



Plant maintenance and
customer service



Solutions for Maintenance with SAP®

Plants in

- Printing
- Bottling
- Chemistry lines of
business

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- **ADHOC- Entry**
- **ADHOC- front end system**
- **Inter-company settlement with ADHOC**
- **Entry as to external services**
- **Project control**
- **SAP PM connector for machine documentation**

Integrational functions are reports and masks that mirror your familiar environment and terminology. You will find the essential data on your display.

On the other hand these functions serve the SAP-environment in such a way that integration and consistency are guaranteed. Expenses are in line with how closely you want to adapt to your optimal business flow.

It is you, who "chooses" the most advantageous trade-off between where the users can identify best with "their" system and at the same time SAP's great benefits come to full fruition.

- We show you your possibilities and the way.
- We focus on your business process.
- Generally, we do not simply adapt to the data processing. We want to integrate EDP into your business activities.
- Quite often "keep it simple" is the best solution.

Question:

Do you want to adapt your organisational processes
or do you want adaptation of your data processing?

Answer:

We do not modify your standard software at all
We modify your organisational processes but slightly
and we sandwich in middle-ware.

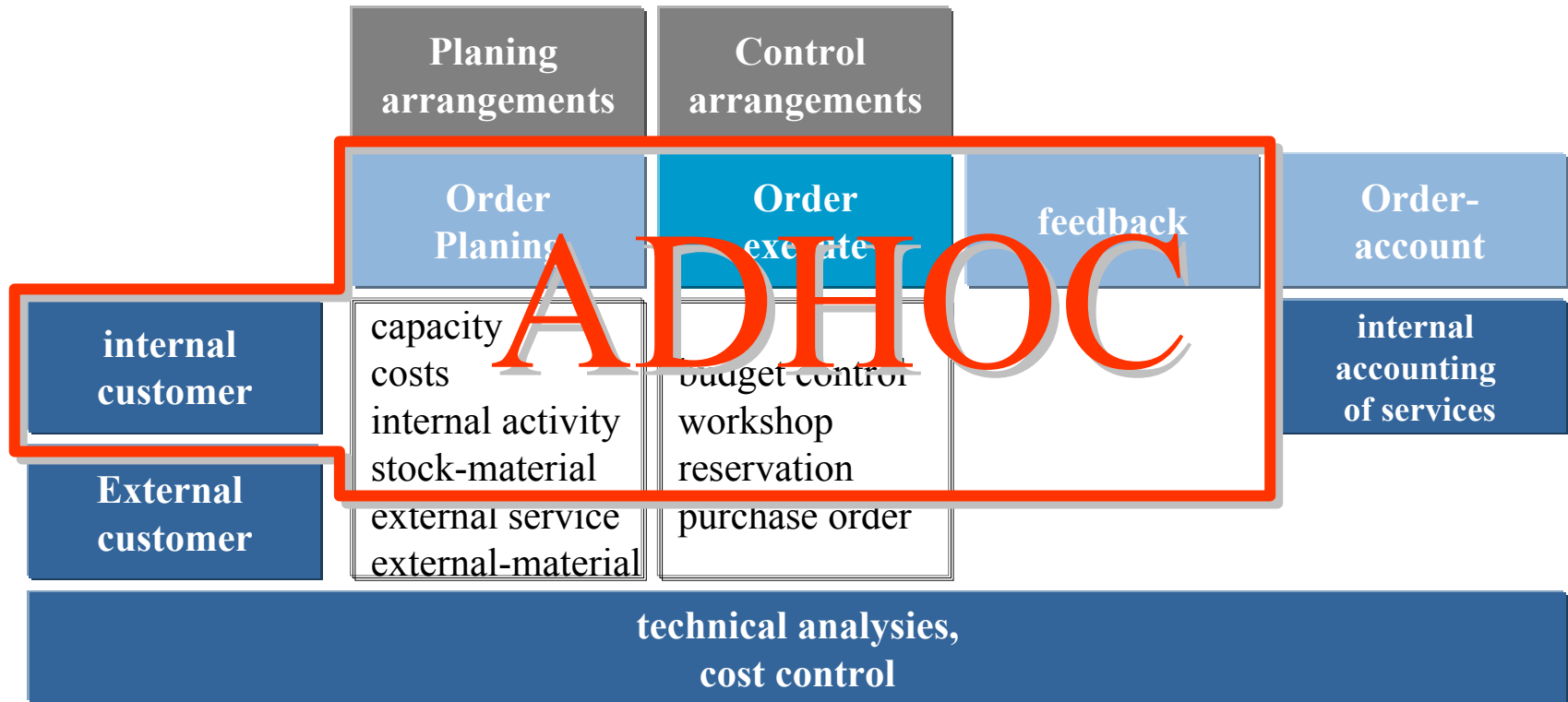
This will enable you to proceed as planned in SAP and/or to work
according to the needs of the actual situation,
for example:

The ADHOC-process

- Notifications by phone or in person.
- Damage evaluation on the spot and, if possible, immediate fixing of the situation or troubleshooting.
- If necessary issue of materials from the storage.
- Listing of all information: activity, materials' number and so on.
- At shift-over at the latest: Data-Recording via the ADHOC-screen

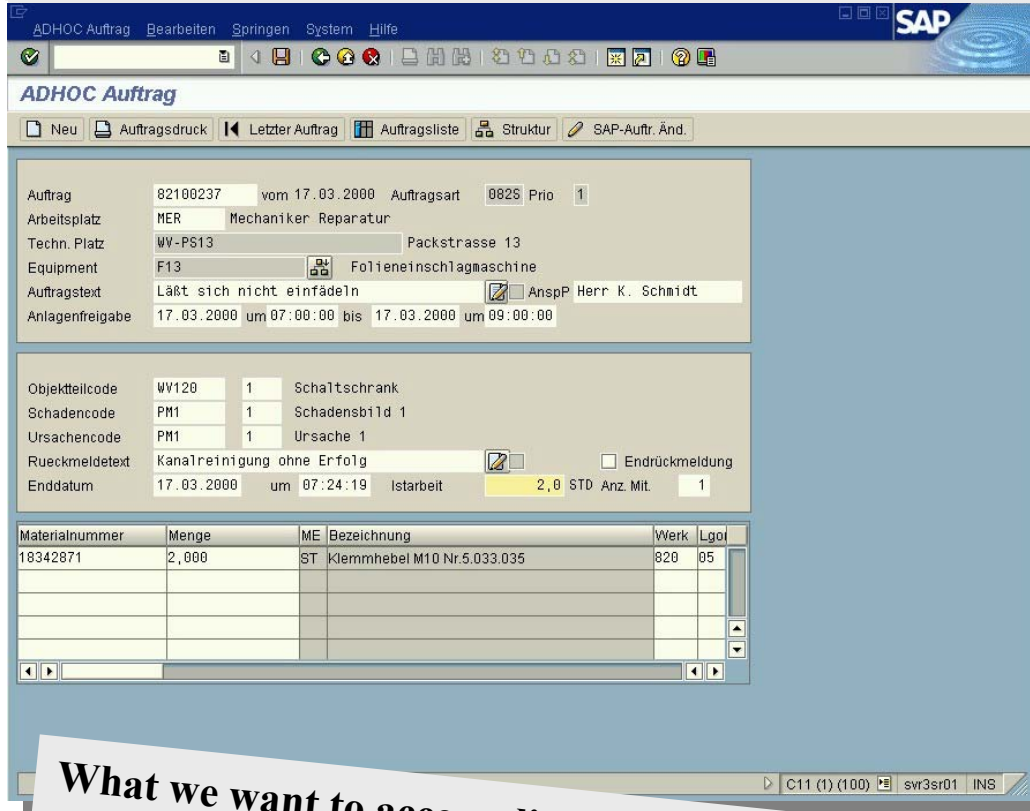


The concept makes the difference



- ADHOC is dealing with a few specific function only. But these functions are the important ones for your employees in the tool-room.
- All other functions are to be found in SAP.

The ADHOC-screen



ADHOC Auftrag Bearbeiten Springen System Hilfe

ADHOC Auftrag

Neu Auftragsdruck Letzter Auftrag Auftragsliste Struktur SAP-Aufr. Änd.

Auftrag: 82100237 vom 17. 03. 2000 Auftragsart: 0825 Prio: 1
Arbeitsplatz: MER Mechaniker Reparatur
Techn. Platz: WV-PS13 Packstrasse 13
Equipment: F13 Folieneinschlagmaschine
Anlagenfreigabe: 17. 03. 2000 um 07:00:00 bis 17. 03. 2000 um 09:00:00

Auftragstext: Läßt sich nicht einfädeln AnspP Herr K. Schmidt

Objektteilcode: WV120 1 Schaltschrank
Schadencode: PM1 1 Schadensbild 1
Ursachencode: PM1 1 Ursache 1
Rueckmeldetext: Kanalreinigung ohne Erfolg Endrückmeldung
Enddatum: 17. 03. 2000 um 07:24:19 Istarbeit: 2,0 STD Anz. Mit: 1

Materialnummer	Menge	ME	Bezeichnung	Werk	Lgor
18342871	2,000	ST	Klemmhebel M10 Nr.5.033.035	820	05

C11 (1).(100) swr3sr01 INS

- Entry of internal activities of the tool-room with notification, order and feedback.
- Flexible handling of salary schedules.
- Supporting of external services and contractors.
- Entry of the material consumption
- Control of work schedule.
- Quick search in functional locations, equipment and asset - structures.
- Default values depending of user, order, etc.
- Overview with work shift protocols.
- cross-company handling of material and accounting.

What we want to accomplish

- Everything handles at one place of work will be on one screen only
- high performance also if you work sporadic with this system
 - even if your employees work there from time to time only the results will be of top quality
 - Your employees need little training only

22.07.04

Technical details:

- SAP R/3 -ADD-ON (3.1.i – 4.7.)
- Fully integrated in SAP
- Original SAP standard -checks, -methods and -functions
- Own Customizing-control
- Task-oriented handling

ADHOC-screen variants



An other kind of the ADHOC-screen

A perfect list of orders

Auftrag	Art	Auftragskurztext	Erf. Datum	Werk	tech. Platz / Equipment
700000142	IST1	Antrieb überprüfen	14.02.2001	0151	ES-ROT-DE01-ANTR
700000145	IST1	Walzen lagern	14.02.2001	0151	ES-ROT
700000148	IFL1	Fremdgehen	14.02.2001	0151	ES-ROT
700000149	IST1	Fremd mit 2 Vorg.	14.02.2001	0151	ES-ROT
700000152	IST1	Gitter Teillift montieren	15.02.2001	0151	ES-PLH
700000153	IPV1	Gummituchmontage	15.02.2001	0151	ES-ROT
700000154	IST1	Tokenausführung	15.02.2001	0151	ES-ROT-DE23
700000155	IST1	Rollenkonen Umbau neue Ausführung	15.02.2001	0151	ES-ROT-RW12
700000157	IST1	Rollenkonen Umbau	15.02.2001	0151	ES-ROT-RW11
700000170	IST1	Verreibung	16.02.2001	0151	ES-ROT
700000171	IST1	Zahlwerk Trichterverstellung erneuern	16.02.2001	0151	ES-ROT-FALE
700000172	IST1	Seitenregister fährt mit	16.02.2001	0151	ES-ROT-DE12-DW04
700000173	IST1	Umfangregister klemmt	16.02.2001	0151	ES-ROT-DE12-DW04
700000174	IST1	Verreibung hoch	16.02.2001	0151	ES-ROT-DE04-DW02-FAW
700000201	IST1	Flächeninitiator ohne Funktion	21.02.2001	0151	ES-ROT-SENC
700000202	IST1	Pumpe defekt LANGTEXT BEACHTEN I	21.02.2001	0151	ES-PLH-EW04
700000211	IST1	Austausch Getriebekasten	23.02.2001	0151	ES-ROT-DE19
700000212	IST1	Kontrolle Expansionsgetriebe	23.02.2001	0151	ES-ROT
700000213	IST1	Kontrolle Ex	23.02.2001	0151	ES-ROT
700000214	IST1	Test rot	23.02.2001	0151	ES-ROT
700000228	IST1	Austausch Getriebekasten	26.02.2001	0151	ES-ROT-DE21
700000228	IST1	Reißerkopf defekt	26.02.2001	0151	ES-ROT-DE10
700000231	IST1	Lager def	27.02.2001	0151	ES-ROT-DE12
700000232	IST1	Lager def	27.02.2001	0151	ES-ROT-DE10
700000233	IST1	Stanze läuft nicht	27.02.2001	0151	ES-PLH

ADHOC WAZ

ADHOC-Auftrag Bearbeiten Springen System Hilfe

700000173 Auftragsart IST1 Prio 1 Werk 0151

OME Offset-Werkstatt Essen Druckwerk 04

ES-ROT-DE12-DW04

Umfangregister klemmt AnspP Thiel

00:00:00 bis 00:00:00

Stoffketzen entfernt Endrückm Schicht S

22.02.2001 Zeit 15:04:45 Istarbeit 0,5 STD Anzahl 1

OLLI. P.

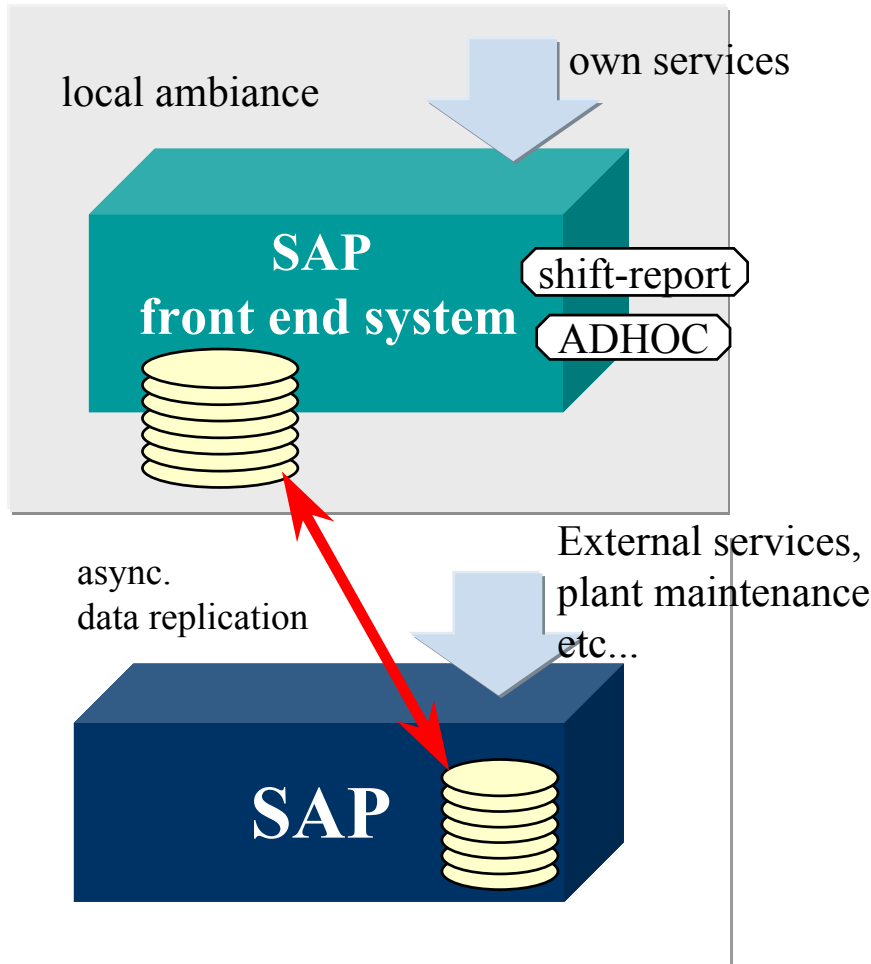
Materialnummer	Menge	ME	Bezeichnung
10306014	1,000	ST	PM TESTTEIL

- ...or do you need a workshift-report, where you can correct wrongly booked hours or texts?
- Or a tightly-knit integration into your plant's documentation?
- Do you write invoices? Are your materials in storage at another company's warehouse?
- Would you like your contractors to be able to work in an as pleasant and integrated way as you are doing it?

... it is not a problem

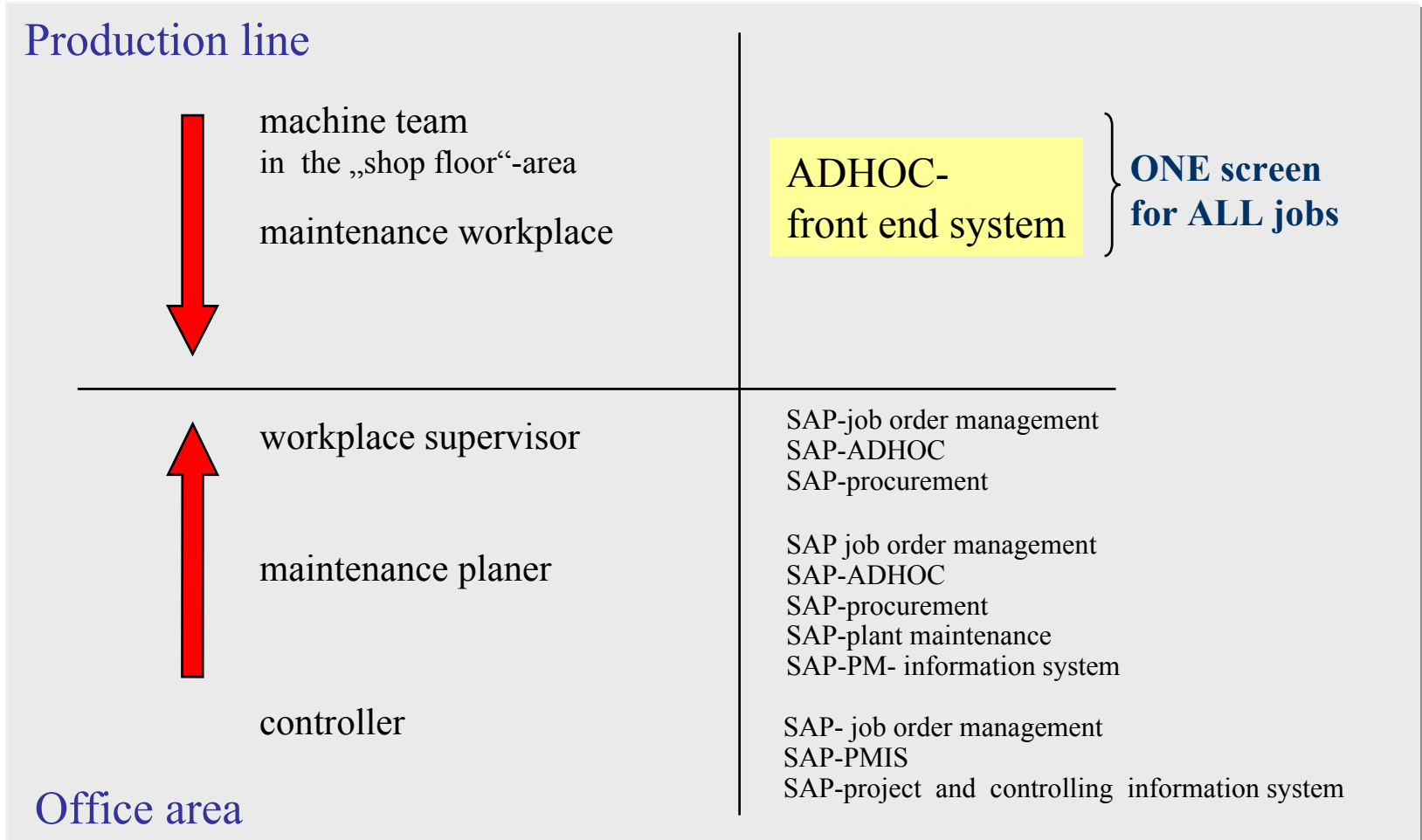
...it is the right job for us

ADHOC-front end system



- Client/Server application on PC or Laptop with MS-SQL or a Sybase database.
- Replication
 - fully automated,
 - error recovery,
 - transparency
- As a stand-alone system if you want.
- Clear-cut separation between administrative assignments and workplaces functions.

Clear-cut allocation between user groups and workplaces



ADHOC- Maintenance project control



Der Beschaffungsantrag

System Hilfe

Beschaffungsantrag-Nummer: BA97143 von: 02.04.1998 Seite: 1

Projekt: BA97143/0 , Sanierung 13. OG (0053181)
für: Sanierung 13.0G Kostl.: 6409 Inbetriebnahme: 02.04.1998

Projektstruktur BA97143 / 53181

Auftragsnr.	Kostenst.	Kurztext	Datum	Auftragsbudget	Ranfahlg.	Bestellfahlg.	Ist-Kosten	Verf.igbar
53183	KST6409	BA97143/1, Abridarbeiten	01.04.1998	0,00	8.558,00	0,00	0,00	- 8558,00
.57742	KST6409	HELMUT RÄBER GMBH KOMMUNIKATIONST. (215)	17.11.1997	0,00	0,00	0,00	0,00	0,00
.66274	KST6409	Anlagenmontagedienst Claußen (190)	08.01.1998	0,00	0,00	0,00	32.572,73	- 32572,73
.68934	KST6409	Eikon Elektronik GmbH (325)	23.01.1998	0,00	0,00	0,00	2.933,70	- 2933,70
.79683	KST6409	BA97143/GEERDS METALLBAU GMBH	27.03.1998	0,00	0,00	900,00	0,00	900,00
		Zwischensumme		0,00	8.558,00	900,00	35.506,43	44.904,43
53184	KST6409	BA97143/02, Leichtbau	20.10.1997	0,00	0,00	0,00	0,00	0,00
		Zwischensumme		0,00	0,00	0,00	0,00	0,00
53185	KST6409	BA97143/03, Malerarbeiten	20.10.1997	0,00	0,00	0,00	0,00	0,00
		Zwischensumme		0,00	0,00	0,00	0,00	0,00
53186	KST6409	BA97143/04, Bodenbeläge	20.10.1997	0,00	0,00	0,00	0,00	0,00

P 0 (1) € 10' sp2v/n 015 17:12

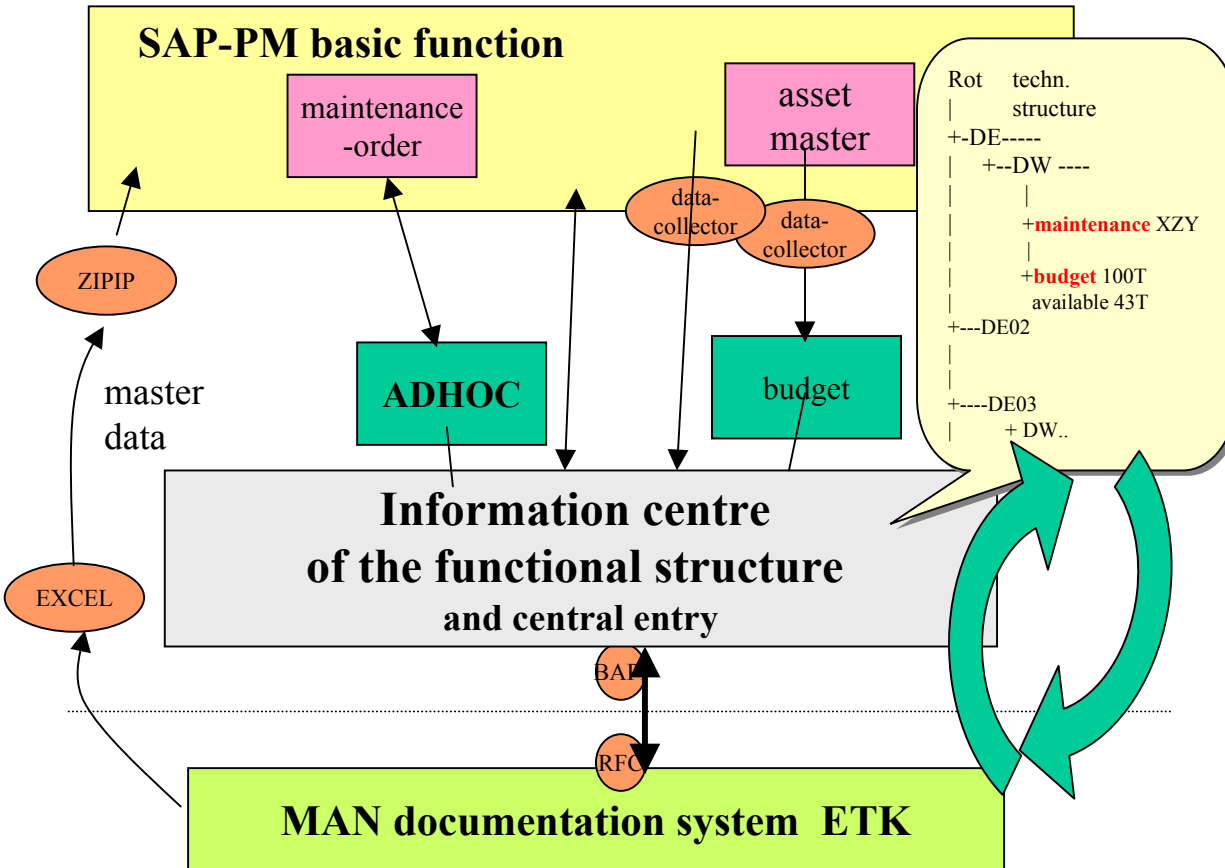
You can fully control structured orders, created in SAP-PM or in ADHOC.

Progress and costs at a glance

It is of no concern from where the account will be charged

- maintenance
- project system
- investment module
- controlling objects

SAP PM connector between SAP plant maintenance and machine documentation

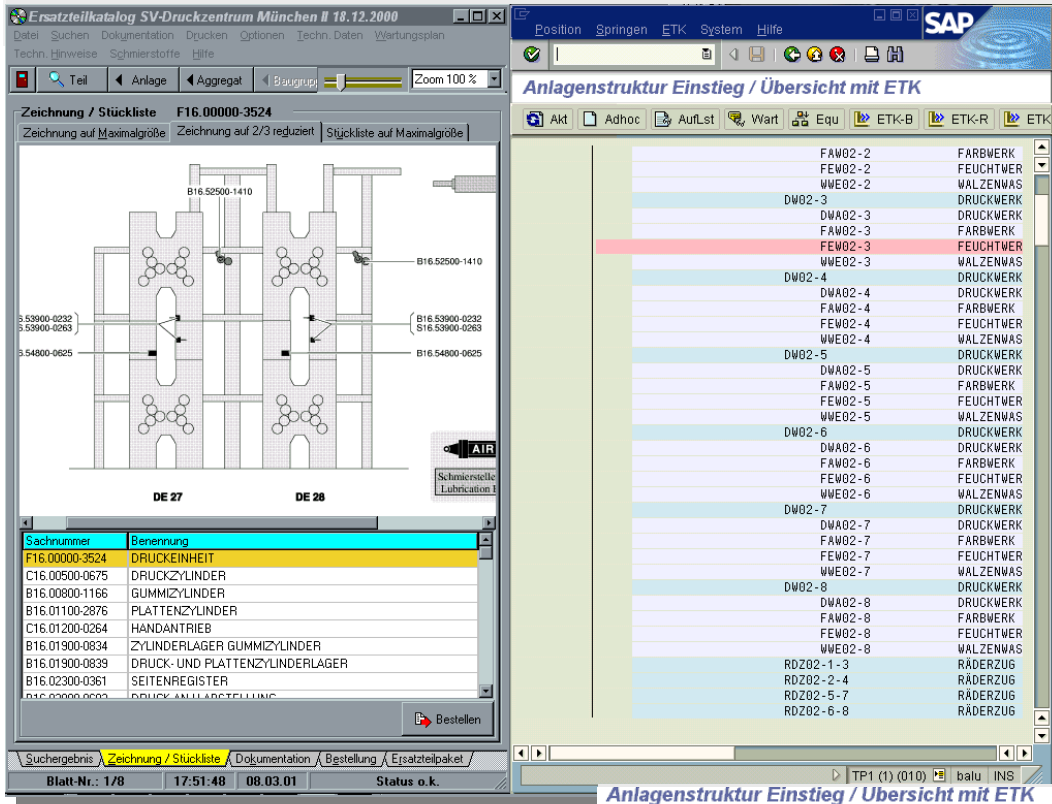


The electronic documentation system ETK of the MAN printing machine will find the new position in the documentation controlled by the handling in SAP PM. Also the SAP ADHOC order input works together with the exploded drawings of the ETK.

From the functional structure information centre in SAP you can change to repair-, production- and feedback reports and also to all entries.

In the information centre you find notes, budgets of technical elements, statistical information, notification and plant maintenance reports.

ETK and SAP-PM in dialogue



The screenshot shows the SAP ETK interface. On the left, there is a technical drawing of a machine with various components labeled with part numbers like B16.52500-1410 and B16.53900-0232. Below the drawing is a table of parts:

Sachnummer	Benennung
F16.00000-3524	DRUCKEINHEIT
C16.00500-0675	DRUCKZYLINDER
B16.00800-1166	GUMMZYLINDER
B16.01100-2876	PLATTENZYLINDER
C16.01200-0264	HANDANTRIEB
B16.01900-0834	ZYLINDERLAGER GUMMZYLINDER
B16.01900-0839	DRUCK- UND PLATTENZYLINDERLAGER
B16.02300-0361	SEITENREGISTER
B16.02300-0362	DRUCK-ANLAGESTELLUNG

On the right, there is a list of parts with their descriptions and locations:

Part Number	Description
FAW02-2	FARBWERK
FEW02-2	FEUCHTWERK
WWE02-2	WALZENWAS
DW02-3	DRUCKWERK
DWA02-3	DRUCKWERK
FAW02-3	FARBWERK
FEW02-3	FEUCHTWERK
WWE02-3	WALZENWAS
DW02-4	DRUCKWERK
DWA02-4	DRUCKWERK
FAW02-4	FARBWERK
FEW02-4	FEUCHTWERK
WWE02-4	WALZENWAS
DW02-5	DRUCKWERK
DWA02-5	DRUCKWERK
FAW02-5	FARBWERK
FEW02-5	FEUCHTWERK
WWE02-5	WALZENWAS
DW02-6	DRUCKWERK
DWA02-6	DRUCKWERK
FAW02-6	FARBWERK
FEW02-6	FEUCHTWERK
WWE02-6	WALZENWAS
DW02-7	DRUCKWERK
DWA02-7	DRUCKWERK
FAW02-7	FARBWERK
FEW02-7	FEUCHTWERK
WWE02-7	WALZENWAS
DW02-8	DRUCKWERK
DWA02-8	DRUCKWERK
FAW02-8	FARBWERK
FEW02-8	FEUCHTWERK
WWE02-8	WALZENWAS
RDZ02-1-3	RÄDERZUG
RDZ02-2-4	RÄDERZUG
RDZ02-5-7	RÄDERZUG
RDZ02-6-8	RÄDERZUG

The information centre of functional structures works in a direct b2b-connection to the MAN-document management system.

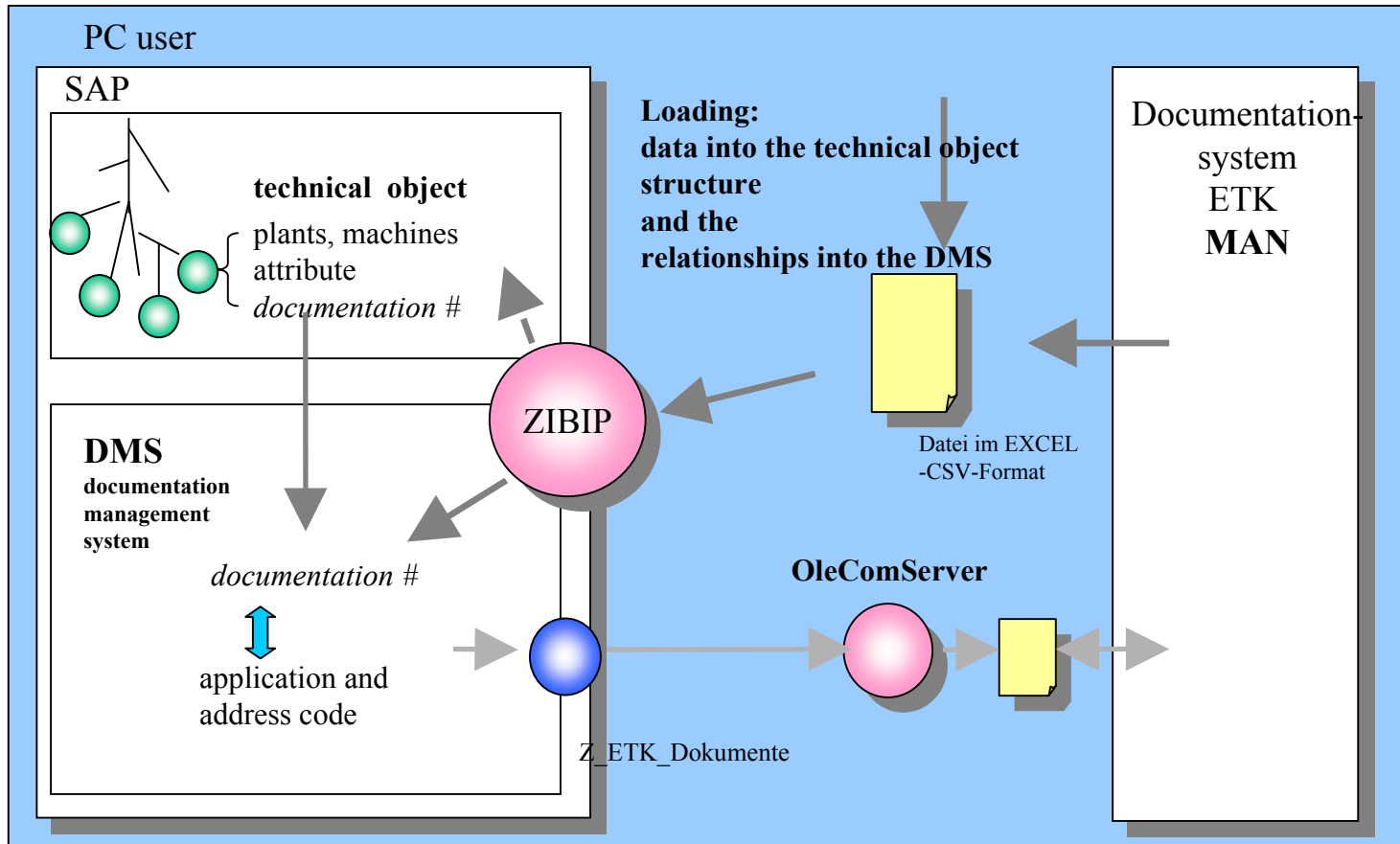
The user can change in two views of the same structure. He can navigate through the exploded drawing of the DMS (document management system) and also in the information centre of the functional structure in the SAP-system. All other parts will follow automatically.

An easy way to support the functional structure in SAP-PM (plant maintenance) is the data-interface ZIPIB which supports the SAP-IBIB-dataport. This and other jobs in the back-ground make sure, that the data will be consistent and always up-to-date.

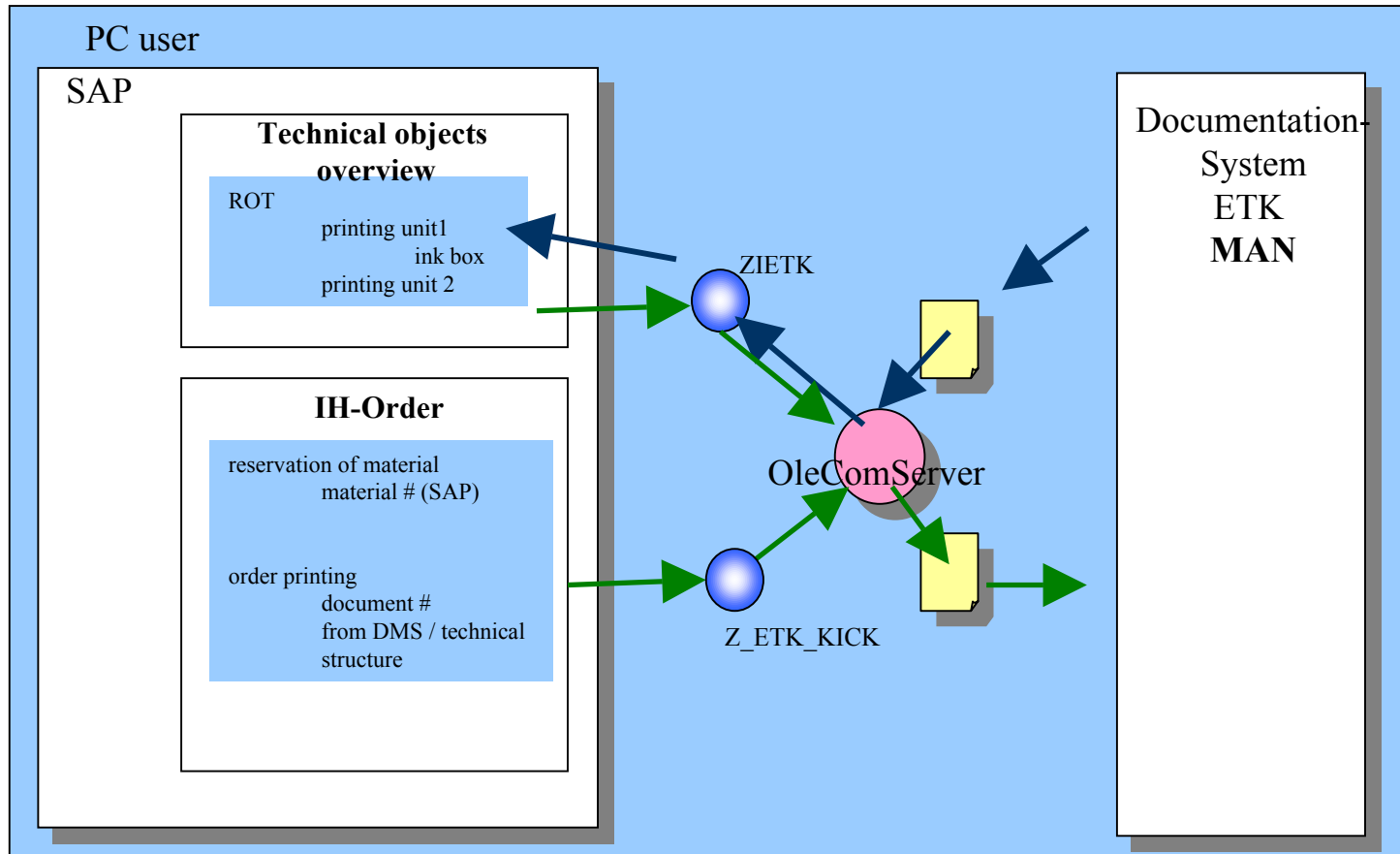


Techn. Platz	Equipment (Unter-)	Bezeichnung	Anzahl	WA	RA	OA	Ges	WP	ETK
	FAW02-3	FARBWERK 3							F16.00000-3524
	FEW02-3	FEUCHTWERK 3							F16.00000-3524
	WWE02-3	WALZENWASCH EINRICHTUNG							B16.11500-0619
	DW02-4	DRUCKWERK 4							F16.00000-3524
	DWA02-4	DRUCKWERKANTRIEB DW 4							A16.12500-1186
	FAW02-4	FARBWERK 4							F16.00000-3524
	FEW02-4	FEUCHTWERK 4		1	1	1			F16.00000-3524
	WWE02-4	WALZENWASCH EINRICHTUNG							B16.11500-0619
	DW02-5	DRUCKWERK 5							F16.00000-3524
	DWA02-5	DRUCKWERKANTRIEB DW 5				1			A16.12500-1186
	FAW02-5	FARBWERK 5							F16.00000-3524

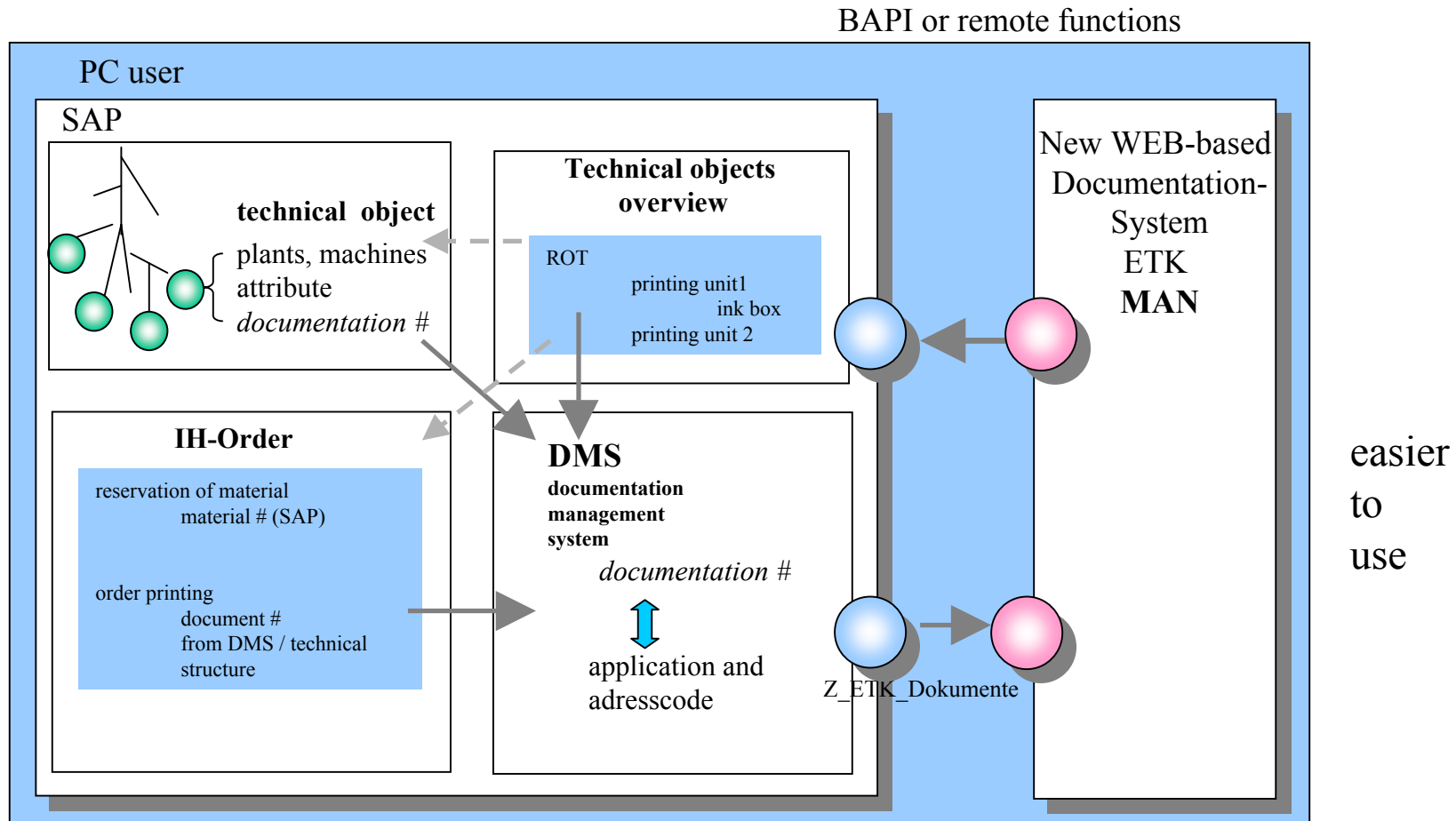
Fill in to the SAP-technical structure and the SAP-DMS



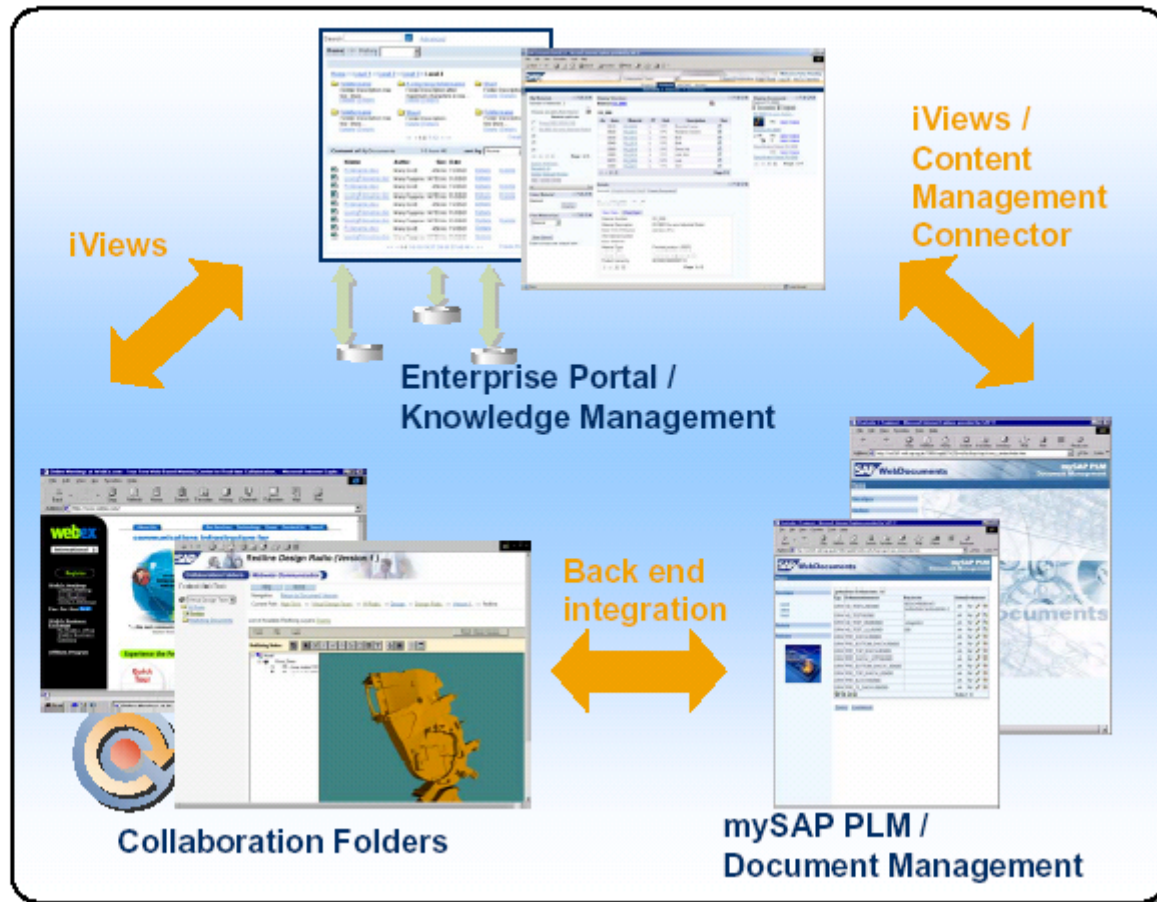
Using the connection



Details of connection in the future



Platform for Collaboration in SAP



■ Comprehensive solution

- Versions and Structures
- Approval- and Change-Management
- Workflow
- Distribution

■ Process Integration

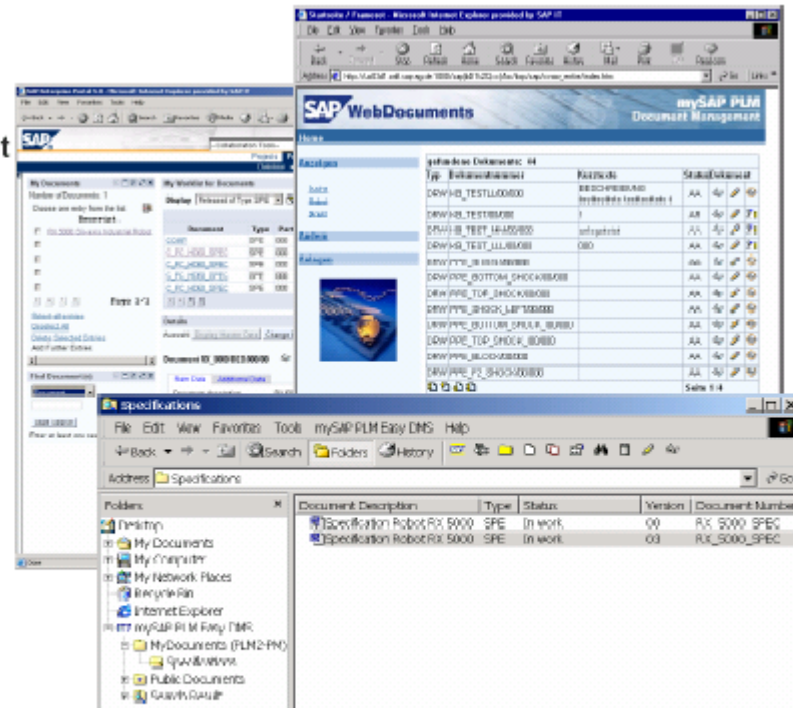
- Product Structures
- Project Management
- Logistics

■ Open Interfaces

- CAD Applications
- Office Applications
- Archiving
- Document Input / Output Systems

■ User Interfaces

- SAP GUI, Web Access, Portal Access (iViews)
- Windows File Explorer (SAP Easy DMS)



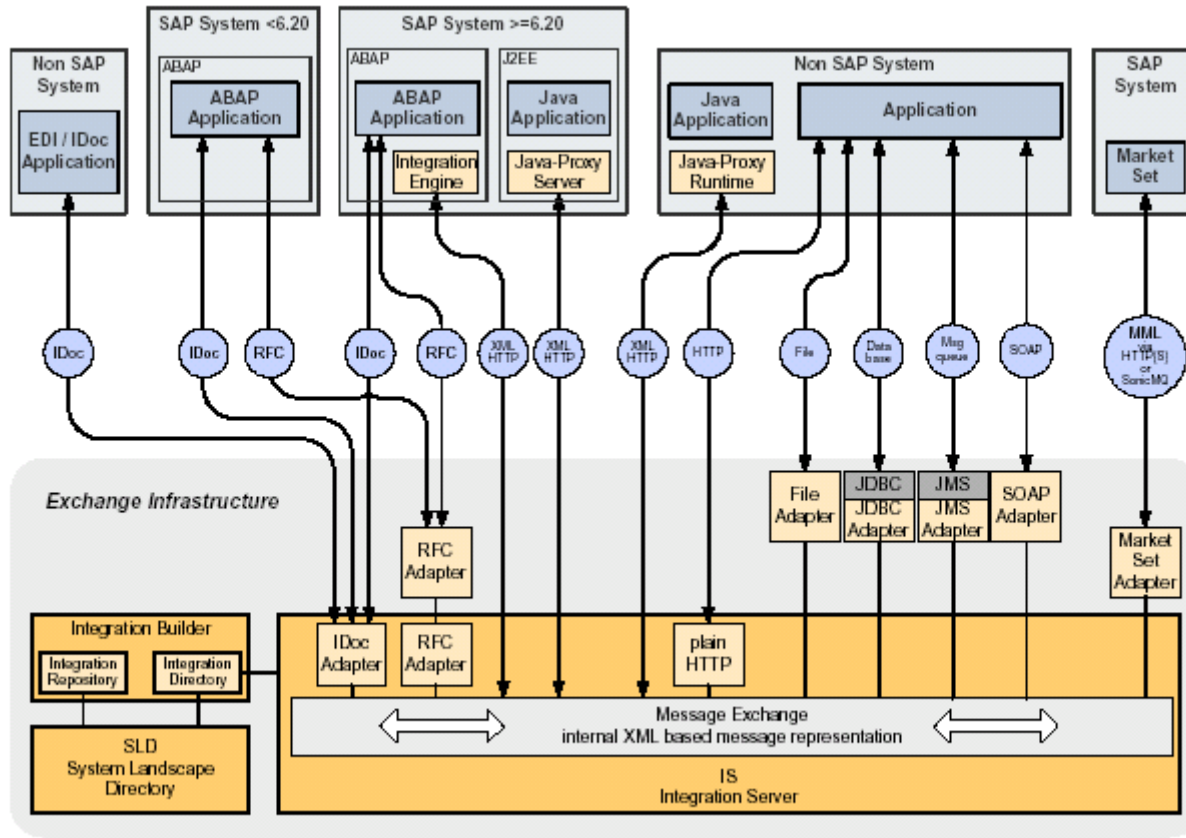
The screenshot displays the SAP WebDocuments interface. The main window shows a list of documents with columns for 'Type', 'Status', and 'Version'. A table of documents is visible:

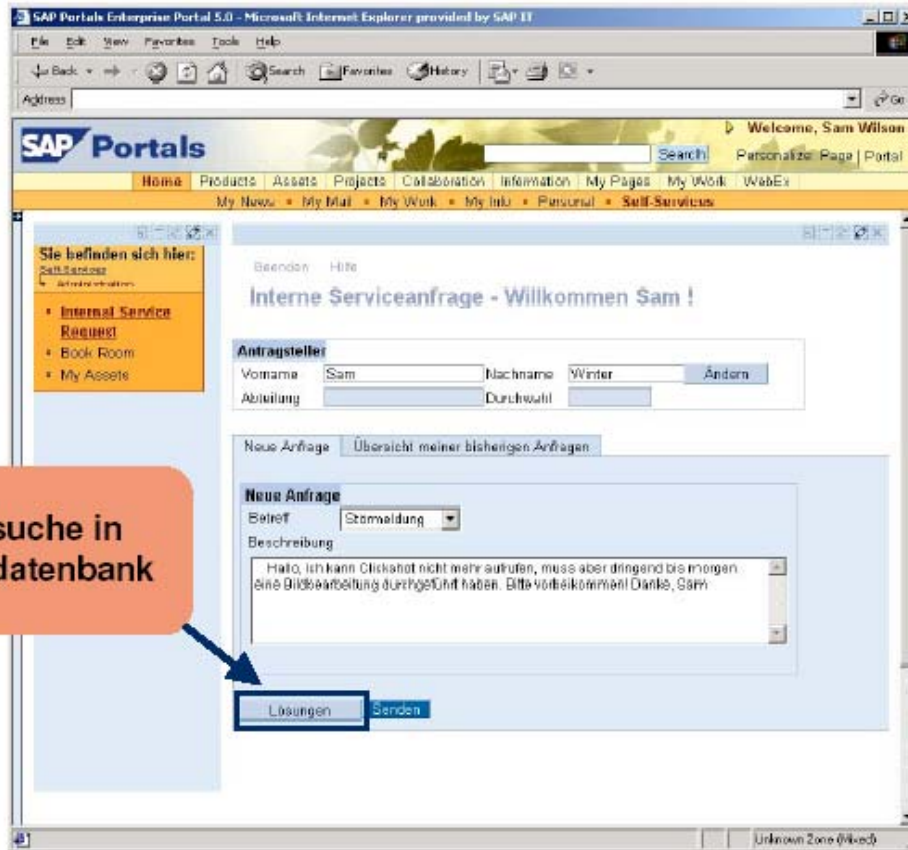
Type	Status	Version
DAW-01_TESTLLO000	RECHNEBILIG	01
DAW-01_TESTLLO001	RECHNEBILIG	02
DAW-01_TESTLLO002	RECHNEBILIG	03
DAW-01_TESTLLO003	RECHNEBILIG	04
DAW-01_TESTLLO004	RECHNEBILIG	05
DAW-01_TESTLLO005	RECHNEBILIG	06
DAW-01_TESTLLO006	RECHNEBILIG	07
DAW-01_TESTLLO007	RECHNEBILIG	08
DAW-01_TESTLLO008	RECHNEBILIG	09
DAW-01_TESTLLO009	RECHNEBILIG	10
DAW-01_TESTLLO010	RECHNEBILIG	11
DAW-01_TESTLLO011	RECHNEBILIG	12
DAW-01_TESTLLO012	RECHNEBILIG	13
DAW-01_TESTLLO013	RECHNEBILIG	14
DAW-01_TESTLLO014	RECHNEBILIG	15
DAW-01_TESTLLO015	RECHNEBILIG	16
DAW-01_TESTLLO016	RECHNEBILIG	17
DAW-01_TESTLLO017	RECHNEBILIG	18
DAW-01_TESTLLO018	RECHNEBILIG	19
DAW-01_TESTLLO019	RECHNEBILIG	20
DAW-01_TESTLLO020	RECHNEBILIG	21
DAW-01_TESTLLO021	RECHNEBILIG	22
DAW-01_TESTLLO022	RECHNEBILIG	23
DAW-01_TESTLLO023	RECHNEBILIG	24
DAW-01_TESTLLO024	RECHNEBILIG	25
DAW-01_TESTLLO025	RECHNEBILIG	26
DAW-01_TESTLLO026	RECHNEBILIG	27
DAW-01_TESTLLO027	RECHNEBILIG	28
DAW-01_TESTLLO028	RECHNEBILIG	29
DAW-01_TESTLLO029	RECHNEBILIG	30
DAW-01_TESTLLO030	RECHNEBILIG	31
DAW-01_TESTLLO031	RECHNEBILIG	32
DAW-01_TESTLLO032	RECHNEBILIG	33
DAW-01_TESTLLO033	RECHNEBILIG	34
DAW-01_TESTLLO034	RECHNEBILIG	35
DAW-01_TESTLLO035	RECHNEBILIG	36
DAW-01_TESTLLO036	RECHNEBILIG	37
DAW-01_TESTLLO037	RECHNEBILIG	38
DAW-01_TESTLLO038	RECHNEBILIG	39
DAW-01_TESTLLO039	RECHNEBILIG	40
DAW-01_TESTLLO040	RECHNEBILIG	41
DAW-01_TESTLLO041	RECHNEBILIG	42
DAW-01_TESTLLO042	RECHNEBILIG	43
DAW-01_TESTLLO043	RECHNEBILIG	44
DAW-01_TESTLLO044	RECHNEBILIG	45
DAW-01_TESTLLO045	RECHNEBILIG	46
DAW-01_TESTLLO046	RECHNEBILIG	47
DAW-01_TESTLLO047	RECHNEBILIG	48
DAW-01_TESTLLO048	RECHNEBILIG	49
DAW-01_TESTLLO049	RECHNEBILIG	50
DAW-01_TESTLLO050	RECHNEBILIG	51
DAW-01_TESTLLO051	RECHNEBILIG	52
DAW-01_TESTLLO052	RECHNEBILIG	53
DAW-01_TESTLLO053	RECHNEBILIG	54
DAW-01_TESTLLO054	RECHNEBILIG	55
DAW-01_TESTLLO055	RECHNEBILIG	56
DAW-01_TESTLLO056	RECHNEBILIG	57
DAW-01_TESTLLO057	RECHNEBILIG	58
DAW-01_TESTLLO058	RECHNEBILIG	59
DAW-01_TESTLLO059	RECHNEBILIG	60
DAW-01_TESTLLO060	RECHNEBILIG	61
DAW-01_TESTLLO061	RECHNEBILIG	62
DAW-01_TESTLLO062	RECHNEBILIG	63
DAW-01_TESTLLO063	RECHNEBILIG	64
DAW-01_TESTLLO064	RECHNEBILIG	65
DAW-01_TESTLLO065	RECHNEBILIG	66
DAW-01_TESTLLO066	RECHNEBILIG	67
DAW-01_TESTLLO067	RECHNEBILIG	68
DAW-01_TESTLLO068	RECHNEBILIG	69
DAW-01_TESTLLO069	RECHNEBILIG	70
DAW-01_TESTLLO070	RECHNEBILIG	71
DAW-01_TESTLLO071	RECHNEBILIG	72
DAW-01_TESTLLO072	RECHNEBILIG	73
DAW-01_TESTLLO073	RECHNEBILIG	74
DAW-01_TESTLLO074	RECHNEBILIG	75
DAW-01_TESTLLO075	RECHNEBILIG	76
DAW-01_TESTLLO076	RECHNEBILIG	77
DAW-01_TESTLLO077	RECHNEBILIG	78
DAW-01_TESTLLO078	RECHNEBILIG	79
DAW-01_TESTLLO079	RECHNEBILIG	80
DAW-01_TESTLLO080	RECHNEBILIG	81
DAW-01_TESTLLO081	RECHNEBILIG	82
DAW-01_TESTLLO082	RECHNEBILIG	83
DAW-01_TESTLLO083	RECHNEBILIG	84
DAW-01_TESTLLO084	RECHNEBILIG	85
DAW-01_TESTLLO085	RECHNEBILIG	86
DAW-01_TESTLLO086	RECHNEBILIG	87
DAW-01_TESTLLO087	RECHNEBILIG	88
DAW-01_TESTLLO088	RECHNEBILIG	89
DAW-01_TESTLLO089	RECHNEBILIG	90
DAW-01_TESTLLO090	RECHNEBILIG	91
DAW-01_TESTLLO091	RECHNEBILIG	92
DAW-01_TESTLLO092	RECHNEBILIG	93
DAW-01_TESTLLO093	RECHNEBILIG	94
DAW-01_TESTLLO094	RECHNEBILIG	95
DAW-01_TESTLLO095	RECHNEBILIG	96
DAW-01_TESTLLO096	RECHNEBILIG	97
DAW-01_TESTLLO097	RECHNEBILIG	98
DAW-01_TESTLLO098	RECHNEBILIG	99
DAW-01_TESTLLO099	RECHNEBILIG	100

Below the SAP interface, a Windows File Explorer window titled 'specifications' is open, showing a folder structure with 'Specifications' and 'Specifications' subfolders. The 'Specifications' folder contains two documents:

Document	Description	Type	Status	Version	Document Number
Specifications	Specification Robot RX 5000	SPE	In work	00	RX_5000_SPEC
Specifications	Specification Robot RX 5000	SPE	In work	01	RX_5000_SPEC

SAP Exchange Infrastructure





SAP Portals Enterprise Portal 5.0 - Microsoft Internet Explorer provided by SAP IT

File Edit View Favorites Tools Help

Address

SAP Portals Welcome, Sam Wilson Search Personalize Page Portal

Home Products Assets Projects Collaboration Information My Pages My Work WebEx
My News My Mail My Work My Info Personal Self-Services

Sie befinden sich hier:
SAP Portals
Administration

Internal Service Request
Book Room
My Assets

Beenden Hilfe

Interne Serviceanfrage - Willkommen Sam !

Antragsteller

Vorname Sam Nachname Winter

Abteilung Durchwahl

Neue Anfrage Übersicht meiner bisherigen Anfragen

Neue Anfrage

Betreff Stornierung

Beschreibung

Hallo, ich kann Clickshot nicht mehr aufrufen, muss aber dringend bis morgen eine Bildbearbeitung durchgeführt haben. Bitte vorbeikommen! Danke, Sam

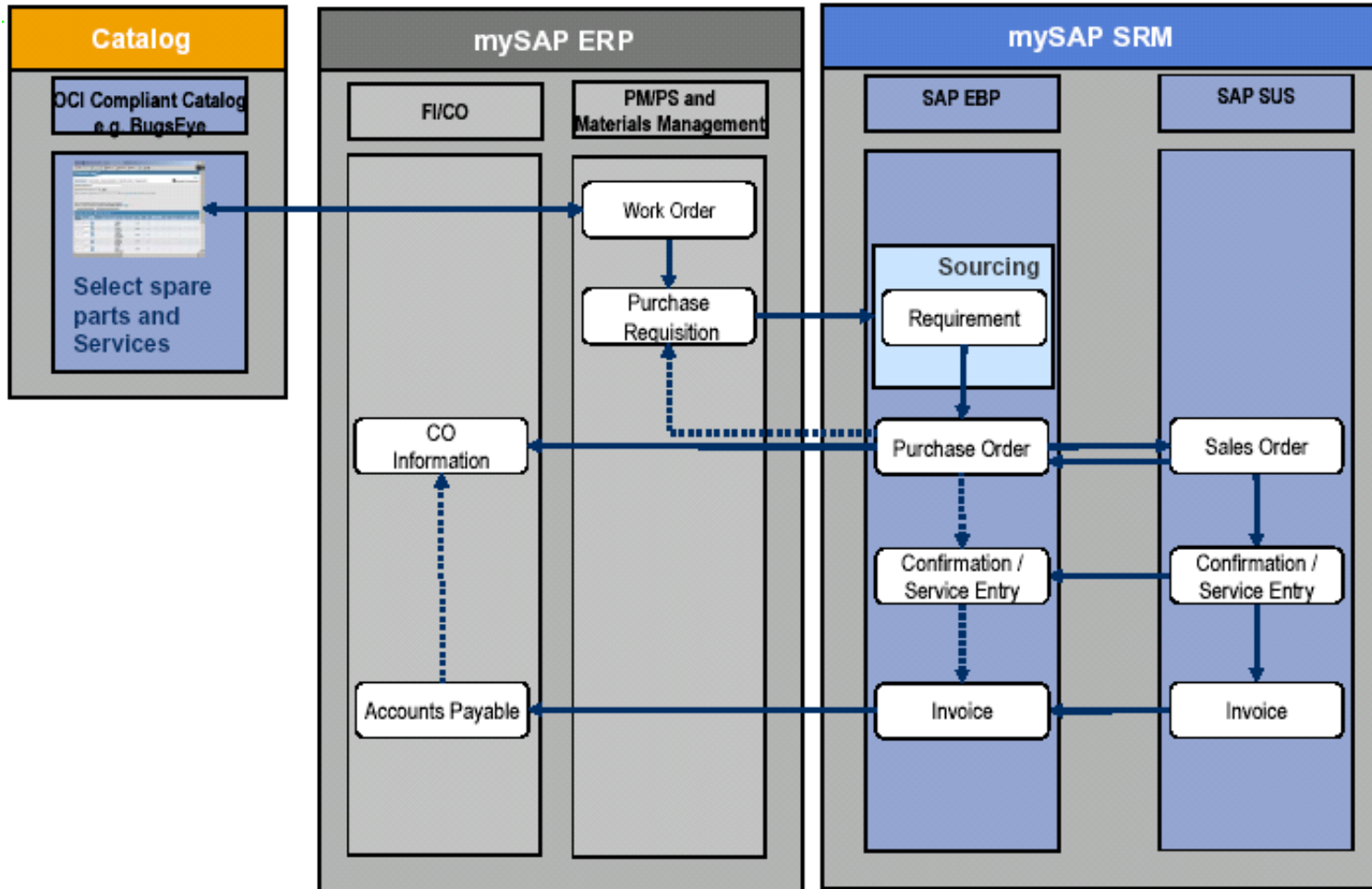
Question & Answer ?

use it for:

- order and repair-feedback
- documents
- know-how of a expert
- direct input of machine messages

Lösungssuche in
Lösungsdatenbank

SAP- Maintenance Service Procurement



SAP Choose spare parts out of a catalogue



Create Maintenance Order w. Component Planning : Component Overview

Order: P109 8000000001 Repair pump
 Status: CRTD RANC NTUP

Item	Component	Description	LT	Reqmt Qty	UM	C.S.	S.Lock	Plant	Oper	Batch	Proc
001	100-130	Hexagon head screw M10		8							

Reference object:
 FunctLoc: I1-2PW-2 Inletpump plant- screening plant
 Equipment: 10000956 Pump,blanorm 300-1000 04-m
 Assembly:

Person responsible:
 PlannerGrp: 100 / 1000 Hr: Weber
 Min.wk.ct: MECHANIK / 1000 Mechanical maintainan...
 Person Re.:
 PMSctType: 100 Repair
 SystemCond.:
 Address: Astraal GmbH

Dates:
 Bas. start: 01.09.2003 Priority:
 Basic fin.: 01.09.2003 Revision:
 SchedStart: 08:00 Act. start: 08:00 Shift order:
 Sched Fin.: 08:00 Artfnsh: 08:00 Int. Pds. hp. data:
 SchedType: Forwards ReDate: Automst. sched.
 Rel. view: Predecessor Startin past: Exctbreaks:
 Version: Adjust dates: Cap. reqmts:

Product Master
 Requested: 8
 Units: PCE
 Part Number: 100-130

Component Detail Purchasing data
 Order: 800000000001 Operation: 0010
 Material:
 Item: 0010 Item cat.: N Hexagon head screw M10

Gen. data / Purch. data

Requirement qty:	8	EA	Sort string:	
Price:		EUR	per:	1 EA
Material group:	2400		GL account no.:	400000
Purch. group:	04C / 1000		Vendor:	1000
Agreement:			Info record:	
Goods recipient:			Unloading point:	
Requisitioner:			Req./trading no.:	
Find. dely. time:			GR proc. time:	

It should be MAN

Diagram showing a pump assembly with various components labeled (e.g., 80, 930, 502.1, 502.2, 840.1, 450, 902.1, 902.2, 731.1, 731.2, 502.1, 502.2, 840.1, 450, 902.1, 902.2).

Bill of Materials (BOM) table:

Item	Component	Description	LT	Reqmt Qty	UM	C.S.	S.Lock	Plant	Oper	Batch	Proc
100-410	1000	Casing for electronic drive		1							PCE
100-420	1000	Circuit board M-1000		1							PCE
100-430	1000	Color display		1							PCE
100-431	1000	Mains adaptor 100-240 V		1							PCE
100-432	1000	Cable structure		2							PCE
100-433	1000	Screw M EX50		3							PCE
500-500	1000	Bearing case		1							PCE
100-510	1000	Ball bearing		1							PCE
100-600	1000	Support base		1							PCE
100-700	1000	Sheet metal str		1	0.64						MTK
80-731.1	100-130	Hexagon head screw M10		8							PCE

please contact us ...

send us your requirements !

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