werke AG ManufCountry: DE  
Model number: P-I Constr.yr/mth: 1985 / 01  
ManufPartNo.: EP-3445-GH1  
ManufSerialNo.:

# SAP GUI HTML transactions

## IE03 – same Fiori look and feel

The screenshot shows the SAP GUI HTML transaction IE03, which displays the General Data of an equipment object. The main interface has a header bar with the title "Display Equipment : General Data" and various navigation links like Edit, Object info..., Address..., Partners, etc. A modal dialog titled "Object Information" is open, showing sections for Reference, Obj.display, and Environment. The "Reference" section contains tabs for "68" and "68" (with icons for document, schedule, and maintenance). Below these tabs are two buttons: "Select.indic.since 09/2015" and "Select.notif.since 24.09.2015". The "Environment" section is currently inactive. The "Obj.display" section lists three items: "Pump casing hot" (Date: 16.08.2016), "follow on order - connected noti" (Date: 24.08.2015), and "Pump Leaking" (Date: 13.08.2015). The "Last Active Order" section shows a single entry: "Yearly Inspection" with start date 02.01.2017 and finish date 02.01.2017. At the bottom of the modal, there are buttons for Maintenance items, Link from/to, Link object, and Replacement Equipment.

Equipment: DF-1000-DF01 Category: M Machines

Description: Electric pump 001

Status: INST

Valid From: 01.01.2012 Valid To: 31.12.9999

General Location Organization Structure

General data

Class:	STBPUMP	Pump
Object Type:	1000	Crane
AuthorizGroup:		
Weight:	0,000	
Inventory no.:		

Reference data

AcqistnValue:	0,00
---------------	------

Manufacturer data

Manufacturer:	Vereinte Mechanische Werke AG
Model number:	P-I
ManufPartNo.:	EP-3445-GH1
ManufSerialNo.:	

Object Information

Reference

Obj.display

Environment

Select.indic.since 09/2015 Select.notif.since 24.09.2015

Description	Date	Completion	P
Pump casing hot	16.08.2016		
follow on order - connected noti	24.08.2015		
Pump Leaking	13.08.2015		

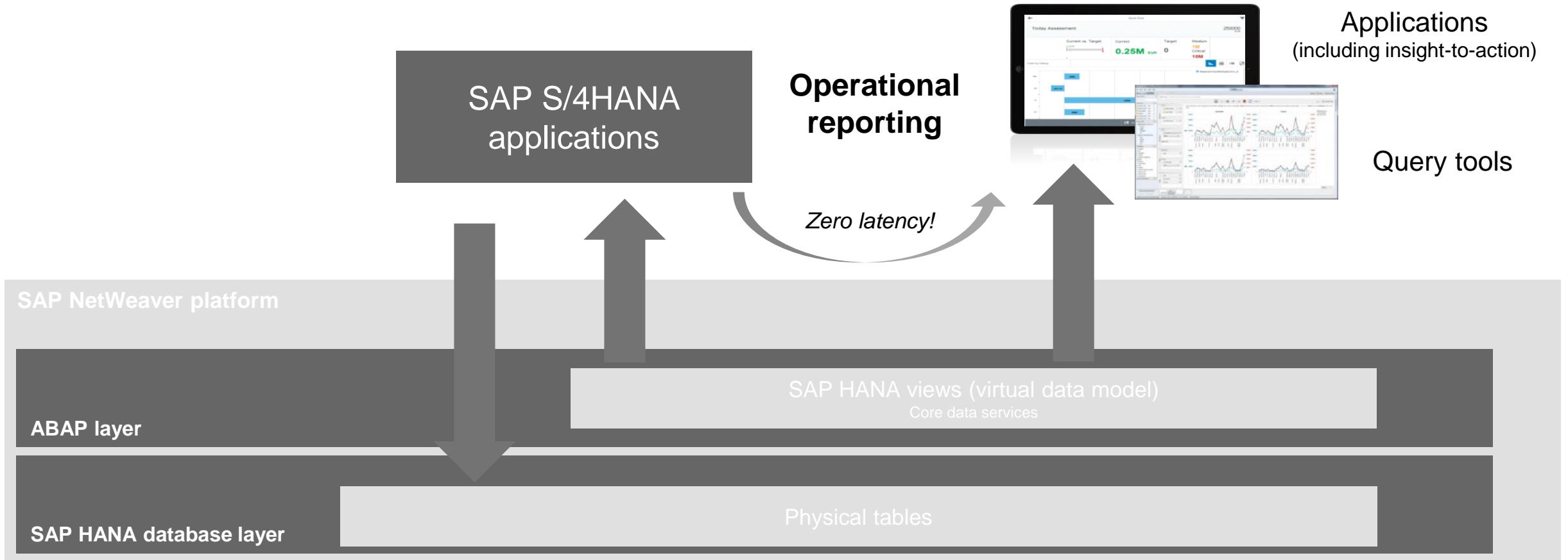
Last Active Order

Description:	Yearly Inspection
Bas. start date:	02.01.2017
Basic fin. date:	02.01.2017
Priority:	

Maintenance items Link from/to Link object Replacement Equipment

# SAP S/4HANA – embedded real-time analytics

Foundation for new class of applications



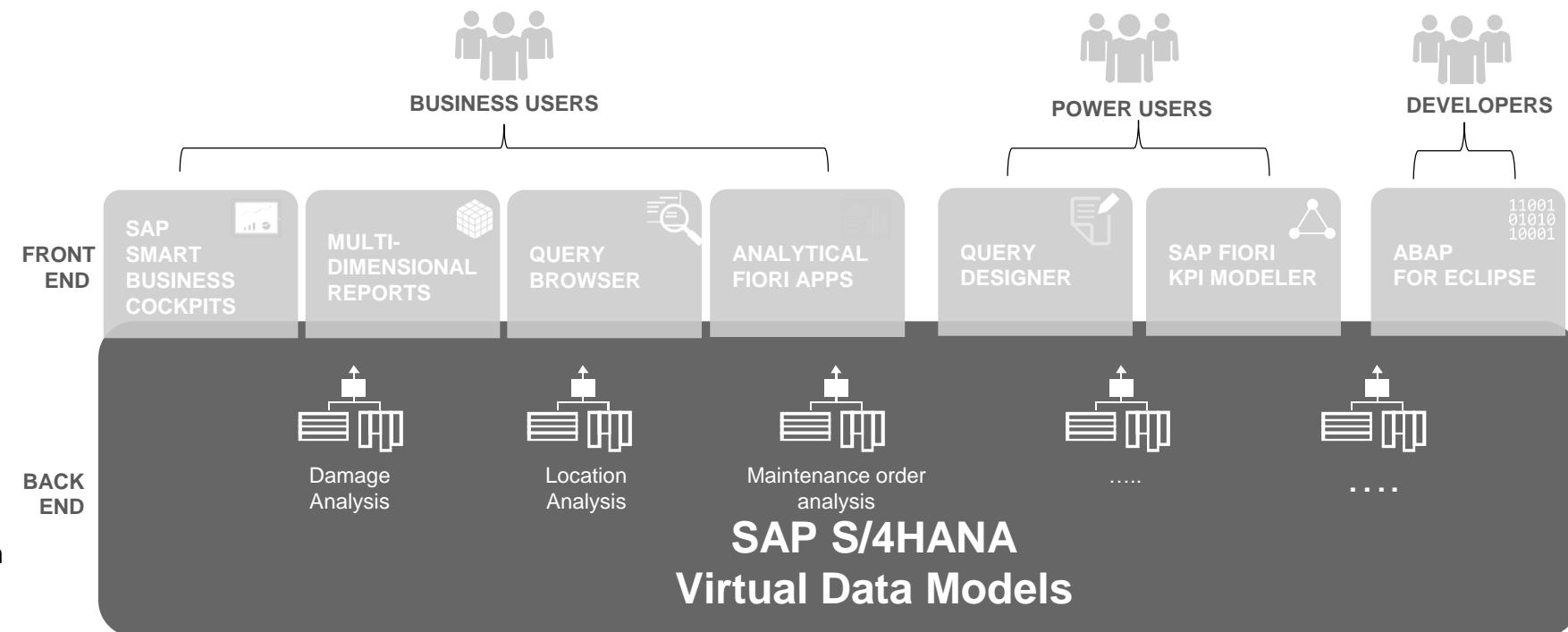
# SAP S/4HANA Embedded Analytics

## 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

## SAP S/4HANA Embedded Analytics

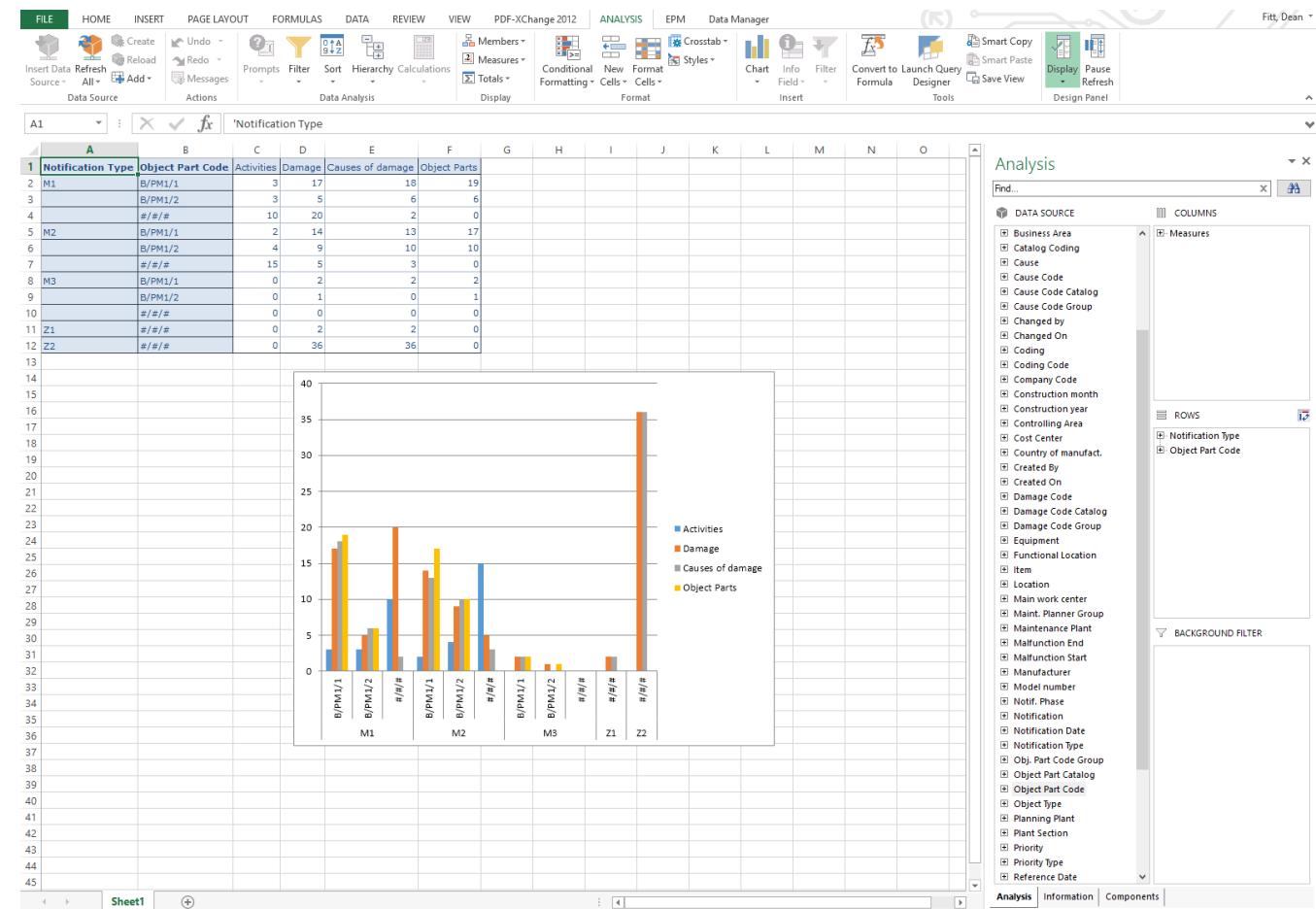


\*CDS: Core Data Service

# SAP S/4HANA Embedded Analytics

## Analytical Core Data Service Views and Analytical Queries

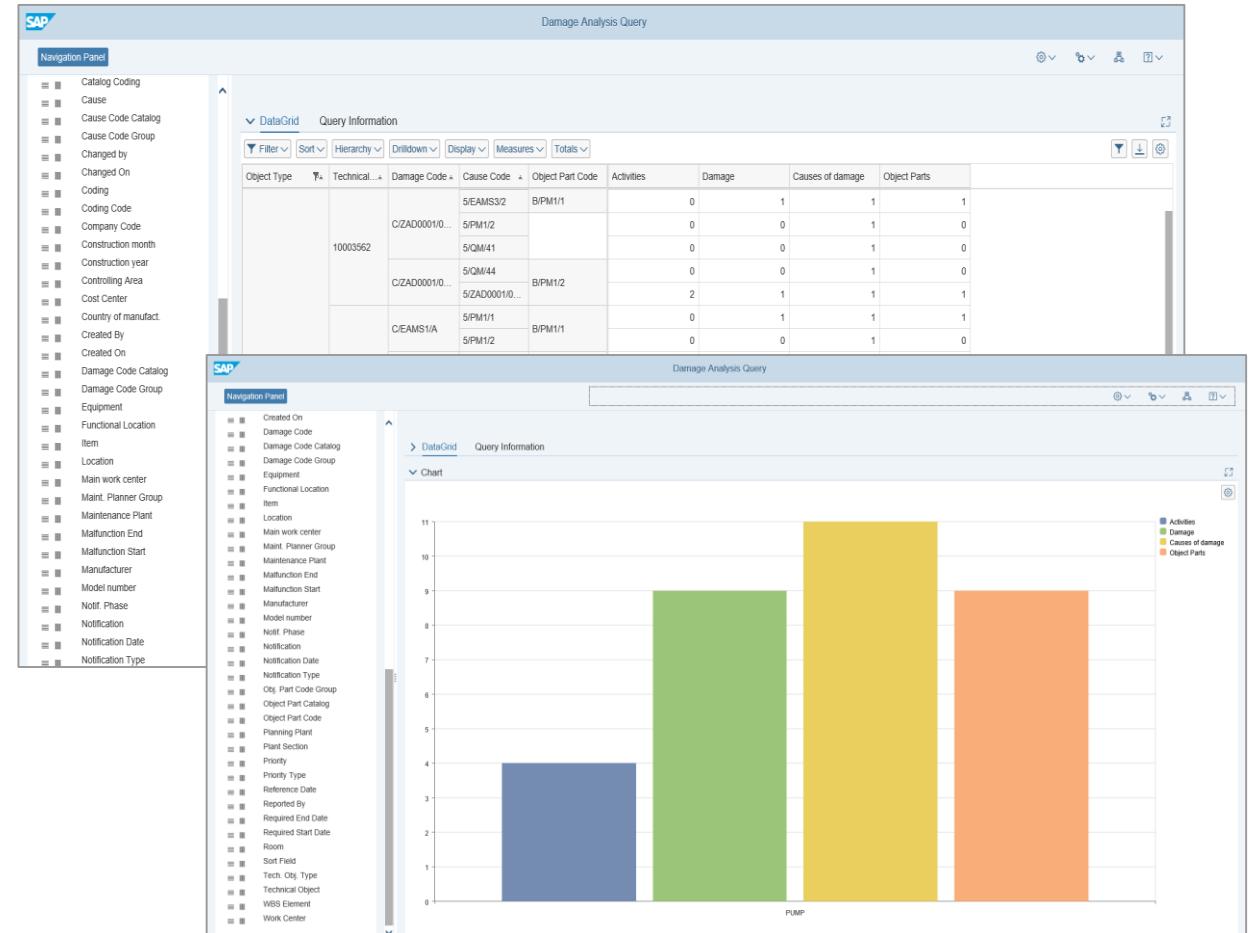
- Analyze how well a group of assets are performing and potential improvements that could result in reduced downtime of assets.
  - Damage analysis
  - Location Analysis
  - Maintenance order analysis
- These queries provide capabilities to perform an analysis of historical maintenance orders and notifications.
- 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.



# SAP S/4HANA

## Result of damage analysis query

- 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

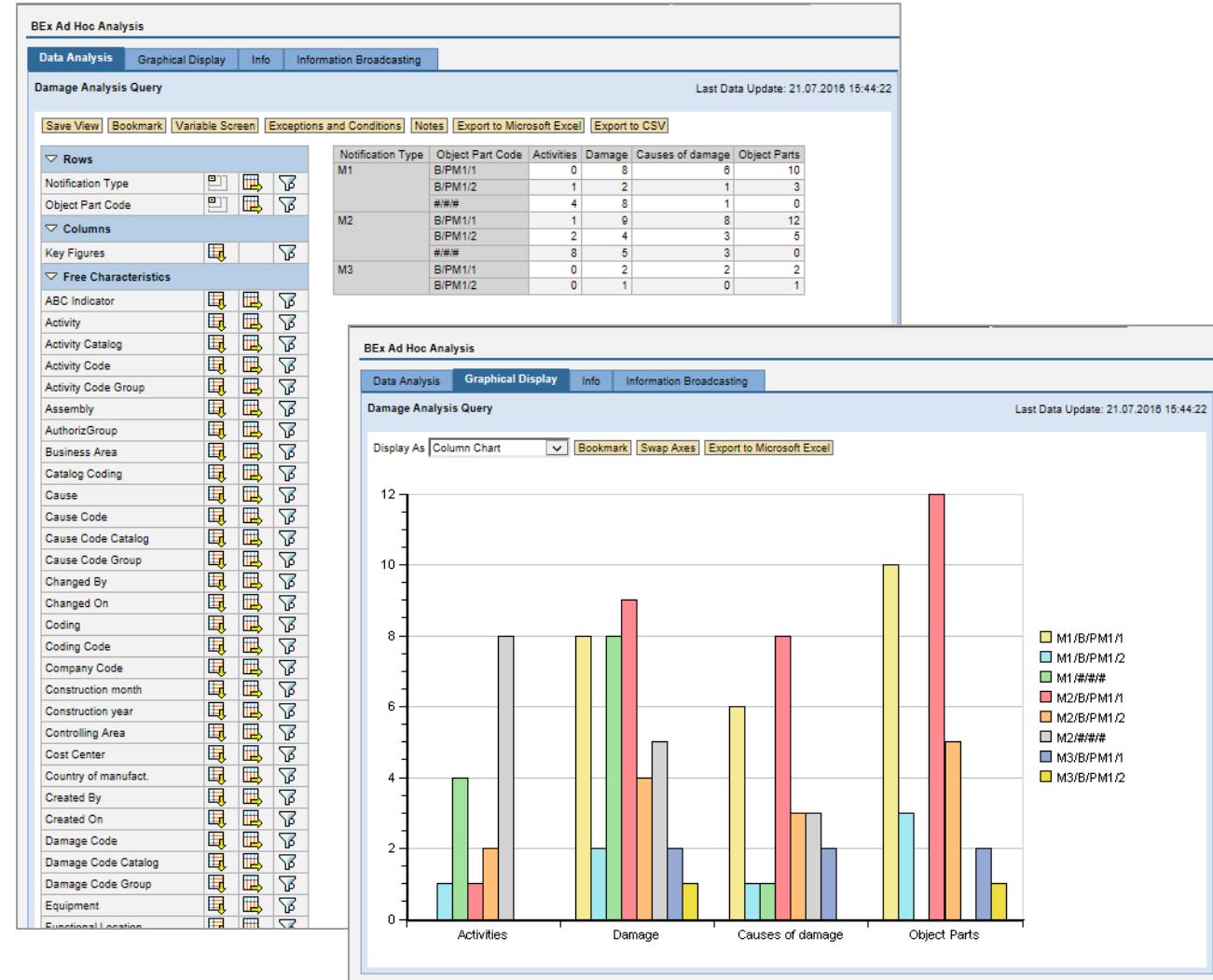
## PM Queries 1610 release

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: 2CIDAMAGEANALYCUBE/2CCDAMAGEANALYQRY
3. Location Analysis Query: 2CILOCANALYSISCUBE/2CCLOCANALYQUERY

The screenshot shows the SAP S/4HANA Embedded Analytics interface. At the top, there's a navigation bar with icons for user, back, home, and SAP logo, followed by 'Query Monitor' and 'Transaction RSRT2'. Below the navigation bar is a toolbar with buttons for 'Execute', '+ Debug', 'Generate Report', 'Properties', 'Help Texts', and 'More'. Under 'More', there are buttons for 'Performance Info', 'Technical Information', 'Cache Monitor', 'Query Variants', 'Get Variant', and 'Create Variant'. In the main area, there's a 'Query:' field containing '2CIMNTORDTOCUBE/2CCMNTORDTOQUERY' and a 'Query Display:' dropdown set to 'WD Grid'. To the right of these fields is a dropdown menu with the following options:

- 0 List
- 1 Analysis Office
- 2 HTML
- 3 ABAP BICS
- 4 ABAP Web
- 5 Java Web
- 6 WD Grid
- 7 WD Grid (embedded)

A red arrow points from the 'Query Display:' dropdown towards the 'Get Variant' button in the toolbar, indicating a relationship between the two.

# Damage Analysis

## BEx Ad Hoc Analysis

**BEx Ad Hoc Analysis**

Data Analysis Graphical Display Info Information Broadcasting

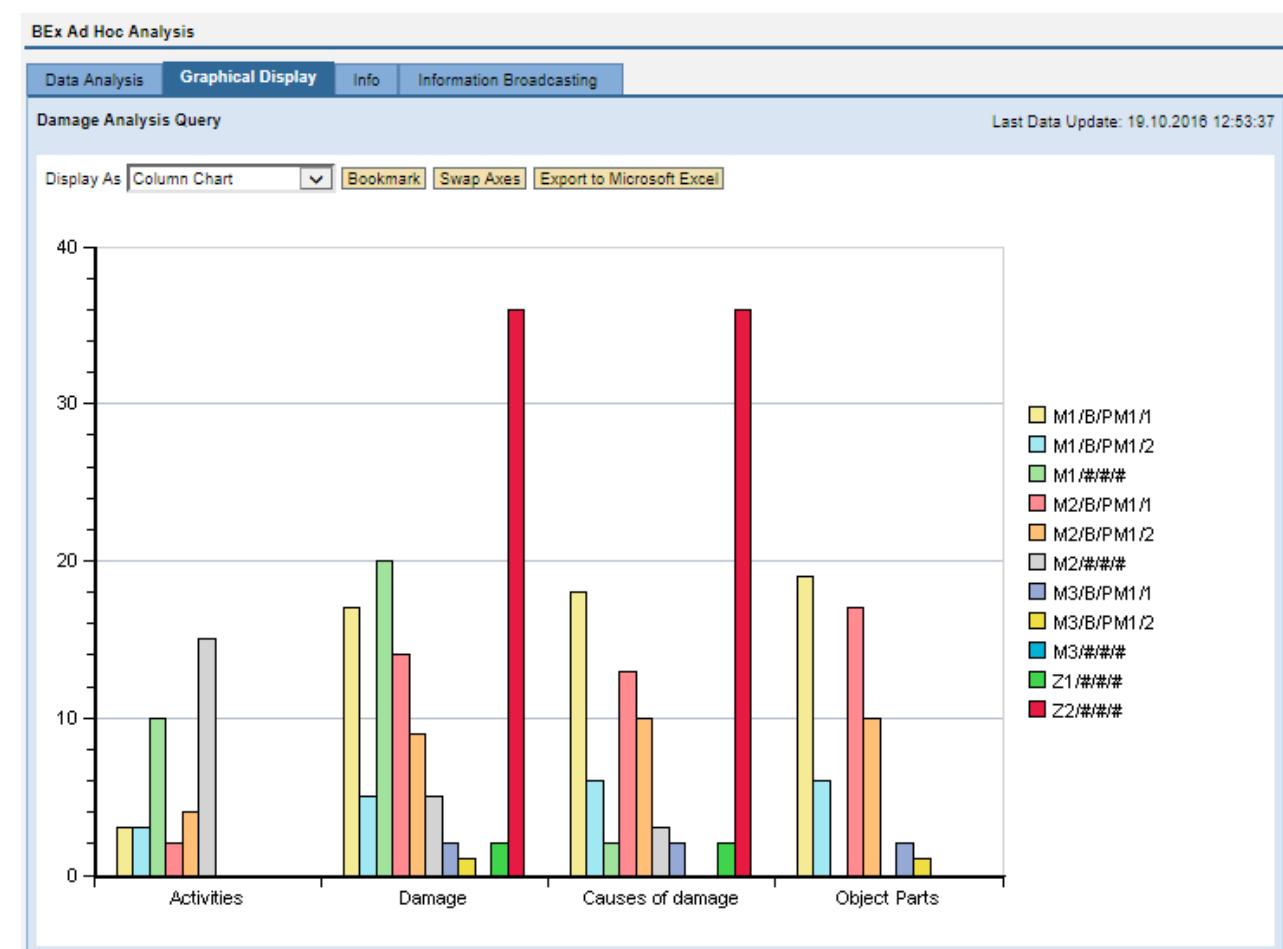
Damage Analysis Query Last Data Update: 19.10.2016 12:53:37

Save View Bookmark Variable Screen Exceptions and Conditions Notes Export to Microsoft Excel Export to CSV

Rows: Notification Type, Object Part Code, Activities, Damage, Causes of damage, Object Parts

Columns: M1/B/PM1/1, M1/B/PM1/2, M1/#/#/#, M2/B/PM1/1, M2/B/PM1/2, M2/#/#/#, M3/B/PM1/1, M3/B/PM1/2, M3/#/#/#, Z1/B/PM1/1, Z1/B/PM1/2, Z1/#/#/#, Z2/B/PM1/1, Z2/B/PM1/2, Z2/#/#/#

Notification Type	Object Part Code	Activities	Damage	Causes of damage	Object Parts	
M1	B/PM1/1	3	17	18	19	
	B/PM1/2	3	5	6	6	
	#/#/#	10	20	2	0	
M2	B/PM1/1	2	14	13	17	
	B/PM1/2	4	9	10	10	
	#/#/#	15	5	3	0	
M3	B/PM1/1	0	2	2	2	
	B/PM1/2	0	1	0	1	
	#/#/#	0	0	0	0	
Z1	B/PM1/1	0	2	2	0	
	Z2	#/#/#	0	36	36	0



# Material availability status for maintenance orders

Transaction: IW38A

PM Orders: Material Avail. Check: Selection of Orders

Settlement Receivers PRT CET

Order status  
 Outstanding  In process Sel.profile  Addr.

Order selection

Order	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Order Type	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Functional Location	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Equipment	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Material	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Serial Number	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Addit. device data	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Notification	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Main work center	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Plant for WorkCenter	<input type="text"/>	to	<input type="text"/>	<input type="button"/>
Period	<input type="text" value="16.06.2016"/>	to	<input type="text" value="14.09.2016"/>	
Partners	<input type="text"/>			
Currency	<input type="text"/>			

Material Availability Check

Display  
 Only Errors and Exceptions  All Messages

Parallel Processing  
 Activate Parallel Processing  
Number of Processing Threads

Save to Application Log

- perform material availability check for multiple orders
- run the check as foreground or background jobs

# Real-Time Maintenance Plan Scheduling

Transaction: IP30H



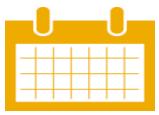
## Increase

asset utilization and  
reduce unplanned asset  
downtime



## Maximize

asset availability



## Up-to-Date

scheduling information  
on maintenance  
operations

### ERP

- Maintenance scheduling consumes a great deal of time

### With S/4 HANA

- Accelerated mass transaction IP30H
- Instant analysis on top of transactions



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



- High number of maintenance plans which need to be scheduled frequently



- 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

# Material availability status for multiple maintenance orders

Transaction: IW38A

Reinvented processes for higher performance

PM Orders: Material Avail. Check: Selection of Orders

Settlement Receivers PRT CET

Order status  
 Outstanding  In process Sel.profile

Order selection

Order	to	<input type="button" value=""/>
Order Type	to	<input type="button" value=""/>
Functional Location	to	<input type="button" value=""/>
Equipment	to	<input type="button" value=""/>
Material	to	<input type="button" value=""/>
Serial Number	to	<input type="button" value=""/>
Addit. device data	to	<input type="button" value=""/>
Notification	to	<input type="button" value=""/>
Main work center	to	<input type="button" value=""/>
Plant for WorkCenter	to	<input type="button" value=""/>
Period	16.06.2016 to 14.09.2016	
Partners		
Currency		

Material Availability Check

Display  
 Only Errors and Exceptions  
 All Messages

Parallel Processing  
 Activate Parallel Processing  
Number of Processing Threads 255

Save to Application Log

- 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				
Order	Check Result	Res. Indicator	Status	Message Text
4004361	Information	◆		Item 0010 FI9-PRD-C701 : Shortage: 1,00 EA (0010/0 )
	Warning	▲		Order 4004361 has missing parts
	Check is successful with some warnings	▲	MSPT	Material availability check for order 4004361 is successful with some warnings
4004360	Information	◆		No missing parts in order 4004360
	Check is successful	■	MACM	Material availability check for order 4004360 is successful
4004340	Information	◆		No missing parts in order 4004340
	Check is successful	■	MACM	Material availability check for order 4004340 is successful
4004301	Information	◆		No missing parts in order 4004301
	Check is successful	■	MACM	Material availability check for order 4004301 is successful
4004300	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004300)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004300 has failed
4004280	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004280 is successful with some warnings
4004221	Information	◆		No missing parts in order 4004221
	Check is successful	■	MACM	Material availability check for order 4004221 is successful
4004220	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004220 is successful with some warnings
4004200	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004200 is successful with some warnings
4004124	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004124)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004124 has failed
4004123	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004123)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004123 has failed
4004122	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004122)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004122 has failed

# Material availability status for maintenance orders

Transaction: IW38A

Reinvented processes for higher performance

Material Availability Check: Result List				
Order	Check Result	Res. Indicator	Status	Message Text
4004361	Information	◆		Itm 0010 FI9-PRD-C701 : Shortage: 1,00 EA (0010/0 )
	Warning	▲		Order 4004361 has missing parts
	Check is successful with some warnings	▲	MSPT	Material availability check for order 4004361 is successful with some warnings
4004360	Information	◆		No missing parts in order 4004360
	Check is successful	■	MACM	Material availability check for order 4004360 is successful
4004340	Information	◆		No missing parts in order 4004340
	Check is successful	■	MACM	Material availability check for order 4004340 is successful
4004301	Information	◆		No missing parts in order 4004301
	Check is successful	■	MACM	Material availability check for order 4004301 is successful
4004300	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004300)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004300 has failed
4004280	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004280 is successful with some warnings
4004221	Information	◆		No missing parts in order 4004221
	Check is successful	■	MACM	Material availability check for order 4004221 is successful
4004220	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004220 is successful with some warnings
4004200	Warning	▲		No material components exist
	Check is successful with some warnings	▲		Material availability check for order 4004200 is successful with some warnings
4004124	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004124)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004124 has failed
4004123	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004123)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004123 has failed
4004122	Error	●		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Information	◆		No checking group is maintained for product IAD_5061, plant PL2 in matl master
	Warning	▲		Maintain availability check for material IAD_5061 in material master (order 4004122)
	Warning	▲		All checked materials are available (look in log).
	Check has failed	●		Material availability check for order 4004122 has failed

- 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

# SAP S/4HANA ASSET MANAGEMENT

DIGITAL CORE

PRODUCTS

SUITE



## 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 S/4HANA**

SAP Asset  
Management  
Cloud for  
resource  
scheduling

Road Map

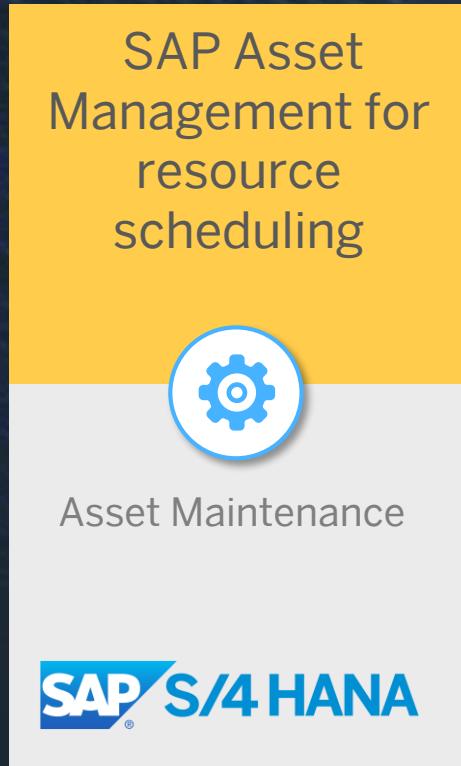
**SAP S/4HANA**

SAP S/4HANA

SAP S/4HANA Cloud

SAP HANA

# SAP S/4HANA Asset Management for resource scheduling



## Product Innovation

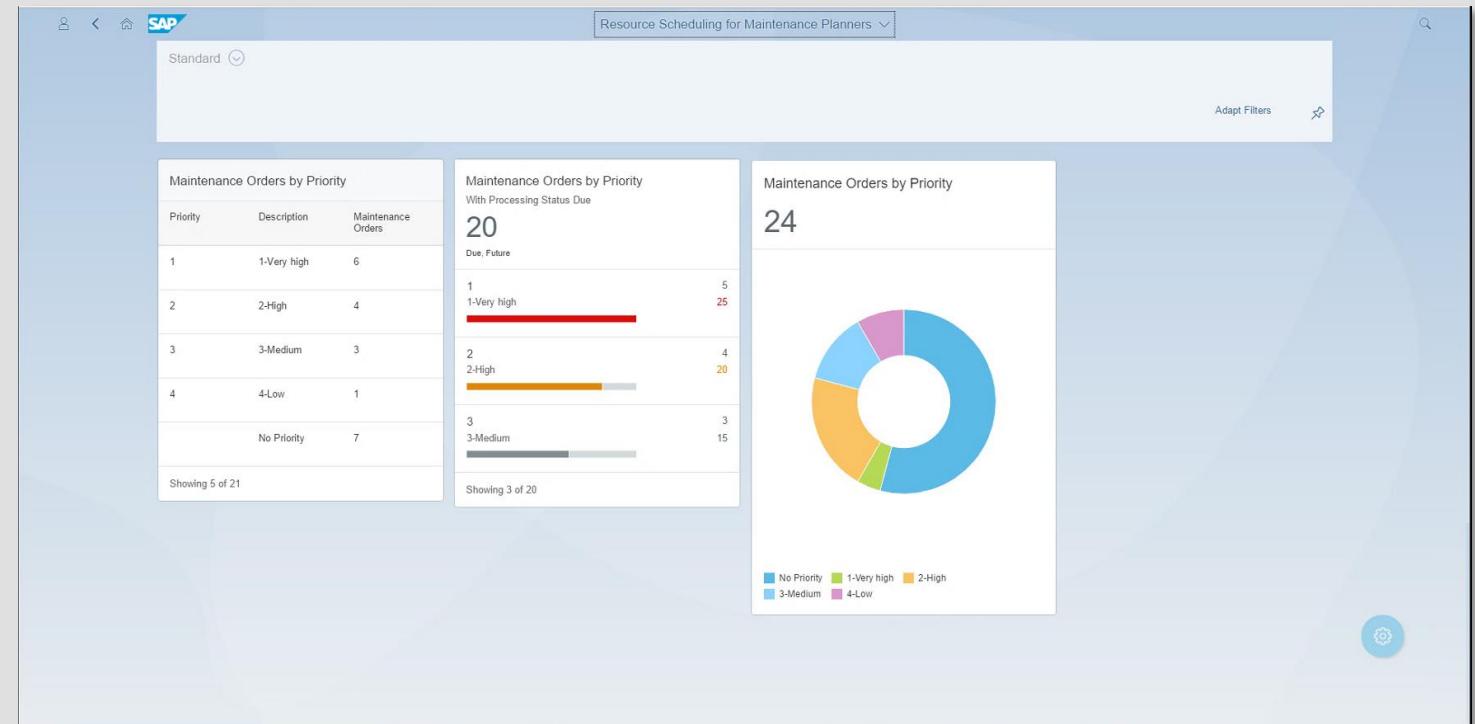
- On premise
- SAP S/4HANA core
- Availability January 2017
- SAP HANA optimized
- SAP Fiori User Experience
- Process simplified
- Annual Innovation Cycles



# 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



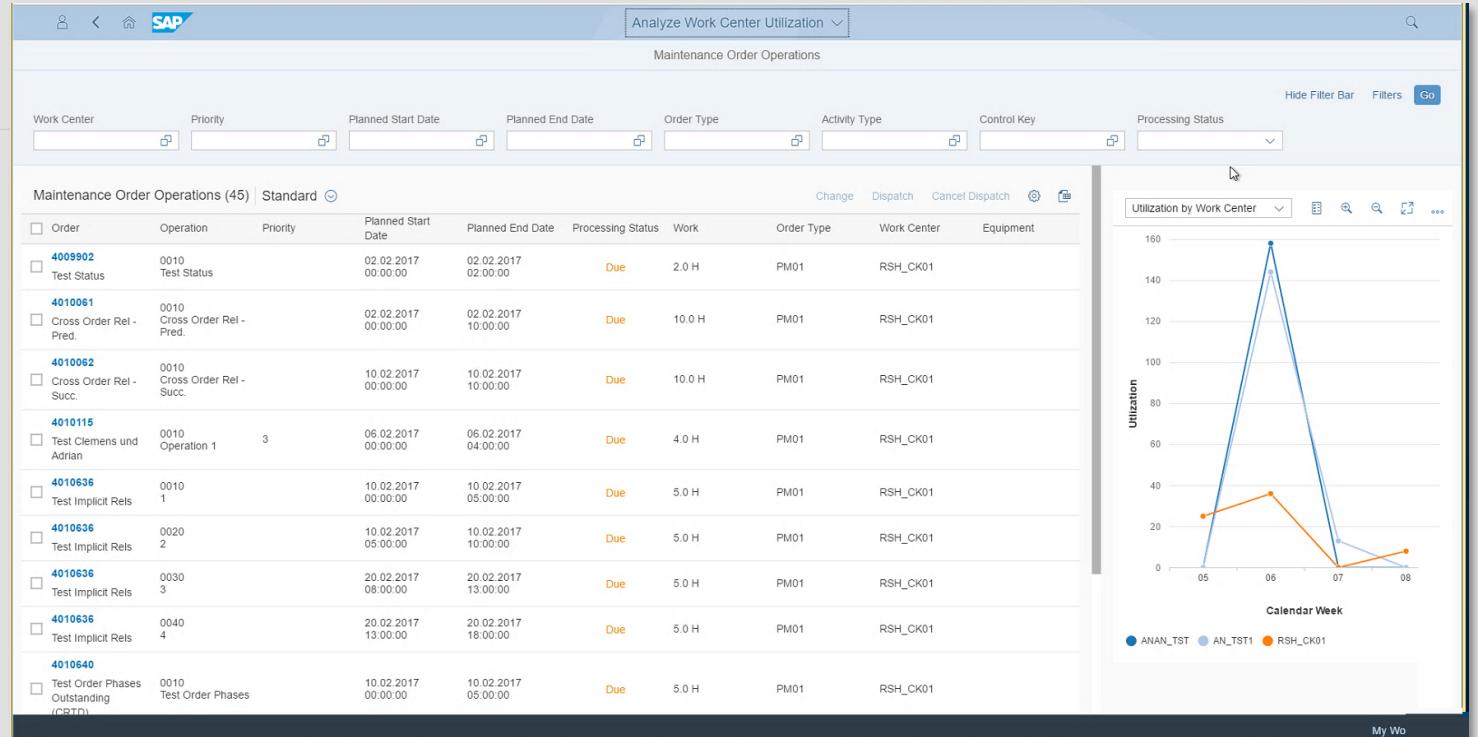
# SAP S/4HANA Asset Management for resource scheduling Solution Launch



## Release 1610

### Maintenance Planner

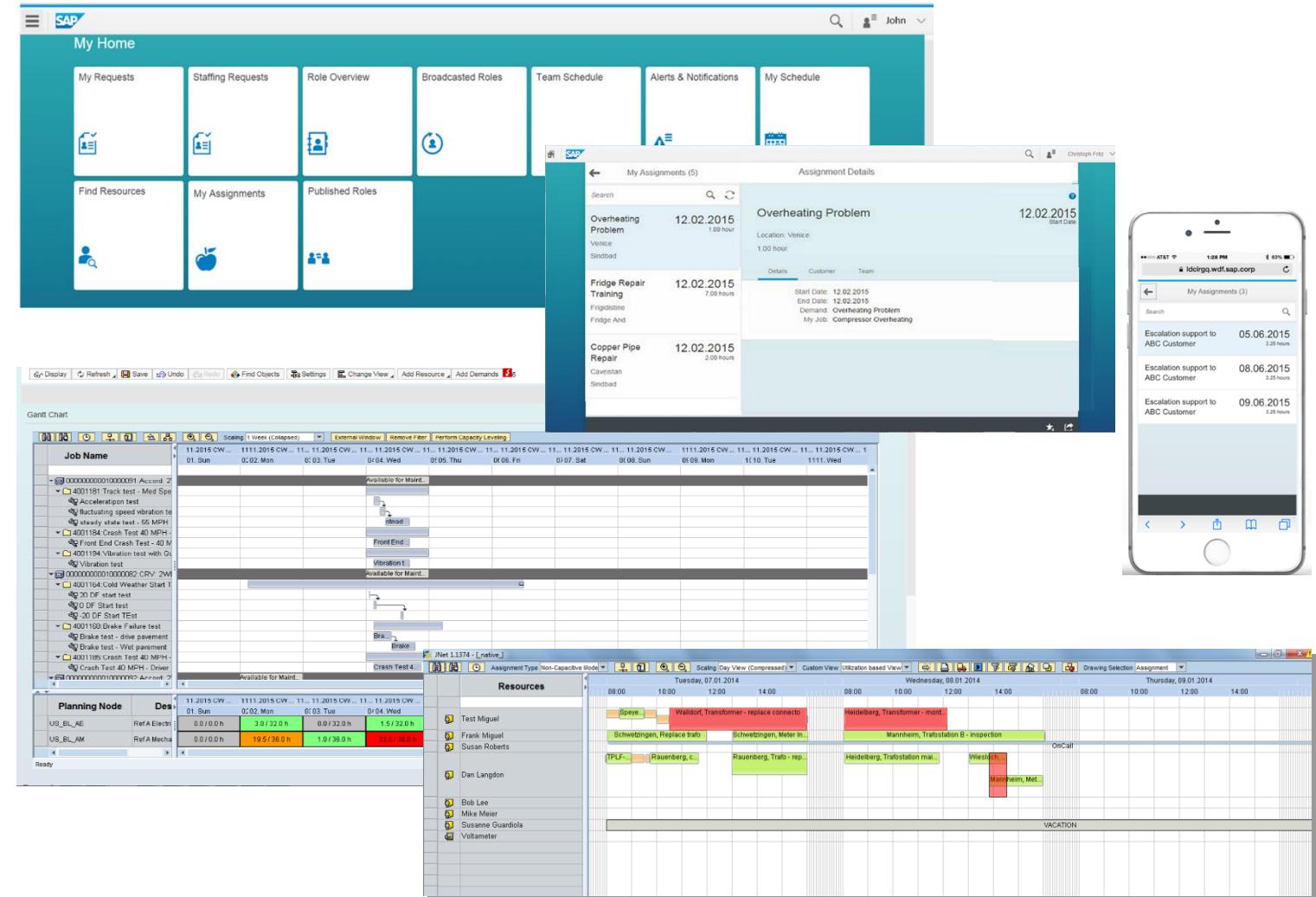
- Analysis of Work Center utilization
- Overview page with work center utilization
- Navigation to work order operation information



# 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

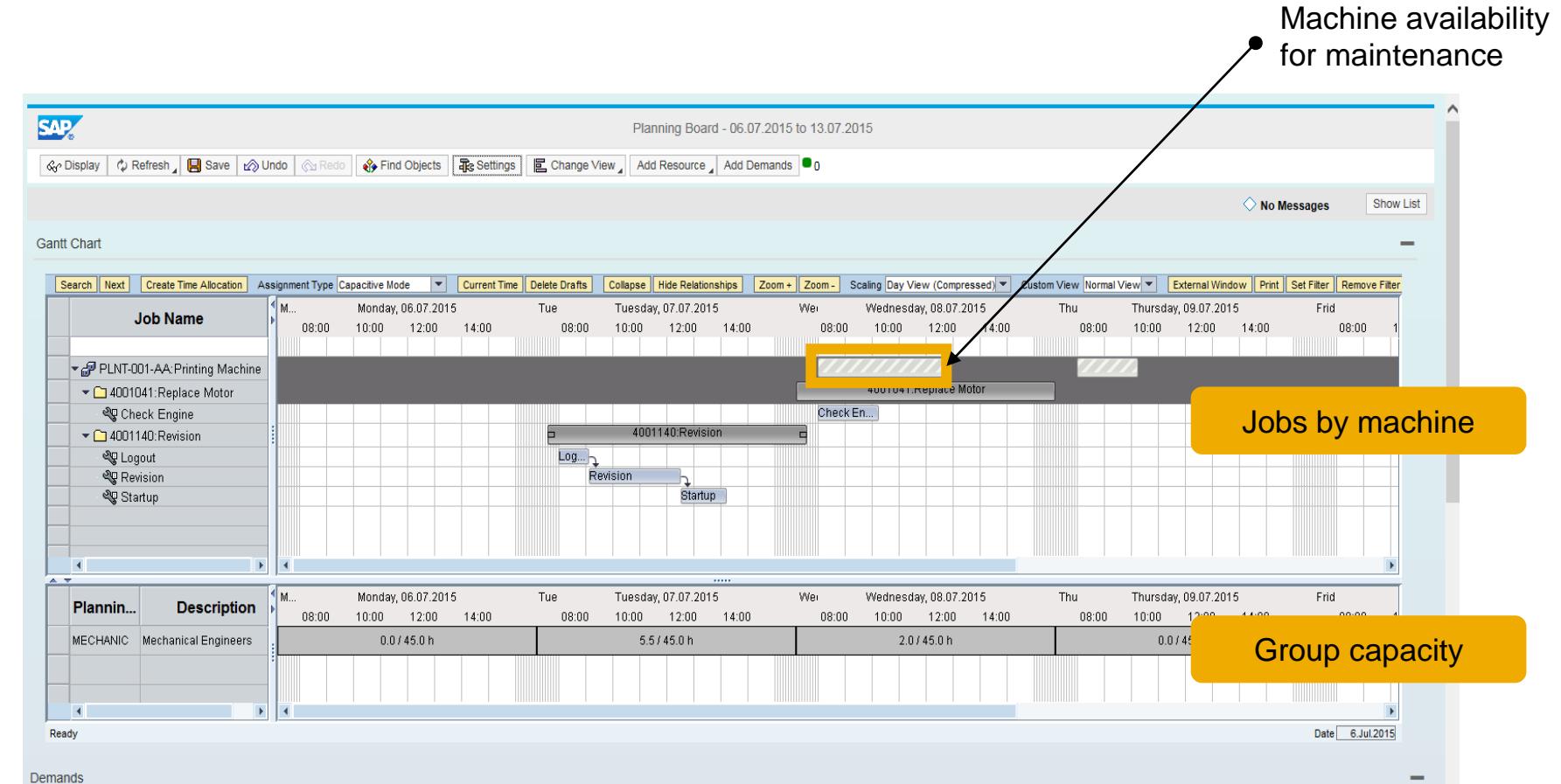


# SAP Multi-resource Scheduling, EAM scheduling view

Align with operations/production for machine availability for maintenance

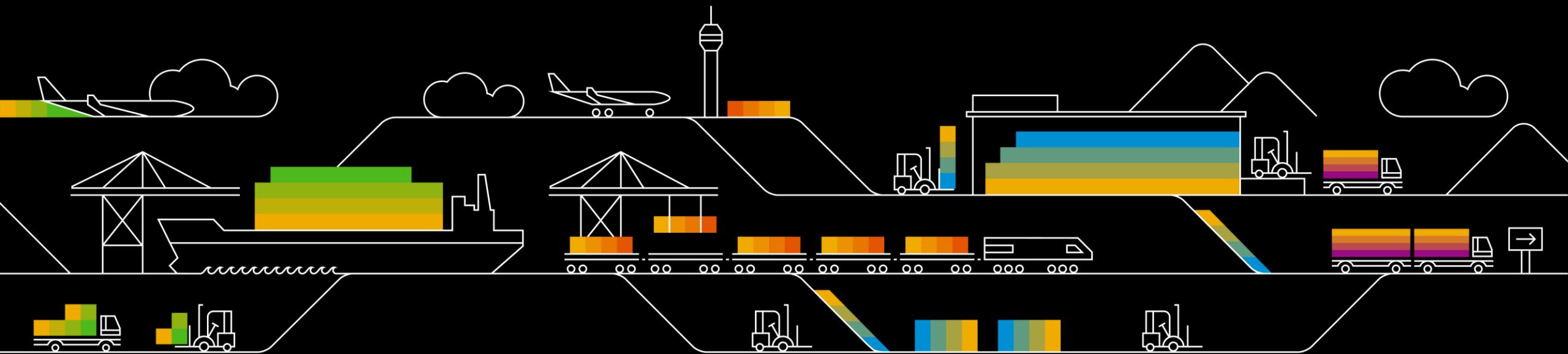
SAP Multiresource  
Scheduling visualizes  
capacities and  
availabilities at a group  
level.

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.

The image displays the SAP Fiori app interface for Simplified Breakdown Maintenance. It includes a tablet view showing the main dashboard with sections for Corrective Maintenance, My Apps, and Jobs. Three detailed screenshots of the 'Process Malfunction Report' screen are shown below. The first screenshot shows the initial report for 'Pump is leaking (R3449383)' with tabs for MALFUNCTION (2), JOB DETAILS (2), ATTACHMENTS, NOTES, and REFERENCES. The second screenshot shows the 'Job Details' section with tabs for Work, Parts, and Attachments, including a list of work items and attachments like 'Defective Pump\_Line 3.jpg'. The third screenshot shows the 'Parts' section with a table for adding parts, and the fourth screenshot shows the 'Attachments' section with the same attachment file listed.

Labs Preview

# Manage the End-to-End process “Respond to Breakdown”



Lab Preview

## 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

Report and Repair Malfunction ▾

Pump is leaking 10001169

MALFUNCTION JOB DETAILS ▾ ATTACHMENTS Edit

**Malfunction**

Effect:  
Production breakdown (3)

Failure Mode:

Long Text:  
11/30/2016 13:28:02 UTC S. Bantlin (CB9980000698) Phone +49 811 5545 292  
Leakage of oil spills oil on the ground. has to be fixed asap

Current Location:

**Technical Object Details**

Technical Object:  
210100091

[Details](#) | [History](#)

Manufacturer:

Planning Plant:  
1010

**Job Details**

Work (2) | Standard

Work Item	Work Center	Assigned To	Planned Effort	Status	Actions
decouple electricity 0010	RES-0100	Bantlin Stephan	3.0 H	Created	
change sealings 0020	RES-0100	Rathod Hemant	4.0 H	Created	

# Manage the End-to-End process “Respond to Breakdown”



Lab Preview

## 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

BILL OF MATERIAL HISTORY ALL MATERIALS					
Results for Technical Object "PGEAM100000001" (0) Standard					
	Material	Image	Quantity in BOM	In Stock	Quantity
	EAMT-MAT-BOM		1 ST	Not Available	<span>-</span> <span>1</span> <span>+</span> ST
	EAMT-MAT-SP01		1 ST	Available	<span>-</span> <span>1</span> <span>+</span> ST
	EAMT-MAT-SP02		2 ST	Available	<span>-</span> <span>2</span> <span>+</span> ST
	EAMT-MAT-SP03		3 ST	Available	<span>-</span> <span>3</span> <span>+</span> ST
	EAMT-MAT-SP04		4 ST	Available	<span>-</span> <span>4</span> <span>+</span> ST

# Manage the End-to-End process “Respond to Breakdown”



Lab Preview

## 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

Standard *		Plant		Storage Location		Adapt Filters (3)
Image	Material	Plant	Storage Location			
<b>Results (1)</b>						
<b>Image</b> <b>Material</b> <b>In Stock</b> <b>Quantity</b> <b>Actions</b>						
	EAM: Spare Part 1 EAMT-MAT-SP01	Available	- 1 +	ST	<a href="#">Add</a>	

# Manage the End-to-End process “Respond to Breakdown”



Lab Preview

## Respond to Breakdown

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

## Supported Process Steps

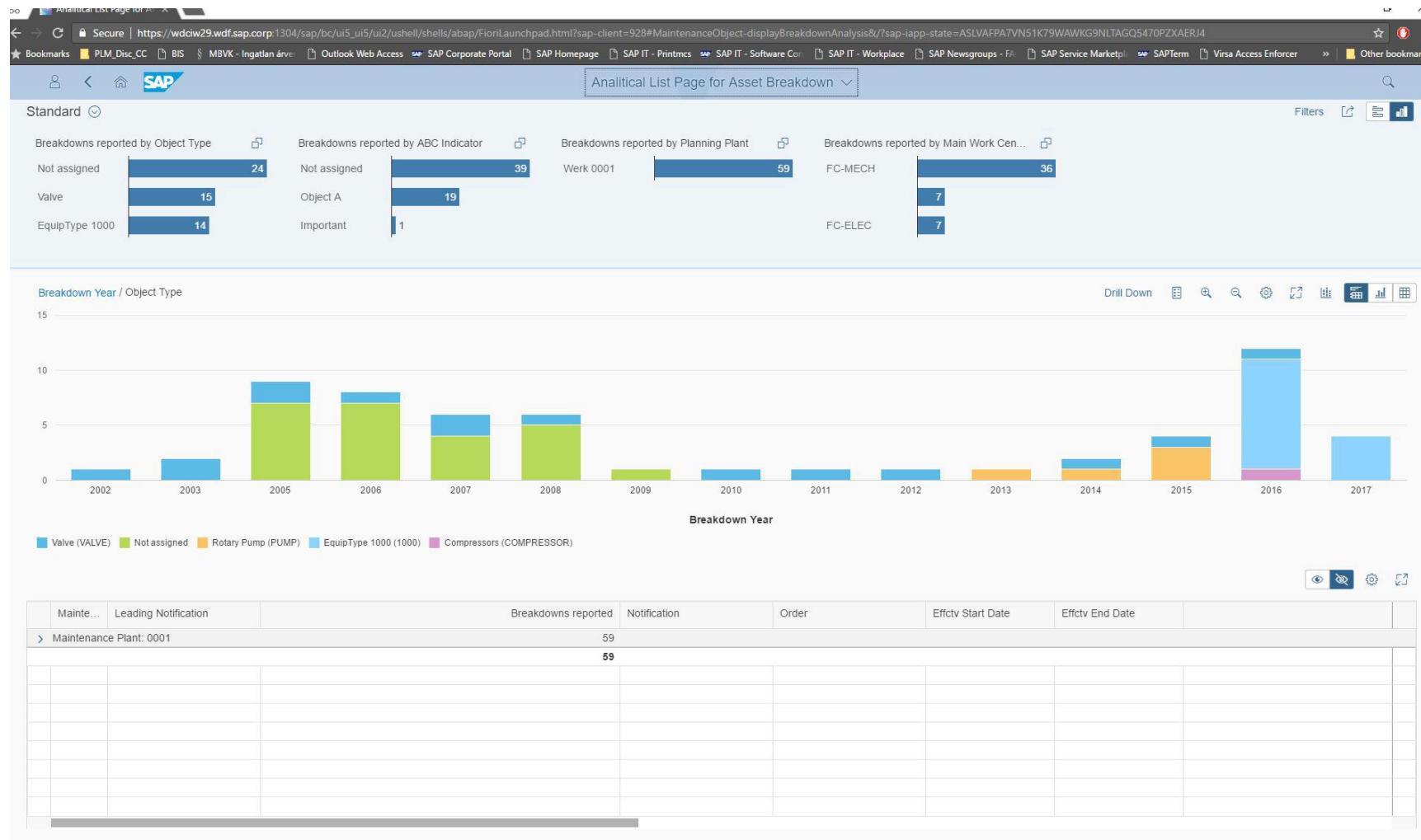
- Create Malfunction incl. upload of Pictures from Device
- Easy Planning of Resources needed
  - Work center
  - Material
- Support the search for Material
  - Bill of Material
  - Historical Consumption
  - Free material search
  - Via Barcode

The screenshot shows the SAP Fiori interface for 'Report and Repair Malfunction'. At the top, there's a search bar with 'test (10001225) / Select Parts' and a dropdown for 'Standard'. Below the search bar, there are filters for 'Plant' (set to '=1010'), 'Storage Location' (set to '=101B'), and 'Material Type' (set to '=ERSA'). A button 'Adapt Filters (4)' and a 'Go' button are also present. The main area is titled 'Results (2)' and contains two entries:

Image	Material	On Stock	Quantity	Add to My Report
	000000000000000234 PR Screw	Available	1 PC	<button>Add</button>
	PR SCHRAUBE Screw M 10X10	Not Available	1 PC	<button>Add</button>

# Break Down Analysis

# *Lab Preview*



## KPI:

- Number of breakdown
  - MTTR
  - MTBR

## Characteristic:

- Object Type
  - ABC Indicator
  - Work Center

5

# SAP S/4HANA Search

## Sophisticated search capabilities are essential for large amounts maintenance objects

Plan      Execute      Analyze

Lab Preview

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

The screenshot shows the SAP HANA Enterprise Search interface. On the left, there is a sidebar with search filters and navigation options. The main area displays a list of search results for equipment objects, each with details such as Equipment Description, Category, ABC Indicator, Maintenance Planning Plant, and Location. The results are paginated, with page 1 of 1 shown. The interface includes standard SAP navigation elements like back and forward buttons, and a red 'Lab Preview' button is visible in the top right corner.

Equipment Description	Category	ABC Indicator	Maintenance Planning Plant	Location
BPPUMPODATATEST02	M	A	0001	0001
STB2-TAG	M	2	P001	
BPEQUI01	M	-	0001	
BPEQUI03	M	-	0001	
BPEQUI02	M	A	0001	
SE-1000-HR02	B	1	P010	

# S/4HANA 1610

## Maintenance Management – Summary

### 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

The top screenshot displays a detailed view of a maintenance request for a 'Globe Pump' (STB2-TAG). The request is for a 'Pump is not starting' issue at location '001'. It includes fields for description, location, and status, along with details about the equipment (Category: M\_Machines, Object Type: PUMP\_PUMP), supervisor equipment (Model number: 8196, Manufacturer: GOULDS PUMPS, INC.), and responsibility (Work Center: STB-M, Planner Group: STB, Planner: Stephan B. I.). The bottom screenshot shows a list of notifications and orders for the same asset, including a notification for a pump failing and another for a regular inspection.

### ▪ 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

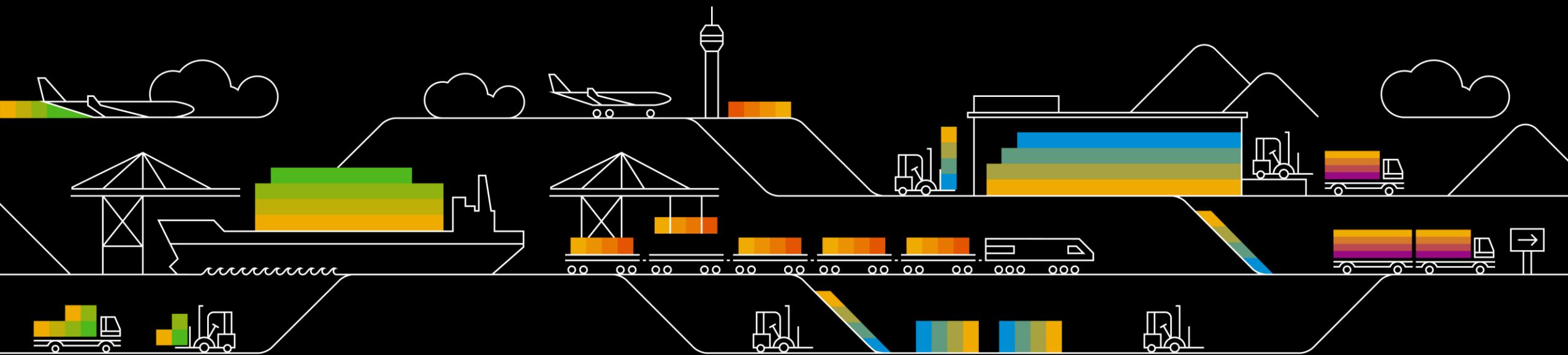
- SAP Work Manager available

### ▪ Asset Planning and Scheduling

- MRS Add-on available

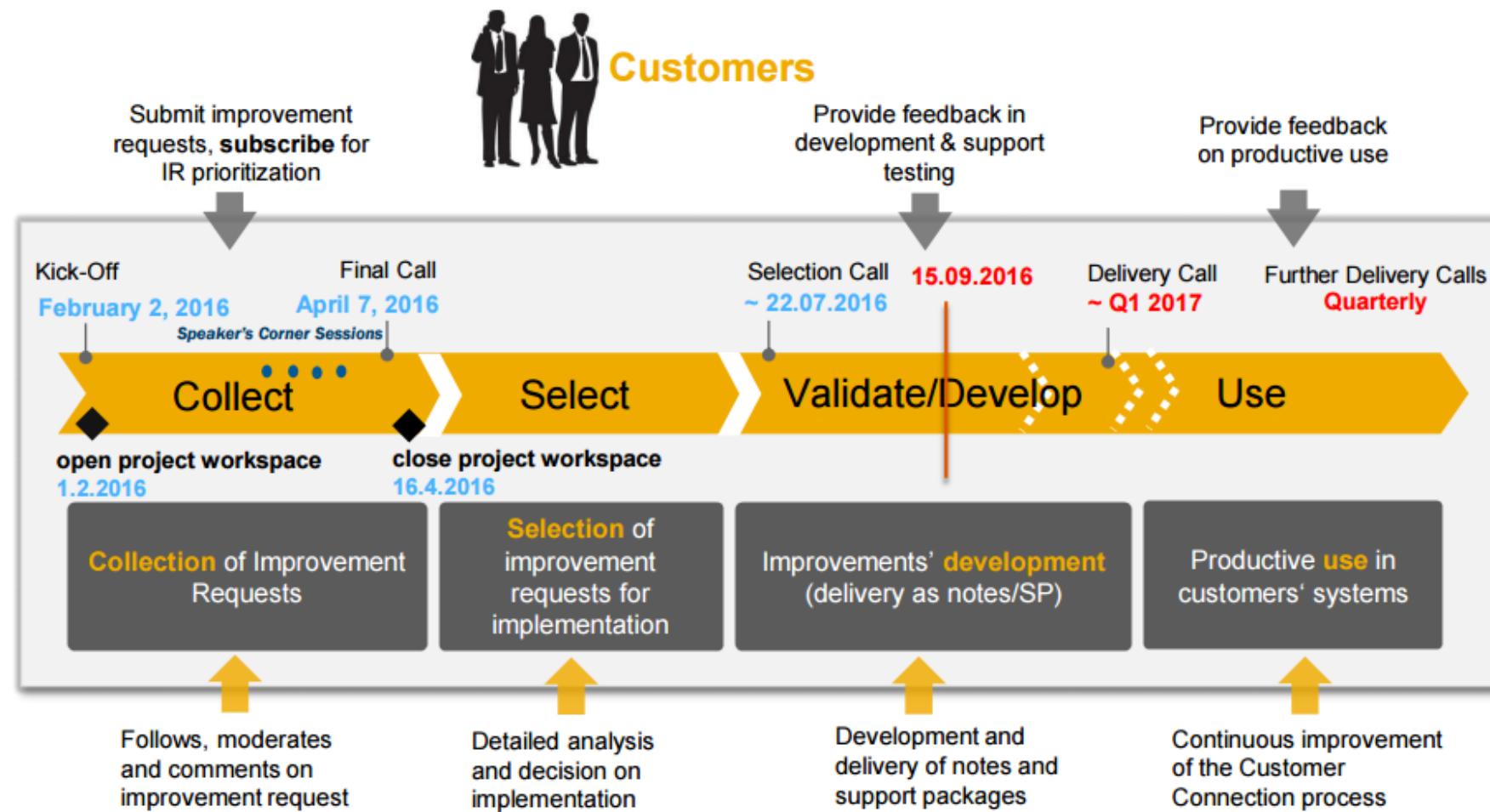
# EAM Customer Connection

## Cycle 4



# EAM Customer Connection – Cycle 4

## Overview of Project Timelines



# EAM Customer Connection – Cycle 4

The screenshot shows the SAP Customer Influence platform interface. At the top, there's a navigation bar with links like 'Customer Influence', 'Collaborate and Co-Innovate', 'Search this project', 'Welcome, Dean Fitt!', and 'Logout'. Below this is a secondary navigation bar with 'Projects by ...' and 'Lines of Business' sections. The main content area is titled 'SAP EAM Plant Maintenance (2016)'. It features a yellow header bar with tabs: 'Home' (selected), 'Requests' (highlighted in orange), 'Documents & Events', and 'Project Results'. Below this are five status boxes: 'Define Completed', 'Collect Completed', 'Select Completed', 'Develop 8 months left', and 'Use Starts in 8 months'. A 'Focus Topic Description' section explains the SAP EAM solution's purpose. The 'Scope of project' section details the project areas, including 'In scope' (Task Lists, Maintenance Planning, Order/Notification) and 'Out of Scope' (Downports to EHP5 and below). A 'Recent Blog Posts' sidebar lists several blog entries. On the right side of the main content area, there's a blue callout box with options: 'Submit new request', 'You are following this project', 'Send as email', and 'Contact project manager'. Below this is a 'Focus Topic Statistics' box showing 236 requests, 585 comments, 3,406 subscriptions, and 1,131 visitors.

<https://influence.sap.com/EAMPMPRM>

## Summary

236 Requests

585 Comments

3406 Subscriptions

1131 Visitors

# Summary

## How to find additional information Recap of key points

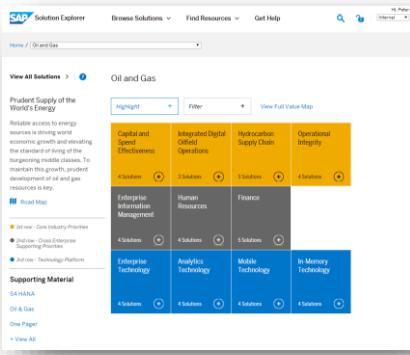


# How customers get info on SAP Solutions and Products - Today

## Business View/ Value Map Structure

### Value Maps / Solution Explorer

[sap.com/solutionexplorer](http://sap.com/solutionexplorer)



### Industry / Line of Business View for Customers and Prospects

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

### Solution Road Maps

[sap.com/roadmaps](http://sap.com/roadmaps)



### Solution / Portfolio View for Customers

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

## Product/ Functional View

### Innovation Discovery

[sap.com/innovationdiscovery](http://sap.com/innovationdiscovery)



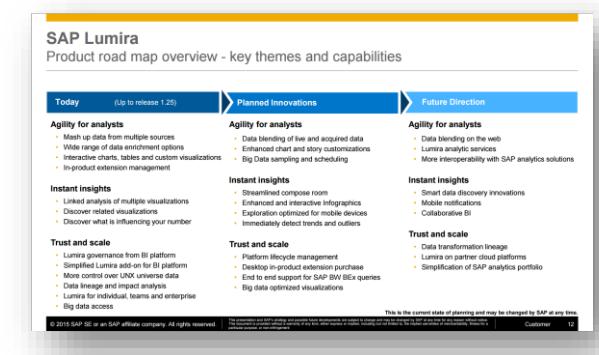
### Online Innovation/ Product/Feature View for Customers

Innovation based

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

### Product Road Maps

[sap.com/roadmaps](http://sap.com/roadmaps)

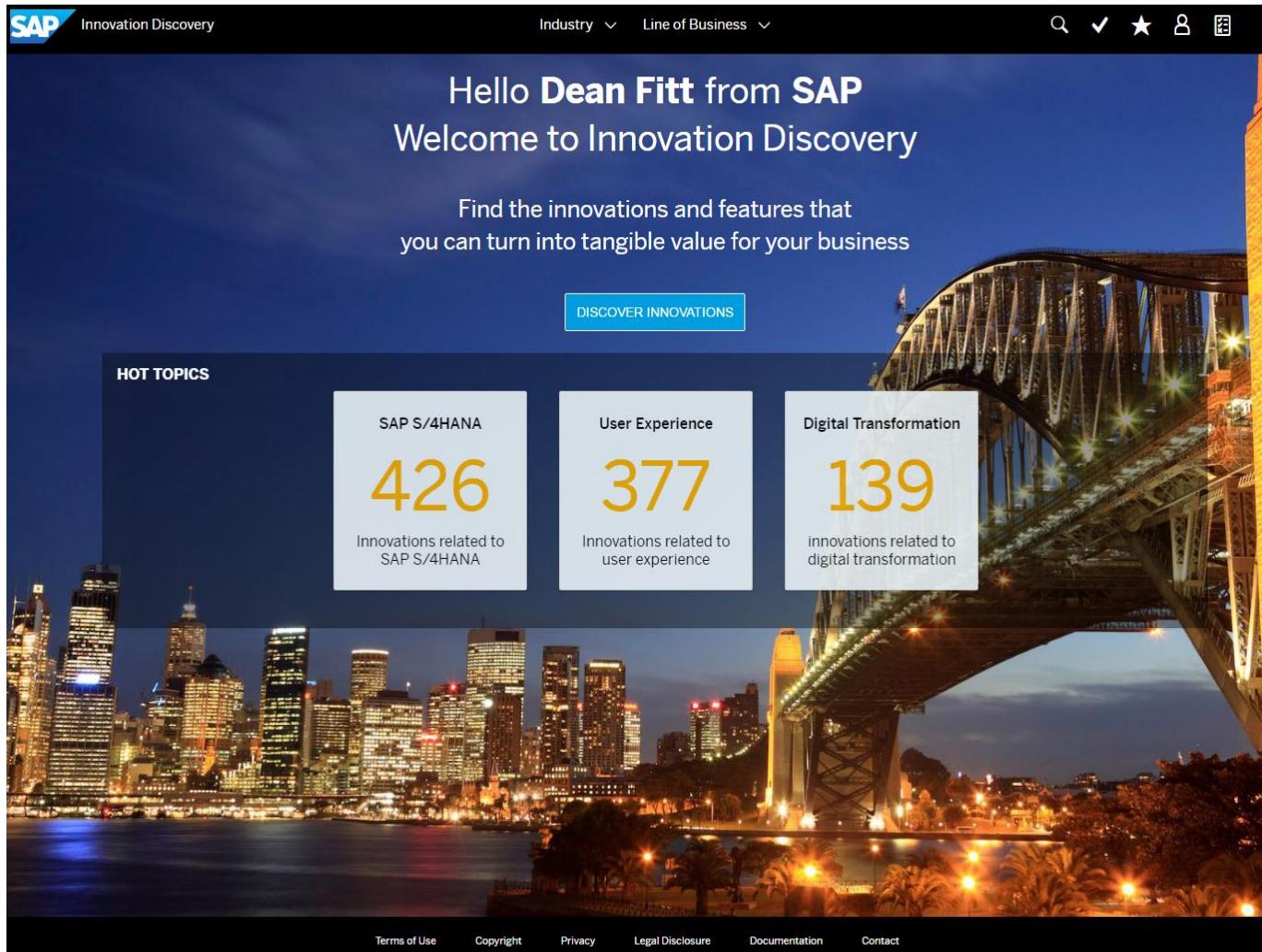


### Product Overview/ Feature View for Customers

I want to see the feature level plans for a product

# Innovation Discovery

Searching for innovations that best fit your purpose



The screenshot shows the SAP Innovation Discovery interface. At the top, there's a navigation bar with the SAP logo, 'Innovation Discovery', 'Industry' (with a dropdown arrow), 'Line of Business' (with a dropdown arrow), and search icons (magnifying glass, checkmark, star, etc.). Below the header is a main banner with a night photograph of the Sydney Opera House and Harbour Bridge. The banner text includes 'Hello Dean Fitt from SAP', 'Welcome to Innovation Discovery', and 'Find the innovations and features that you can turn into tangible value for your business'. A blue button labeled 'DISCOVER INNOVATIONS' is visible. On the left, a sidebar titled 'HOT TOPICS' lists three categories with counts: 'SAP S/4HANA' (426), 'User Experience' (377), and 'Digital Transformation' (139). Each category has a small description below the count. At the bottom of the page, there are links for 'Terms of Use', 'Copyright', 'Privacy', 'Legal Disclosure', 'Documentation', and 'Contact'.

## 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

The screenshot shows the SAP Innovation Discovery interface. At the top, there are filters for 'Industry' and 'Line of Business'. Below the header, it says 'We found 104 Innovations'. A sidebar on the left lists categories like Industry, Line of Business, Product, Spotlight, and Availability, with 'Asset Management' selected under Industry. The main content area displays three innovation items:

- SAP Manufacturing Integration and Intelligence 15.1, FP1 – enhancements**  
Available from: February 02, 2016. This item has a yellow circle with '2' indicating two notifications. It lists several bullet points about enhanced integration of KPIs, gauge charts, and energy monitoring.
- SAP Fiori apps for employees for maintenance in SAP S/4HANA, on-premise edition**  
Available from: February 01, 2016. This item has a yellow circle with '3' indicating three notifications. It lists features for managing maintenance requests using Fiori.
- Enterprise search functionality and a master data information center within the SAP Enterprise Asset Management solution**  
This item lists enhanced search functionality within the SAP EAM solution.

At the bottom right of the main content area, there is a yellow circle with '5' indicating five notifications.

## 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

The screenshot displays the SAP Innovation Discovery interface. At the top, there are navigation dropdowns for 'Industry' and 'Line of Business', a search bar, and a 'My Systems' button. Below the header, there's a banner with a yellow-to-orange gradient.

**Improvements in Asset Operations Maintenance**

The requirements have been triggered by different user groups.

- Improved maintenance planning and execution
- Improved maintenance efficiency / simplicity in Master Data
- Better possibility to integrate from external systems to SAP

**Benefits**

- Mass Change of Maintenance Plans
  - Mass change of Maintenance Items
  - Change of Notification Type
  - Follow On Order
  - Set Notification Codes inactive
  - Inactivation of dependant object when setting Technical Object inactive
  - Allow Shop Papers to be printed before Release and after Technical OCompletion
  - Counting List entries in all PM Lists
  - BAPI for influencing Compatible Unit Bundling Logic
  - Additional features in EAM BAPI's

**Product Features**

- New Row Counter in ALV Lists
- Creating Follow-On Orders
- Mass Change of Maintenance Plans and Items
- Additional Order Statuses in Order List
- Preprinting and Reprinting Maintenance Orders
- Changing the Notification Type

**Technical View**

Product Feature	Software Product Version	Support Package Stack	Is Feature Package	Business Function	Software Component Version	Support Package
New Row Counter in ALV Lists	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207
Creating Follow-On Orders	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207THEAAPP
Mass Change of Maintenance Plans and Items	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207THEAAPP
Additional Order Statuses in Order List	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207THEAAPP
Preprinting and Reprinting Maintenance Orders	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207THEAAPP
Changing the notification type	EHP7 FOR SAP ERP 6.0			LOG_EAM_CI_7	EA-APPL-017	SAPPH-0207THEAAPP

**System Specific Usage**

- OW2

## 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

SAP Innovation Discovery

Industry ▾ Line of Business ▾

We found 9 Innovations

P76-High Business Impact | Clear All | Save Selection

CATEGORIES

- Industry: Delivered 9, Planned 10
- Line of Business
- Product
- Spotlight
- Availability

FILTER INNOVATIONS BY

**Solution enhancements have been made in key areas such as exposure management and position reporting**

Transfer physical commodity deals and follow-on documents (sales and distribution and materials management functionality in SAP ERP) into raw exposures (SAP Treasury and Risk Management). Sales and purchase orders, deliveries, goods issues and receipts, quality management and batches, and invoices supported: create, update, update of positions driven by batch and quality changes Enhancements in fixed and floating exposure management Enhanced Mark to Market calculation of fixed and floating exposures Support of composite products with multiple commodities Initial load of exposures

Available from: August 13, 2013 ★

**Commercial Project Inception & Lean Staffing 2**

- Added flexibility and use cases with new capabilities for lean staffing
- Added flexibility and use cases with new capabilities for commercial project inception

Available from: November 08, 2011 ★

**Commercial Project Inception & Lean Staffing**

**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

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

Product Feature	Software Product Version	Support Package Stack	Is Feature Package	Business Function	Software Component Version	Support Package
Integration of commodity sales contracts (outline agreements) into SAP TRM	EHP7 FOR SAP ERP 6.0			LOG_TRM_INT_2	SAP APPL 6.17	
Integration of commodity purchase contracts (outline agreements) into SAP TRM	EHP7 FOR SAP ERP 6.0			LOG_TRM_INT_2	SAP APPL 6.17	
Enhanced Integration of Commodity Purchase Orders into SAP TRM	EHP7 FOR SAP ERP 6.0			LOG_TRM_INT_2	SAP APPL 6.17	
Enhanced Integration of Commodity Sales Orders into SAP TRM	EHP7 FOR SAP ERP 6.0			LOG_TRM_INT_2	SAP APPL 6.17	
Integration of Commodity Stock into SAP TRM	EHP7 FOR SAP ERP 6.0			LOG_TRM_INT_2	SAP APPL 6.17	
Configurable User Interface for Pricing	EHP7 FOR SAP ERP 6.0			LOG_SD_COMMODITY_02	SAP APPL 6.17	

## Technical View

System Specific Usage						
P20	P76					
Product Feature	Ready to Use	Business Function	Status	Measurement Object	Step Count	Number of Users
Integration of commodity sales contracts (outline agreements) into SAP TRM	Ready to Use	LOG_TRM_INT_2	Not Activated	VA43	6	15
Integration of commodity purchase contracts (outline agreements) into SAP TRM	Ready to Use	LOG_TRM_INT_2	Not Activated	VA43	6	15

# 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.

Contact information:

**Dean Fitt**

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[dean.fitt@sap.com](mailto:dean.fitt@sap.com)

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