

Tame the Data Demon

Archiving and nearline storage for big data
Integration of mass data into SAP

Improve Data Retrieval

Accelerate reporting and data access
Improve query performance

Reduce SAP Database Costs

Shrink the data footprint
Control future data growth rate

Simplify Extracts for Audits

Extracts from online and archive
SAP independent processing, filtering, analysis

Ensure Compliant Data Storage

Lean Middleware for Fixed Content Storage
Support On Premise and Cloud Storage

Build a Bridge to SAP HANA

Faster Data Migration to Suite/BW on HANA
Archiving and NLS for HANA-based Systems

Tame The **Data Demon**

PBS add-on Solutions Optimize Long-term SAP Operation



www.pbs-software.com



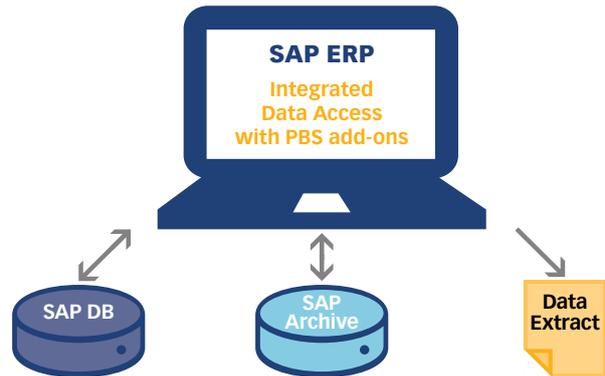
PBS add-on Solutions for SAP ERP

Running an SAP environment effectively and meeting users' business requirements presents numerous challenges, whether it is Big Data, migration to SAP HANA, legal compliance or data access performance. With its one-of-a-kind software solutions, PBS can help companies to improve operation of their SAP system resources and address system bottlenecks.

PBS provides a wide selection of add-on solutions to enhance SAP data archiving, information lifecycle management (ILM), nearline storage (NLS) and compliant data storage. Additionally, PBS provides solutions to cover legal requirements, audits and SAP system decommissioning.

PBS has been an SAP software solutions partner since 1991 and PBS software solutions are SAP-certified.

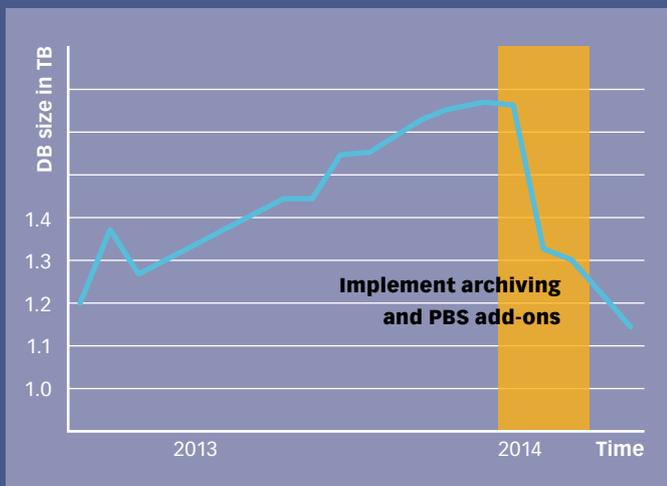
Optimizing SAP systems and cutting operational costs requires active data volume management to address the overall amount of data in these systems and control future data growth. A sound ILM strategy helps reduce the data footprint by regularly moving application data from the SAP database to archive files, which bears a huge savings potential!



However, users need to have complete and transparent data access for various display and evaluation purposes. Additionally, legal regulations and audit requirements require seamless data retrieval and extract options.

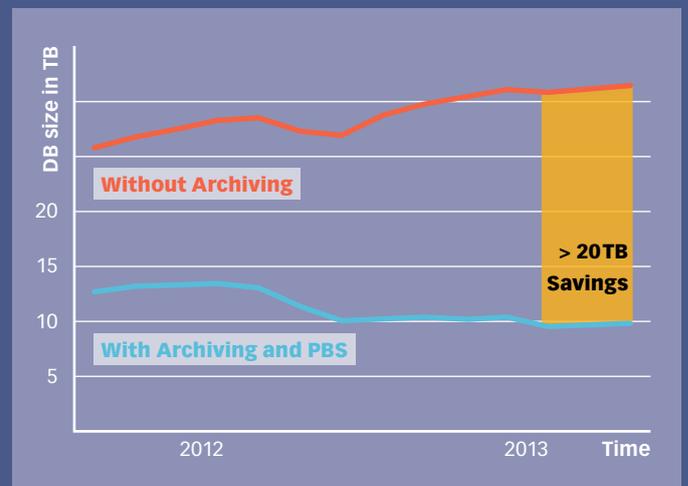
Customer Success

Hundreds of customers worldwide have been benefitting from PBS archive add ons since more than 20 years. From SME to global brand.



Database improvement with archiving and PBS

Mid size company: 12 PBS add-ons installed with SAP data archiving implementation. 500 GB saved in 3 months. Data compliantly stored via PBS ContentLink.



Database size with and without archiving

Large global brand: Use archiving and PBS add-ons over many years. 22 TB saved compared to not archiving. 15 PBS archive add ons used. Compliant storage via PBS ContentLink.

PBS add-on solutions for SAP ERP enhance standard SAP archiving features and provide the required access to archived SAP data so it appears as if the data were still in the initial database: With archive-enabled display transactions and reports, PBS archive add ons enable seamless retrieval access – simultaneously from the SAP online database as well as from archive files. Due to the excellent integration between PBS add-ons and SAP systems, users work with display screens that are similar to the screens they are familiar with, using all the same capabilities to navigate within the document flow, regardless of whether the records have already been archived or still reside in the database. Additionally, PBS add-on modules contain dedicated features to enable transparent data extraction for audits or legal requirements.

Such integrated data access helps SAP customers run data archiving much more aggressively, so they can continue to benefit from system improvements and cost reductions.

PBS archive add ons are available for major SAP modules, covering more than 75 SAP archiving objects and hundreds of archive-enabled display transactions and reports. Based on a modular concept, customers can choose to implement only the PBS archive add ons that fit their archiving strategy and will deliver the greatest savings potential.

PBS add-on Highlights

- Enhance standard SAP data archiving features with seamless data access
- Retrieve data simultaneously from SAP database and archive files
- Navigate within business chains and document flow easily
- Extract data for audits and legal requirements
- Rapid adoption with user-friendly, familiar screens so users do not need any training
- 100% software solution, coded in ABAP
- Easy to implement and configure
- Modular solution, covering all major SAP modules
- SAP Certified

Over a thousand customers already benefit from PBS archive add ons from SAP R/3 up to the latest SAP ERP releases, SoH (SAP Business Suite on HANA). For a complete overview on the available modules and release levels, see www.pbs-software.com.

Big Data: Nearline Analytic Infrastructure for SAP ERP

For organizations that have vast amounts of data and need the best possible retrieval performance, the classic archiving approach using the SAP Archive Development KIT (ADK) is no longer sufficient.

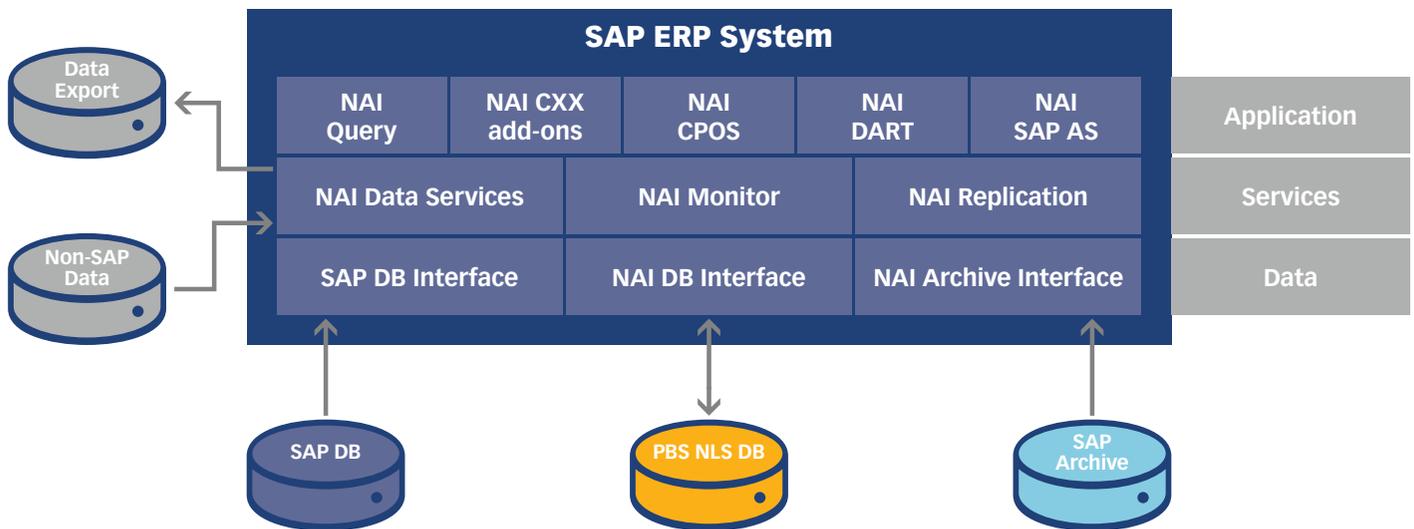
PBS provides a huge improvement with its revolutionary Nearline Analytic Infrastructure (NAI), a unique nearline storage solution for SAP ERP. Using column-oriented database technology, PBS NAI boosts archive index creation and retrieval access speed. NAI is the ideal accelerator for SAP archive data retrieval needs, including a corresponding enhancement of the SAP Archive Information System, (SAP AS).

NAI Highlights

- Nearline storage solution for SAP ERP, SAP Industry Solutions, and more
- Enhances PBS archive add ons and SAP AS for processing big data
- Huge compression and extremely fast data access
- Replication and flexible query options for fast data analysis needs
- Modular concept

With its state-of-the-art column-oriented databases as nearline storage, NAI provides much more. It accelerates analysis features for SAP ERP and provides a bridge to SAP HANA. NAI enables the integration of SAP application data, archive data, and legacy data sources for variable and high performance analysis purposes –

not only for SAP ERP, but also for SAP Industry Solutions, SAP CRM and others. With data compression rates exceeding 90%, NAI can easily deal with Big Data and still provide fastest possible response time for every analysis need.



Nearline Storage for SAP BW and BW on HANA

The fast growing data in SAP BW bears huge challenges, especially if you plan to migrate or have already migrated to SAP BW on HANA. The PBS CBW nearline storage solution for SAP BW enables SAP customers to maintain fast growing BW data effectively and within the budget. Based on the SAP NLS interface, CBW provides transparent query access to InfoCubes, DSO, and even PSA. It uses column-

oriented database technology for nearline storage, so CBW delivers huge data compression and extremely fast query performance. It is also fully compatible with SAP's nearline storage approach, which makes it ideal to support and simplify your SAP BW migration to BW on HANA, as proven by PBS's countless global and small and medium enterprise customers. PBS CBW NLS is SAP Certified.

CBW Customer Success

- **70% reduced BW data footprint** → postpone costly BWA enhancement (German energy provider)
- **64% reduced BW data footprint** → Reduce monthly admin efforts by **factor 3** (Large retailer)
- **Speed queries 4 times and more** (Beer brewery)
- **Reduce annual BW HANA growth 3 times** → significant TCO reduction (US energy provider)
- **Support effective migration to SAP BW HANA** → reduce data footprint (Several global customers)

CBW Highlights

- Nearline storage solution for SAP BW and BW on HANA
- Provides huge data compression, exceeding 80%
- Very fast data access
- Compliments the SAP NLS solution
- Dedicated NLS interface enhancement provides better performance
- SAP Certified

Lean and Compliant Archive Store

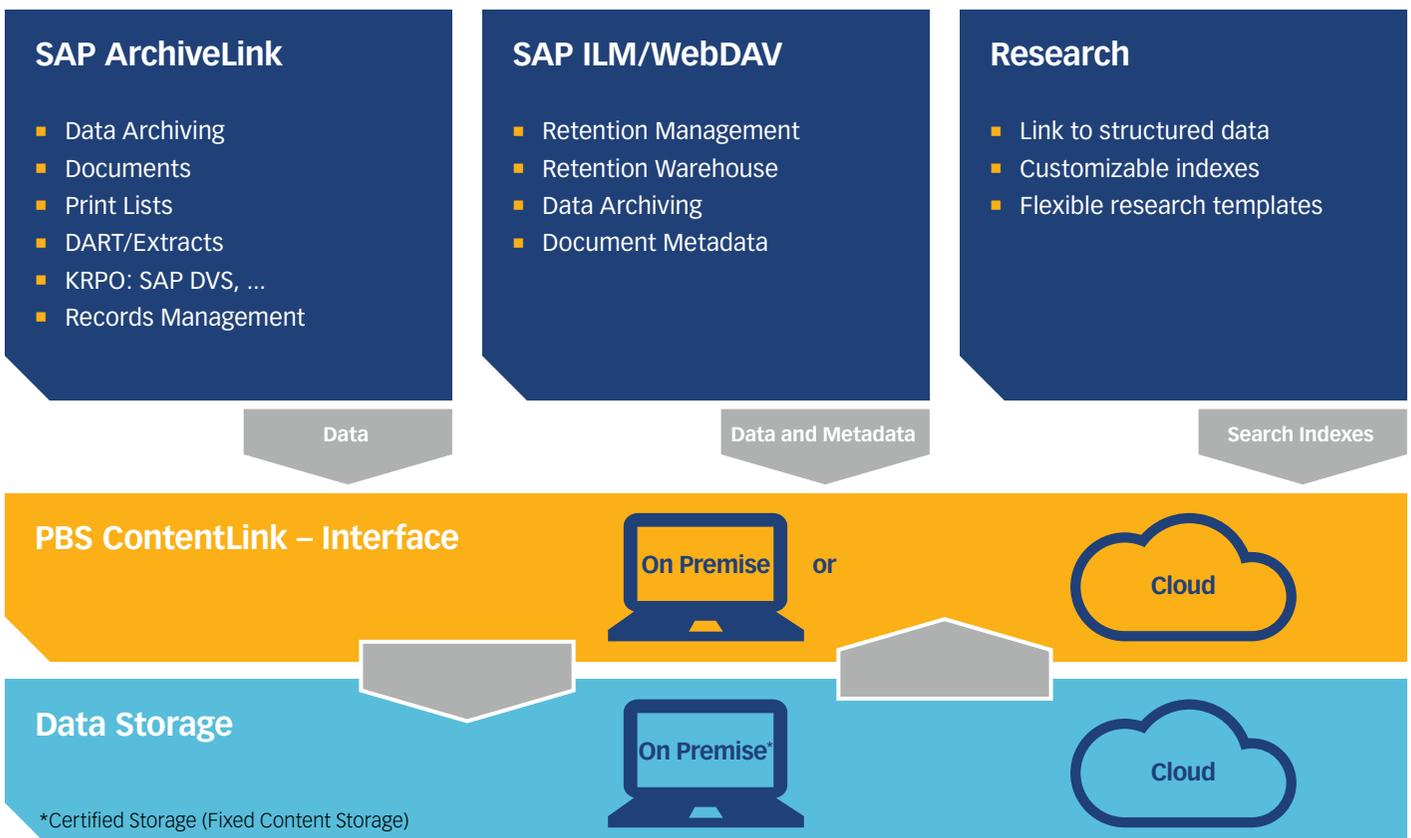
SAP archive files, documents, print lists and others need a lean, compliant and competitive storage option. PBS ContentLink (PCL) focuses explicitly on these archiving requirements: PCL is a very lean and – at the same time – highly efficient interface solution to connect SAP systems and state-of-the-art compliant storage repositories. It supports the well-established SAP ArchiveLink interface as well as the SAP-specific WebDAV 3.0 protocol. During storage, the data is enriched with meta-data which can also include retention time and storage period details. This makes PCL ideal for supporting SAP ILM Retention Manager and Retention Warehouse. PCL also fulfills all requirements of an “SAP ILM-aware storage” solution.

PCL runs without any database, and thus requires very little administration. A dedicated caching option improves the access performance for SAP archive files (ADK). In addition to file and data storage, PCL includes an effective research option that supports dedicated analysis and file/data search. PCL supports all major fixed content storage platforms and is SAP certified. Hundreds of customers worldwide benefit from its economical and effective features.

The latest PCL release now supports cloud storage: You can run storage, and optionally the PCL server as well, in the cloud. All leading cloud service providers are supported.

ContentLink Highlights

- Lean and cost-effective interface solution that links SAP systems with fixed content storage
- No database = no backup need
- Supports SAP ArchiveLink and WebDAV 3.0 protocols
- Easy administration through the SAP front end
- Extremely scalable
- Supports third-party scan systems
- Available on premise or in the cloud
- SAP Certified



Data Extraction, Audits and SAP System Decommissioning

In many countries increasing legal regulations make it challenging for SAP customers to meet audit requirements: In addition to transparent data access, users have to extract tax relevant data from the SAP database and archive. Information then has to be forwarded to tax authorities in a transparent format. PBS addresses this need with embedded features such as the Data Export Interface (DEI) in PBS solutions. PBS also has several dedicated data

extraction and audit solutions: PBS CDART to enhance SAP DART extracts to archive files; CONEX_FLEX for flexible and transparent table based data extraction; and Enterprise Content Store (ECS), a powerful solution for all audit related topics and extraction needs for SAP system decommissioning. ECS helps organizations continue to process data independently of SAP, even if the data has been extracted from an SAP ERP system that is to be retired.

About PBS Software GmbH

PBS is a leading provider of add-on solutions to improve your SAP environment in the areas of ILM, data archiving, nearline storage as well as data extraction and system decommissioning. PBS has been known to be an expert on complex, integrated data accesses for more than 20 years and is classified as SAP Software Solutions Partner.

PBS provides users seamless and fast access to rarely used or archived data in addition and simultaneously with „hot“ data. To cover “big data” and enhance analyses by high performance retrieval, PBS provides dedicated nearline storage solutions for SAP BW, SAP ERP and others using column-based database technology from Actian, IBM and SAP.

For a complete overview on the PBS solutions portfolio please click our website.



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