



Smart Adaptable Proven™

Reducing Costs and Optimizing Performance: Data Archiving for SAP NetWeaver BW

Nearline Storage for Efficient Information Lifecycle Management

The Challenge

BW is growing exponentially and associated costs are pushing budgets to the limit.

Leveraging SAP NetWeaver Business Warehouse (BW) gives you competitive advantages in business intelligence and insight. But the more data that goes in, and the more queries being made, the more data there is to manage. It won't be long before query responses slow, database administration is overwhelmed and costs begin to rise – if they haven't already.

The key to strategic data management for the SAP NetWeaver BW solution is determining how to improve performance while controlling costs with minimal impact to your infrastructure and overhead. Applying Information Lifecycle Management, or ILM, principles allow you to establish a lifecycle for your data in BW just as you do in ERP – lowering costs and improving online performance.

The Dolphin Solution

The answer may be Nearline Storage (NLS)

Dolphin implements PBS CBW Nearline Storage (NLS) solutions for SAP NetWeaver BW to deliver optimized performance, resulting in immediate cost savings from high performance data compression and storage technology.

The PBS BW architecture with NLS, a certified SAP solution, delivers exceptionally high performance and robust data compression. Solution options are for BW 3.X, 7.X NLS ADK and 7.X NLS with column-based database. The column-based database, unlike relational databases, compresses data into relevant columns where each variable, or field, is stored sequentially. (See all option descriptions next page.)

The search that might require 500,000 I/O operations in a relational database might require less than half that in a columnar database. Moreover, this database engine, optimized for analytics, requires little to no indexing, reducing administrative costs.

Compression of 95% or more instantly reduces strain on the online database, making it easier to manage short- and long-term database growth. The cost savings by not having to add expensive blade storage is significant, adding up to a quick ROI and considerably lower total cost of ownership.

Case Study: Nearline Storage with Columnar DB for SAP BW

Customer: International Consumer Products Company

The Test:

Queries into a multi-provider data set with about 17M records and 2M customer master records.

Compared Dolphin PBS CBW NLS Column-based solution with an Online DB with Aggregates and SAP BW Accelerator, and the same system without Aggregates.

Results:

Solution	Speed
NLS with Columnar Database	16 Secs
Online DB with SAP BW Accelerator and Aggregates	71 Secs
Online DB w/o Aggregates	416 Secs

For more on this case study and PBS solutions for SAP BW, download Dolphin's whitepaper "Accelerating Performance with Nearline Storage for SAP NetWeaver BW" at www.dolphin-corp.com

The Dolphin Advantage

Dolphin ILM projects for SAP NetWeaver BW deliver scoping, design and implementation excellence by building the right strategy around archiving for your BW environment to strategically manage performance, costs and long-term growth with little impact to your IT landscape.

The Dolphin solution benefits are clear and measurable:

- **Significant reduction in data volume and growth in online BW database** – the NLS solution removes eligible data from the online SAP BW database and compresses it by 95% or more, reducing storage costs and maintaining performance.
- **Great query response for all data without administrative overhead** (no aggregates necessary) – this saves significant time from database administration and reduces overhead costs.
- **Smaller BW Accelerator footprint needed due to lower online data volume** – Less data held online lets you get the most benefit out of your investment in Accelerators.
- **Easier backup and disaster recovery** – Significant compression in the nearline database means less data to backup and restore.
- **Improve performance/cost ratio and lower Total Cost of Ownership** – using the right storage for the right data saves costs in the short term and over the long haul.

Dolphin Integrates PBS BW Nearline Storage solutions

Standard PBS tools work within the SAP solution to streamline data and document retrieval and access. PBS tools for SAP BW databases include:

- **BW Database Analyzer**, providing capacity analysis of InfoProviders and PSA tables for BW 3.x and 7.x.
- **PBS Archive Add On CBW**, provides nearline storage integration for SAP BW 3.x.
- **CBW NLS ADK**, provides a nearline data archiving solution for SAP NetWeaver 2004s for PSA, InfoCube, and ODS data.
- **CBW NLS IQ**, allows nearline data archiving with an advanced columnar analytics engine. Its column-based database provides faster access, is more space efficient, and lowers maintenance costs.

Dolphin has successfully implemented data and document archiving across all SAP platforms from multiple industries. The Dolphin team has extensive archiving experience with all SAP BW releases. With PBS archive solutions, Dolphin provides complete services, including SAP data analysis, PBS archive POC installation, implementation and ongoing support.

About Dolphin

Dolphin makes crucial business operations like data management, data archiving, accounts payable, accounts receivable and order management run better and smarter for organizations using SAP solutions. Focused on improving business performance through Information Lifecycle Management and Business Process Management, Dolphin produces the right solution for each customer, faster, through its unmatched experience in SAP technologies and its proven best practices, tools and SAP add-on applications. Dolphin solutions improve business and IT performance, lower total cost of ownership and deliver high return on investment.

The company was founded in 1995 and has offices in Philadelphia, PA and San Jose, CA. Dolphin solutions are implemented across North America and around the world.

Visit Dolphin online at www.dolphin-corp.com to learn more!

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