

# **P&S Consulting GmbH**

**Practice-oriented addons for SAP PM**

## Agenda

- Additional solutions in a standard system
- The optimized completion confirmations
- BOM generator
- Printing program for master data

## Additional solutions in a standard system?

- The total functionality is not sufficient
- The usage is too complicated/too complex
- Additional processing is necessary

**! The relationship between standard and additional solutions should be max 85% to 15%**

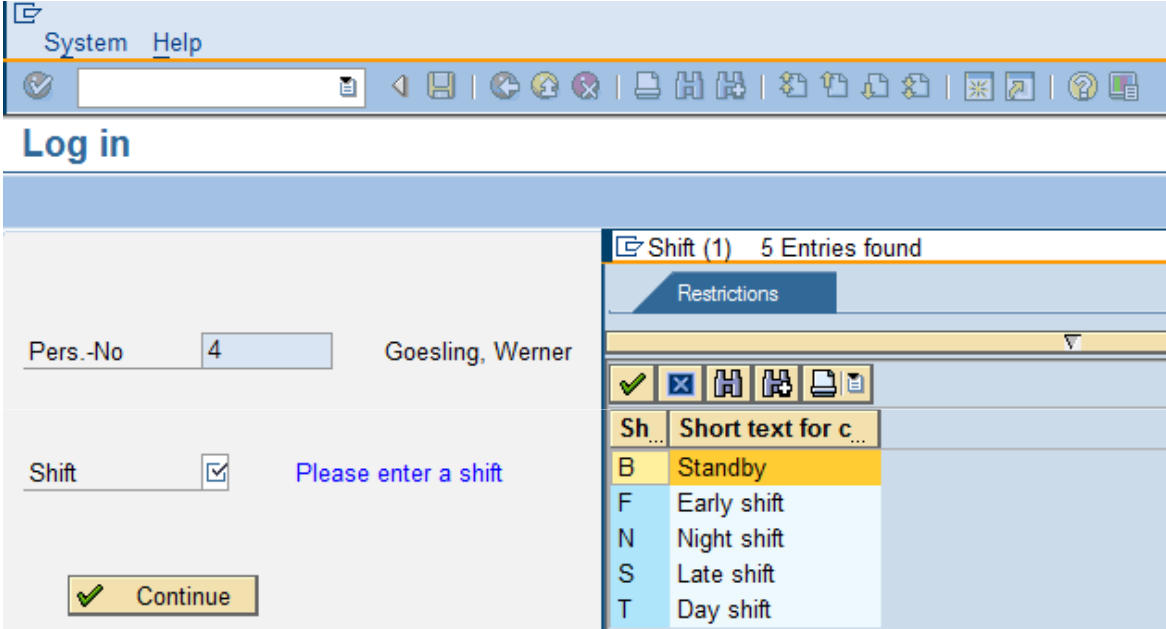
## Agenda

- ✓ Additional solutions in a standard system?
- The optimized completion confirmations
- BOM generator
- Printing program for master data

## Basics

- The entire completion confirmation is carried out by workers
- The core business is not influenced
- A maximum of 10 to 15 completion confirmations pro worker and shift
- **Goal:** An entire completion confirmation can be carried out in one minute.

## Logging in

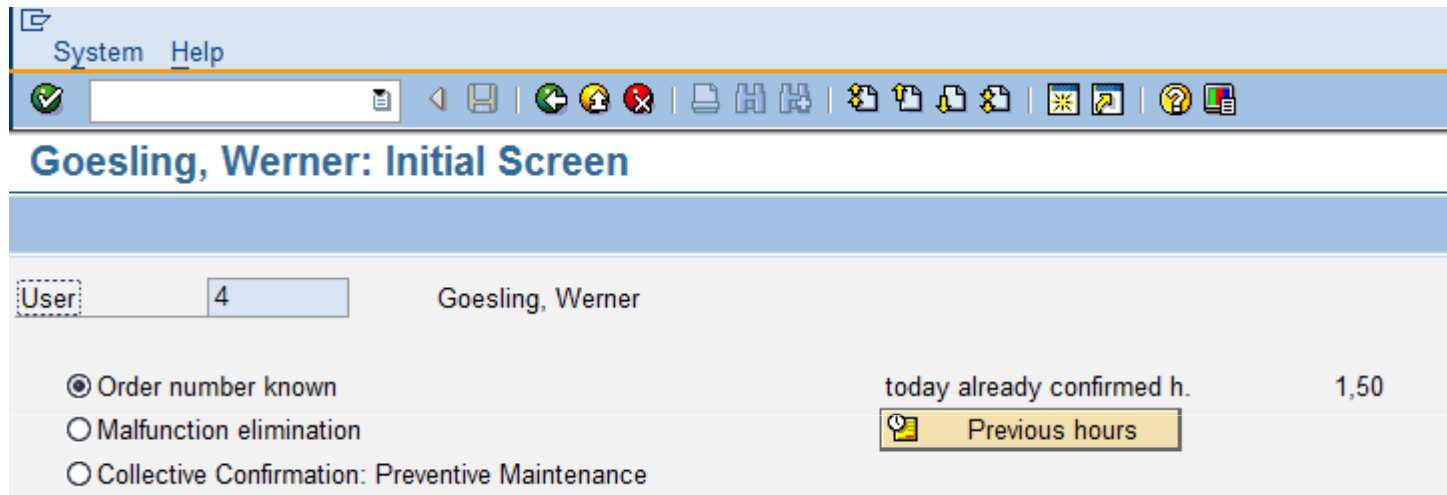


The screenshot shows the SAP login interface. At the top, there is a menu bar with 'System' and 'Help'. Below it is a toolbar with various icons. The main area is titled 'Log in'. On the left, there are input fields for 'Pers.-No' (containing '4') and 'Goesling, Werner'. Below that, there is a 'Shift' field with a dropdown arrow and a checkbox, with the text 'Please enter a shift' next to it. A 'Continue' button is at the bottom left. On the right, a search results window is open, showing 'Shift (1) 5 Entries found'. It has a 'Restrictions' tab and a table with the following data:

Sh...	Short text for c...
B	Standby
F	Early shift
N	Night shift
S	Late shift
T	Day shift

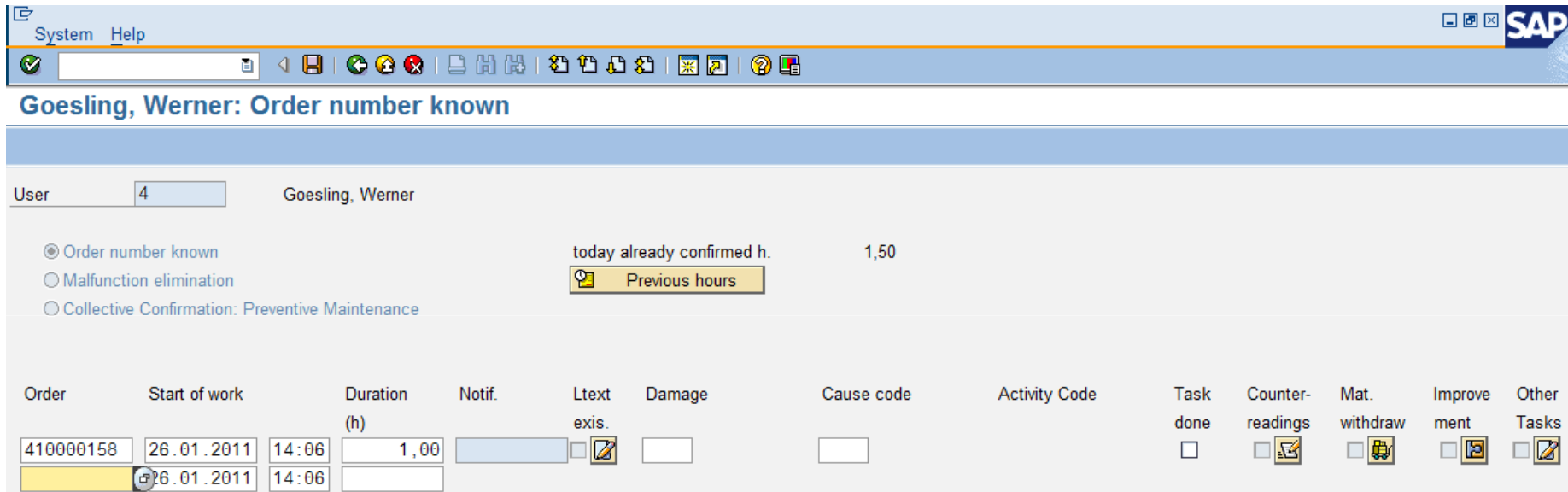
- Log in consists of an SAP user, a personell number or name
- The information such as work center, shift, etc., are stored
- Entry and storage of the shift code allows for shift reports and daily reports

## The selection of features



- Order number is know = planned orders with work papers
- Order number unknown = unplanned orders or repair of defects
- Activits report for each worker

## The feature Order number known

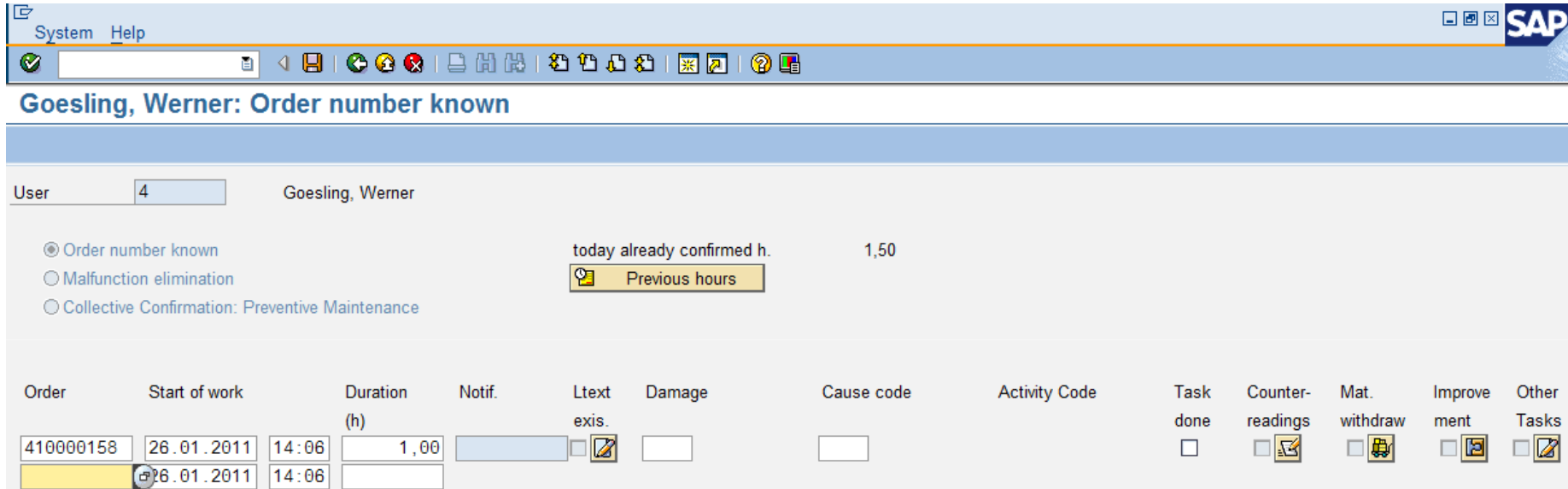


The screenshot shows the SAP PM Confirmation interface. At the top, the title bar reads 'Goesling, Werner: Order number known'. Below this, the user information is 'User 4 Goesling, Werner'. The main area has three radio buttons: 'Order number known' (selected), 'Malfunction elimination', and 'Collective Confirmation: Preventive Maintenance'. To the right, it shows 'today already confirmed h. 1,50' and a 'Previous hours' button. Below is a table with columns: Order, Start of work, Duration (h), Notif., Ltext exis., Damage, Cause code, Activity Code, Task done, Counter-readings, Mat. withdraw, Improve ment, and Other Tasks. The first row contains the data: 410000158, 26.01.2011, 14:06, 1,00, a checked checkbox, an empty field, an empty field, an empty field, an empty checkbox, a checked checkbox, an empty checkbox, a checked checkbox, an empty checkbox, and a checked checkbox.

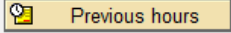
Order	Start of work	Duration (h)	Notif.	Ltext exis.	Damage	Cause code	Activity Code	Task done	Counter-readings	Mat. withdraw	Improve ment	Other Tasks
410000158	26.01.2011	14:06	1,00	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	26.01.2011	14:06										

- Input of: order number (with standard search help), completion time, long text is possible Catalog values
- Setting the order status TABG ( can be tailored to the order art)
- Simple entry of new PM request (planned to-do list)

## Posting material



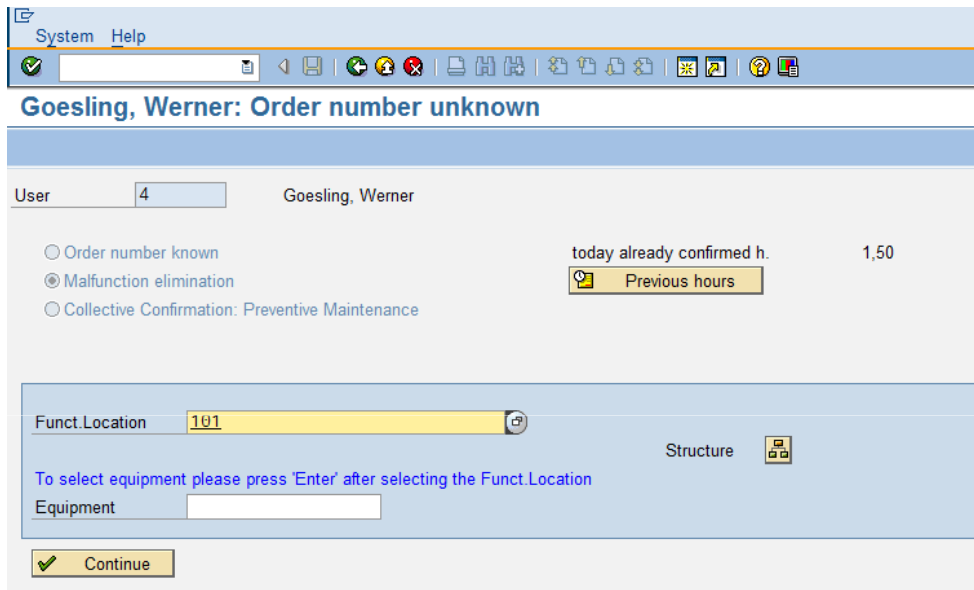
User  Goesling, Werner

Order number known      today already confirmed h.      1,50  
 Malfunction elimination       Previous hours  
 Collective Confirmation: Preventive Maintenance

Order	Start of work	Duration (h)	Notif.	Ltext exis.	Damage	Cause code	Activity Code	Task done	Counter-readings	Mat. withdraw	Improve ment	Other Tasks
410000158	26.01.2011	14:06	<input type="text" value="1,00"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	26.01.2011	14:06										

- Selection of pulled material using component lists or BOMs
- Entering planned or unplanned withdrawal in the background
- Simple support for checking the material quantities

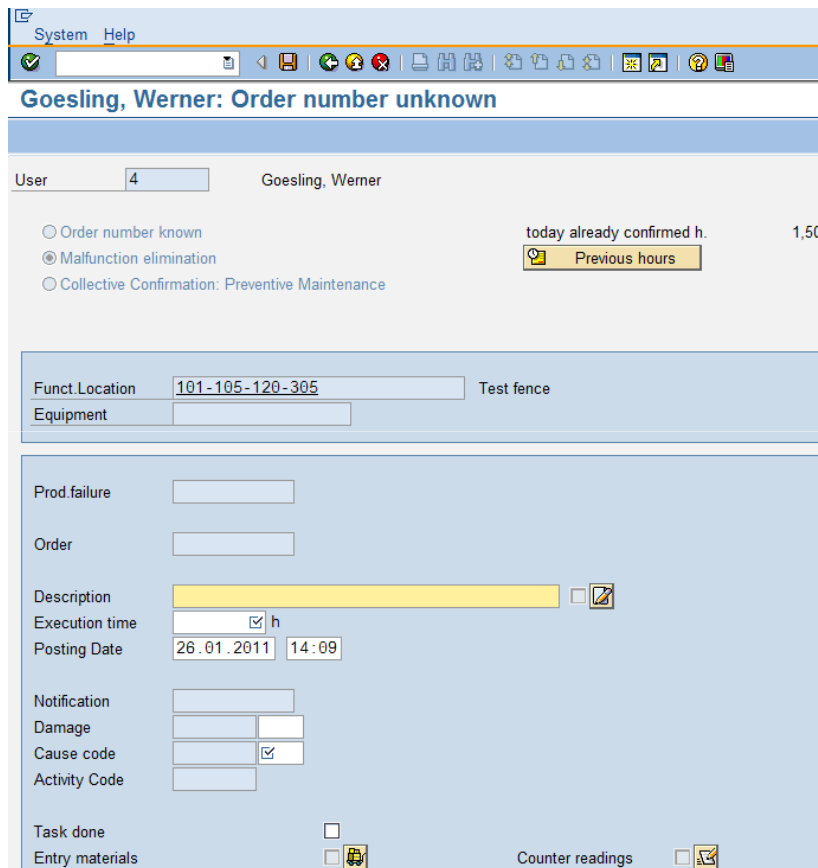
## The feature “Order number unknown”



The screenshot shows a software window titled "Goesling, Werner: Order number unknown". The window has a menu bar with "System" and "Help". Below the menu bar is a toolbar with various icons. The main content area displays the user "Goesling, Werner" and a "User" field with the value "4". There are three radio buttons for selecting a process: "Order number known", "Malfunction elimination" (which is selected), and "Collective Confirmation: Preventive Maintenance". To the right of these buttons, it says "today already confirmed h. 1,50" and there is a "Previous hours" button. Below this is a "Funct. Location" field with the value "101" and a "Structure" button. A blue instruction text reads: "To select equipment please press 'Enter' after selecting the Funct. Location". Below this is an "Equipment" field. At the bottom left, there is a "Continue" button with a green checkmark icon.

- Possibility to choose the PM process
- Filtered list of open orders
- Special feature „Defect“ with creation of an order during completion confirmation

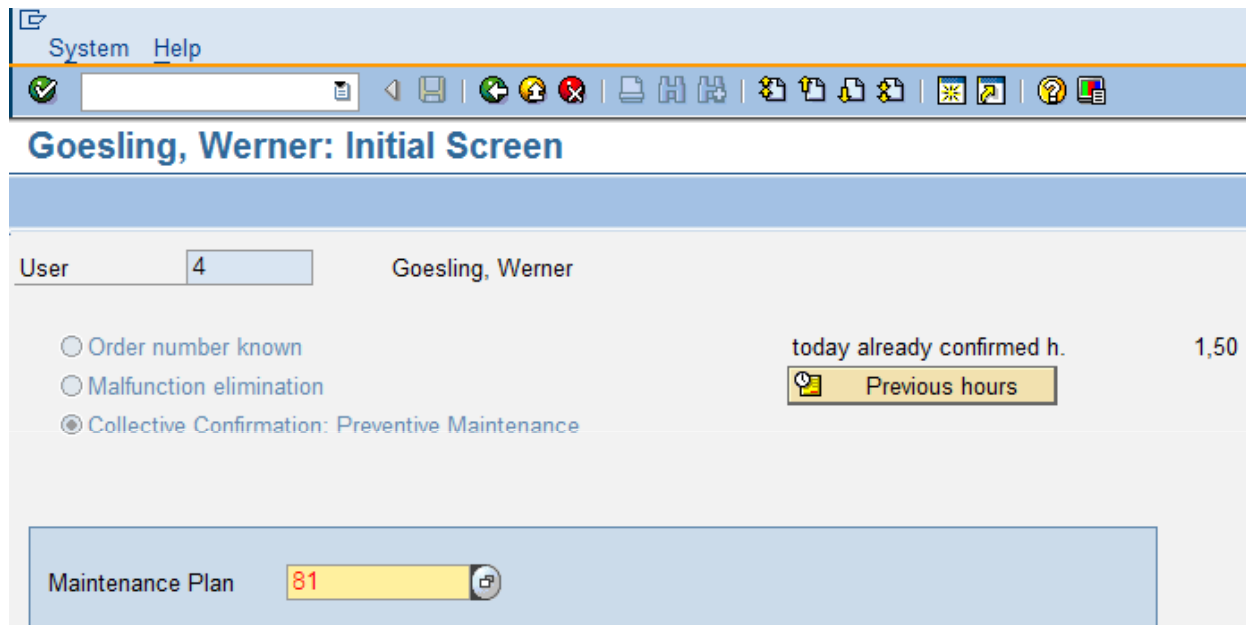
## The feature “Order number unknown”



The screenshot shows a software interface for a user named 'Goesling, Werner'. The user ID is '4'. The interface includes a menu bar with 'System' and 'Help'. Below the menu bar, there is a title bar 'Goesling, Werner: Order number unknown'. The main area contains several sections: a user selection section with 'User' set to '4' and 'Goesling, Werner'; a radio button selection for 'Order number known', 'Malfunction elimination' (selected), and 'Collective Confirmation: Preventive Maintenance'; a 'today already confirmed h.' field with the value '1,50' and a 'Previous hours' button; a 'Funct. Location' field with the value '101-105-120-305' and a 'Test fence' label; an 'Equipment' field; a 'Prod. failure' field; an 'Order' field; a 'Description' field with a yellow highlight and an edit icon; an 'Execution time' field with a checked checkbox and the letter 'h'; a 'Posting Date' field with the value '26.01.2011' and a time field with '14:09'; a 'Notification' field; a 'Damage' field with a checked checkbox; a 'Cause code' field with a checked checkbox; an 'Activity Code' field; a 'Task done' checkbox; an 'Entry materials' checkbox with a yellow highlight and an edit icon; and a 'Counter readings' checkbox with a yellow highlight and an edit icon.

- Entry using work place (functional location/equipment)
- Entry as with Order number known

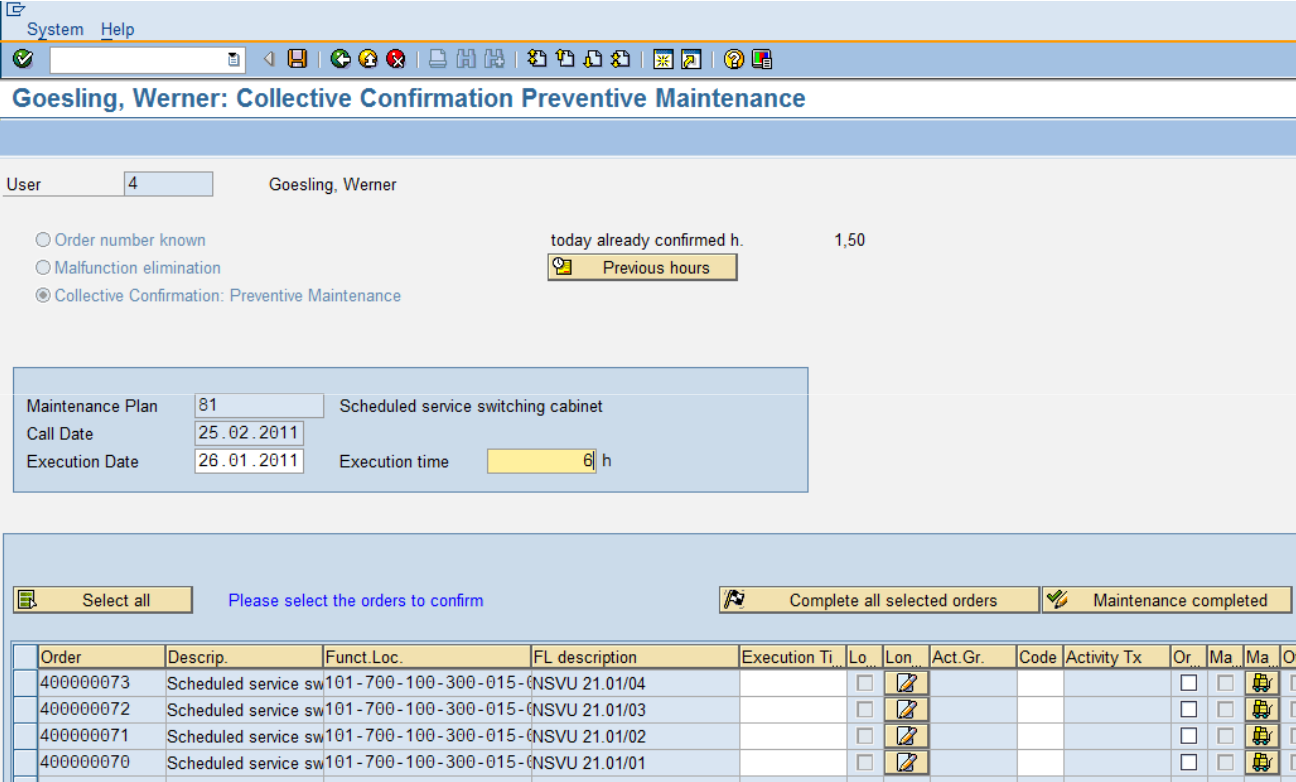
## The feature “Combined Confirmation Maintenance”



The screenshot shows the SAP 'Goesling, Werner: Initial Screen'. At the top, there is a menu bar with 'System' and 'Help'. Below it is a toolbar with various icons. The main content area has a title bar 'Goesling, Werner: Initial Screen'. Underneath, there is a 'User' field with the value '4' and the name 'Goesling, Werner'. Below this, there are three radio button options: 'Order number known', 'Malfunction elimination', and 'Collective Confirmation: Preventive Maintenance'. To the right of these options, there is a field 'today already confirmed h.' with the value '1,50' and a button labeled 'Previous hours'. At the bottom, there is a 'Maintenance Plan' field with the value '81' and a lock icon.

- Entry using the maintenance plan number (printed on the work papers)
- Basis: Maintenance plan with several positions
- Similar tasks on different objects in the same cycle.

## The feature Combined confirmation maintenance



User  Goesling, Werner

Order number known  
 Malfunction elimination  
 Collective Confirmation: Preventive Maintenance

today already confirmed h. 1,50

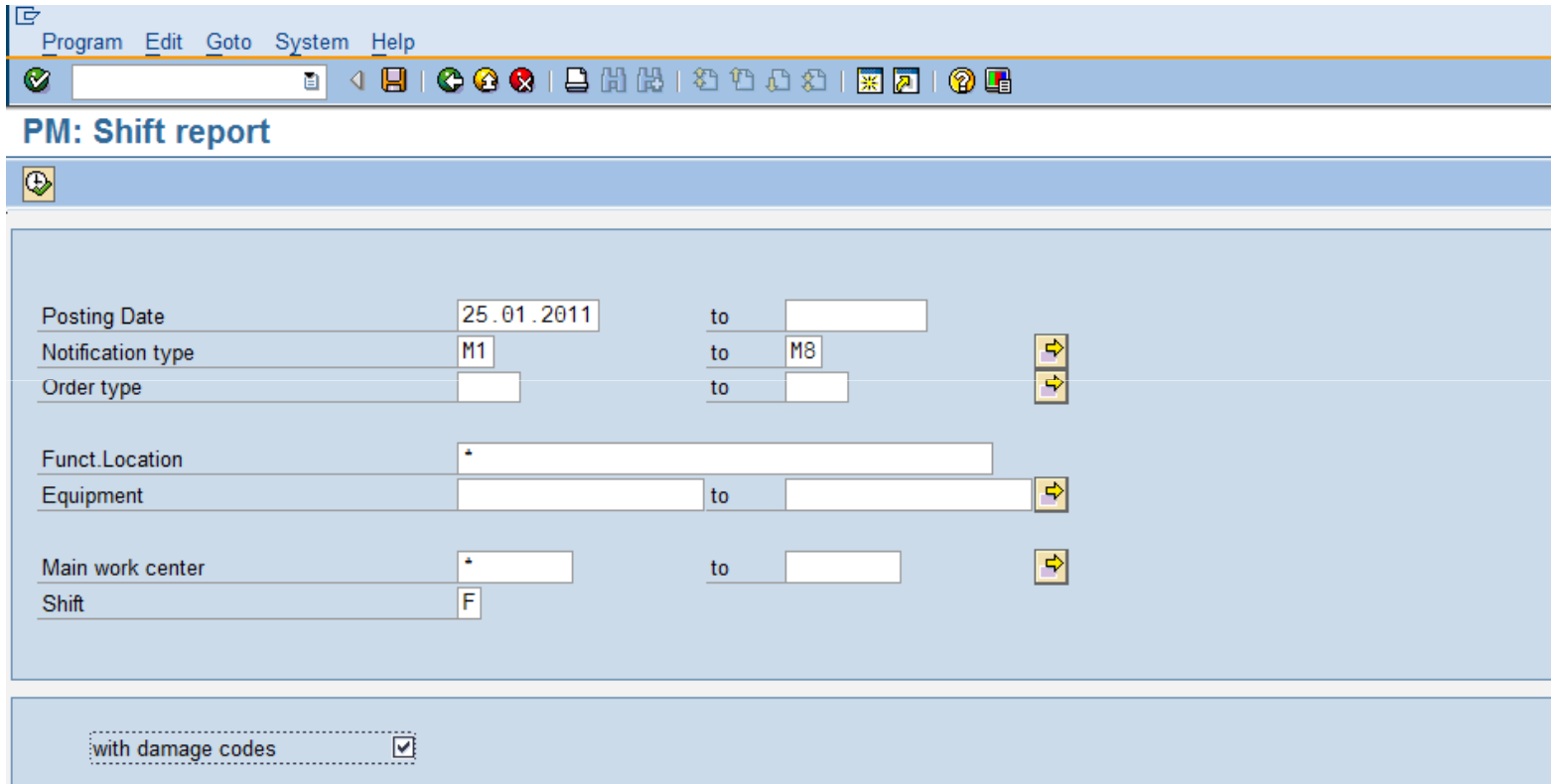
Maintenance Plan  Scheduled service switching cabinet  
 Call Date   
 Execution Date  Execution time  h

Please select the orders to confirm

Order	Descrip.	Funct. Loc.	FL description	Execution Ti	Lo	Lon	Act. Gr.	Code	Activity Tx	Or	Ma	Ma	Ot
400000073	Scheduled service sw	101-700-100-300-015-0	NSVU 21.01/04		<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
400000072	Scheduled service sw	101-700-100-300-015-0	NSVU 21.01/03		<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
400000071	Scheduled service sw	101-700-100-300-015-0	NSVU 21.01/02		<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
400000070	Scheduled service sw	101-700-100-300-015-0	NSVU 21.01/01		<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Splitting the work time among selected orders
- Technical completion and combined action for all selected orders is possible.

## The shift report



The screenshot shows the SAP PM: Shift report form. The interface includes a menu bar (Program, Edit, Goto, System, Help) and a toolbar with various icons. The form fields are as follows:

Posting Date	25.01.2011	to		
Notification type	M1	to	M8	→
Order type		to		→
Funcct.Location	+			
Equipment		to		→
Main work center	+	to		→
Shift	F			

At the bottom, there is a checkbox labeled "with damage codes" which is checked.

- Selection of the date, work place and shift are possible
- Restriction of the output using notification types

## The shift report

Text Edit Goto System Help

Print Preview of LOCL Page 00001 of 00001

*PM: Shift report*

Page 1 /from 1

Funct.Location:	*	Frühschicht	from: 01.10.10	to:30.01.11
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Funct.Location	Notif.Type/No.	Order/Shift	Reported by	Main	WrkCtr
<hr/>					
Montage - Montage TT V - Montage	Verdampferaufnahme				
PM-Start: 07.11.10; 16:53	M2 / 10000527	410000140 / Frühschicht	MUSTERMANN,	IH_MECH1	
Text:1					
Cause code: Production parts faulty					
<hr/>					
Fertigung TRUCK - Grundgerätemontage	AT2000 - Prüfmittel AT2000 - Prüfwelle 1				
100000005 Prüfwelle 1					
PM-Start: 07.11.10; 16:39	M4 / 10000525	400000055 / Frühschicht	MUSTERMANN,	IH_MECH1	
Text:test					
Activity code: Inexistent , please declare					
<hr/>					
Fertigung TRUCK - Grundgerätemontage	AT2000 - Prüfmittel AT2000 - Prüfwelle 1				
100000005 Prüfwelle 1					
PM-Start: 07.11.10; 16:47	M4 / 10000526	400000055 / Frühschicht	MUSTERMANN,	IH_MECH1	
Text:test					
Activity code: Pr. Maint. not executed, OrderProd.					

➤ Output of technical information using the notification

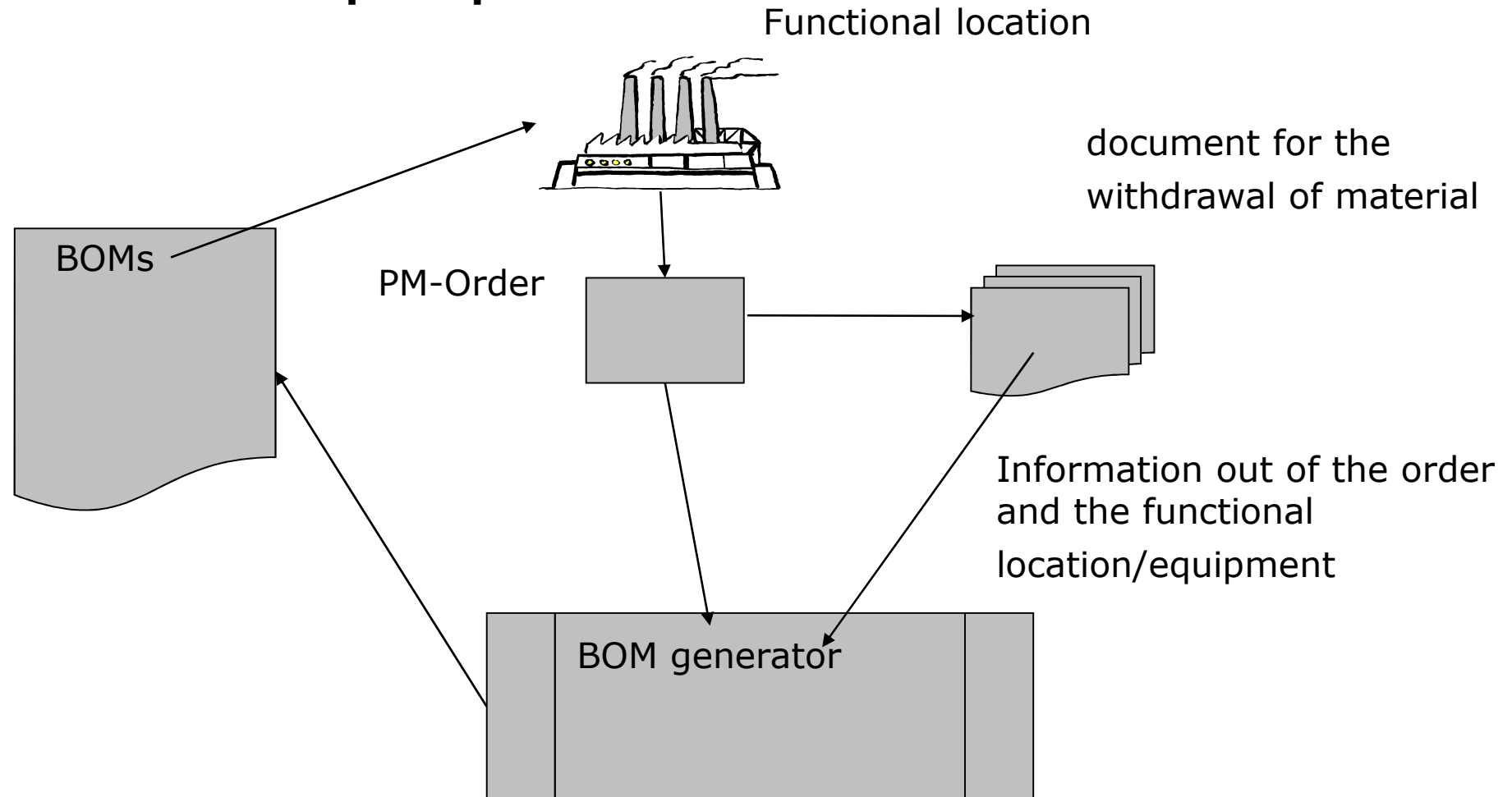
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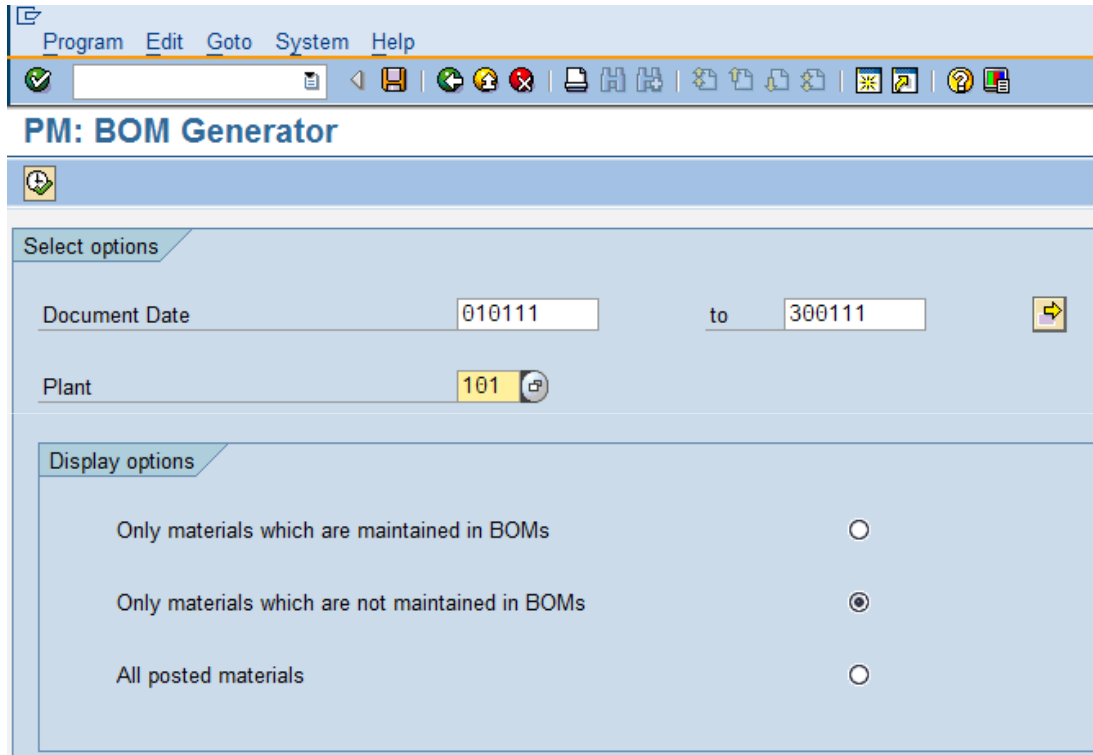
## Basics

- Need to determine the BOM' s usage
- Content of the PM BOMs
- Set up BOMs for each department
- **Goal:** Faster and automated set up of BOMs and floor-level material withdrawal

## The functional principle



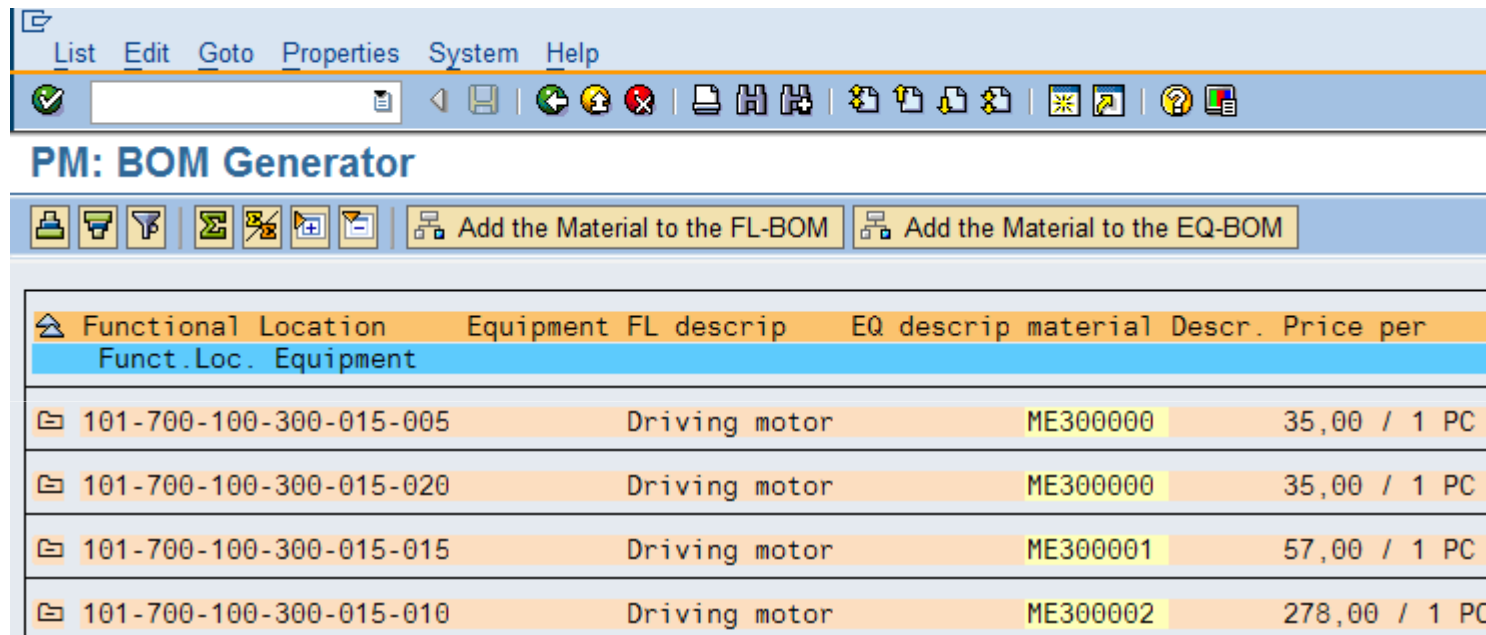
## The selection parameter



The screenshot shows the 'PM: BOM Generator' application window. The title bar includes a menu bar with 'Program', 'Edit', 'Goto', 'System', and 'Help', and a toolbar with various icons. The main content area is divided into two sections: 'Select options' and 'Display options'. In the 'Select options' section, there are two input fields: 'Document Date' with the value '010111' and 'to' with the value '300111', and a 'Plant' field with the value '101'. In the 'Display options' section, there are three radio button options: 'Only materials which are maintained in BOMs', 'Only materials which are not maintained in BOMs' (which is selected), and 'All posted materials'.

- Selecting the material listed in PM orders using the date
- Zusätzliche Eingrenzung über Disponent möglich

## The selection list



The screenshot shows the SAP PM: BOM Generator selection list. The interface includes a menu bar (List, Edit, Goto, Properties, System, Help), a toolbar with various icons, and a main table with columns for Functional Location, Equipment, FL descrip, EQ descrip, material, Descr., and Price per. The table contains four rows of data, each representing a driving motor component.

Functional Location	Equipment	FL descrip	EQ descrip	material	Descr.	Price per
101-700-100-300-015-005		Driving motor		ME3000000		35,00 / 1 PC
101-700-100-300-015-020		Driving motor		ME3000000		35,00 / 1 PC
101-700-100-300-015-015		Driving motor		ME3000001		57,00 / 1 PC
101-700-100-300-015-010		Driving motor		ME3000002		278,00 / 1 PC

- Representing the withdrawal of material for the functional location/equipment
- Basis: Receipts for material withdrawal and order data

## Choice of the desired BOM

The screenshot shows the SAP PM: BOM Generator interface. At the top, there is a menu bar with 'List', 'Edit', 'Goto', 'Properties', 'System', and 'Help'. Below the menu bar is a toolbar with various icons. The main window title is 'PM: BOM Generator'. Below the title bar, there are two buttons: 'Add the Material to the FL-BOM' and 'Add the Material to the EQ-BOM'. The main area contains a table with the following columns: 'Functional Location', 'Equipment', 'FL descrip', 'EQ descrip', 'material', 'Descr.', and 'Price per'. The table has four rows of data. An 'Object Selection' dialog box is open over the second row, displaying the text 'Please select one BOM' and a list of options: 'IBAU Electrical', 'IBAU Mechanical', and 'IBAU General'. The dialog box has a close button and a checkmark button.

Functional Location	Equipment	FL descrip	EQ descrip	material	Descr.	Price per
101-700-100-300-015-005		Driving motor		ME300000		35,00 / 1 PC
101-7		Driving motor		ME300000		35,00 / 1 PC
101-7		Driving motor		ME300001		57,00 / 1 PC
101-7		Driving motor		ME300002		278,00 / 1 PC

- Choice of present and yet-to-be defined BOMs

## The result

Functional Location Structure: Structure List

Functional loc: 101-105-120-305      Valid From: 26.01.2011

Description: Test fence

Functional Location	Description	Material	Quantity	Unit	Material Class
101-105-120-305	Test fence		121120		
MA900040	EL - Test fence		1	PC	
ME300000	Proximity switch / Initiator		1	PC	
101-105-120-305-100	Driving motor		121120		
MA900041	ME - Driving motor		1	PC	
ME300001	Safety switch; Type 3SB37		1	PC	

- Existing BOMs created for the functional location
- BOMs created for the faculty
- Assemblies as positions in the BOMs for functional location

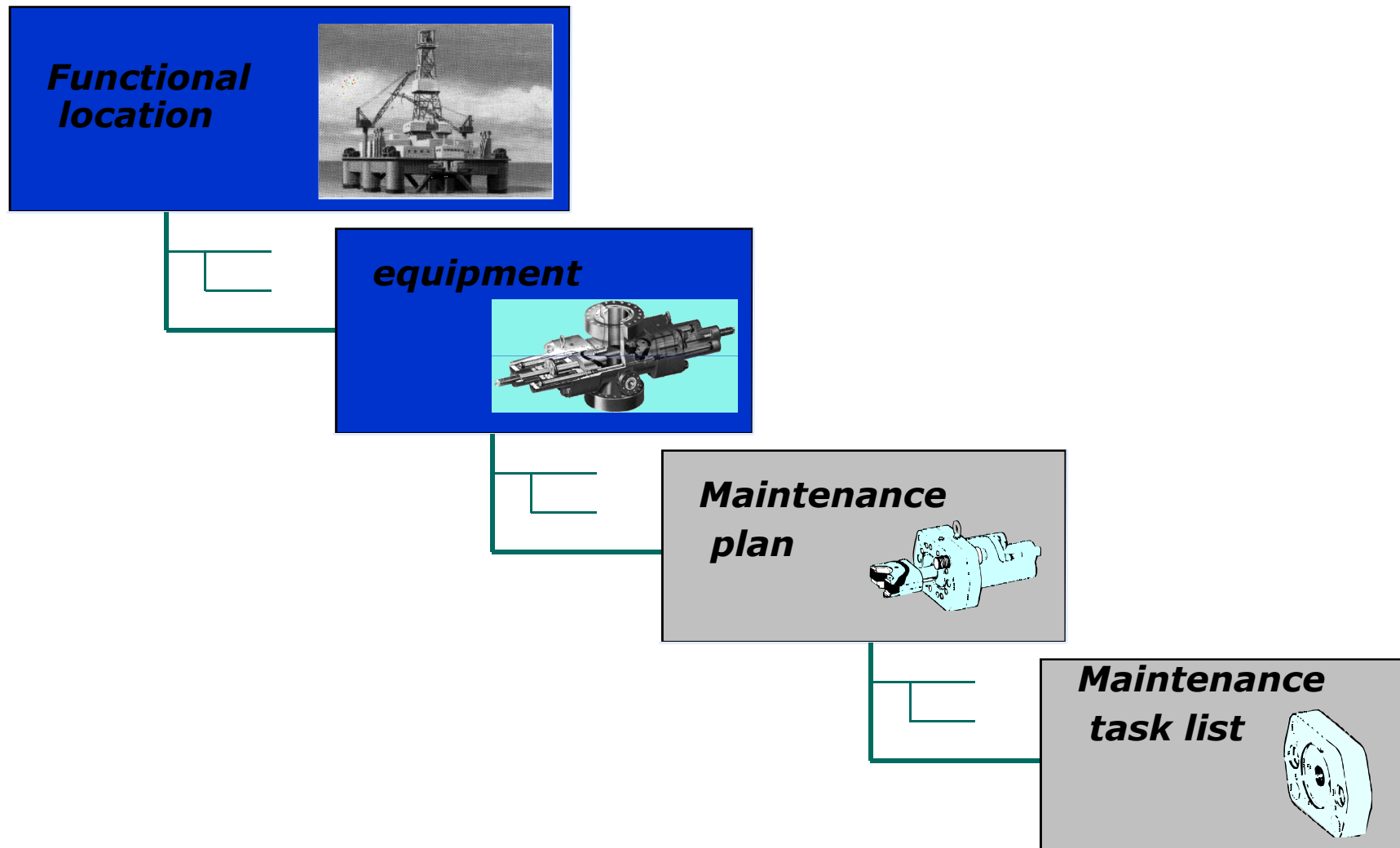
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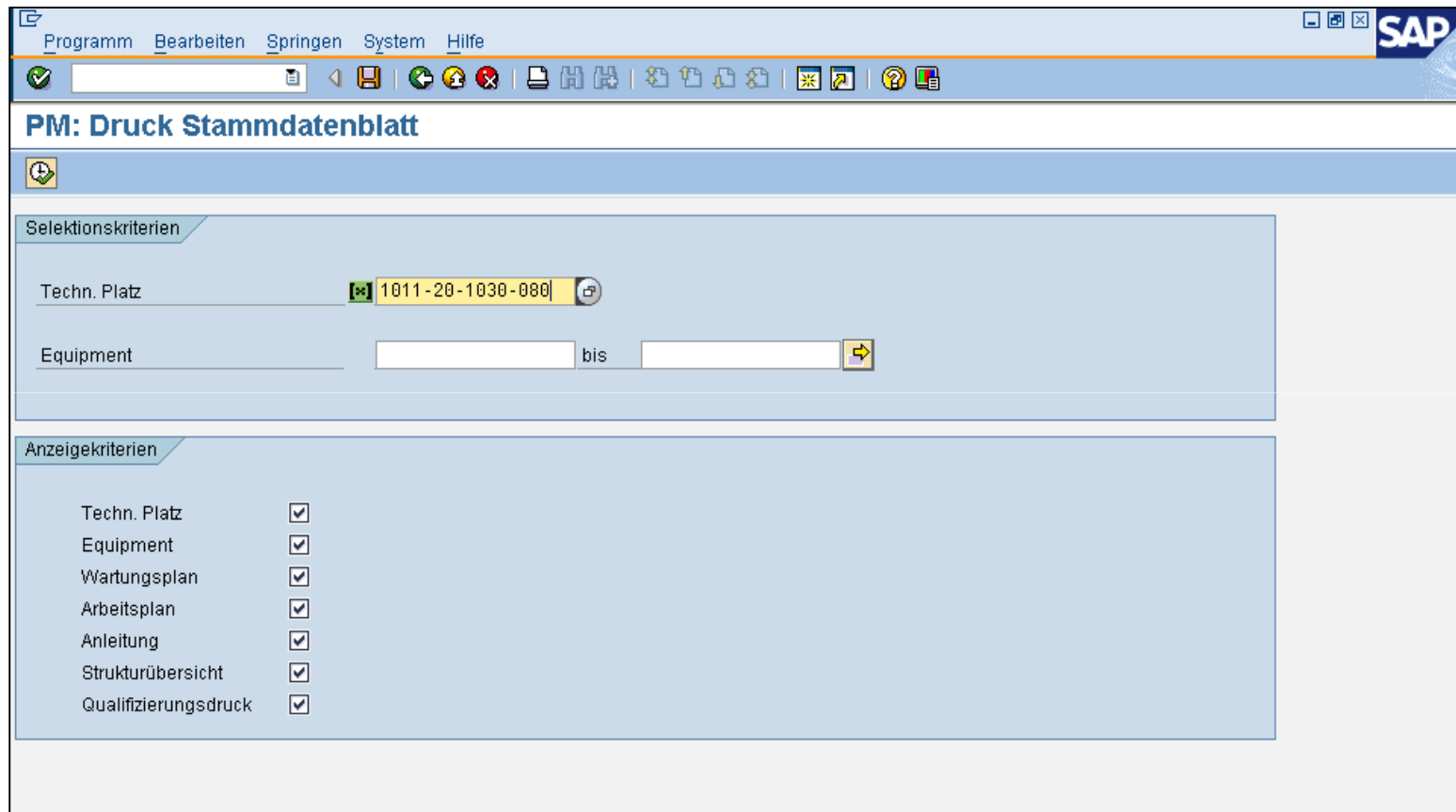
## Basics

- Documentation of the changes in the fixed assets
- Output of the master data in forms
- Help in editing the master data
- Goal: A better representation of the master data structures

## The functional principle



## The selection parameter



The screenshot shows the SAP interface for the 'PM: Druck Stammdatenblatt' (PM: Print Master Data Sheet) program. The window title is 'PM: Druck Stammdatenblatt'. The menu bar includes 'Programm', 'Bearbeiten', 'Springen', 'System', and 'Hilfe'. The toolbar contains various icons for navigation and printing. The main content area is divided into two sections: 'Selektionskriterien' (Selection Criteria) and 'Anzeigekriterien' (Display Criteria).

**Selektionskriterien**

Techn. Platz:

Equipment:  bis

**Anzeigekriterien**

Techn. Platz	<input checked="" type="checkbox"/>
Equipment	<input checked="" type="checkbox"/>
Wartungsplan	<input checked="" type="checkbox"/>
Arbeitsplan	<input checked="" type="checkbox"/>
Anleitung	<input checked="" type="checkbox"/>
Strukturübersicht	<input checked="" type="checkbox"/>
Qualifizierungsdruck	<input checked="" type="checkbox"/>

- Selection using functional location (generic) or equipment (interval)
- Content of the output of objects is controllable

## print out

Druckansicht für LOCL Seite 00100 von 00120

Seite 100 / * 0 17.03.2009	<b>Qualifizierungsdruck</b>	
<b>Techn. Platz: 1011-20-1030-080</b>		
Bezeichnung:	Presse 1	
Standort:		
Kostenstelle:	3458 / 0001	Kaschiermaschine
ABC-Kennzeichen:		
<b>Wartungsplan: 87</b>	3M ME Überprüfung der Schieber	
Wartungsstrategie:		
Zyklusstart:	17.01.2008	
Berechtigungsgruppe:		
Zyklus:	3 MON	
Wartungsposition:	921	3M ME Überprüfung der Schieber
Techn. Platz/Equipment:	1011-20-1030-080 /	
Verantw. ArbPl:	MECHANIK / 0001 Mechaniker	
<b>Anleitung: A 87 / 1</b>	3M ME Überprüfung der Schieber	
Anleitungspositionen:		
Vorgangs-Nr.	0010	3M ME Überprüfung der Schieber lt. WP 47
Arb Platz:	MECHANIK / 0001 Mechaniker	
Vorgangs-Nr.	0020	Tätigkeit 1
Arb Platz:	MECHANIK / 0001 Mechaniker	
Vorgangs-Nr.	0030	Tätigkeit 2

➤ Structured output of the details

## Agenda

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## Result

- ✓ Easy to use, feature-oriented processing
- ✓ High processing speed
- ✓ **Greater acceptance of SAP PM**

**P&S Consulting GmbH**  
**Am Kiekenbusch 10**  
**47269 Duisburg**  
**Frank Ostwald**  
**Leiter Marketing/Vertrieb**  
**Tel.: +49.203.75990.29**  
**E-mail: [frank.ostwald@ps-consulting.de](mailto:frank.ostwald@ps-consulting.de)**  
**[www.ps-consulting.de](http://www.ps-consulting.de)**

