

# PBS archive add ons<sup>®</sup> for SAP Solutions Functionality Overview

Add-On-Solution to Enhance SAP Data Archiving Features



**SAP** Certified  
Integration



Klaus Zimmer 2006-04-11



Objekt	Datum	Status
4972	2005	
4972	21.01.07	erzeugt
Verlieferung 90063375	24.01.07	erzeugt
Verlieferungsauftrag 19979124	24.01.07	erzeugt
Verlieferungsauftrag 49065877	29.01.07	erzeugt
Verlieferung 90065212	29.01.07	erzeugt
Verlieferungsauftrag 10005840	29.01.07	erzeugt



# PBS

Advanced archiving software for SAP solutions



Information  
Lifecycle  
Management

**Introduction – PBS Software GmbH**

**ILM and Data Archiving for SAP Solutions**

**Data Retrieval with PBS archive add ons**

**Data Archiving Scenario – mySAP ERP (R/3)**

**Data Archiving Scenario – SAP NetWeaver BI**

**PBS Data Extraction for Audit Purposes**

**PBS Analysis Tools for DA Projects**

**Storage – PBS ContentLink for EMC Centera**



**15 years of experience with add-on software for ILM with SAP solutions**

- ▶ Founded in summer 1991 by Günther Reichling
- ▶ 40 employees
- ▶ Worldwide more than **750** customers,
- ▶ More than **2500** PBS archive add ons and utilities installed

## **PBS Software GmbH**

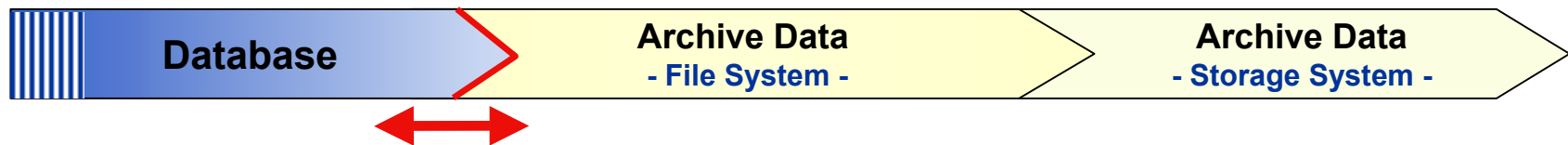
Schwanheimer Strasse 144a  
D-64625 Bensheim, Germany  
T: 06251 – 174 0  
F: 06251 – 174 174  
E: [info@pbs-software.com](mailto:info@pbs-software.com)



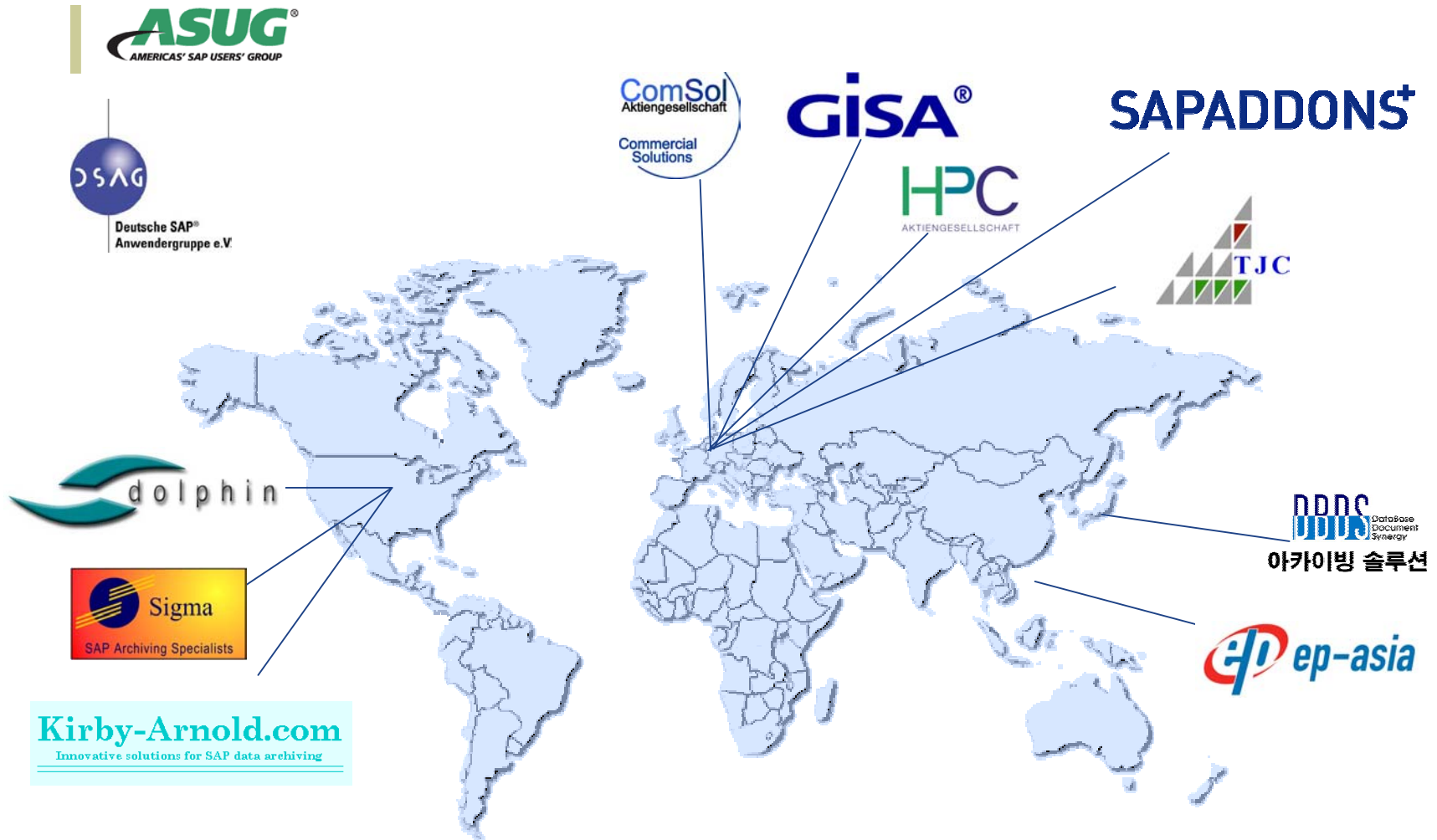


**15 years of experience with add-on software for ILM with SAP solutions**

- ▶ **PBS enhances** the standard SAP Data Archiving functionality based on the SAP ILM infrastructure and SAP application features.



- Integrated complete and quick access to **database and archive data**. Enable access to documents, print lists, in- and outgoing documents.
- Dedicated **indexing concept**; storage of index files outside of the DB.
- Enhanced features to support **compliance** with legal requirements, e.g. dedicated reporting features and data extraction for audit purposes.
- Efficient and compliant administration and storage of archive data, documents and print lists.





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Data Retrieval with PBS archive add ons

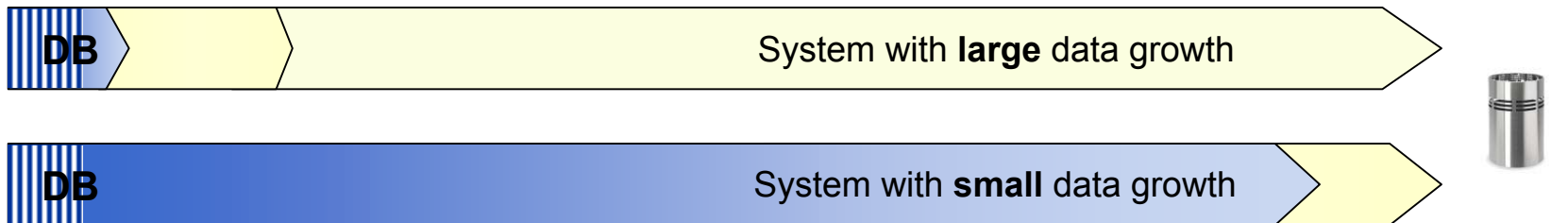
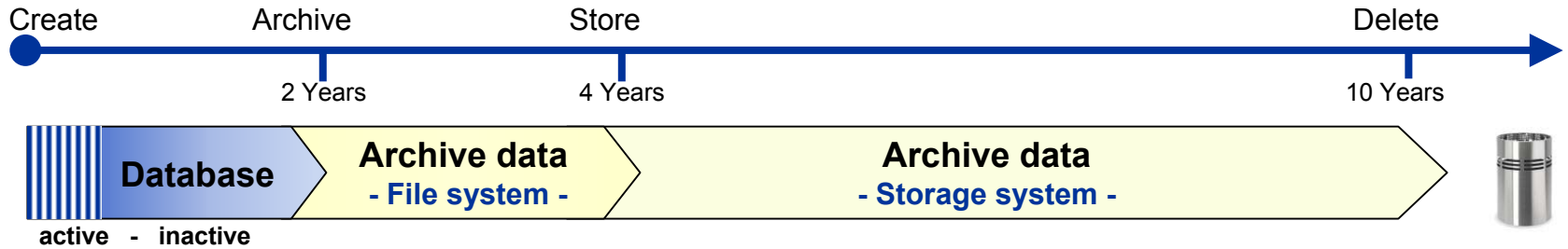
Data Archiving Scenario – mySAP ERP (R/3)

Data Archiving Scenario – SAP NetWeaver BI

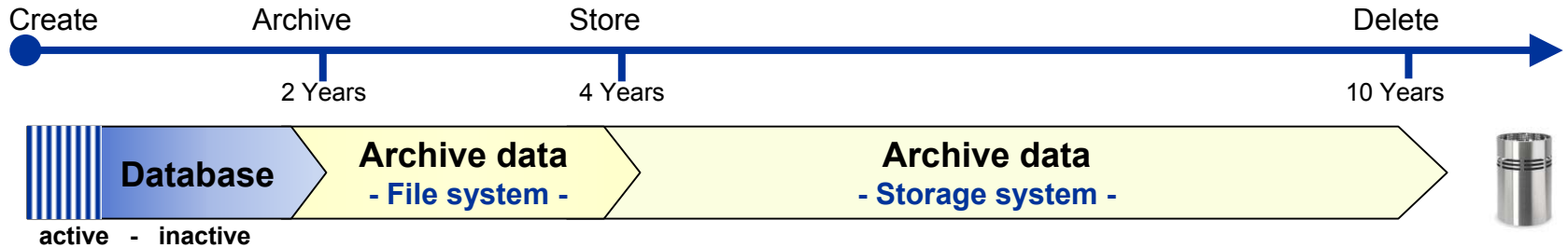
PBS Data Extraction for Audit Purposes

PBS Analysis Tools for DA Projects

Storage – PBS ContentLink for EMC Centera



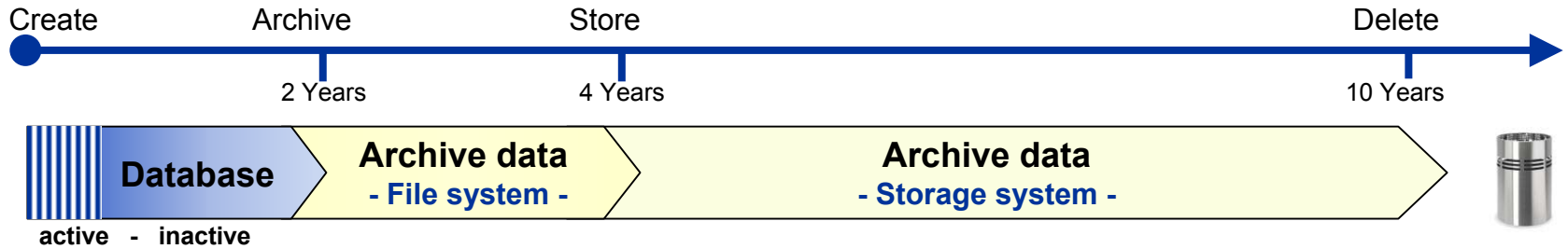
▶ The requirements on a company's **information** in the current system (ERP, BI) define the principles for their **Information Lifecycle Management (ILM)**



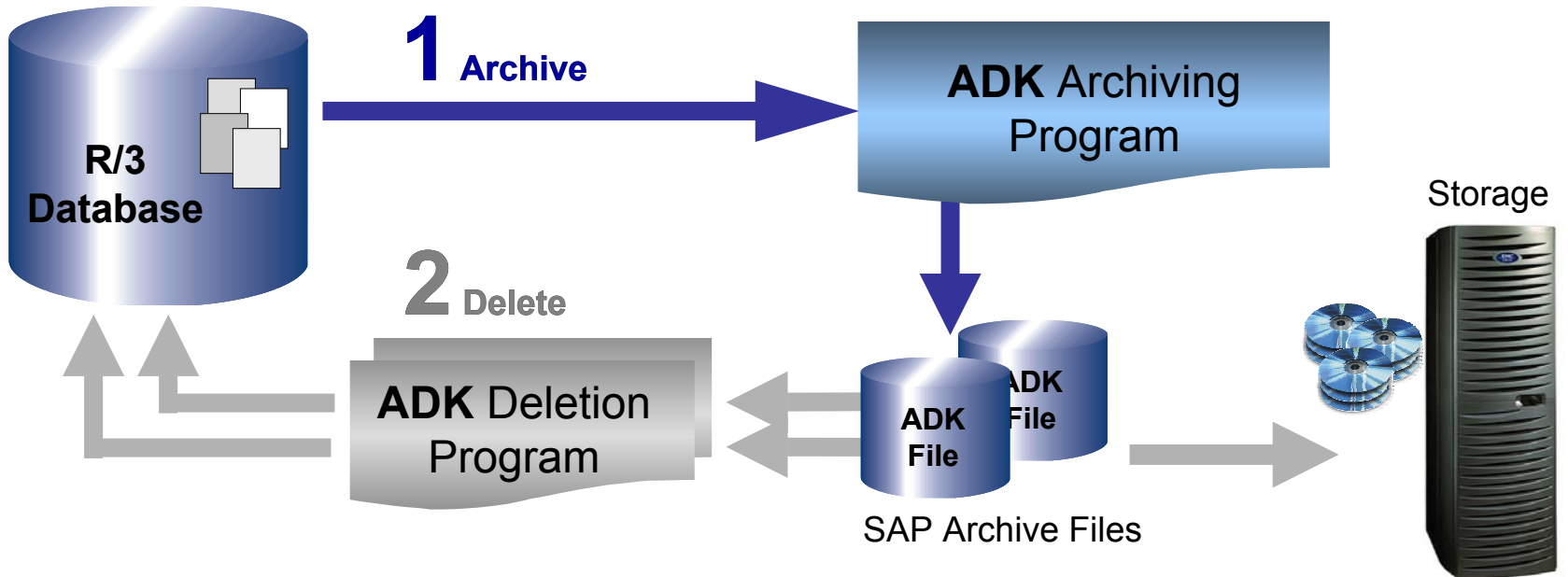
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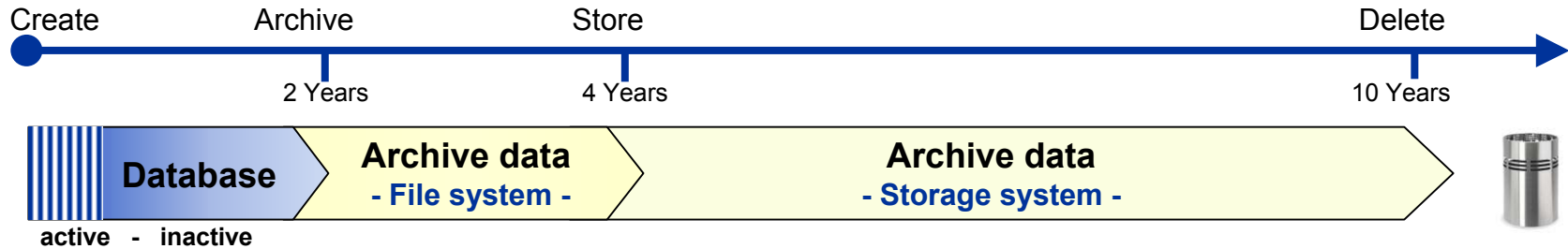
- ▶ **Classification**      Application data ⇨ daily operation, frequent access  
Reference data ⇨ audits (internal, external)
- ▶ **Age of the data**      ⇨ data storage optimization
- ▶ **Residence time**      ⇨ online, nearline, archive, deletion
- ▶ **Legal requirements**      (SOX, IRS, GDPdU,...)
- ▶ **Comfortable and quick access** to application data
- ▶ **Storage and access optimization** (DB capacity, recovery, backup,..)





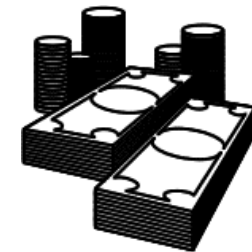
## SAP Data Archiving using the SAP Archive Development Kit (ADK)

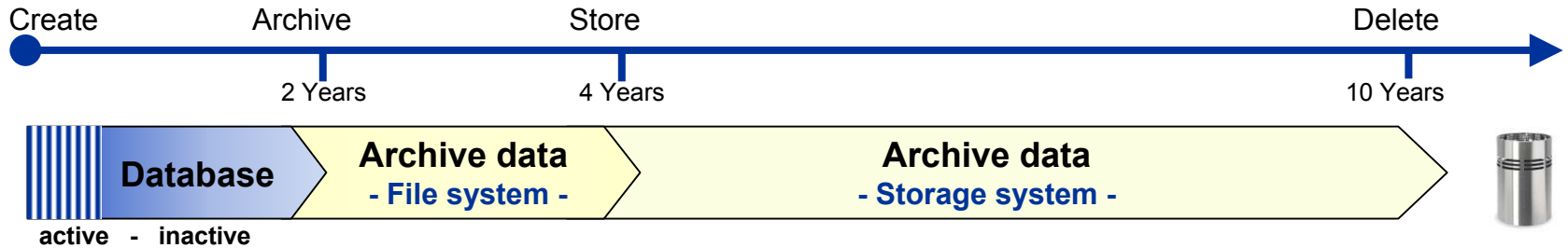




## ► Potential savings of aggressive SAP Data Archiving:

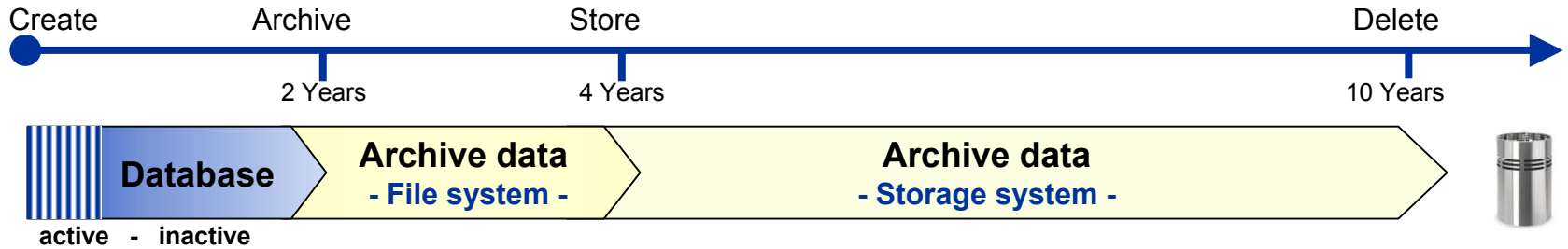
- Significant reduction of SAP database size
- Reduced hardware and administration costs
- Performance improvement - **reduced response time**
- Reduced effort for daily backup and potential disaster recovery
- Secure data management for legal requirements





## Challenges of the SAP Data Archiving process:

- Comfortable and complete retrieval of archived data  
=> Display and evaluation features
- Transparent and easy navigation within document chains  
=> Nested documents and document flow
- Data extraction for internal and external purposes  
=> Audits and legal requirements, system shutdown
- Usability with few training effort



SAP Components		
SAP R/3 mySAP ERP SAP NetWeaver BI	SAP Data Archiving ⇒ ADK SAP AS and DRB (Archive access) SAP NetWeaver, ADK	SAP ArchiveLink
PBS Add-On solutions for SAP		
PBS Database Analyzer PLUS  PBS BW Analyzer	PBS archive add ons for mySAP ERP PBS archive add on CBW  PBS Data Export Interface CFI PBS CDART PBS IDA (Independent DART Access)	<b>PBS ContentLink</b>

## ► PBS archive add ons

<b>CFI</b>	Financial Acc. + Material doc.	<b>CCO</b>	CO line items
<b>CMM</b>	Purchasing documents	<b>CSD</b>	Sales and distribution docs.
<b>CAB</b>	Agency business doc.	<b>CPCA</b>	Profit center line items
<b>CCOPA</b>	Costing-based profitability analysis	<b>CPM</b>	Plant maintenance
<b>CCU</b>	Master data change documents	<b>CPP</b>	Production orders
<b>CDART</b>	Data Retention Tool (DART)	<b>CPR</b>	Process orders
<b>CFICA</b>	Contract accounting	<b>CPS</b>	Project system
<b>CHR</b>	Human resources	<b>CQM</b>	Quality management
<b>CISU</b>	IS-U/CCS documents	<b>CSL</b>	Special ledger
<b>CML</b>	Material ledger	<b>CUSTOM</b>	Customer spec. tables
<b>CMT</b>	Material master data	<b>CWM</b>	Warehouse management
<b>COO</b>	CO orders		

## ► PBS Utilities

**Database Analyzer Plus** Capacity and doc. distribution analysis; Archivability check

**Fiscal Year Reporter** Efficient fiscal year management for FI

SAP R/3 3.x, 4.x, ECC 5.0, Lang.: DE, EN, FR (further by PBS Translation Tool)

## ▶ **SAP NetWeaver BI (Business Information Warehouse)**

**PBS archive add on CBW** ADK based **nearline storage** solution to display and evaluate InfoCube and ODS data from database and SAP archive files via virtual InfoProviders.

**PBS BW Analyzer** Disk space capacity analysis for SAP BW data objects.

## ▶ **PBS utility IDA**

Independent DART Access

Utility to filter and administrate data extracts from DART, CDART and PBS Data Export Interface independent of the availability of an SAP system

## ▶ **PBS storage interface**

**PBS ContentLink**

Interface solution for EMC Centera

Storage and retrieval of ADK files, PBS index files, DART, CDART, DEI files, print lists, in/outgoing docs., etc.



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**Data Retrieval with PBS archive add ons**

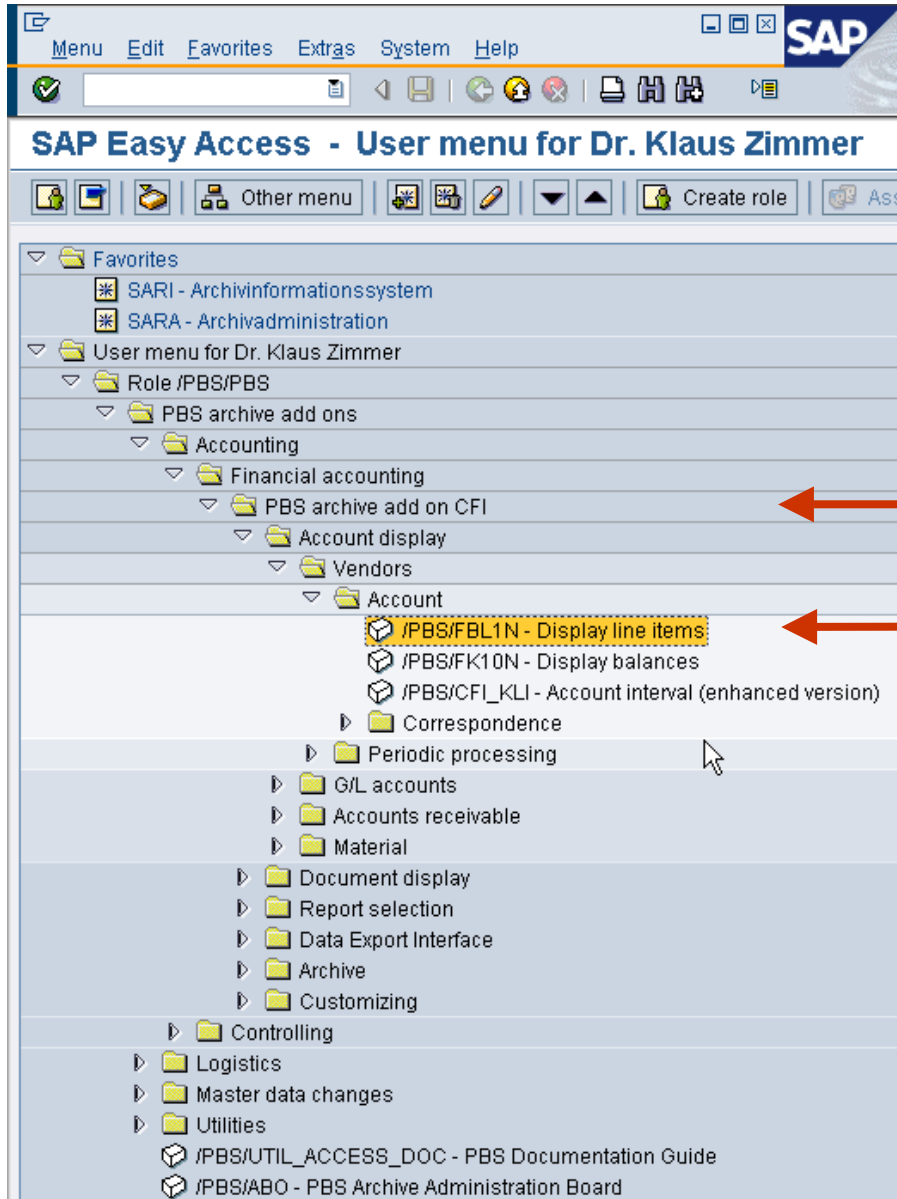
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Access to the functionality of the **PBS archive add on CFI** via roles in the user menu

/PBS/FBL1N  
PBS version of the SAP standard transaction FBL1N



**Vendor Line Item Display**

Vendor selection

Vendor account: 1000 to [ ]

Company code: 1000 to [ ]

Selection using search help

Search help ID: [ ]

Search String: [ ]

Complex search help: [ ]

Line item selection

Status

1=DB+archive 2=DB 3=archive **1**

Open items

Open at key date: 22.05.2000

Cleared items

Clearing date: [ ] to [ ]

Open at key date: [ ]

All items

Posting date: 01.01.1998 to 31.12.2004

Type

Normal items

Special G/L transactions

Noted items

Parked items

Customer items

Item without MR for single acc

List Output

Layout: /PBS/1SAP

Maximum number of items: [ ]

## Selection screen /PBS/FBL1N

PBS specific parameter to choose the data source



**Vendor Line Item Display**

Vendor: 1000  
Company code: 1000  
Name: C.E.B. BERLIN  
City: Berlin

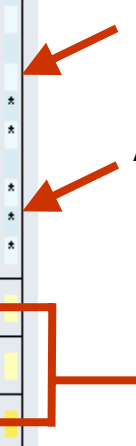
St	Assignment	DocumentNo	Type	Doc. Date	Amount in local cur.	LCurr	Clrng doc.	A
<input type="checkbox"/>	<input checked="" type="radio"/> 15000037131999	1500003713	KZ	18.02.1999	11.804,71	EUR	1500003713	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000051231999	5100005123	RE	18.02.1999	11.804,71-	EUR	1500003713	*
<input type="checkbox"/>	<input checked="" type="radio"/> 20000005281998	2000000528	ZP	18.12.1998	698,62	EUR	2000000528	*
<input type="checkbox"/>	<input checked="" type="radio"/> 20000005281998	2000000528	ZP	18.12.1998	511,29	EUR	2000000528	*
<input type="checkbox"/>	<input checked="" type="radio"/> 20000005281998	2000000528	ZP	18.12.1998	21.474,26	EUR	2000000528	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000050101998	5100005010	RE	07.12.1998	101,88-	EUR	2000000528	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000050341999	5100005034	RE	05.01.1998	102,26-	EUR	2000000725	*
<input type="checkbox"/>	<input checked="" type="radio"/> 20000007291999	2000000729	ZP	01.02.1999	339,61	EUR	2000000729	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000050601999	5100005060	RE	11.01.1999	339,61-	EUR	2000000729	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000051051999	5100005105	RE	05.02.1999	198,91-	EUR	2000000754	*
<input type="checkbox"/>	<input checked="" type="radio"/> 51000051381999	5100005138	RE	05.03.1999	213,47-	EUR	2000000754	*
*	<input checked="" type="radio"/>				22.067,65	EUR		
**	Account 1000				22.067,65	EUR		
***					22.067,65	EUR		

Selection results  
**/PBS/FBL1N**

Database data

Archive data via PBS index

Totals from archive + database



# Navigation from the Line Item List

### Vendor Line Item Display

Vendor: 1000  
Company code: 1000  
Name: C. E. B. BERLIN  
City: Berlin

St	Assignment	DocumentNo	Type	Doc. Date	Amount in local cur.	LCurr	Clrng doc.	A
15000037131999		1500003713	KZ	18.02.1999	11.804,71	EUR	1500003713	*
51000051231999		5100005123	RE	18.02.1999	11.804,71	EUR	1500003713	*
20000005281998		2000000528	ZP	18.12.1998	698,62	EUR	2000000528	*
20000005281998		2000000528	ZP	18.12.1998	511,29	EUR	2000000528	*
20000005281998		2000000528	ZP	18.12.1998	21.474,26	EUR	2000000528	*
51000050101998		5100005010	RE	07.12.1998	101,88	EUR	2000000528	*
51000050341999		5100005034	RE	05.01.1999	102,26	EUR	2000000725	*
20000007291999		2000000729	ZP	01.02.1999	339,61	EUR	2000000729	*
51000050601999		5100005060	RE	11.01.1999	339,61	EUR	2000000729	*
51000051051999		5100005105	RE	05.02.1999	198,91	EUR	2000000754	*
51000051381999		5100005138	RE	05.03.1999	213,47	EUR	2000000754	*
* * *					22.067,85	EUR		
** Account 1000					22.067,85	EUR		
***					22.067,85	EUR		

Drill-Down via Double click



### Display Document: Line Item 001

Vendor: 1000 C.E.B. BERLIN G/L Acc: 160000  
Company Code: 1000 Kolping Str. 15  
IDES AG Berlin Doc. no.: 5100005010

Line item 1 / Invoice / 31  
Amount: 199,26 DEM Amount in LC: 101,88 EUR  
Tax Code: VN

Additional details  
Bus. Area: Trdg part.BA: Disc. base: 199,26 DEM Disc. amount: 5,98 DEM  
Days/percent: 14 3,000 % 30 2,000 % 45  
Blinc date: 07.12.1998  
Prmt block: R Invoice ref.: / / 0  
Payment cur.: Prmt/c amnt: 0,00  
Clearing: 18.12.1998 / 2000000528  
Assignment: 51000050101998

Document 1000 5100005010 1998 is already archived

Line Item (Detail View)

Document Overview

## Display Original Document

Empfänger: Omega Soft-Hardware Markt, Gustav-Jung-Strasse 425, 90455 Nuernberg

Rechnung  
Namensdatum: 90005188 / 28.01.1997  
Belegnummer Datum: DG-21011997-4 / 21.01.1997  
Lieferanten / Datum: 80003378 / 24.01.1997  
Auftragsnummer Datum: 4975 / 21.01.1997  
Kundennummer: 1002

Bedingungen: Zahlungsbedingungen Bis zum 11.02.1997 erhalten Sie 3,000 % Skonto  
Lieferbedingungen Bis zum 14.03.1997 ohne Abzug CPT Nürnberg

Gewichte (Brutto/Netto) - Volumen - Markierung: 286 KG

Pos.	Material	Menge	Bezeichnung	Preis	Preiseinheit	Wert
000010	M-13	7 ST	MAG DX 17P	1.520,00	DEM	10.640,00
000020	M-14	6 ST	MAG PA/DX 175	1.599,00	DEM	9.594,00
000030	M-15	5 ST	SBC Multisync XV15	2.031,00	DEM	10.155,00
000040	M-16	1 ST	SBC Multisync XV 17	2.389,00	DEM	2.389,00

Environment:

- Further assignments
- Object links

### Document Overview - Display

Doc.type: RE ( Gross inv. receipt ) Normal document Archive: \*

Doc. Number: 5100005010 Company code: 1000 Fiscal year: 1998  
Doc. date: 07.12.1998 Posting date: 07.12.1998 Period: 12  
Doc. currency: DEM

Itm	PK	Account	Account short text	Assignment	Tx	Amount
1	31	1000	C. E. B. BERLIN	51000050101998	VN	199,26
2	86	191100	Goods Rcvd/Invoice R	450000576600010	VN	171,78
3	40	154000	Input tax		VN	27,48
1	31	1000	C. E. B. BERLIN	51000050101998	VN	199,26
2	86	191100	Goods Rcvd/Invoice R	450000576600010	VN	171,78
3	40	154000	Input tax		VN	27,48
1	31	1000	C. E. B. BERLIN	51000050101998	VN	199,26
2	86	191100	Goods Rcvd/Invoice R	450000576600010	VN	171,78
3	40	154000	Input tax		VN	27,48



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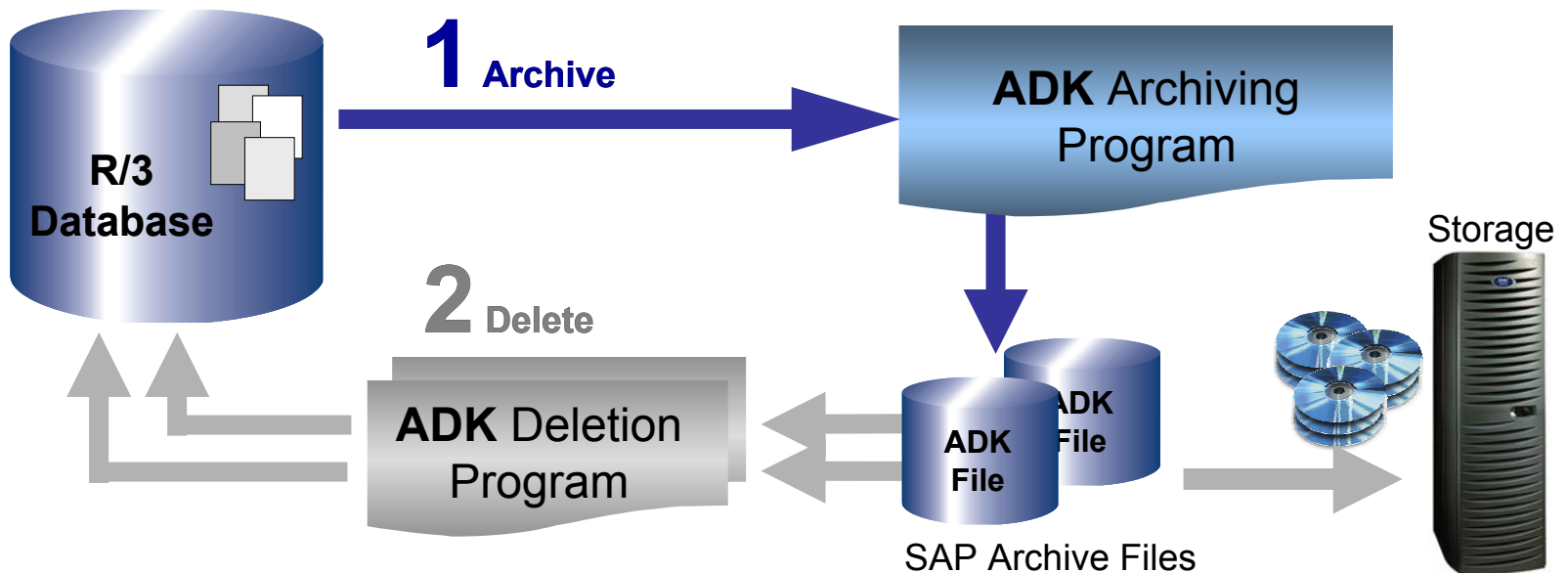
- ▶ ***PBS archive add ons*** retrieve and display archived data in **analogy** to SAP database data (display and evaluation functionality). Archive data and database data can be displayed simultaneously.
- ▶ ***PBS archive add ons*** are **standardized ready-to-use solutions** as add-on-software packages for SAP solutions.
- ▶ ***PBS archive add ons*** are delivered as **modular program packages** corresponding to major SAP modules (FI, SD, MM, CO, PP, HR, ...).
- ▶ ***PBS archive add ons*** are ABAP-ADD-ON **certified** for SAP R/3 releases 4.6, 4.7, ECC 5.0 and BW 3.5 by SAP AG.

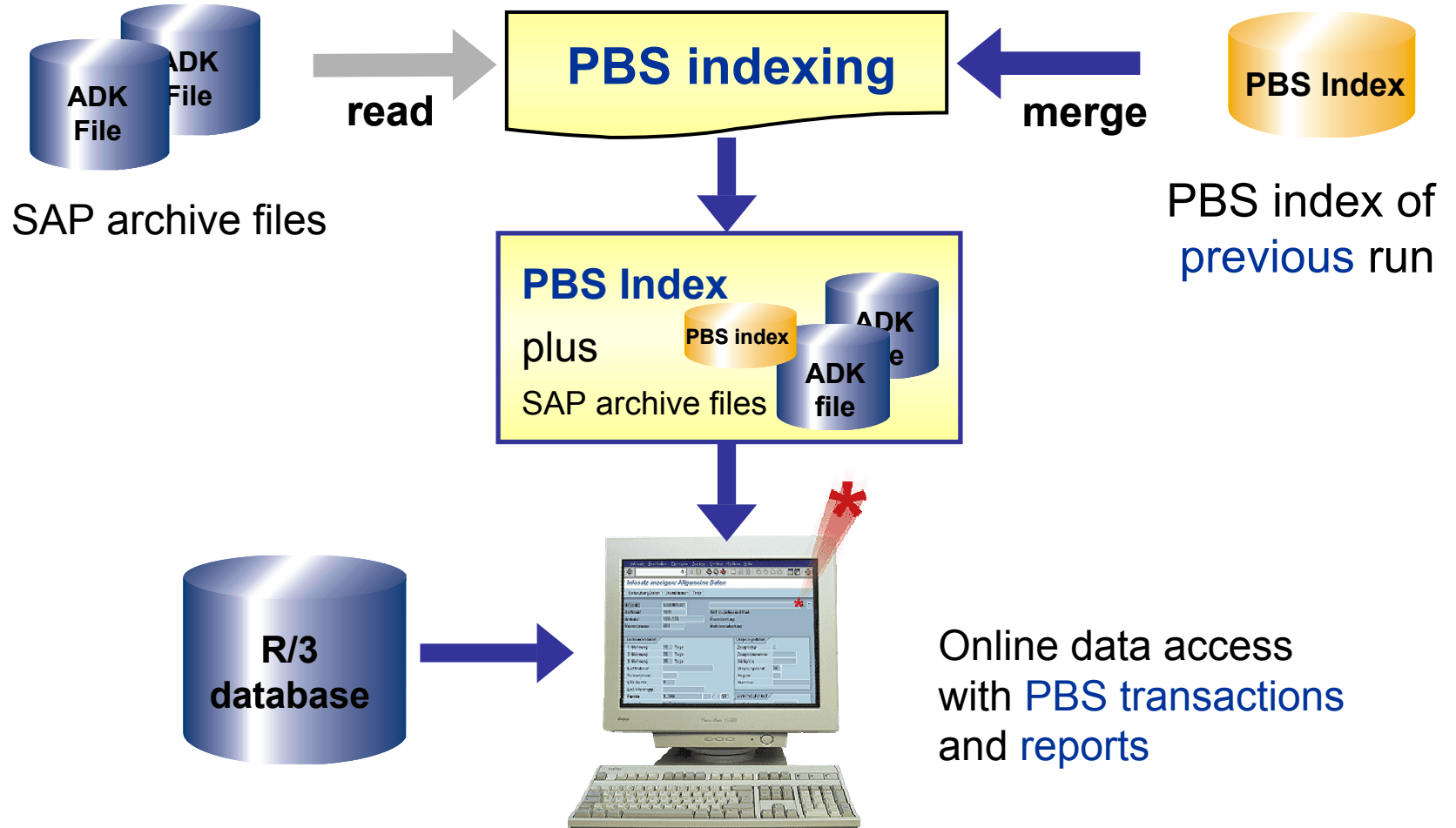


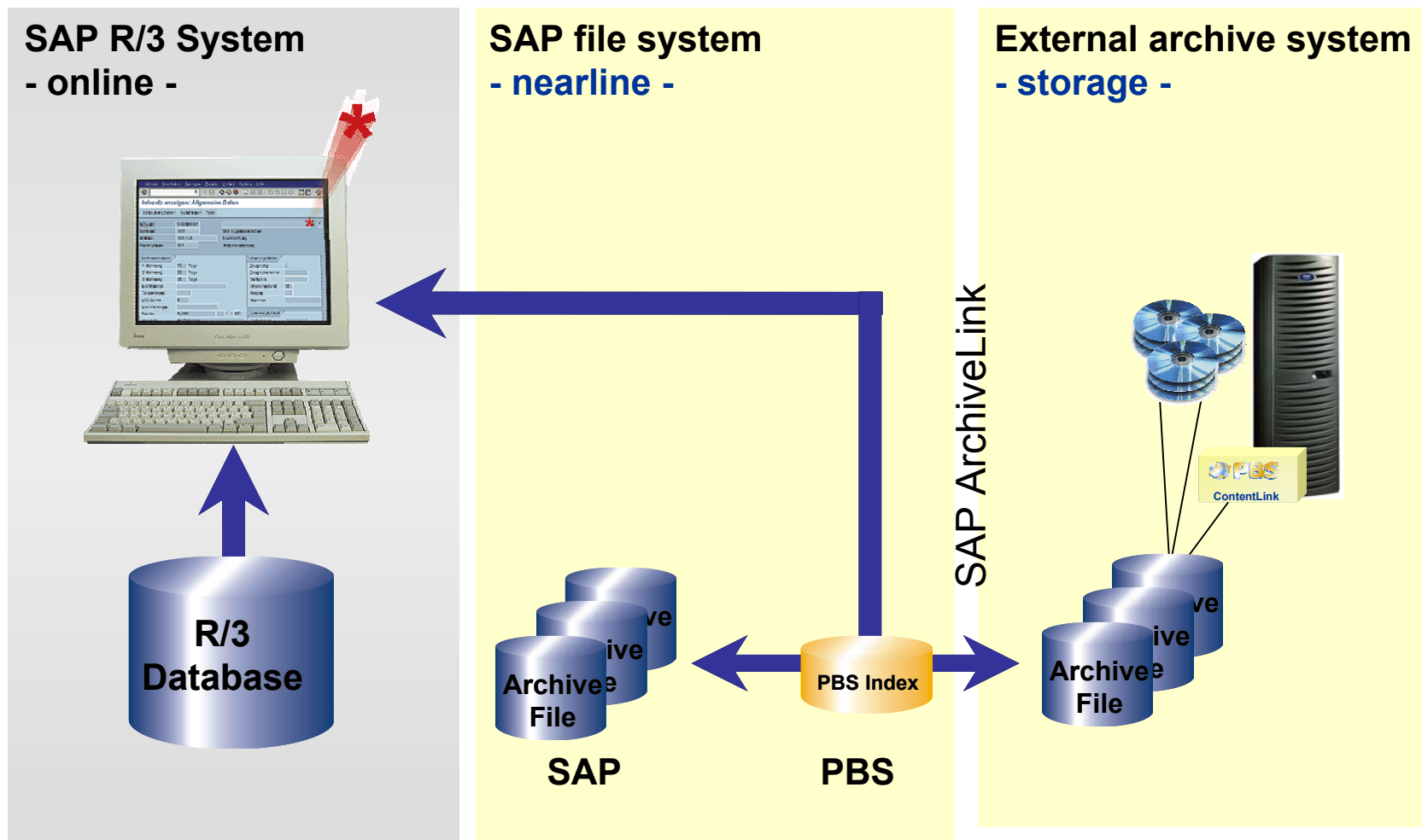
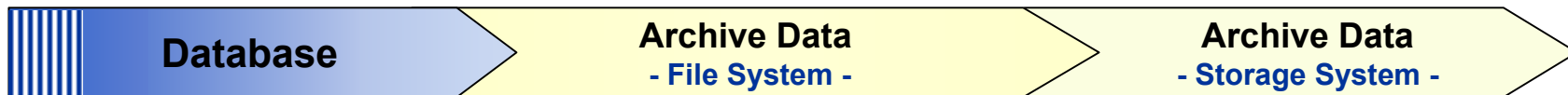


## ▶ SAP Data Archiving using the SAP Archive Development Kit (ADK):

- **Archiving Objects** (= program packages) to archive SAP application (transaction) data within their business content from the database to archive files.
- **Archive files:** compressed (=> encrypted) flat files.

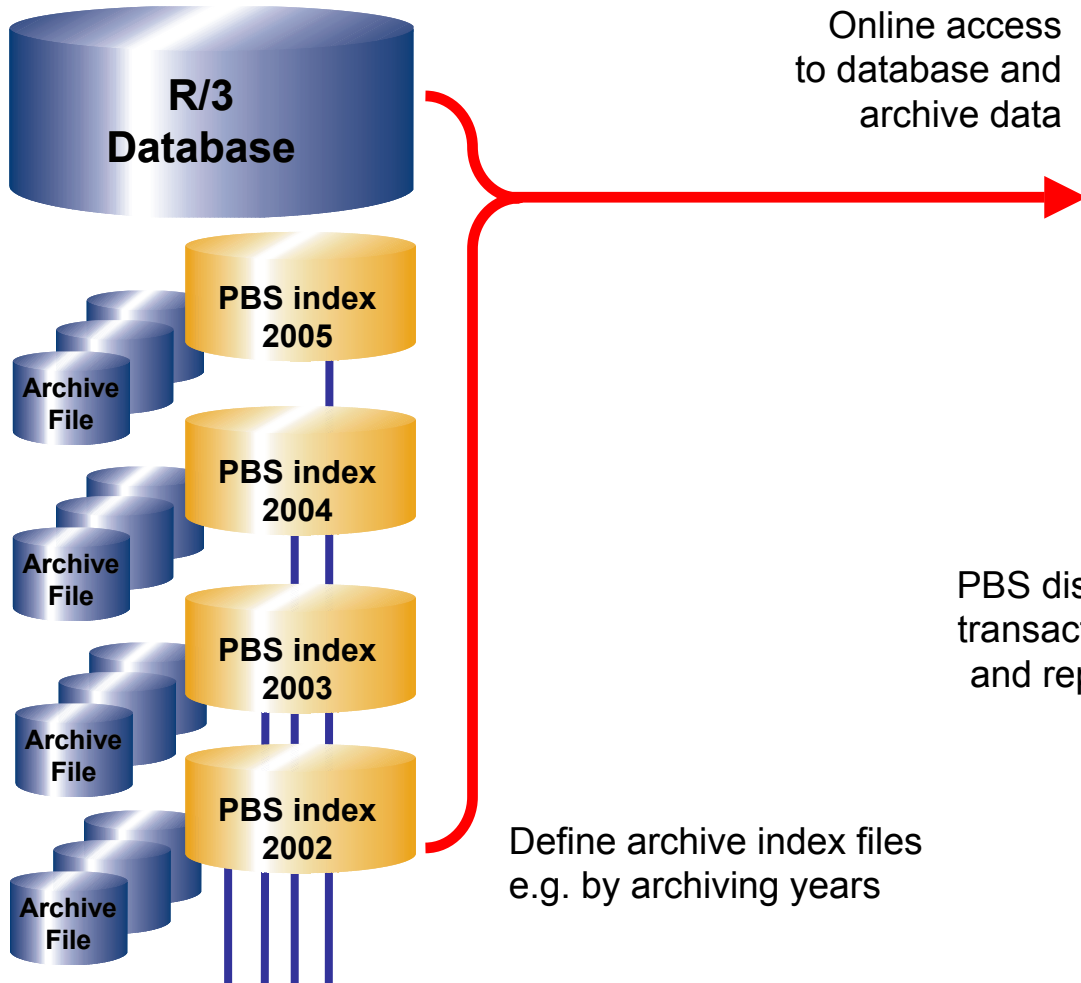








Keep index + archive data available for long time data access

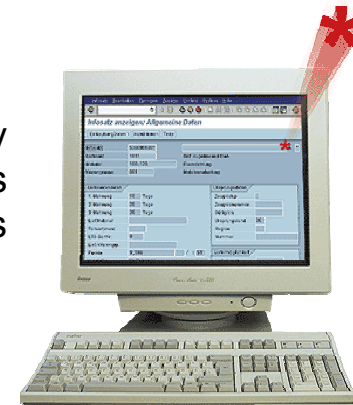


**Vendor Line Item Display**

Vendor: 1000  
Company code: 1000  
Name: C. E. B. BERLIN  
City: Berlin

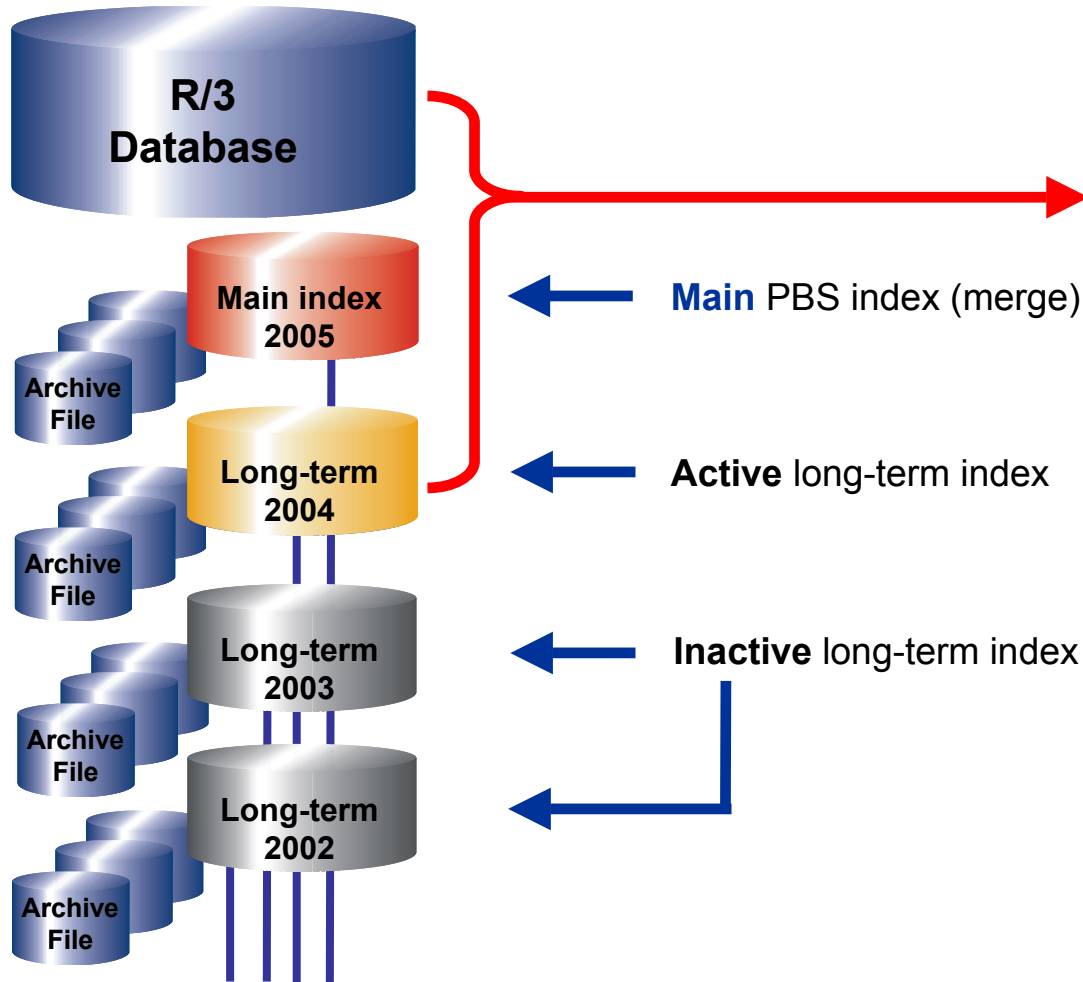
St	Assignment	DocumentNo	Type	Doc. Date	Amount in Total cur.	LCurr	Clrng doc.	A
	15000037131999	1500003713	KZ	18.02.1999	11.804,71	EUR	1500003713	*
	51000051231999	5100005123	RE	18.02.1999	11.804,71	EUR	1500003713	*
	20000005281998	2000000528	ZP	18.12.1998	698,62	EUR	2000000528	*
	20000005281998	2000000528	ZP	18.12.1998	511,29	EUR	2000000528	*
	20000005281998	2000000528	ZP	18.12.1998	21.474,26	EUR	2000000528	*
	51000050101998	5100005010	RE	07.12.1998	101,88	EUR	2000000528	*
	51000050341999	5100005034	RE	05.01.1999	102,26	EUR	2000000725	*
	20000007291999	2000000729	ZP	01.02.1999	339,61	EUR	2000000729	*
	51000050601999	5100005060	RE	11.01.1999	339,61	EUR	2000000729	*
	51000051051999	5100005105	RE	05.02.1999	198,91	EUR	2000000754	*
	51000051381999	5100005138	RE	05.03.1999	213,47	EUR	2000000754	*
* * * * *					22.067,65	EUR		
** Account 1000					22.067,65	EUR		
***					22.067,65	EUR		

PBS display transactions and reports



Define archive index files e.g. by archiving years

Split PBS index into main index, active and inactive long-term index



Vendor Line Item Display

Vendor: 1000  
Company code: 1000  
Name: C. E. B. BERLIN  
City: Berlin

St	Assignment	DocumentNo	Type	Doc. Date	Amount	In	Total	curr.	Curr	Clrng	doc.
		1500002713	RZ	10.02.1999	11,004,71			EUR	1500002713		
		51000051231999	RE	10.02.1999	11,004,71			EUR	1500003713		
		20000005201998	ZP	10.12.1998	699,62			EUR	2000000520		
		20000005201990	ZP	10.12.1998	511,29			EUR	2000000520		
		20000005201998	ZP	10.12.1998	21,474,28			EUR	2000000520		
		51000050101990	RE	07.12.1998	101,98			EUR	2000000520		
		51000050341990	RE	05.01.1998	102,26			EUR	2000000725		
		20000007291999	ZP	01.02.1999	339,61			EUR	2000000729		
		51000050601999	RE	11.01.1999	339,61			EUR	2000000729		
		51000051051999	RE	05.02.1999	199,91			EUR	2000000754		
		51000051301999	RE	05.03.1999	213,47			EUR	2000000754		
					22,067,65			EUR			
** Account: 1000					22,067,65			EUR			
***					22,067,65			EUR			

PBS index maintenance via „activation“ program

Index Activation

Select run for index construct!

Process main archive

Use last run

Select run manually

Delete indices

Transform into sec. archive

Process secondary archive

Activate secondary archive

Deactivate secondary archive

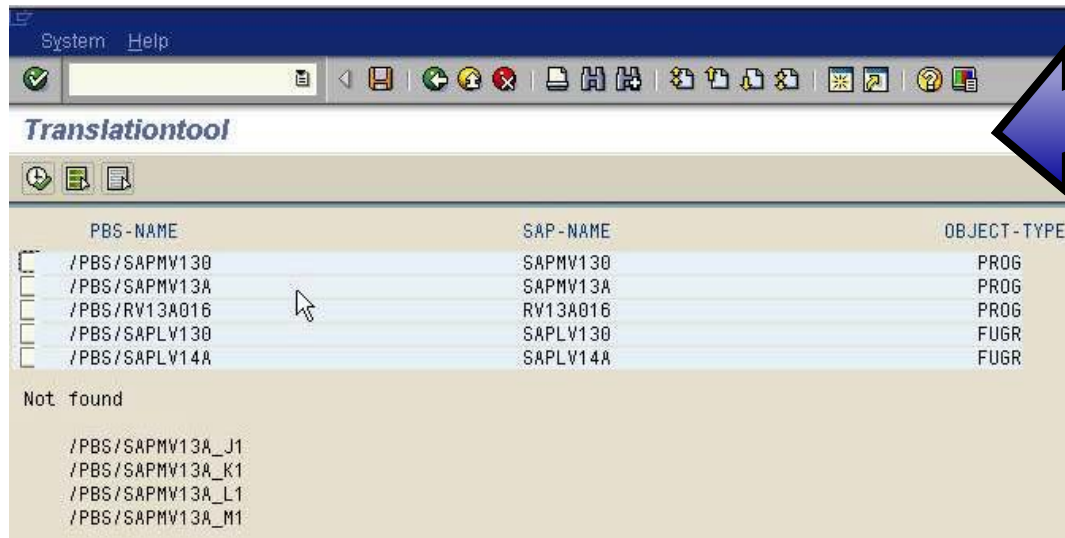
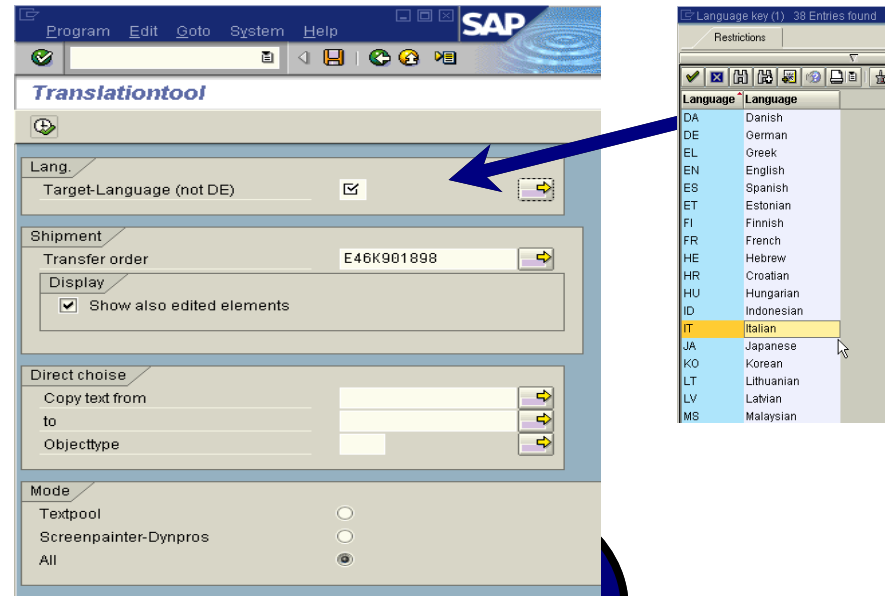
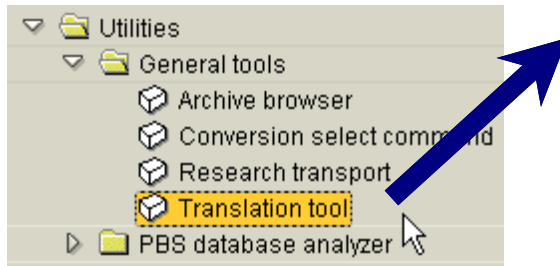
PBS archive

Selection list

Selection list



The PBS translation tool copies standard SAP text elements to the corresponding PBS translations/programs





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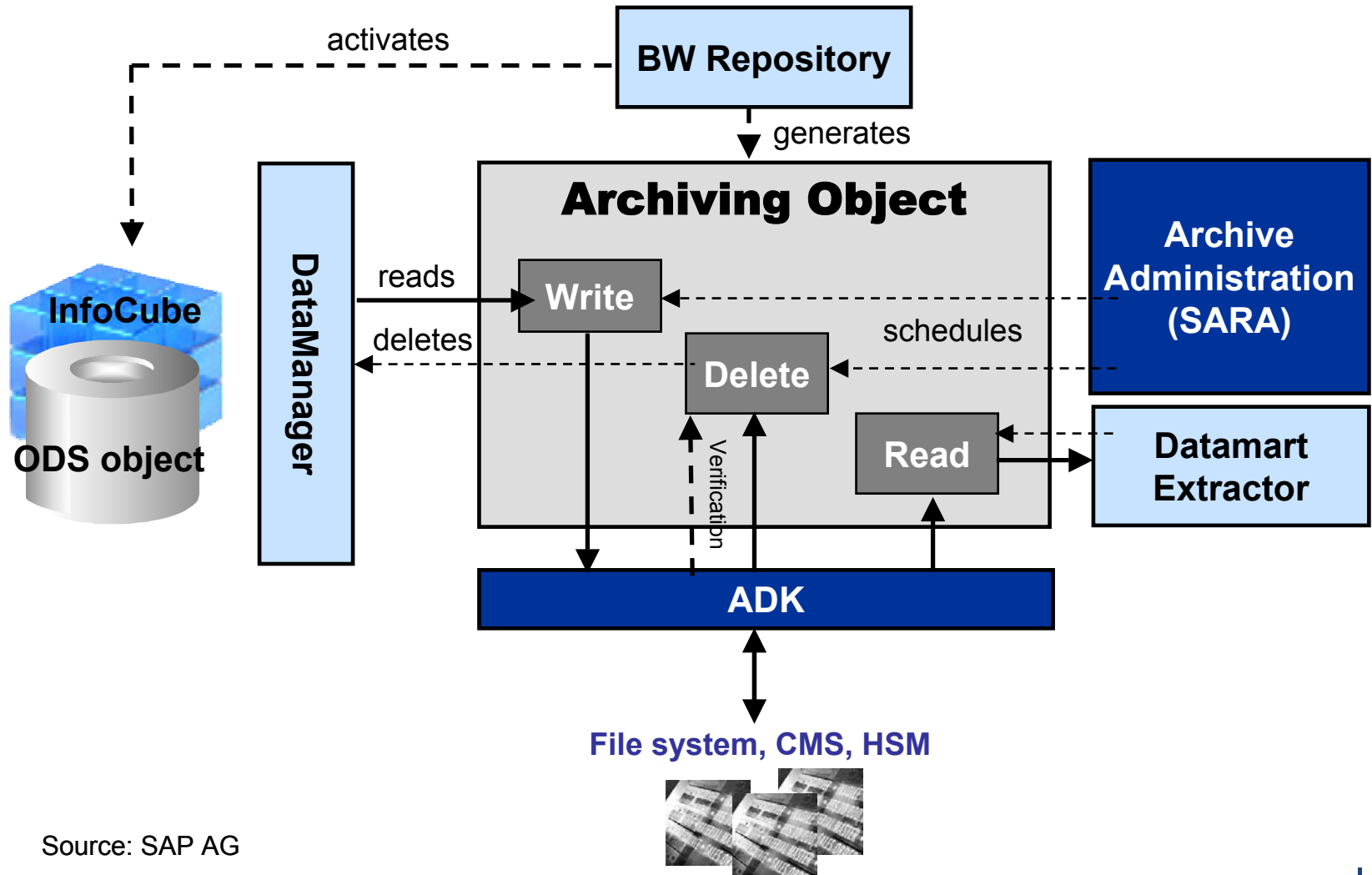
**Data Archiving Scenario – SAP NetWeaver BI**

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PBS Analysis Tools for DA Projects

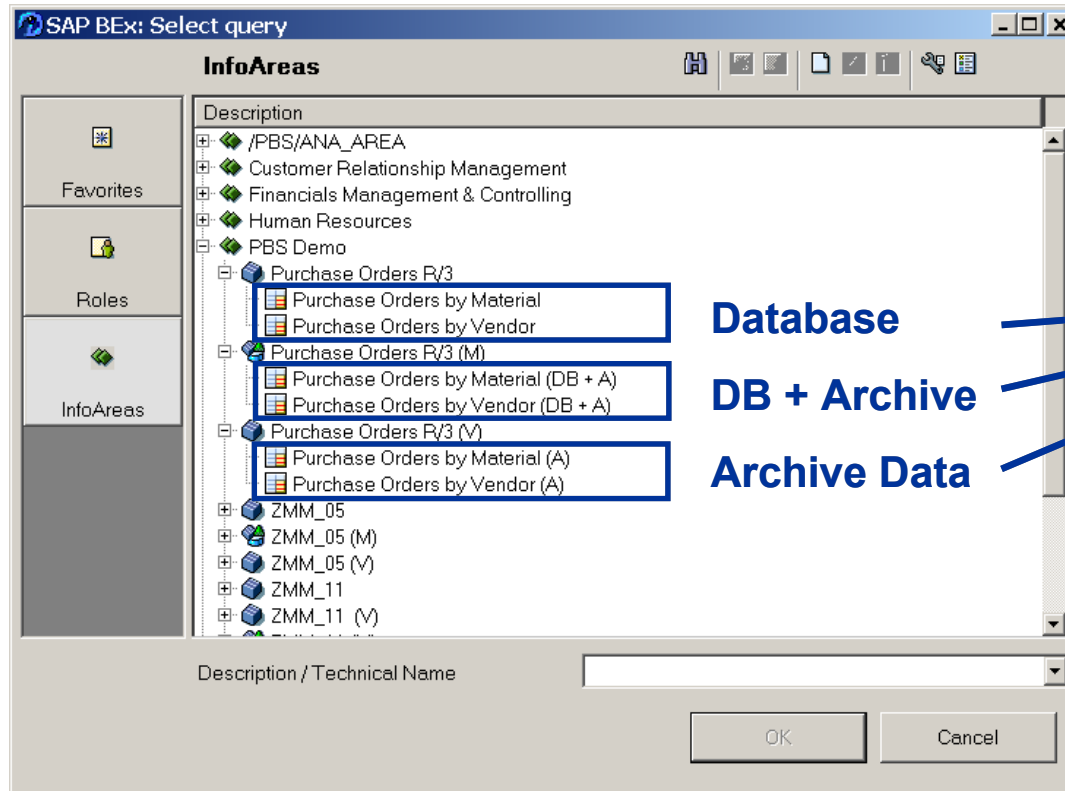
Storage – PBS ContentLink for EMC Centera

▶ Data archiving processes in SAP NetWeaver BI using the ADK tools



Source: SAP AG

- Retrieval of InfoCube and ODS data from archive files and the database via **PBS archive access enabled** BW queries



Database

DB + Archive

Archive Data



## Query to retrieve data from the BW database (Basic Cube)

Mappe3

	A	B	C	D	E
1	<b>Purchase Orders for Material</b>				
2					
3	<b>Client</b>				
4	<b>Structure</b>				
5	<b>Material</b>				
6	<b>Vendor</b>				
7	<b>Doc. number</b>				
8	<b>Document date</b>				
9					
10	Document date	01.01.1998..31.12.1998			
11	Material	100-110..100-120			
12	Client	100			
13					
14	<b>Material</b>	<b>Vendor</b>	<b>Doc. number</b>	<b>Document date</b>	<b>Quantity</b>
15	100-110	0000001003	4500005175	04.07.1998	35 PC
16			4500005255	06.08.1998	40 PC
17			4500005465	23.09.1998	41 PC
18			4500005496	09.10.1998	42 PC
19			4500005636	04.11.1998	40 PC
20			4500005759	03.12.1998	34 PC
21		<b>Result</b>			<b>232 PC</b>
22	100-120	0000001003	4500005729	20.11.1998	2 PC
23		0000001011	4500005176	04.07.1998	57 PC





- Query to retrieve data from ADK archive files via Virtual InfoProvider - PBS archive add on CBW

Mappe5

	A	B	C	D	E
1	Purchase Orders for Material				
2					
3	Client				
4	Structure				
5	Material				
6	Vendor				
7	Doc. number				
8	Document date				
9					
10	Document date	01.01.1998..31.12.1998			
11	Material	100-110..100-120			
12	Client	100			
13					
14	<b>Material</b>	<b>Vendor</b>	<b>Doc. number</b>	<b>Document date</b>	<b>Quantity</b>
15	100-110	0000001003	4500004920	15.04.1998	41 PC
16			4500004990	07.05.1998	40 PC
17			4500005031	05.06.1998	37 PC
18			4500005145	25.06.1998	100 PC
19		<b>Result</b>			<b>218 PC</b>
20	100-120	0000001003	4500005146	25.06.1998	100 PC
21		0000001011	4500004921	15.04.1998	68 PC



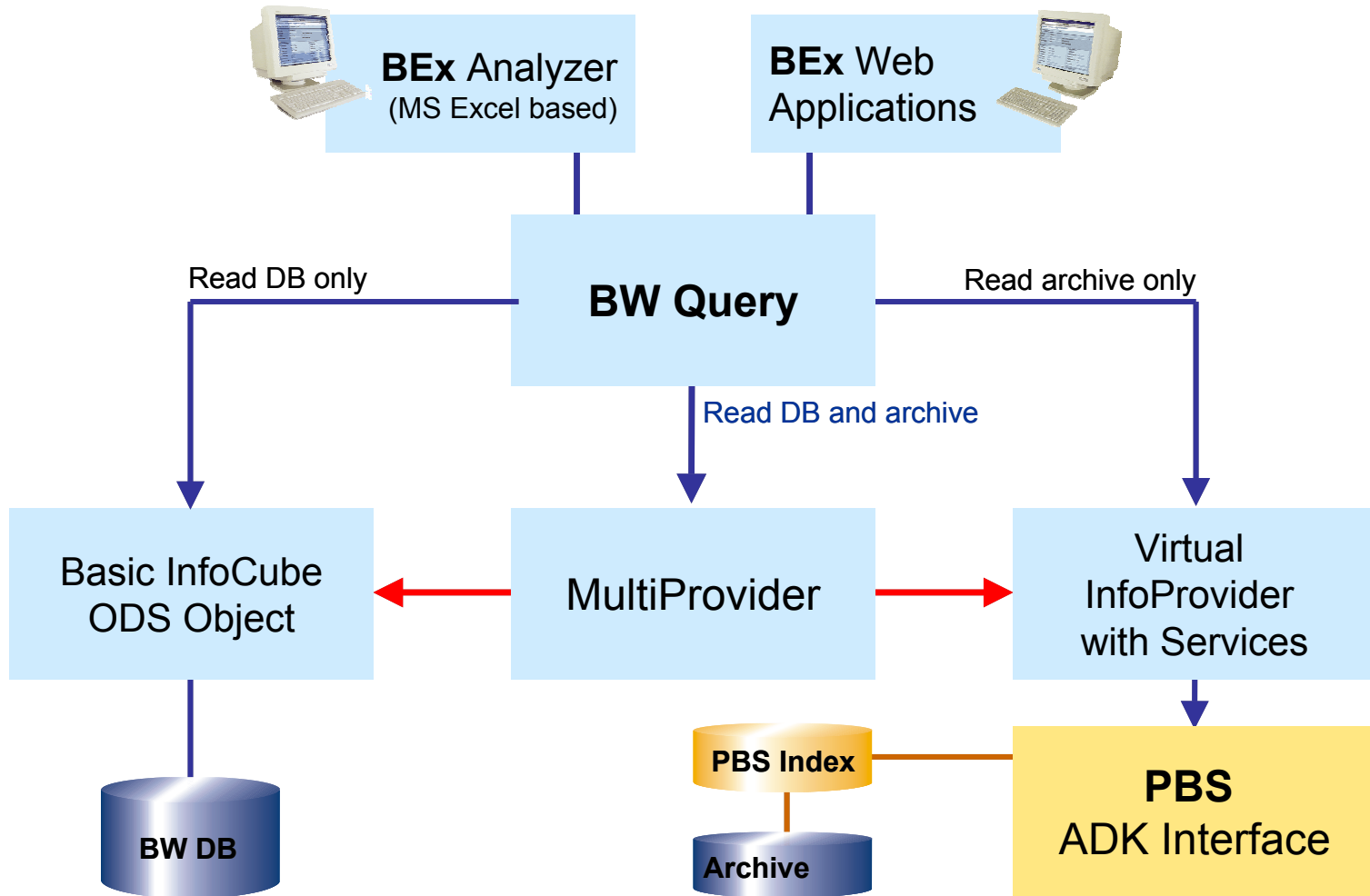
- Query to retrieve data from the BW database and ADK archive files via MultiProvider - PBS archive add on CBW

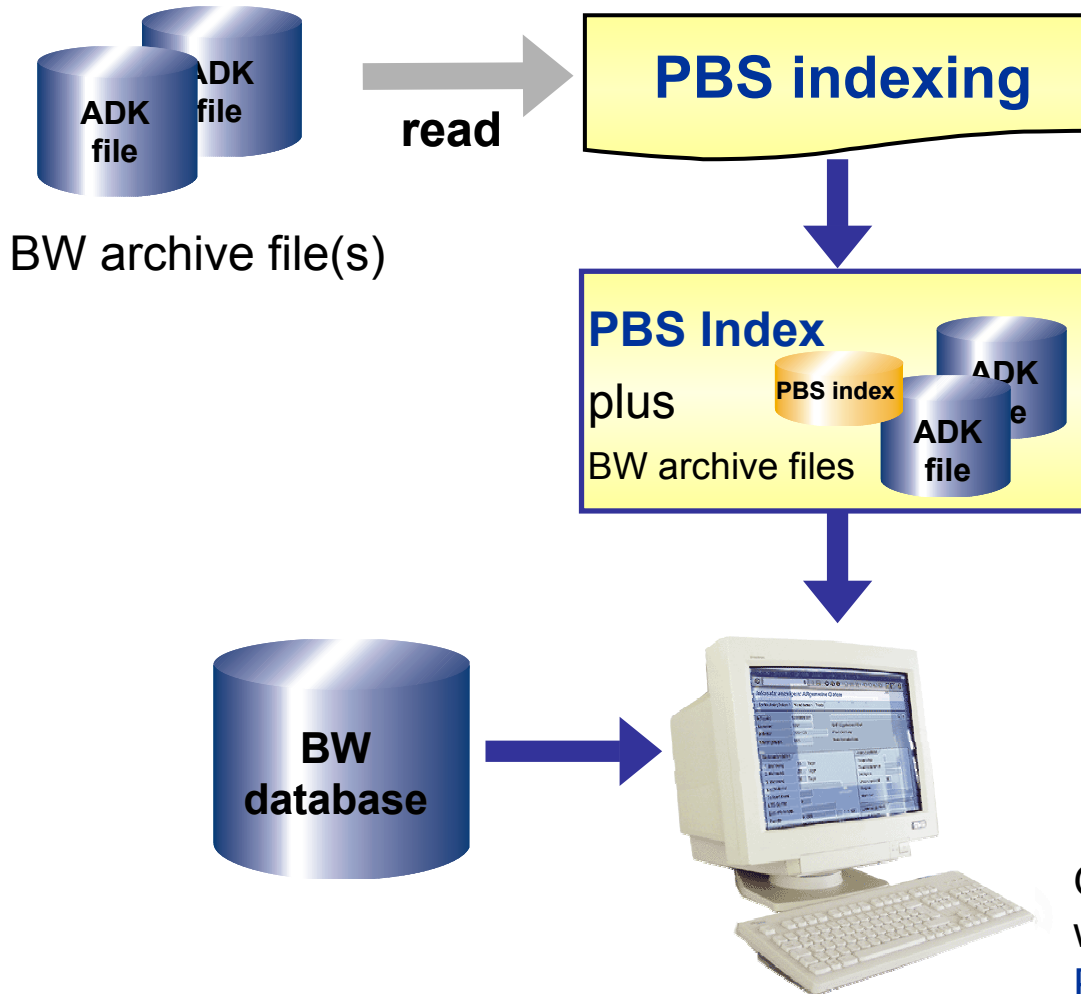
Mappe6

	A	B	C	D	E
1	Purchase Orders for Material				
2					
3	Client				
4	Structure				
5	Material				
6	Vendor				
7	Doc. number				
8	Document date				
9					
10	Document date	01.01.1998..31.12.1998			
11	Material	100-110..100-120			
12	Client	100			
13					
14	<b>Material</b>	<b>Vendor</b>	<b>Doc. number</b>	<b>Document date</b>	<b>Quantity</b>
15	100-110	0000001003	4500004920	15.04.1998	41 PC
16			4500004990	07.05.1998	40 PC
17			4500005031	05.06.1998	37 PC
18			4500005145	25.06.1998	100 PC
19			4500005175	04.07.1998	35 PC
20			4500005255	06.08.1998	40 PC
21			4500005465	23.09.1998	41 PC
22			4500005496	09.10.1998	42 PC
23			4500005636	04.11.1998	40 PC
24			4500005759	03.12.1998	34 PC
25		<b>Result</b>			<b>450 PC</b>
26	100-120	0000001003	4500005146	25.06.1998	100 PC



## Data retrieval for database and archive data with PBS CBW





**PBS CBW Administration Cockpit**

Object independent tools

Object selection  
SAP archiving object: **BWCZHM\_01**

Build

Diagnostics

Define PBS indices

Define PBS index attributes

- 1) Generate index arch. object
- 2) Generate PBS-specific programs
- 3) Generate InfoProviders (virtual/multi)
- 4) Copy queries to generated InfoProviders

Administration

Generate archive index data

Activate archive index data

Delete index run

Consolidate index

Browse index data

Tools

Browse SAP archive files

Modify workbooks

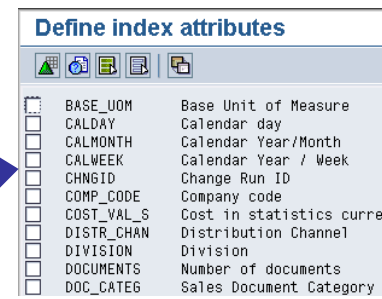
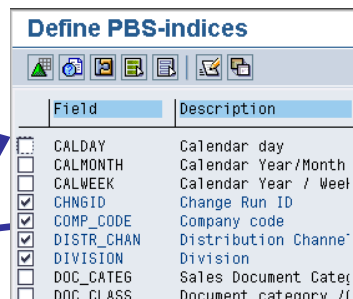
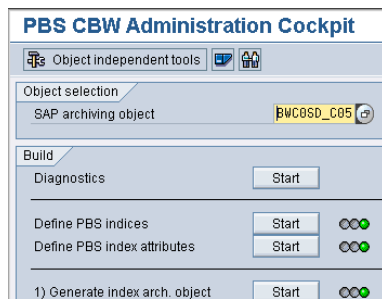
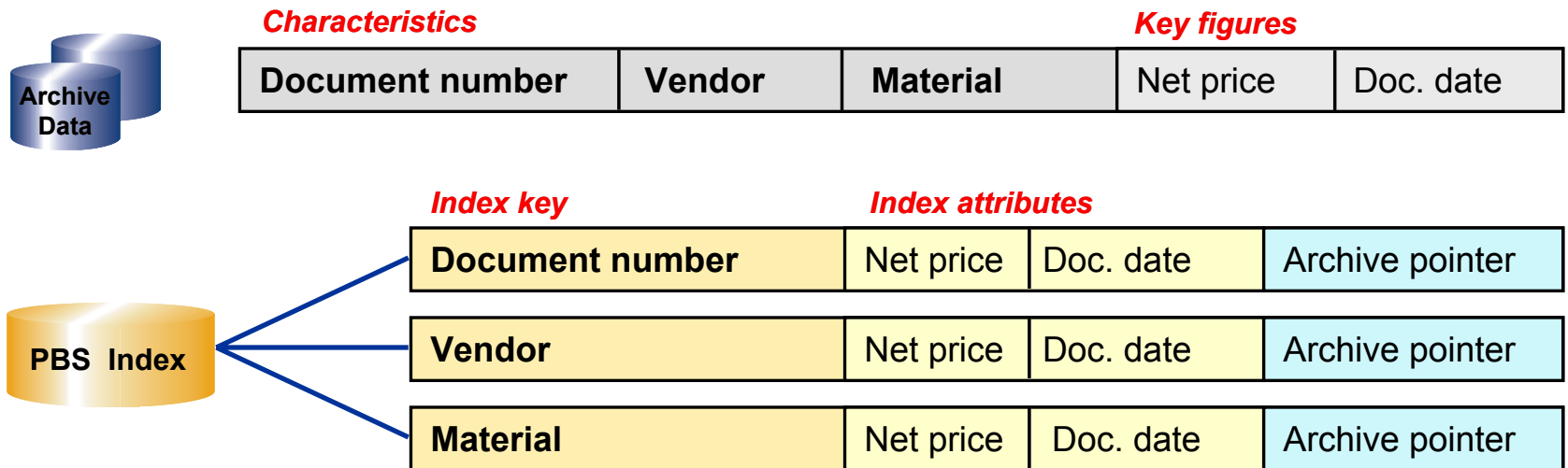
Show query fields

Show query statistics

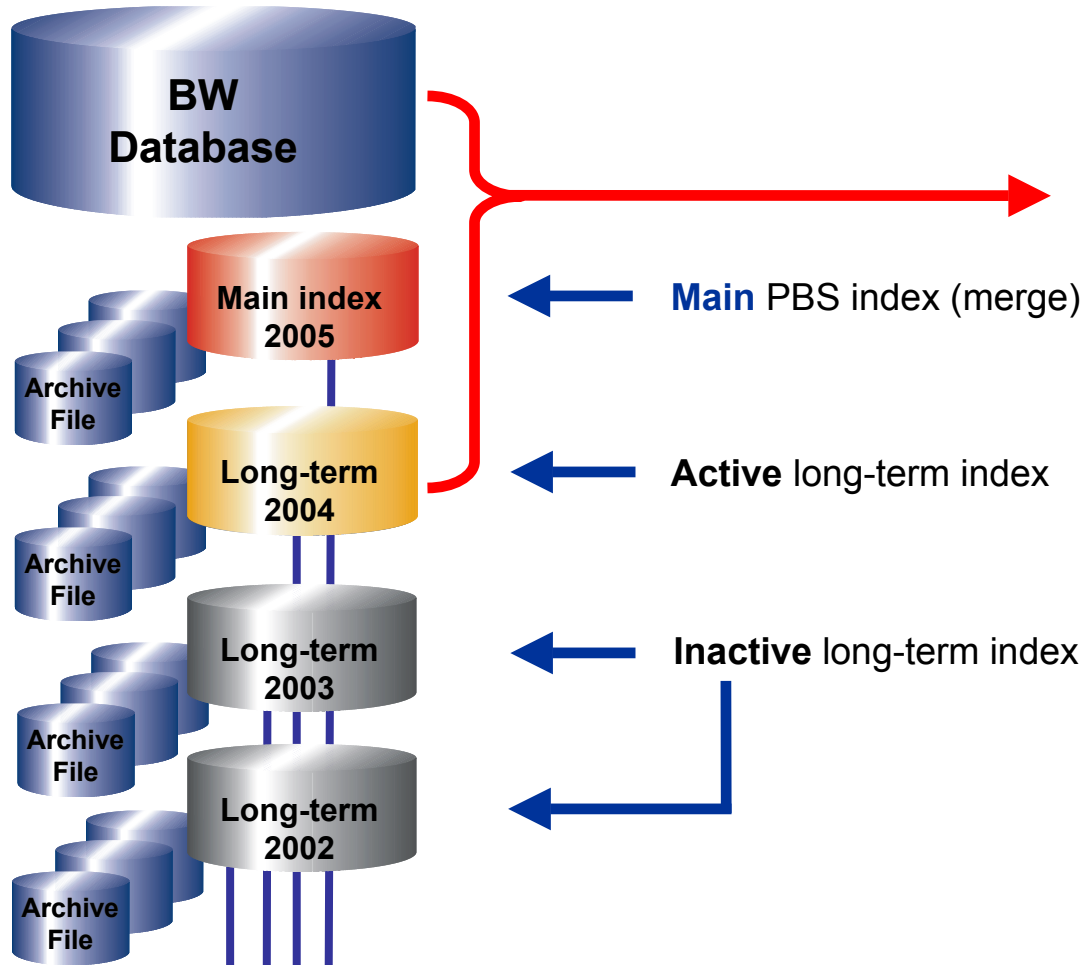
Virtual InfoProvider data display

Online data access with BW queries via PBS indices

- Flexible generic **index assembly** for InfoCube and ODS data
- Each characteristic (dimension) of InfoCube (ODS) data structure can be indexed.
- PBS index structures allow **additional** attributes (**characteristics** or **key figures**).



- Split PBS index into main index, active and inactive long-term index



Material	Vendor	Doc. number	Document date	Quantity
100-110	0000001003	4500004920	15.04.1998	41 PC
		4500004990	07.05.1998	40 PC
		4500005031	05.06.1998	37 PC
		4500005145	25.06.1998	100 PC
		4500005175	04.07.1998	35 PC
		4500005255	06.08.1998	40 PC
		4500005465	23.09.1998	41 PC
		4500005496	09.10.1998	42 PC
		4500005636	04.11.1998	40 PC
		4500005759	03.12.1998	34 PC
		<b>Result</b>		<b>450 PC</b>

**PBS index maintenance** via „activation“ program

**Index build PBS archive add on CBW**

Select run for index build!

Process main archive

Use last run  
 Select run manually   
 Deactivate main archive  
 Transform into sec. archive

Process long-term archive

Activate long-term archive   
 Deactivate long-term archive



Information  
Lifecycle  
Management

Introduction – PBS Software GmbH

ILM and Data Archiving for SAP Solutions

Data Retrieval with PBS archive add ons

Data Archiving Scenario – mySAP ERP (R/3)

Data Archiving Scenario – SAP NetWeaver BI

**PBS Data Extraction for Audit Purposes**

PBS Analysis Tools for DA Projects

Storage – PBS ContentLink for EMC Centera

- ▶ **Tax relevant** application data need to be kept for audit purposes for several years (e.g. Germany 10 years, USA 7 years). Online access and **data extraction for external evaluation** need to be provided.
- ▶ The data amount and data content is usually **defined by the auditors!**

## **Online access to DB and archive:**

- Display transactions and reports

## **PBS archive add ons**

## **Data extraction:**

- Variable data selection
- Database and archive access

## **PBS Data Export Interface**

## **PBS Database Export Interface (new)**

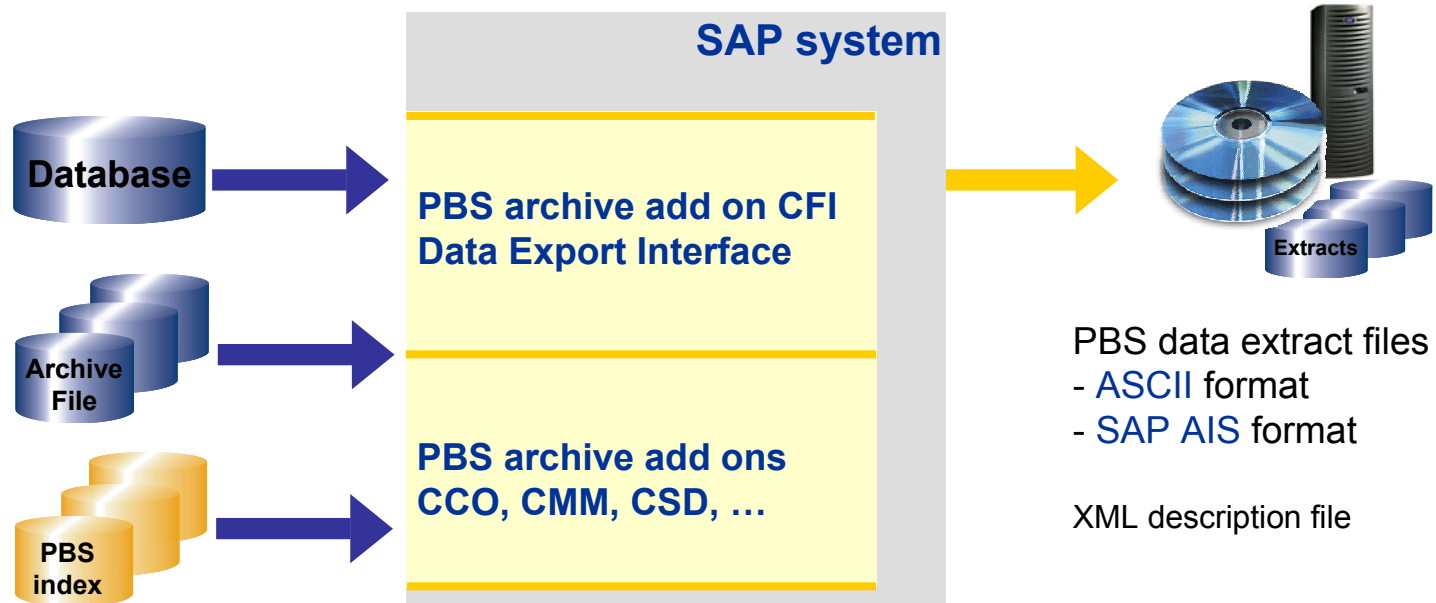
## **PBS archive add on CDART**

## **Access to extract files:**

## **PBS utility IDA (independent DART access)**



- ▶ The **PBS Data Export Interface** is a functional component of the PBS archive add on **CFI** for data extraction from archive files and the database.
- ▶ The **PBS Database Export Interface** is a new PBS utility to extract data from the database only (no archive data access).



The PBS Data Export Interface enables a comfortable extraction of **arbitrary** SAP data to external data carriers from the database (and archive files).

▶ **Predefined** data for specific business objects:

- Application data (FI, SD, MM,...)
- Master data (G/L accounts, materials, etc.)
- Customizing data.

▶ **Arbitrary** data of database tables and views:

- SAP standard tables
- Customer specific tables (z-tables)



Definition of the field catalog via ABAP List Viewer (ALV)



Administration of field catalogs



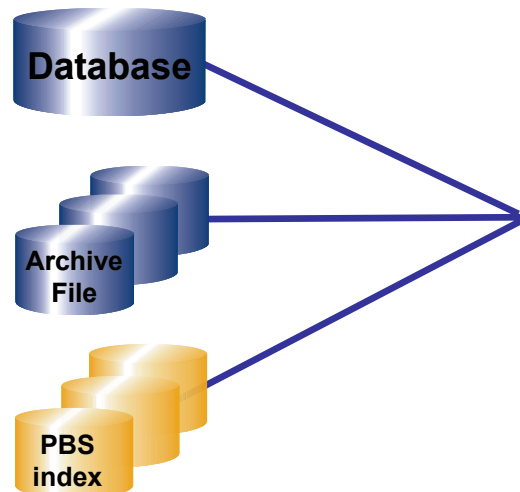
Variable field list configuration. No length or column limits.



Download in SAP audit format



Identification of data dependencies by PBS data export monitor



Data Type	Archiving Object	PBS module
FI documents	FI_DOCUMNT	<b>CFI</b>
Mat. documents	MM_MATBEL	
Cost accounting	CO_ITEM	<b>CCO</b>
Purchasing documents	MM_EKKO	<b>CMM</b>
SD documents	RV_LIKP SD_VBAK SD_VBRK	<b>CSD</b>
Master record changes	CHANGEDOCU	<b>CCU</b>

# Data Export Interface - Navigation



**SAP Easy Access - User menu for Klaus ZIMM**

- Other menu
- Create role
- PBS archive add ons
  - Accounting
    - Financial accounting
      - PBS archive add on CFI
        - Account display
        - Document display
        - Report selection
        - Data Export Interface
          - Export monitor
            - /PBS/CFI\_FR48 - Master data
            - /PBS/CFI\_FR49 - Transaction data
            - /PBS/CFI\_FR39 - Customizing data
            - /PBS/CFI\_FR43 - Changes Master records
            - Special extract reporting
            - Export Viewer

## Export Monitor

### Transaction Data

Generate data extract for

- ACCOUNTING DOCUM...
- Asset docs
- Material documents
- Purchasing documents
- Controlling document
- Reconcil. docs FI/CO
- External tax documents (TXXY)
- Payment medium docs
- Bill.doc
- Orders
- Delivery doc.
- Foreign trade data
- Order completion confirmations
- Operations within an order
- Sales partner
- SD Conditions

### Open Items

Open/Cleared items

- /PBS/CFI\_FR27 - Customer line items
- /PBS/CFI\_FR28 - Vendor line items
- /PBS/CFI\_FR29 - G/L account line items

### Master Data

- Customer master records
- Vendor master records
- G/L account master records
- Asset master record
- Material master data
- Cost center master
- Cost center hierarchy
- Cost element master
- Controlling total costs
- Profit center master
- Activity master

### Customizing Data

Variable table statement for table

- Single table
- Tablepool Financial account
- Tablepool Asset management
- Tablepool material documents
- Tablepool sales
- Tablepool cost accounting
- Tablepool purchases

**Data export cross over applications**

Extract maintenance

Archive add ons - Data export 'On Demand' -

Selection criteria

Company code: 1000 to

Name of database table: Data export 01/2006 - 16/2006

data path: /pbs/cfi

Data export

Period related

Period related

Posting period from: 1 / 2006 to 16 / 2006

Fiscal year related

Activity related

Key date related

Extended selection for asset documents

Depreciation area: 01

Report date: 31.12.2006

Generate data extract for

	Field variant	Maintain	Execute	File name
<input checked="" type="checkbox"/> ACCOUNTING DOCUM...	/PBS/GDPDU			BKPF_DOC
<input checked="" type="checkbox"/> Asset docs	/PBS/GDPDU			ANLA_DOC
<input checked="" type="checkbox"/> Material documents	/PBS/GDPDU			MKPF_DOC

## Layout Mgmt

Layout Choose

Layout	Layout description			
/PBS/AIS_10				
/PBS/AIS_11				
/PBS/AIS_FIB	FI data for Audicon TaxAudit			
/PBS/DENO	Example			
/PBS/GDPDU	Export scope for german gov. request	✓	✓	
/PBS/TAX	Tax data			
/PBS/XPOS	PBS basic line item list			
/PBS/XPOS_6K	Basic item list inc. offset account			

Copy

## ALV Field Catalog

Change layout

Line 1 Line 2 Line 3

Column content	Pos	Len
Company Code	1	4
Document Number	2	10
Fiscal Year	3	4
Line Item	4	3
Posting Period	5	7
Document type	6	3
Posting Date	7	9
Document Date	8	8
Cross-co. code no.	9	16
Translation date	10	9
Reference	11	16
Document Header Text	12	25

Line width: 2016

List width: 2016

Copy

## Output Control

Output option

Display/Print

Export to file (SAP-Audit)  Log file with reconciliation totals

Create BW extract

Export option

File name: BKPF\_DOC

Directory: /pbs/cfi

Complete date/time to file name

Administration requested

Storage node

## PC Analysis Program

IDEA - [FI\_DOCUMENTS\_YEAR\_2003]

MDT	BUKR	BELEGNR	JAHR	P	BUCH_DAT	K	HAUPTBUCH	KURZTEXT	KONTO	BS	WAH	BETRAG	HWA	BETRAG	HAU	A
100	1000	1400000158	2000	1	2000/05/31	S	0000113108	DreBk (Deb-Geldel)	40	DEM	1.026.751,96	EUR	524.969,94			
100	1000	1400000158	2000	2	2000/05/31	D	0000140000	Lampen-Mark GmbH	15	DEM	-1.026.751,96	EUR	-524.969,94			
100	1000	1400000137	1995	1	1995/06/25	S	0000113108	DreBk (Scheckeing)	40	DEM	6,33	EUR	3,24	*		
100	1000	1400000137	1995	2	1995/06/25	D	0000140000	Buy & Fly Supermarkd	15	DEM	-6,33	EUR	-3,24	*		
100	1000	1400000138	1995	1	1995/06/28	S	0000113108	DreBk (Scheckeing)	40	DEM	57,60	EUR	29,40	*		
100	1000	1400000138	1995	2	1995/06/28	D	0000140000	Buy & Fly Supermarkd	15	DEM	-57,60	EUR	-29,40	*		

- ▶ One-step „on-demand“ data extraction in SAP AIS or ASCII format
- ▶ Unlimited, comfortable field selection via SAP ALV
- ▶ Database **and** archive data processing
- ▶ Suitable for mass data processing
- ▶ Easy and user friendly configuration and usage
- ▶ Immediate display via PC evaluation program (e.g. ACL, IDEA)
- ▶ Dedicated version for exclusive processing of database data (new)



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**PBS Analysis Tools for DA Projects**

Storage – PBS ContentLink for EMC Centera

Utility to comfortably evaluate and monitor important database parameters and support **data archiving** projects

## Database capacity analysis

Analyse table size/occupation grouped by archiving objects (> 900 tables in >100 AOBJ). Run periodically for growth rates.  
Supports: Oracle, MS-SQL, Informix, ADABAS, DB2, DB400

## Document distribution analysis

Analyse document distribution for FI, SD, MM, CO by e.g. fiscal year, company code, doc. type, doc. numbers;  
**NEW:** material documents and orders (PP, PM, PR)

## Archivability evaluation

Check data archivability for important AOBJ in FI, MM, SD:  
FI\_DOCUMNT, MM\_EKKO, SD\_VBAK, RV\_LIKP, SD\_VBRK

SAP  
Program Edit Goto System Help

PBS DB Analyzer PLUS: Evaluation capacity document

Selections

Application to  
Archive object to  
Database table to  
Run number 14

Options

Group by: Archive object  
Sort: Size  
Archiving with CO\_ITEM  
Determine document size  
Show zero values  
Show database tables  
Single table evaluation  
Show PBS-module  
Download results

## Analysis result:

Menu: /pbs/ana  
T-Code: /pbs/ana\_k

PBS DB Analyzer+: Disk space occupancy of arch. objects Time 13:57:26 ZIMMER  
Run number 0014 from 25.03.2003 : 5.624.963 KB Date 09.05.2003 YYCSANAK  
DEMO run for Kirby Page 1

Size of selected data : 5.624.963 KB  
Portion of total size : 100 %

Object	Name of object	Total (KB)	Sel (%)	Tot (%)
FI_SL_DATA	Totals and line items in FI-SL	1.674.119	29,8	29,8
CO_ITEM	CO line items	663.726	11,8	11,8
FI_DOCUMNT	Financial accounting documents	487.634	8,7	8,7
CO_COSTCTR	Cost center - all data (incl.center master)	359.089	6,4	6,4
IDOC	IDoc - Intermediate Document	357.848	6,4	6,4
PA_CALC	HR: Payroll accounting results	289.655	5,1	5,1
MM_ACCTIT	MM- Accounting interface posting data	274.872	4,9	4,9
CV_DVS	Document Management System	242.389	4,3	4,3
FI_MONTHLY	Sales figures A/P, A/R, G/L	206.247	3,7	3,7
SD_VBRK	Billing documents	165.868	2,9	2,9
SD_VBAK	Sales documents	87.929	1,6	1,6
MM_MATNR	MM: Material master records	79.980	1,4	1,4
MM_MATBEL	Materials management: Material documents	78.961	1,4	1,4
PA_PIDX	HR: Index files for posting to FI	70.645	1,3	1,3
MM_EKKO	Purchasing documents	69.559	1,2	1,2
PA_LDOC	PA: Long term documents	68.856	1,2	1,2
AM_ASSET	Asset - master data, values and movements	54.810	1,0	1,0
RV_LIKP	Deliveries	52.745	0,9	0,9
PP_ORDER	Production order	43.620	0,8	0,8

PBS DB Analyzerr: Disk space occupancy of arch. objects		Time	12:06:44	ZIMMER
Run number	0004 from 10.04.2000 :	3.299.342 KB	Date	04.05.2000 YYCSANAK
slktj			Page	1
Size of selected data		752.241 KB		
Portion of total size		23 %		

Object	Name of object	Total (KB)	Se1 (%)	Tot (%)
Table	Name of database table	Size (KB)	Se1 (%)	Tot (%)
<b>CO_ITEM</b>	<b>CO Line items</b>	<b>476.708</b>	<b>63,4</b>	<b>14,4</b>
COEJ	CO object: year-related line items	256.595	34,1	7,8
COEP	CO object: period-related line items	161.632	21,5	4,9
COBK	CO Object: Document header	29.445	3,9	0,9
COEJL	CO Object: Line Items for Activity Types (by Yea	15.840	2,1	0,5
COEPL	CO Object: Line Items for Activity Types (by Per	8.112	1,1	0,2
COEPR	CO Object: Statistical Key Figure Line Items (by	2.655	0,4	0,1
COEJR	CO Object: Statistical Key Figure Line Items (by	2.344	0,3	0,1
COEPB	CO Object: Line Items Variance/Period-based Resu	67	0,0	0,0
EBII	CO/SD Document Flow: Billed Portions of Resource	18	0,0	0,0
<b>CO_COSTCTR</b>	<b>Cost center - all data (incl_center master)</b>	<b>222.417</b>	<b>29,6</b>	<b>6,7</b>
COSS	CO Object: Cost Totals - Internal Postings	101.071	13,4	3,1
COBP	CO Object: Cost Totals - External Postings	38.846	5,2	1,2
CDPOS	Change document items			
COVB	CO Object: Total Variances/Results Analysi			
CDHDR	Change document header			
COEJT	CO Object: Activity Price Line Items (by			
STXL	STXD SAPscript text file lines			

## Result details

PBS Database Analyzer: Disk space occupancy		Time	13:34:25	ZIMMER	1
Vergleich zweier Analyseläufe		Date	04.05.2000	YYCSANAK	

Run	date	text	Total run	Part of sel.	%-Part
0003	01.01.1998	Kapazitätslauf IDES	1.066.037 KB	1.066.037 KB	100 %
0004	01.01.1998	Kapazitätslauf IDES	1.026.721 KB	1.026.721 KB	100 %

Object	Name of object	Run 0003		Run 0004		Dispspace - loss (KB) + profit (KB)
		Total (KB) Size (KB)	Se1 (%)	Total (KB) Size (KB)	Se1 (%)	
<b>FI_DOCUMNT</b>	<b>Financial accounting documents</b>	<b>144.641</b>	<b>13,6</b>	<b>104.854</b>	<b>10,2</b>	<b>+ 39.787</b>
BSEG	Accounting document segment	48.841	4,6	32.331	3,1	+ 16.510
BSIS	Accounting: Secondary index for G/L accounts	23.402	2,2	20.297	2,0	+ 3.105
BKPF	Accounting document header	22.111	2,1	14.259	1,4	+ 7.852
BSAD	Accounting: Secondary index for customers (clear	14.484	1,4	11.227	1,1	+ 3.257
BSET	Tax data document segment	10.567	1,0	6.348	0,6	+ 4.219
BSAS	Accounting: Secondary index for G/L accounts (c1	10.029	0,9	7.659	0,7	+ 2.370
BSAK	Accounting: Secondary index for vendors (cleared	7.918	0,7	6.416	0,6	+ 1.502
BSIK	Accounting: Secondary index for vendors	3.330	0,3	3.329	0,3	+ 1
BSIM	Secondary Index, Documents for Material	2.597	0,2	1.628	0,2	+ 969
BSIP	Index for vendor validation of double documents	1.021	0,1	1.021	0,1	+ 0
CDPOS	Change document items	199	0,0	199	0,0	+ 0
CDHDR	Change document header	94	0,0	94	0,0	+ 0
BSID	Accounting: Secondary index for customers	39	0,0	39	0,0	+ 0
BSEC	One-time account data document segment	5	0,0	3	0,0	+ 2
BVOR	Intercompany posting procedures	4	0,0	3	0,0	+ 1
BSED	Bill of exchange fields document segment	0	0,0	0	0,0	+ 0
BSIW	Index table for customer bills of exchange used	0	0,0	0	0,0	+ 0
BSIX	Index table for customer bills of exchange used	0	0,0	0	0,0	+ 0
STXB	SAPscript: Texts in non-SAPscript format	0	0,0	0	0,0	+ 0
STXH	STXD SAPscript text file header	0	0,0	0	0,0	+ 0

## Comparison of two runs



Program Edit Goto System Help

PBS DB Analyzer: Constr. document distribution

Name document run: Test run document distribution

from entry period - year: 1 2003  
to entry period - year: 12 2003

Accounting   
Sales   
Purchasing   
Cost accounting   
Cost center LI   
Material docs.   
Production Orders   
Material master   
Proj. system   
Plant maintenance order   
Process orders

## Doc. distribution for FI documents

Program Edit Goto System Help

PBS DB Analyzer PLUS: Evaluation document splitting BKPF

Selections

Client: 100 to  
Company code: 1000 to  
Calendar year: 1996 to 1998  
Document type: to  
Document analysis run no.: 0001

Sort by

Client:  
Company code:  
Calendar year: 1  
Document type: 3  
Calendar period: 2

PBS DB Analyzer+: Distribution  
Run 0001: 01/1995 - 12/2002  
Doc. Size (Byte) 2.813  
BELEGVERTEILUNG 21.01.2002

JAHR	PERIOD	BLART	Number	Size (KB)	Size %
1998	11	AB	2	5	0,08
1998	11	DA	1	3	0,04
1998	11	DZ	59	162	2,30
1998	11	RN	1	3	0,04
1998	11	WA	2	5	0,08
1998	11	WE	3	8	0,12
1998	11	ZP	22	60	0,86
1998	11	**	90	247	3,51
1998	12	AB	2	5	0,08
1998	12	DA	1	3	0,04
1998	12	DZ	35	96	1,36
1998	12	RE	2	5	0,08
1998	12	WA	9	25	0,35
1998	12	WE	5	14	0,19
1998	12	ZP	52	143	2,03
1998	12	**	106	291	4,13
1998	**	**	964	2.648	37,58
****	**	**	2.565	7.046	100,00

## New:

- material documents,
- production orders,
- material master data,
- project system,
- maintenance orders,
- process orders

## Archivability check for FI documents

SAP

Program Edit Goto System Help

FI: Archiving Program for Documents

Archiving quantity selection

Company codes [ ] to [ ]

Document numbers [ ] to [ ]

Document type SA to [ ]

Fiscal year/period 1996 7 to 1996 7

Min.no.of days in the system 1

Key date 02.02.1999

Program control

Only incorrect docs in det log

ID4 (2) (100) s

### FI: Archiving Program for Documents

FI: Archiving Program for Documents 1

Detail log <<<Test run>>>

Posti	FisYr	Posting date	Document no.	Log text
1000	1996	31.07.1996	100006096	Document still has open items
1000	1996	31.07.1996	100006097	Document still has open items
1000	1996	31.07.1996	100006146	Document still has open items
2000	1996	31.07.1996	100000566	Document still has open items
2000	1996	31.07.1996	100000567	Document still has open items
2000	1996	31.07.1996	100000568	Document still has open items
2000	1996	31.07.1996	100000573	Document still has open items
2000	1996	31.07.1996	100000579	Document still has open items
2000	1996	31.07.1996	100000580	Document still has open items
2000	1996	31.07.1996	100000581	Document still has open items
2000	1996	31.07.1996	100000582	Document still has open items
2000	1996	31.07.1996	100000590	Document still has open items

FI: Archiving Program for Documents

Cc	Dt	Documnt.no.	Fiscal year
1000	SA	100006146	1996

Result analysis document item

LnC Description

156 Document has open



Information  
Lifecycle  
Management

Introduction – PBS Software GmbH

ILM and Data Archiving for SAP Solutions

Data Retrieval with PBS Software Solutions

Data Archiving Scenario – mySAP ERP (R/3)

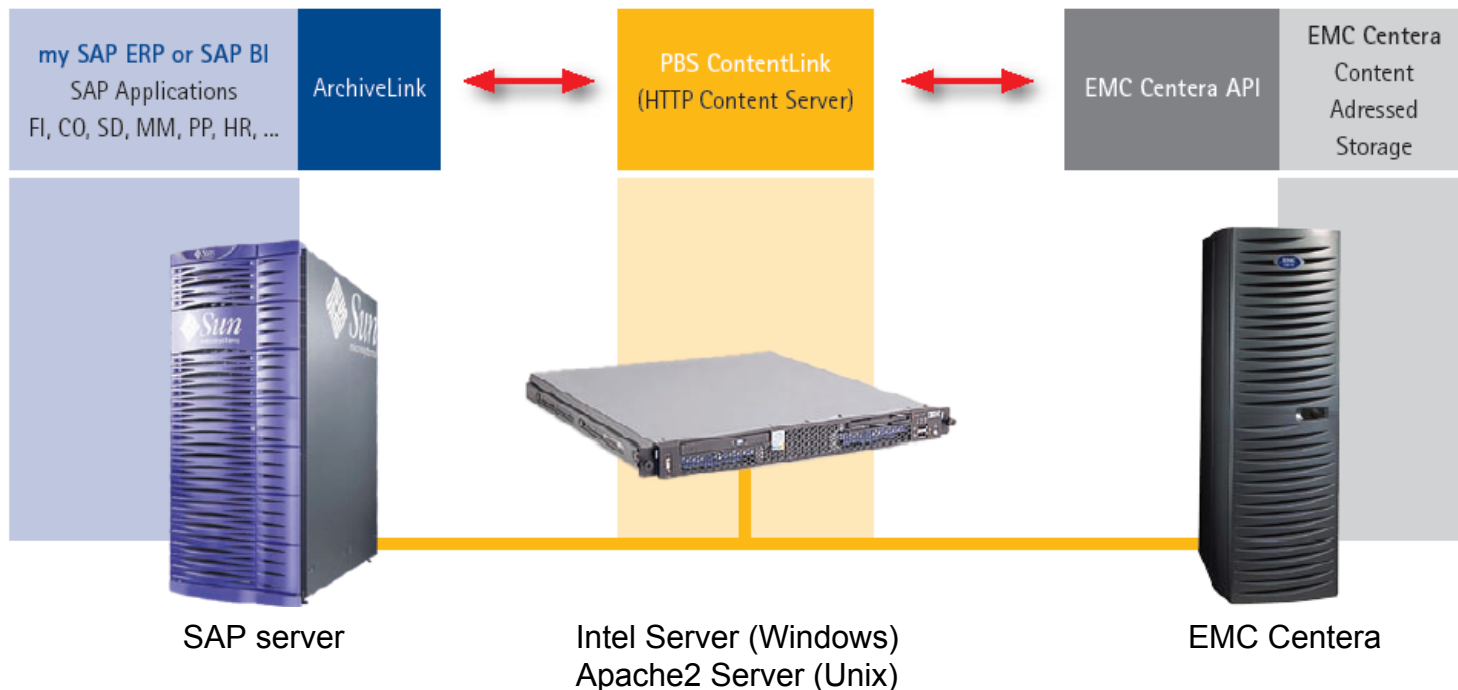
Data Archiving Scenario – SAP NetWeaver BI

PBS Data Extraction for Audit Purposes

PBS Analysis Tools for DA Projects

**Storage – PBS ContentLink for EMC Centera**

- ▶ PBS ContentLink is a WebServer based **INTERFACE solution** to link SAP systems and the compliant content-addressed-storage system **EMC Centera**.
- ▶ PBS ContentLink enables **write and read access** for all SAP ArchiveLink enabled data (ADK files, documents, print lists, DART files, PBS index files, etc.).
- ▶ ContentLink is a lean, fast and scalable software solution which is **optimized for SAP data archiving** goals.



Scanning  
Client

e.g.  
Kofax  
Captiva

...

## SAP NetWeaver BI

Business  
Information  
Warehouse

## mySAP ERP

FI, CO, MM, PP,  
SD, HR, ...

**New:**  
PBS Web  
Retrieval  
Service

## SAP Records Management

## SAP Data Archiving

ADK files  
XML files (DAS)

SAP ArchiveLink - WEBDAV

**PBS ContentLink**

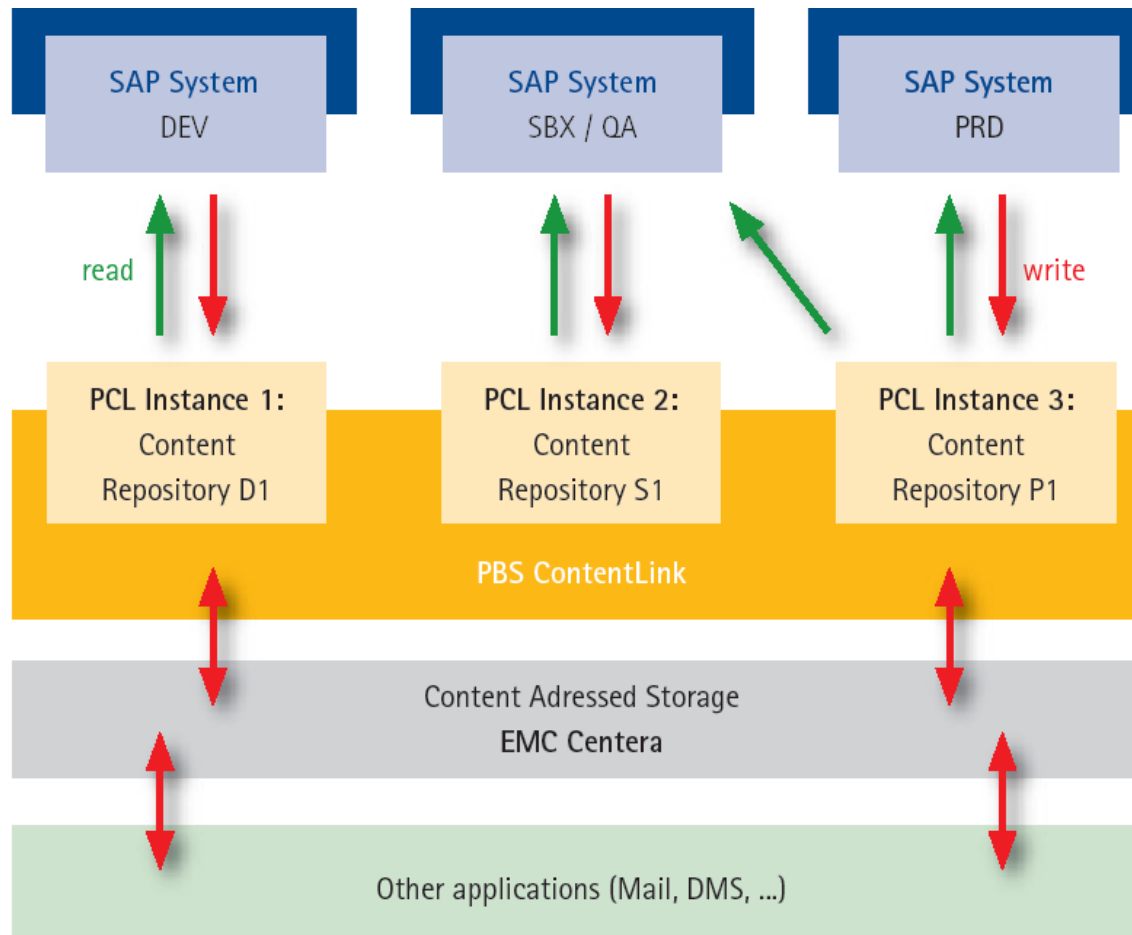
Storage system: EMC Centera

Support of all standard SAP ArchiveLink features  
– including SAP Records Management via SAP ArchiveLink  
Incoming and outgoing documents, print lists, DART files, ADK files, etc.



Storage device for PBS archive add ons via SAP ArchiveLink  
CFI, CMM, CCO, CSD, CPP, CCOPA, CPCA, CML, CPM, CWM, CISU,...  
PBS index files, PBS Extracts and CDART files

- High flexibility und scalability in accessing data **based on n:m relation** between an SAP R/3 system and the EMC Centera (green = read, red = write)



- Lean software architecture – **NO** database, minimum admin overhead
- Direct and fast connection via SAP ArchiveLink and Centera API
- Optimized for SAP data archiving with HDD caching
- Supports complete HTTP Content Server functionality
- Multiple Platforms supported (MS Windows, UNIX, Linux)
- High availability (Windows cluster, Vmware)
- Direct administration from the SAP system (SAP R/3, BW)
- Enables to connect multiple SAP systems
- Low hardware and software requirements, easy installation
- Supports EMC Centera's „compliance mode“



**BC-HCS 6.20  
HTTP Content  
Server Certification**



<b>Hardware</b>	PC Server Hardware (Pentium IV Class or better) SUN, HP, IBM Server Hardware (Unix) Main Storage: 512 MB minimum Disk Space: 4 GB minimum without File Cache Disk Space: 72 GB with activated File Cache
<b>System Software</b>	MS Windows Server 2003: MS Internet Information Server 6.0 MS Windows Server 2000: MS Internet Information Sever 5.0 AIX 5.3: IBM HTTP Server 6.0.2 (contains Apache 2.0.47) HP-UX11: Apache HTTP Server 2.0.52 Solaris 9+10: Apache HTTP Server 2.0.54 Linux (from): Suse 9.1, SLES 9, RHEL 4, Debian 3.1, Mandriva 9: Apache HTTP Server 2.0.54
<b>SAP Software</b>	All release levels from SAP R/3 4.5B to mySAP ERP2005. SAP basis release levels: All SAP ArchiveLink 0045
<b>Scan Software</b>	DICOM: Kofax Ascend Capture 7.0 EMC: Captiva Accel / KGS
<b>Centera Software</b>	All versions from 2.1 (currently 3.1)

## PCL - PBS ContentLink

Log-Level Clear Statistics Clear Cache

Content Repository:  Description:

Server Cache Statistics Storage Logging

PBS - ContentLink:

Server Type	<input type="text" value="PBS ContentLink"/>	Server Vendor ID	<input type="text" value="PBS Software GmbH"/>
Server Status	<input type="text" value="running"/>	Server Version	<input type="text" value="1.0"/>
Run Mode	<input type="text" value="1"/>	Server Build	<input type="text" value="52"/>
Server IP	<input type="text" value="193.155.200.41"/>	Server Port	<input type="text" value="6004"/>
Server Protocol	<input type="text" value="HTTP/1.0"/>	ArchiveLink Version	<input type="text" value="0045"/>
Server Startup Date	<input type="text" value="2006-01-05"/>	Server Startup Time	<input type="text" value="08:53:40"/>
Last Access Date	<input type="text" value="2006-01-16"/>	Last Access Time	<input type="text" value="13:50:01"/>
def. Doc. Protection	<input type="text" value="rcud"/>	SecKey Verification	<input type="text" value="Y"/>
Access Permission	<input type="text" value="rw"/>	Log Level	<input type="text" value="7"/>
Retention Period	<input type="text" value="0"/>	Retention Class	<input type="text"/>

Operating System:

OS Type	<input type="text" value="Windows"/>	OS Version	<input type="text" value="2000"/>
OS Build	<input type="text" value="2195"/>	OS Patch	<input type="text" value="Service Pack 4"/>
Server Date	<input type="text" value="2006-01-16"/>	Server Time	<input type="text" value="14:52:34"/>
HD Allocated	<input type="text" value="34663.7 MB"/>	HD Free Space	<input type="text" value="651.8 MB"/>

## PCL - PBS ContentLink

Log-Level Clear Statistics Clear Cache

PCL - PBS ContentLink

PCL: PBS ContentLink Cockpit 1

```
[ 2076] [20060109130923- 54781] DONE: GET info&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&access
[ 2076] [20060109130923- 114] MAIN: Response time [55.0 ms]
[ 2572] [20060109130923- 0] EXEC: GET get&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&accessM
[ 2572] [20060109130923- 8822] MAIN: Load data from storage
[ 2572] [20060109130923- 30585] DISC: read [14466 bytes] in [0.0 ms] from file to buffer
[ 2572] [20060109130923- 8769] DONE: GET get&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&accessM
[ 2572] [20060109130923- 69] MAIN: Response time [48.3 ms]
[ 2572] [20060109131709- 0] EXEC: GET info&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&access
[ 2572] [20060109131709- 9310] DONE: GET info&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&access
[ 2572] [20060109131709- 72] MAIN: Response time [9.5 ms]
[ 2076] [20060109131709- 0] EXEC: GET get&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&accessM
[ 2076] [20060109131709- 8802] MAIN: Load data from storage
[ 2076] [20060109131709- 2726] DISC: read [1048576 bytes] in [2.5 ms] from file to buffer
[ 2076] [20060109131709- 7975] DISC: read [161683 bytes] in [0.6 ms] from file to buffer
[ 2076] [20060109131709- 283993] DONE: GET get&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&accessM
[ 2076] [20060109131709- 70] MAIN: Response time [303.6 ms]
[ 2572] [20060109131753- 0] EXEC: GET info&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&access
[ 2572] [20060109131753- 9048] DONE: GET info&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&access
[ 2572] [20060109131753- 108] MAIN: Response time [9.2 ms]
[ 2076] [20060109131753- 0] EXEC: GET get&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&accessM
[ 2076] [20060109131753- 8913] MAIN: Load data from storage
[ 2076] [20060109131753- 2725] DISC: read [1048576 bytes] in [2.5 ms] from file to buffer
[ 2076] [20060109131753- 7993] DISC: read [161683 bytes] in [0.6 ms] from file to buffer
[ 2076] [20060109131753- 181728] DONE: GET get&pVersion=0045&contRep=D5&docId=43A000CBFE590C56E1000000C19BC81C&accessM
[ 2076] [20060109131753- 74] MAIN: Response time [201.5 ms]
[ 2572] [20060109131758- 0] EXEC: GET info&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&access
[ 2572] [20060109131758- 9529] DONE: GET info&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&access
[ 2572] [20060109131758- 112] MAIN: Response time [9.7 ms]
[ 2076] [20060109131759- 0] EXEC: GET get&pVersion=0045&contRep=D5&docId=438A8A02EF1C14C9E1000000C19BC81C&accessM
[ 2076] [20060109131759- 8784] MAIN: Load data from storage
[ 2076] [20060109131759- 297] DISC: read [14466 bytes] in [0.1 ms] from file to buffer
```

## ArchiveLink: Hit List for Stored Print Lists

CI	Report Name	Info	Agent	Storage date	Text
1	SAPLSPRR	099	GRIEBE	24.12.2005	Druckliste mit Keys und Indizes
100	SAPLSPRR	001	GRIEBE	16.12.2005	Druckliste mit indizes
100	SAPLSPRR	001	GRIEBE	16.12.2005	Druckliste mit indizes
100	/1BCDWB/DBTOADL	013	KRUEGER	09.12.2005	zzz
100	SAPLSPRR	001	GRIEBE	08.12.2005	Druckliste 1
100	SAPLSPRR	002	GRIEBE	08.12.2005	klassische Druckliste
100	SAPLSPRR	004	KRUEGER	06.12.2005	druckliste 5
100	SAPMSVMA	ele	ALADMIN	23.11.2001	20011123-1335
100	SAPMSVMA	ele	ALADMIN	25.09.2000	200000925-1519
100	OAFIND	ele	ALADMIN	30.09.1999	199909302014

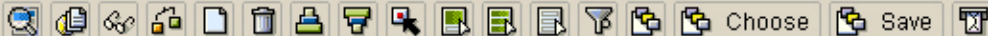
## Display of Stored Print Lists

BuKr	Belegnr	Art	Buch.dat.	Belegstatus	Referenz	Storn.mit	Wärg	
Koart	Konto	BS	(Person	Betrag in HW (FW)	KZ Steuerz Betrag (St	St BS	Hauptbuch Betrag Hauswährung	
1000	100000003	SA	03.01.2001	VN	000000792001VSTX	EUR		
					2,43-	40	470900	2,43
1000	100000004	SA	03.01.2001	VN	000000792001VSTX	EUR		
					2,26-	40	470900	2,26

List Edit Goto Settings System Help



## ArchiveLink: Hit List for Stored Documents

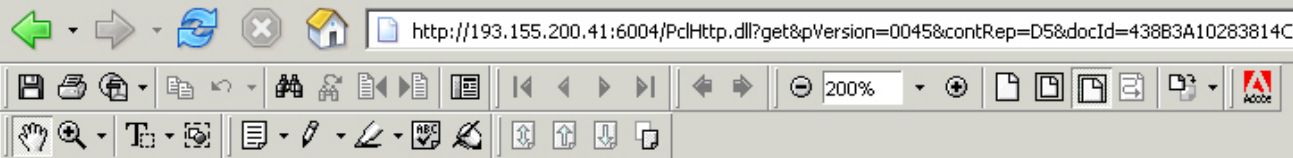

Choose Save

Object Type	SAP object ID	C...	Document ID	Doc. type
BKPF	300003000000291995	D5	438B3A0E283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000281995	D5	438B3A0C283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000291994	D5	438B3A0D283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000301994	D5	438B3A0F283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000301995	D5	438B3A10283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000311994	D5	438B3A11283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000311995	D5	438B3A12283814C9E1000000C19BC81C	ZPCLPDF_D
BKPF	300003000000311995	D5	438B3A12283814C9E1000000C19BC81C	ZPCLPDF_D

**PclHttp.dll (application/pdf Object) - Mozilla Firefox**

File Edit View Go Bookmarks Tools Help

<http://193.155.200.41:6004/PclHttp.dll?get&pVersion=0045&contRep=D5&docId=438B3A10283814C9E>



Piktogramme

Kommentare



**Display Standard Order 4972: Overview**

Standard Order 4972 Arch. \* Net value  
 Sold-to party 2200 HTG Komponente GmbH / Wernerstrasse 42 / D-  
 Ship-to party 2200 HTG Komponente GmbH / Wernerstrasse 42 / D-  
 PO Number DG-21011997-1 PO date 21.01.1997

Sales | Item overview | Item detail | Ordering party | Procurement

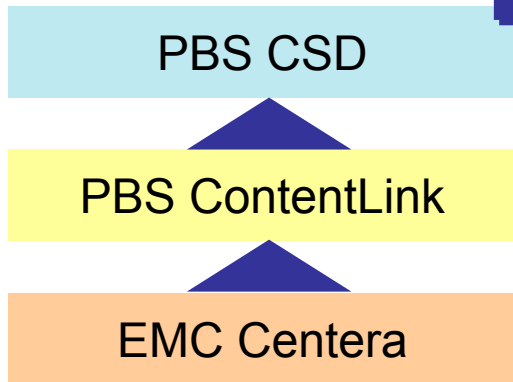
Req. deliv.date D 22.01.1997 Deliver.Plant  
 Complete dlv. Total Weight  
 Delivery block Volume  
 Billing block Pricing date 21.01.1997  
 Payment card Exp.date

**Document Flow**

Status overview | Display document

Standard Order 4972 Standard Item 10  
 Business partner 2200 HTG Komponente GmbH  
 Material M-01 Sunny Sunny 01

Doc.	Date	Qty/Value
Standard Order 4972 / 10	21.01.97	3,000
.. Delivery 80003375 / 10	24.01.97	3,000
.. Picking request 19970124	24.01.97	3,000
.. GD goods issue:delvly 49005877 / 1	28.01.97	3,000
.. Invoice 90005212 / 10	28.01.97	3,000
.. Accounting document 100005840	28.01.97	3,000



**Document Viewer Order Confirmation**

Save a Copy | Print | Email

Select Text | 74%

**Firma**  
 HTG Komponente GmbH  
 Wernerstrasse 42  
 30519 Hannover

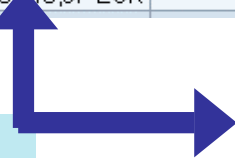
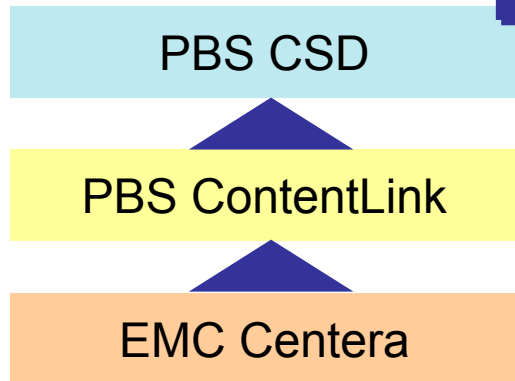
**Auftragsbestät**

Nummer/Datum  
 4972 /21.01.19  
 Referenznummer  
 DG-21011997-1  
 Liefertermin  
 Tag23.01.1997  
 Kundennummer  
 2200

## General Ledger Balances DB+Archive

G/L Account	Fiscal year	Total credit postgs	Total Debit Postings	
Land and similar rig	1000	K4/1994	511.291,88 EUR	3.180.235,50 EUR
		K4/1995	57.258.043,90 EUR	104.668.094,87 EUR
		K4/1996	1.175.971,33 EUR	7.311.473,90 EUR
		K4/1997	32.093.791,38 EUR	32.269.420,15 EUR
		K4/1998	5.368.564,75 EUR	5.368.564,75 EUR
		K4/1999	-9.100.775,10 EUR	
		K4/2000	0,00 EUR	
		K4/2001	0,00 EUR	
	K4/2002	0,00 EUR		
	<b>Result</b>	<b>87.306.888,14 EUR</b>	<b>152.797.116,97 EUR</b>	
ADP - real estate	1010	K4/1994	1.085.116,97 EUR	

	A	B	C	D
1	General Ledger Balances DB+Archive			
2				
3	<b>Fiscal year</b>			
4	<b>Fiscal Year Variant</b>			
5	<b>Chart of accounts</b>			
6	<b>Company code</b>			
7	<b>Key Figures</b>			
8	<b>G/L Account</b>			
9				
10	Chart of accounts	Chart of accounts - international		
11	Company code	IDES AG		
12				
13	<b>G/L Account</b>		<b>Fiscal year</b>	<b>Total credit postgs</b>
14	Land and similar rig	1000	K4/1994	511.291,88 EUR
15			K4/1995	57.258.043,90 EUR
16			K4/1996	1.175.971,33 EUR
17			K4/1997	32.093.791,38 EUR
18			K4/1998	5.368.564,75 EUR
19			K4/1999	-9.100.775,10 EUR
20			K4/2000	0,00 EUR
21			K4/2001	0,00 EUR
22			K4/2002	0,00 EUR
23			<b>Result</b>	<b>87.306.888,14 EUR</b>



PBS ContentLink Features	HTTP certified
Getting one document from the archive (Centera) per call	X
Getting several documents from the archive (Centera) per call	X
Getting data from a document section from the archive (Centera)	X
Storing one document per call into the archive (Centera)	X
Storing several documents into the archive (Centera) per call	X
Searching for a text pattern in an archived print list	X
Searching for one or several attributes in one archived print list	X
Changing an archived document	X
Deleting an archived document	X
Adding data to an archived document	X
Calling information about an archived document	X
Retrieving of analysis and statistic information	X
Review of IP addresses of the connected SAP systems	X
Support of coded call signatures	X

Additional features
Monitoring and administration from the SAP system (BW, R/3, ECC 5.0)
Supporting connections to several SAP systems
Desaster recovery option



**EMC Centera is a scalable and secure storage system for data which cannot be changed anymore (fixed content), using HDD.**



## Main features:

- Worldwide first CAS system (Content Addressed Storage): Access to stored objects by worldwide identical address, the addresses are calculated from the content, this avoids multiple storage of identical objects
- Easy installation
- Cost-effective maintenance, only costs for storage space, power supply and air-conditioning
- Reliable because of redundant hardware, automatic mirroring of all objects and permanent checking of data integrity
- Future-proof: the stored data is independent of used hardware
- Extension, upgrade, repair and replication without disturbing operation

Example-CA:

3D1HEAE3M41VD8O3E5NU91T12U

**Thank you very much  
for your attention!**

Dr. Klaus Zimmer  
Sales and Marketing Director  
PBS Alliance Management

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D-64625 Bensheim  
Germany

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**QUESTIONS ?**

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In case of questions/concerns or if functionality problems with **PBS archive add ons** occur, please contact the **PBS service hotline** which is staffed by **PBS specialists**.



## Hotline work hours:

Mo - Fr

08:00 - 18:00 MEZ



email: [hotline@pbs-software.com](mailto:hotline@pbs-software.com)

Internet : [www.pbs-software.com](http://www.pbs-software.com)

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