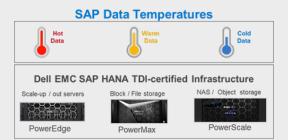
Dell EMC Solutions for SAP HANA Data Tiering

Reduce TCO for SAP and SAP HANA native applications; increase capacity and data volume management

Optimize SAP with native application data management and placement

- Lower TCO and SAP licensing costs by reducing the amount of data in expensive DRAM.
- Apply SAP data archiving to reduce the size of the SAP ERP database prior to SAP S/4HANA migration.
- Set an IT foundation ready to support your SAP data temperatures (hot, warm, cold) and data placement strategy.



Dell EMC broad solutions portfolio

Run SAP from edge to core to cloud.

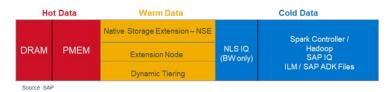
- Platforms for consolidating and simplifying IT running SAP landscapes.
- Comprehensive data and infrastructure services for "always-on" mission-critical SAP.
- Integration with SAP LaMa for managing physical and virtual landscapes.
- Backup and restore directly from SAP HANA Studio using Dell EMC PowerProtect DD Series Appliances.

Today's Situation

As organizations scale the adoption of the SAP HANA database for "data driven" enterprise applications, IT must have a strategy for managing TCO and SAP HANA licensing costs. By reducing the amount of data that must be maintained in expensive DRAM, IT can safeguard maximum data value at the minimum cost.

With the introduction of SAP HANA data tiering, SAP gives IT a framework for managing data placement based on the data value and SLA over time.

SAP Data Tiering Options



Hot Store is used to store mission-critical data for real-time processing and real-time analytics. Persistent memory (PMEM) extends the in-memory storage capacity for hot data in SAP HANA.

Warm Store is for less critical data with reduced performance and SLAs that can be stored on lower cost storage but still managed as part of the SAP HANA database.

Cold Store tiering provides persistence capabilities for HANA cold data in external data stores, like HDFS, Azure Data Lake and SAP Big Data Services.

Which Data Tier Should You Use?

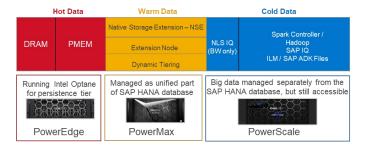
The answer: it depends. A data tiering strategy needs to be aligned with your SAP HANA deployment – the data processing tier, cost and performance characteristics must be suited to the application profile.

Native BW on HANA Suite on HANA HANA BW/4HANA S/4HANA

(This <u>SAP blog</u> provides a good introduction to recommended data tiering approaches for SAP and native applications.)

Dell EMC Solutions for SAP Data Tiering

As illustrated below, with Dell EMC solutions for SAP Data Tiering, IT can deploy an SAP HANA TDI certified infrastructure foundation ready to support a "holistic" data management model for SAP HANA landscapes.



Dell EMC for SAP Native Storage Extension (NSE)

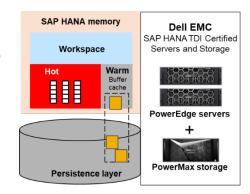
SAP has introduced several ways to manage the warm store but positions the **Native Storage Extension (NSE)** released with SAP HANA 2.0 SPS 04 as the option IT should consider first.

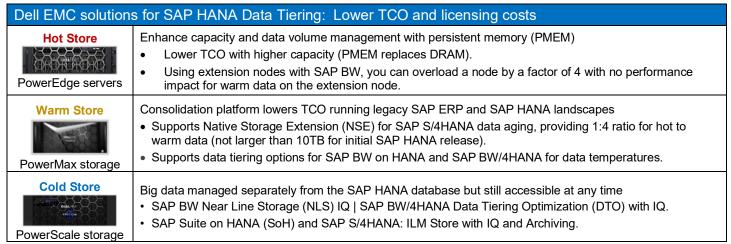
Benefits include:

- Increase SAP HANA data capacity at low TCO.
- Add warm storage data, up to 1:4 ratio of SAP HANA hot data in-memory to warm data on disk. NSE disk store ≤ 10TB, for initial SAP HANA release.
- Deeply integrated warm data tier, with full SAP HANA functionality.
- Will support all SAP HANA data types and data models.
- Complements, without replacing, other warm data tiering solutions.

Use cases for initial SAP NSE release include:

- Growing data volumes from customer- or SAP-built HANA applications.
- SAP S/4HANA data aging (NSE is an evolution of "paged attributes").







<u>Learn More</u> about Dell Technologies SAP solutions



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