

Appendix B Overviews

from

Plant Maintenance with SAP®: Business User Guide



asset management
work orders, re
preventive main
phase model, no
checklists, str

< **SAP** Maintenance Scheduling Board ▾

Standard ▾

2 filters active: Time Period, Planning Plant

Standard ▾ Orders ▾

Maintenance Orders (14)

	Mainten...	F...	Ma...	Pl...	Pr...	Pl...	Fi...
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	24...	
<input type="checkbox"/>	> 400	RE...	No...	No...	Due	24...	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	2490	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	2499	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	2490	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	2490	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	10...	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	10...	
<input type="checkbox"/>	> 400	ME...	No...	No...	Due	10...	

Assign ▾ Trigger Order Scheduling Change Dis

September 2025
9.9. 13.9. 17.9.



Appendix B

Overviews

Appendix B contains useful additional information. It includes overviews of:

- SAP Fiori apps using SAPUI5 technology for maintenance
- SAP Fiori apps using Web Dynpro technology for maintenance
- Structuring tools
- Functions of notifications and orders
- Integration capabilities for maintenance in SAP
- Details about plant maintenance information system reports

B.1 SAP Fiori Apps with SAPUI5 Technology

This list is sorted chronologically by publication date.

App ID	App Title	App Description
F1511	Request Maintenance	Request the repair of a technical object.
F2072	Find Technical Object	Display a list of technical objects in your system.
F2071	Find Maintenance Notification	Display a list of notifications including mass change.
F2175	Find Maintenance Order	Display a list of orders including mass change.
F2173	Find Maintenance Orders and Operations	Display a list of orders and related operations, including confirmations.
F2174	Find Maintenance Confirmations	Display a list of order confirmations.
F2222	Analyze Work Center Usage	Analyze and manage work center utilization.
F2227	Resource Planning	Monitor key performance indicators (KPIs) for work centers.
F2774	Mass Scheduling of Maintenance Plans	Schedule all maintenance plans due within a specific time period.
F2812	Technical Object Breakdowns	Analyze failures and calculate downtime, repair duration, and time between repairs.

App ID	App Title	App Description
F2023	Report and Repair Malfunction	Report a malfunction, plan necessary repairs, and document actual execution times.
F2465	Mass Availability Check	Perform material availability checks for multiple maintenance orders or schedule them as recurring batch jobs.
F2412	Manage Teams and Responsibilities	Manage teams and team members responsible for specific tasks.
F2603	Maintenance Planning Board	Visualize orders, operations, and sub-operations of work centers on a timeline.
F2953	My Inbox - Maintenance	Process workflow tasks via mobile or desktop devices.
F3075	Technical Object Damages	Display typical damages and identify the technical object parts causing them.
F2828	Maintenance Planning Overview	Visualize critical factors such as missing spare parts or overdue orders using charts.
F3065	Procurement for Maintenance Planner (PR)	Display a list of purchase requisitions created for maintenance orders.
F2827	Procurement for Maintenance Planner (PO)	Display a list of purchase orders created for maintenance orders.
F2660	Find Task Lists	Search and display task lists.
F2661	Find Task Lists and Operations	Search and display task lists and operations.
F3326	Manage Schedules	Create and monitor schedules for maintenance order operations.
F3622	Find Maintenance Plans	Find and display maintenance plans.
F3567	Actual Cost Analysis	Analyze actual costs of current orders from various perspectives.
F3925	Create Mass Time Confirmations	View and post the status of time confirmations.
F5008	Find Maintenance Items	Search and display maintenance items.
F4577	Manage Maintenance Schedule for Assets	Visualize maintenance windows and planned shutdowns.

App ID	App Title	App Description
F5104A	Perform Maintenance Jobs	Review and execute all scheduled tasks and confirm actual data.
F5147	Display Serial Numbers	Display a list of serial numbers assigned to a material.
F5105	Maintenance Backlog Overview	Display maintenance backlogs (notifications and orders) for a specific planning bucket.
F1511A	Create Maintenance Request	Create maintenance requests.
F4513	My Maintenance Requests	Display requests you submitted.
F4072	Screen Maintenance Requests	Review and approve or reject requests.
F4604	Manage Maintenance Notifications and Orders	Manage notifications and orders processed step by step.
F3888	Manage Planning Buckets	Create planning buckets to manage maintenance backlog.
F4073	Manage Maintenance Backlog	Manage orders automatically assigned to a specific planning bucket.
F4603	Maintenance Order Costs	Evaluate estimated, baseline, planned, and actual costs of current orders.
F6065	Manage Work Packages	Find existing work packages and release them immediately or schedule a mass release.
F5325	Manage Maintenance Plans	Create, change, and schedule maintenance plans.
F3556	Manage Maintenance Items	Create or change maintenance items.
F4691	Create Work Permit Request	Create a new work permit request referencing an existing order.
F4692	Manage Work Permit Templates	Create a new work permit using a template or from scratch.
F6579	Manage Work Permits	Create new work permits or manage existing work permits that are active, inactive, or closed.
F5241	Manage Maintenance Orders	Search, modify, and create new maintenance orders.

B.2 SAP Fiori Apps with Web Dynpro Technology

This list is sorted alphabetically.

App ID	App Title	App Description
EAMS_WDA_NAV_OIF	Asset Viewer	Display complex object relationships (e.g., technical objects, materials, or measurement documents), navigate between objects, and view hierarchical structures.
EAMS_WDA_JOBPC_OIF	Confirm Planned Tasks	Record actual times, material withdrawals, measurement documents, and malfunction data.
EAMS_WDA_JOBUC_OIF	Confirm Unplanned Tasks	Post actual times, material withdrawals, measurement documents, and malfunction data.
W0017, W0033	Process Maintenance Orders	Create, change, and display maintenance orders.
W0028, W0029	Manage Technical Objects	Create, change, and display technical objects.
W0003, W0006	Process Notifications	Create, change, and display maintenance notifications.
W0023	Edit Linear Reference Pattern	Create, change, and display linear reference patterns.
W0024, W0027	Display Maintenance Item and Related Data	Display a maintenance item and its related data (technical objects, orders, etc.).
W0009, W0022	Manage Maintenance Plans	Create, change, and display maintenance plans.
W0010	Edit Object Network	Edit an object's network.
W0030, W0031	Manage Measuring Points	Create, change, and display measuring point master data.
W0013, W0014	Manage Measurement Documents	Create and display measurement documents.
W0021, W0015	Manage Task Lists	Create, change, and display task lists.
W0192	Display Maintenance Plan Scheduling	Display maintenance plan scheduling.

B.3 Functional Comparison of Structuring Resources

The following table shows a functional comparison of the most important technical objects.

	Functional Location	Equipment	Assembly
Measuring points and counters	+	+	–
Classes and characteristics	+	+	+
Partner	+	+	–
Address management	+	+	–
Permits	+	+	–
Warranties	+	+	–
Multilingual short texts	+	+	+
Multilingual long texts	+	+	+
Object information	+	+	–
External number assignment	+	+	+
Internal number assignment	–	+	+
Alternative labeling	+	–	–
Document links	+	+	+
Vendor data	+	+	–
Account assignment	+	+	–
Responsibilities	+	+	–
Usage history	–	+	–
Usability period	–	+	+
Change documents	+	+	+

B.4 Functions of Notifications and Orders

The following table lists the most important functions of the work order cycle. Assigning each one a priority will help you plan your project. Use the following definitions:

- Priority A: The function is important and must be introduced in the first phase.
- Priority B: The function can be introduced at a later stage.
- Priority C: The function is not needed.

Object	Function	A	B	C
Notification	User status			
	Reference objects			
	Priorities			
	Partner			
	Telephone integration			
	Paging			
	Addresses			
	Object parts			
	Damage			
	Causes of damage			
	Measures			
	Activities			
	Notification items			
	Classification			
	Printing			
	Fax			
	Download			
	Breakdowns			
	Approvals			
	Response time monitoring			
	Revisions			
	Solution database			

Object	Function	A	B	C
Order	Reference objects			
	User status			
	Priorities			
	Partners			
	Telephone integration			
	Paging			
	Addresses			
	Printing			
	Fax			
	Download			
	Permits			
	Operations			
	Scheduling			
	Relationships			
	Capacity requirements planning			
	Capacity availability check			
	Reservation of stock material			
	Stock material availability check			
	Ordering of non-stock material			
	Catalog integration (internet and intranet catalogs, vendor catalogs)			
	Estimated costs			
	Planned/actual costing			
	Order budgets			
	Object list			
	Production resources/tools (PRTs)			
	PRT availability check			
	Suborders			
	Utilization of production capacities			

Object	Function	A	B	C
Confirmation	Time confirmations			
	Technical completion confirmations			
	Goods receipts			
	Material withdrawals			
	Overhead costing			
	Order settlement			
Immediate repair	Historical orders			
	After-event recording in SAP Enterprise Portal			
	Confirmation of unplanned work in SAP Business Client			
Shift notes and shift reports	Shift notes for work centers			
	Shift notes for technical objects			
	Shift reports			
External processing	External processing via service specifications			
	External processing as a purchase order			
	External processing via work centers			
	Revisions			
Preventive maintenance	General maintenance task lists			
	Equipment task lists			
	Functional location task lists			
	Maintenance strategies			
	Time-based maintenance plans			
	Service-based maintenance plans			
	Single cycle plans			
	Strategy plans			
	Simple multiple counter plans			
	Enhanced multiple counter plans			
	Order maintenance call object			
	Notification maintenance call object			
	Inspection lot maintenance call object			

Object	Function	A	B	C
Preventive maintenance (Cont.)	Service entry sheet maintenance call object			
	Simulation of capacity utilization			
	Simulation of planned costs			
	Automatic deadline monitoring			
Condition-based maintenance	Plant maintenance-production control system (PM-PCS) interface			
Refurbishment	Refurbishment of serial numbers			
	Refurbishment of material			
	Production of spare parts			
	Settlement based on standard price			
	Settlement based on moving average price			
	Subcontracting			
Production	Spare part production using a refurbishment order			
	Spare part production using a production order			
Calibration of test/measurement equipment	Test/measurement equipment as equipment			
	Inspection plans			
	Inspection maintenance plans			
	Results recording			
	Confirmation			
	Usage decision			
Pool asset management	Pool asset management requirements			
	Pool asset management planning table			
Project-based maintenance	Work breakdown structure (WBS) elements			
	Networks			
	Manual assignment			
	Automatic assignment			
	Maintenance Event Builder			

B.5 Integration Aspects

The following table is structured in this manner:

- Column 1: Which department is affected?
- Column 2: Which type of information exchange should be used?
- Column 3: Will the information flow from plant maintenance to the department (→), from the department to plant maintenance (←), or in both directions (↔)?
- Columns 4 to 6: Does the integration take place within SAP S/4HANA (E), are other SAP systems affected by it (S), and will a non-SAP system be needed (N)?
- Column 7: What is the relevant application or system?

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Inventory management; warehousing	Spare parts management	↔	✓			Materials management
	Standardization of spare parts master data (e.g., avoiding duplicates, distribution of master data)	↔		✓		SAP Master Data Governance (SAP MDG)
	Inventory management for equipment	↔	✓			Materials management
	Releasing reservations for stock materials	→	✓			Materials management
	Availability check for stock material	←	✓			Materials management
	Planned or unplanned goods issue	←	✓			Materials management
	Material requirements planning (MRP) for spare parts, including triggering procurement orders	←	✓			Materials management

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Inventory management; warehousing	Serial numbers in warehouse management	→	✓			Warehouse management, SAP Extended Warehouse Management (SAP EWM), and stock room management
	Serial numbers in handling units	→	✓			Materials management
	Refurbishment of spare parts	↔	✓			Materials management
	Management of materials as PRTs	↔	✓			Materials management
Purchasing	Triggering of purchase requisitions for materials	→	✓	✓		Materials management, SAP Supplier Relationship Management (SAP SRM)
	Goods receipt of external materials	←	✓	✓		Materials management, SAP SRM
	Triggering of purchase requisitions for services	→	✓	✓		Materials management
	Periodic creation of service entry sheets	→	✓			Materials management
	Service entry and acceptance	←	✓	✓	✓	Materials management, SAP SRM
	Integration of spare parts catalogs	←		✓		Open Catalog Interface (OCI)
	Goods receipt-based invoice verification	←	✓			Materials management

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Production	Assignment of production resources to plant maintenance objects	←	✓			Production planning
	Notification of production in case of continued maintenance activities	→	✓			Production planning
	Data transfer from production systems to trigger malfunction reports or to update measurement and counter readings	←			✓	Process control systems, diagnostics, network monitoring systems, and others; PM-PCS interface
	In-house production of spare parts	←	✓			Production planning
	Service activities such as modifications, in the context of production orders	→	✓			Production planning
	Usage of plant data collection to confirm plant maintenance orders	←	✓			Production data collection (PDC) systems
Quality management	Management of test equipment	↔	✓			Quality management
	Periodic creation of inspection orders or inspection lots	→	✓			Quality management
	Results entry and usage decision for test equipment	←	✓			Quality management
Controlling	Assignment of plant maintenance as a service provider to the cost center structure	←	✓			Controlling

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Controlling (Cont.)	Assignment of plant maintenance objects as service recipients to the cost center structure	←	✓			Controlling
	Internal orders as account assignment objects	←	✓			Controlling
	Definition of required cost elements	←	✓			Controlling
	Definition of activity types	←	✓			Controlling
	Planning of prices	←	✓			Controlling
	Definition of costing procedures	←	✓			Controlling
	Settlement of plant maintenance orders	→	✓			Controlling
	Allocation of overhead costs	→	✓			Controlling
Accounting	Assignment of plant maintenance objects to asset master data	←	✓			Asset accounting
	Creation or modification of asset master records during the creation or modification of equipment master records	→	✓			Asset accounting
	Assignment of orders to investment programs	→	✓			Investment management
	Creation of assets under construction	→	✓			Asset accounting

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Accounting (Cont.)	Creation or modification of equipment master records during the creation or modification of asset master records	←	✓			Asset accounting
	Capitalization of plant maintenance services in fixed assets	→	✓			Asset accounting
	Definition of required general ledger accounts	←	✓			Financial accounting
	Invoice receipt (without goods receipt)	←	✓			Financial accounting
Personnel	Assignment of personnel numbers to plant maintenance work centers	←	✓			SAP Human Capital Management for SAP S/4HANA
	Assignment of personnel numbers or positions to technical objects	←	✓			SAP Human Capital Management for SAP S/4HANA
	Planning of personnel numbers in notifications, orders, and order operations	←	✓			SAP Human Capital Management for SAP S/4HANA
	Confirmation including personnel number	←	✓			SAP Human Capital Management for SAP S/4HANA
	Planning of qualifications in order and task list operations	←	✓			SAP Human Capital Management for SAP S/4HANA
	Update of employee time accounts	→	✓			SAP Human Capital Management for SAP S/4HANA

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Real estate management	Assignment of functional locations to real estate objects	→	✓			Flexible Real Estate Management (RE-FX)
	Data transfer from building control systems to trigger malfunction reports or to update measurement and counter readings, and so on	←			✓	Building control systems, PM-PCS interface
	Settlement of plant maintenance orders (for instance, for further clearing in service charge settlement)	→	✓			RE-FX
Construction, network building, or similar	Creation of functional locations, equipment, and bills of materials from upstream systems	←			✓	Computer-aided design (CAD), geographic information system (GIS), network monitoring systems, or similar
	Triggering of notifications or orders from within upstream systems	←			✓	CAD, GIS, network information system (NIS), or similar; PM-PCS interface
	Assignment of WBS and/or networks	↔	✓			Project System
	Scheduling of plant maintenance orders for projects	←	✓			Project System

1	2	3	4	5	6	7
User Department	Information	Flow	E	S	N	System
Service and sales	Quotations, sales orders, and invoices for plant maintenance services for third parties	↔	✓			CM and SD
	Maintenance of customer data in functional locations and equipment	←	✓			CM and SD

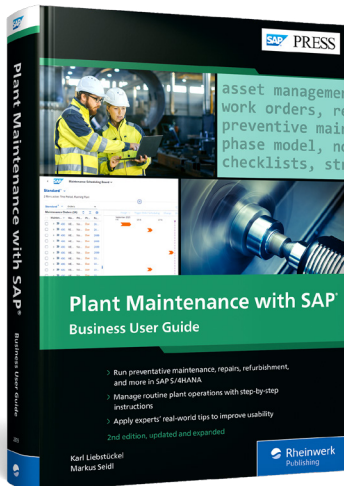
B.6 Standard Plant Maintenance Information System Reports

The following table shows the available plant maintenance-related analyses, naming info-structure, available characteristics, and measures.

Standard Analysis	Infostructure	Characteristics	Measures
Object class and manufacturer	S062	<ul style="list-style-type: none"> ■ Object class ■ Material ■ Vendor ■ Year of construction ■ Assembly 	<ul style="list-style-type: none"> ■ Closed notifications ■ Completed orders ■ Number of actions ■ Processing days ■ Service costs
Location	S061	<ul style="list-style-type: none"> ■ Maintenance plant ■ Plant section ■ Location ■ Plant maintenance planning plant ■ Plant maintenance planner group ■ Functional location ■ Equipment ■ Assembly 	<ul style="list-style-type: none"> ■ Service price ■ Degree of urgency ■ Internal wage costs ■ Internal material costs ■ Internal materials quota ■ Internal staff quota ■ Recorded breakdown duration ■ Orders entered ■ Recorded breakdowns

Standard Analysis	Infostructure	Characteristics	Measures
Planner group	S061	<ul style="list-style-type: none"> ■ Planning plant ■ Planner group ■ Maintenance plant ■ Plant section ■ Location ■ Functional location ■ Equipment ■ Assembly 	<ul style="list-style-type: none"> ■ Notifications entered ■ External wage costs ■ External material costs ■ External materials quota ■ External staff quota ■ Planned orders ■ Total actual revenues ■ Total actual costs ■ Total planned costs ■ Planning degree ■ Number of damages ■ Number of damage causes and actions ■ Immediate orders ■ Other costs ■ Unplanned orders
Damage analysis	S063	<ul style="list-style-type: none"> ■ Notification type ■ Functional location ■ Equipment 	<ul style="list-style-type: none"> ■ Number of actions ■ Number of damages ■ Number of damage causes
Object statistics	S065	<ul style="list-style-type: none"> ■ Object class ■ Material ■ Vendor ■ Year of construction 	<ul style="list-style-type: none"> ■ Acquisition value ■ Number of pieces of equipment ■ Number of functional locations with single installation ■ Number of functional locations without equipment installation ■ Number of functional locations with collective installation ■ Number of functional locations

Standard Analysis	Infostructure	Characteristics	Measures
Breakdown statistics	S070	<ul style="list-style-type: none"> ■ Object class ■ Functional location ■ Equipment 	<ul style="list-style-type: none"> ■ Actual breakdowns ■ Mean time between repairs ■ Mean time to repair ■ Time between repairs ■ Time to repair
Cost evaluation	S115	<ul style="list-style-type: none"> ■ Order type ■ Plant maintenance service type ■ Functional location ■ Equipment 	<ul style="list-style-type: none"> ■ Service costs ■ Internal wage costs ■ Internal material costs ■ External wage costs ■ External material costs ■ Planned orders ■ Total actual revenues ■ Total actual costs ■ Total planned costs ■ Total estimated costs ■ Other costs
Vehicle consumption analysis	S114	<ul style="list-style-type: none"> ■ Maintenance plant ■ Equipment category ■ Vendor ■ Year of construction ■ Equipment 	<ul style="list-style-type: none"> ■ Mileage ■ Operating hours ■ Fuel quantity ■ Fuel volume



Plant Maintenance with SAP®

Business User Guide

Perform your plant maintenance tasks in SAP S/4HANA! This user guide contains detailed, click-by-click instructions for your core functions, from planned and preventive maintenance to repairs, refurbishment, and beyond. Integrate with SAP and third-party systems for a seamless workflow, and get up to speed with the latest technologies and AI capabilities to optimize asset management for your organization. This is the all-in-one resource for your PM workday!

703 pages, pub. 05/2026

E-Book: \$84.99 | Print: \$89.95 | Bundle: \$99.99

www.sap-press.com/6263

The Authors

Prof. Dr. Karl Liebstückel was a professor of information management and business software at the Technical University Würzburg-Schweinfurt in Germany, and he has approximately 40 years of experience in the field of enterprise asset management. He has written several books on the topic of logistics. Prof. Dr. Liebstückel owns a consulting firm. You are welcome to contact the author by email ([http://karl@liebstueckel.consulting](mailto:karl@liebstueckel.consulting)).

Markus Seidl is a chief solution architect at SAP with more than 25 years of experience in the field of enterprise asset management. He advises customers worldwide on the digitalization of maintenance processes and has been active for many years as a speaker and contact person in the DSAG maintenance management working group. He combines practical experience with enthusiasm for new technologies such as AI, networks, and mobile solutions.