PBS archive add ons for SAP ERP

Add-on Solutions to Enhance SAP Data Archiving and ILM

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Agenda

- Introduction
- Information Lifecycle Management and SAP Data Archiving
- PBS archive add ons for SAP ERP – Demo and Architecture
- Additional Components and Utilities
- Summary
PBS Solutions Portfolio

ILM and Data Analysis for SAP ERP
- PBS archive add ons (30+ modules)
- Database Analyzer and various utilities
- PBS add-ons for SAP Industry Solutions

Nearline Analysis for ERP and BW
- CBW Nearline Storage Solution
- Nearline Analytic Infrastructure (NAI)
- Optional bundle with NLS databases

Compliant Archiving
- PBS ContentLink for fixed-content storage
- PBS ContentLink for cloud storage

Decommissioning and Audits
- Enterprise Content Store (ECS)
- PBS archive add on CDART
- Data Export Interface
PBS archive add ons for SAP ERP

- Standardized software solutions for SAP ERP
- Archived data display 1:1 to SAP database data
- Simultaneous display of database and archive
- Effective navigation in document chains (doc flow)
- Available for major SAP modules (30 add-ons)
- SAP certified, currently SAP ERP 6.0
- BIG DATA processing option
ILM – Information Lifecycle Management

ILM

Information Lifecycle Management comprises the policies, processes, practices and tools used to align the business value of information with the most appropriate and cost-effective IT infrastructure from the time information is conceived through its final disposition.

➢ ILM Definition from SNIA (Information Technology and Information Storage Industries)
Goals and potential savings with data archiving:

- Reduce the SAP database size and **control** data growth
- Improve performance – shorten response times
- Simplify daily administration (back-up and DR)
- Enable compliant data management (audits)
- Reduce hardware and administration costs ➔ lower TCO!
Data Archiving Challenges

Challenges for the SAP data archiving:

- Comfortable and complete data access  ➢ Display and evaluation features
- Transparent and easy navigation  ➢ Nested documents and document flow
- Data extraction for internal/external audits  ➢ Legal requirements, system decommissioning
- High usability with little training efforts
SAP ADK (Archive Development Kit)

Create | Archive | Store

Database | Archive Data | Archive Data
Local Storage | External Storage

1. Archive

SAP Database

2. Delete

ADK Delete Program

ADK Archiving Program

Storage

ADK File

SAP Archive Files

Destroy
### PBS archive add ons and Utilities for SAP ERP

<table>
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<th>Code</th>
<th>Description</th>
<th>Code</th>
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<td>CMT</td>
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<td>Purchasing documents</td>
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**Database Analyzer Plus**
- Analysis for database capacity and data distribution

**SE16/SA38_PERSONAL**
- Personalized data access to SAP tables and reporting

**ADR – Archive Data Review**
- Find and deactivate archive data duplicates

**CONEX FLEX**
- Flexible data extraction from database and archive
Access to the PBS Functionality

Access to the PBS archive add on CFI via roles in the user menu.

PBS version of transaction FBL1N „Display line items“

Additional tools which are delivered together with the PBS archive add ons
Display Vendor Line Items

Selection screen /PBS/FBL1N

PBS-specific parameter to choose the data source
Display Vendor Line Items

**Vendor Line Item Display**

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**Results List**

- Database data
- Archive data via PBS index
- Totals from archive and database
Navigation from the Line Items

- Further assignments
- Object links

Drill-down with double-click
SAP ADK (Archive Development Kit)

- SAP application data is archived consistently with **Archiving Objects** (= program packages) into flat files.
- SAP archive files (ADK) are highly compressed (= encrypted) files.

[SAP ADK diagram showing the process of archiving and deletion]

1. **Archive**
   - SAP Database
   - ADK Archiving Program
   - Storage

2. **Delete**
   - ADK Delete Program
   - ADK File
   - SAP Archive Files
Architecture: PBS Index Generation

- **PBS Indexing**
  - Read archive files
  - PBS index from previous runs

- **PBS Index and SAP Archive Files**
  - PBS Index
  - ADK

- **Online access with PBS transactions and reports**

PBS archive add ons for SAP ERP
Integrate External Storage

Create

Database

Archive

Archive Data
Local Storage

Store

Archive Data
External Storage

Destroy

Create SAP Database

Archive PBS Index

Store SAP ArchiveLink

Storage ADK

ADK
Further PBS Features

PBS archive add ons provide a bundle of additional components for different tasks in the data archiving environment:

- Long-term archiving concept
- Archive access for custom programs
- Data extraction for audit purposes
Long-term Archiving Concept (i)

Enable index and archive data access for long time periods – split PBS index files

SAP Database

Online access to archive and database

Split archive index file e.g. by archiving year

Vendor Line Item Display

Split archive index file e.g. by archiving year
Long-term Archiving Concept (ii)

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

- **SAP Database**
  - Main Index 2013
  - Long-term 2012
  - Long-term 2011
  - Long-term 2010

- **Online access to archive and database**

- **PBS main index (merge process)**

- **Active long-term index**

- **Inaktive long-term index**

- **Vendor Line Item Display**
  - Company code: C.E.B. BERLIN
  - Line items with details like vendor, date, currency, and amount.
Archive Data Access for Custom Programs

PBS provides different options to adapt own (custom) programs and reports to archive data access via PBS features and index structures:

1. **Data access via logical databases (LDBA)**
   - Change LDBA in the report’s attributes, for example „BRF“ => /PBS/BRF

2. **Report conversion with PBS Conversion Tool**
   - Enhance SQL commands with PBS archive access

3. **Individual adaption: PBS Archive Access Tutorial**
   - Nested or complex programs: individual development work
Conversion Tool

API to enhance (standard) custom programs with PBS archive access:

Custom ABAP

ZZEXAMPLE

> PBS Conversion Tool

Enhancing SQL commands with PBS archive access

Archive-enabled

ZZEXAMPLE_PBS

> SAP Database

Enhancing custom programs with PBS function module call

/PBS/SELECT_INTO_TABLE

SAP Database

PBS Index

Archive Files
Nearline Storage for ERP – Big Data Solution

The **PBS Nearline Analytic Infrastructure – NAI** – allows the usage of column-oriented database technology for **SAP ERP**. For all NAI-enabled PBS archive add ons, the archive index information will be stored and maintained in nearline storage (SAP/Sybase IQ oder Actian Vectorwise):

- Simplified, capacity improved index structures
- Fast indexing of vast archive data amounts
- Significantly faster (index) access
- Very large data compression (≥ 90%)
- Identical frontend for all PBS archive add ons
Data Extraction for Audit Purposes

PBS provides several options for the extraction of application data from SAP environments (typical audit needs). In addition to PBS archive add on specific extraction programs, there are utilities such as the **PBS Data Export Interface** (contained in the PBS CFI delivery):

The **PBS Data Export Interface** enables extraction of SAP application data into external files (AIS format). Archive and database data can be processed.
Local Language Adaption

**PBS Translation Tool:** customize user frontend for local language: copy standard SAP text elements automatically into corresponding PBS transactions and programs. Very few PBS specific terms need to be treated manually.
Summary

- Transparent and user-friendly software solution to enhance SAP data archiving.
- Direct end user access to archived data via PBS index.
- Integrated display transactions: Simultaneous access to database and archive.
- Effective navigation options to subsequent information (document flow).
- Advanced data extraction options for audit needs.
- Available and SAP certified for all SAP ERP (R/3) release levels.
- Enhancement option for Big Data (NAI – Nearline Analytic Infrastructure).
Further information:
www.pbs-software.com/erp
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