



DataStore Objects in SAP NetWeaver BW on SAP HANA

Moving Forward

SAP NetWeaver BW 7.30 SP10

(SAP NetWeaver BW 7.30 SP8/9 with note)

See also [SCN](#)

SAP HANA-optimized DataStore Objects

Benefits for customers



- With SAP NetWeaver BW 7.30 Support Package 10, a conversion from Standard DSOs to SAP HANA optimized DSOs is no longer required.
- The HANA-optimized activation is supported for all Standard-DataStore Objects by default.
- The benefits for customers will be fast activation for all Standard-DSOs independent of the used modeling approach (BW 3.x or BW 7.x dataflow*).
- In addition the effort for migration to SAP NetWeaver 7.30 BW on SAP HANA is reduced significantly.

* We still recommend to our customers to move to SAP NetWeaver BW 7.x data flows in order to leverage the additional flexibility

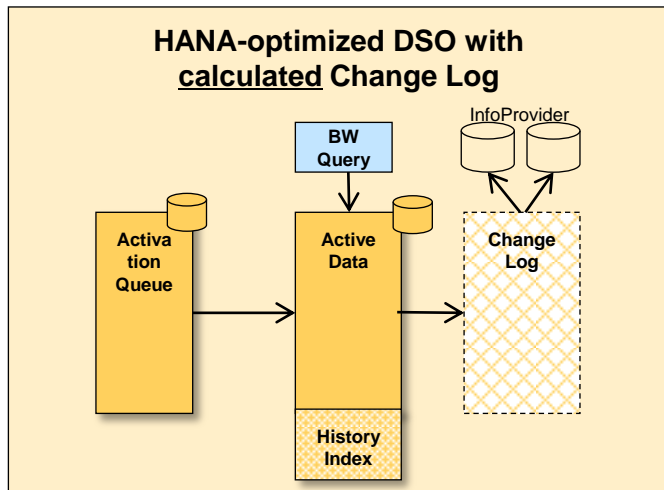
Availability with SAP NetWeaver BW 7.30/7.31

Optimized DSO Activation	SAP NetWeaver BW 7.30	SAP NetWeaver BW 7.31
As part of standard delivery	7.30 SP 10	7.31 SP 9
Apply note <u>1849497</u>	7.30 SP 8, 9	7.31 SP 7, 8

In the following slides only the SAP NetWeaver BW 7.30 Support Package levels are mentioned, but the information is also valid for SAP NetWeaver BW 7.31 Support Package levels

SAP HANA-optimized DataStore Objects

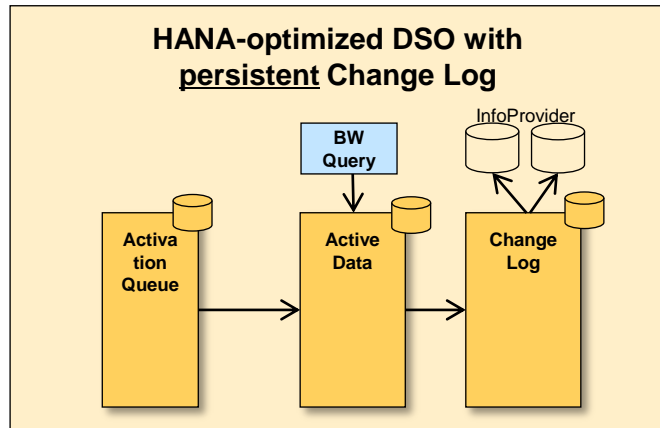
Architecture of SAP NetWeaver BW 7.30 SP5-SP9



- Change Log information using SAP HANA calculation view, no persistency
- Access to the Change Log requires some additional memory for calculation
- Active data table as SAP HANA temporal table with history index
- Excellent query performance
- SAP HANA based high performance data activation and SID creation
- Conversion to SAP HANA-optimized DSOs after system migration is required

SAP HANA-optimized DataStore Objects - with persistent Change Log

Architecture planned for SAP NetWeaver BW 7.30 SP10



- Keep persistent Change Log as database table – no history index is used
- No conversion required after upgrade
- Excellent query performance
- SAP HANA based high performance data activation and SID creation
- Performance advantages for propagation into multiple InfoProviders and less resource/memory consumption due to persistent Change Log
- Supports BW 3.x DataFlows and Real-Time Data Acquisition based on Real-Time DataSources
- In comparison to Change Logs based on SAP HANA calculation view, persistent Change Logs support “Non-active” data concept - no additional memory requirements for history data

SAP HANA-optimized DataStore Objects - with persistent Change Log Recommendations

Customers running SAP NetWeaver BW 7.30 on HANA - before SP8

- SAP HANA-optimized DataStore objects with calculation view further supported
- Recommendation: In order to save migration efforts from Standard DSOs to HANA-optimized DSOs, convert DSOs only for selected scenarios (see also <http://www.saphana.com/docs/DOC-3129>)

Customers running SAP NetWeaver BW 7.30 on HANA - SP8 or higher

- With SP10 all Standard-DataStore objects are HANA-optimized with persistent Change log by default
- Customers with SP8 and SP9 have to apply note [1849497](#) and SAP HANA minimum SP5 and a revision 57 to get to the SP10 default behavior
- Existing HANA-optimized DSOs with Change Logs based on calculation view are still supported. New ones cannot be created.
- A conversion from Standard DSOs to HANA-optimized DSOs is no longer required
- Recommendation: Reconvert HANA-optimized DSOs with calculation view into HANA-optimized DSOs with persisted Change Log



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