



Embedded SAP BW

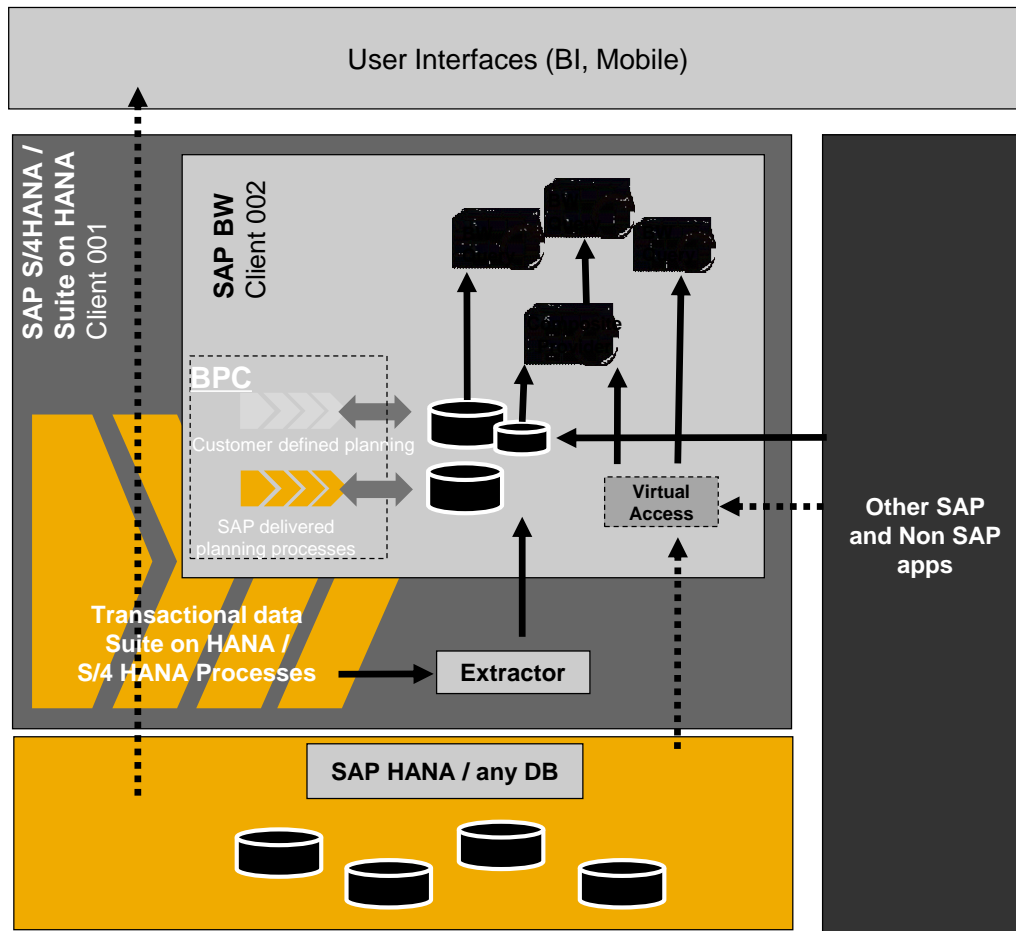
Definition and Positioning

Product Management SAP EDW (BW/HANA), SAP SE
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PUBLIC

Embedded BW

Definition

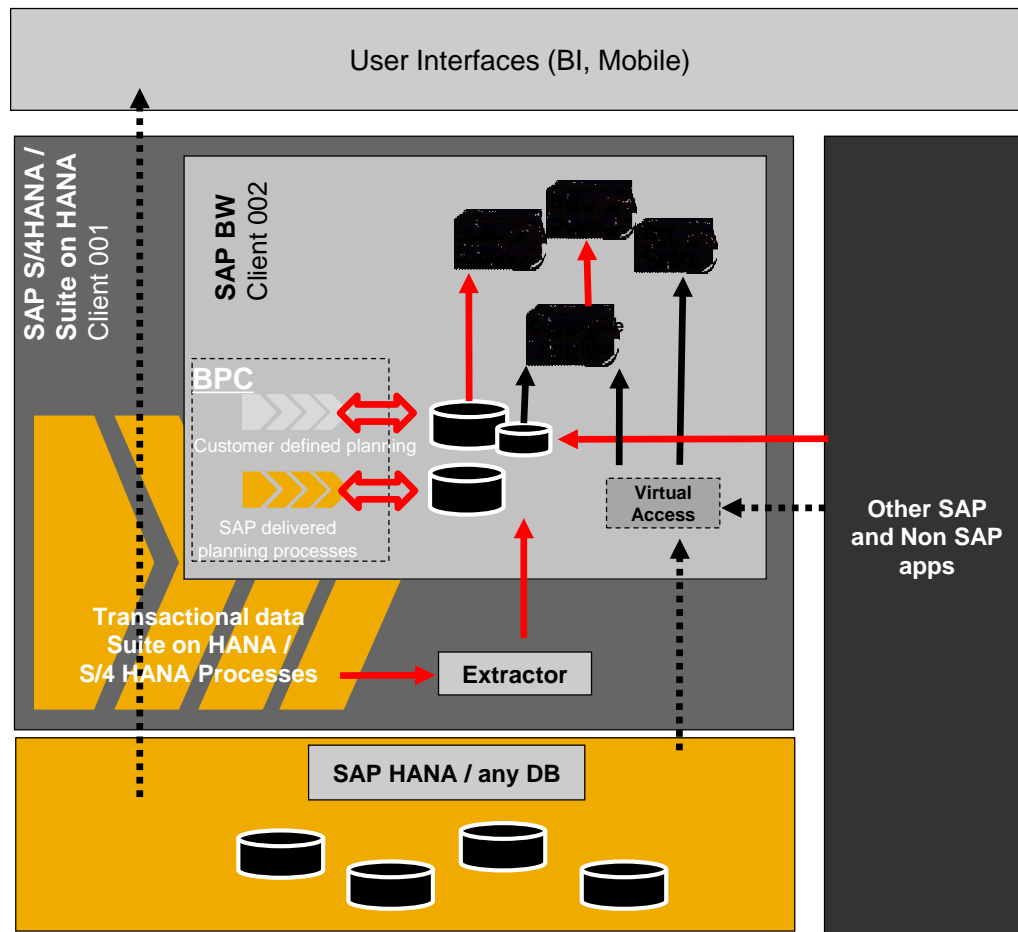


What is Embedded BW:

- SAP BW is automatically included in SAP ERP systems since SAP NetWeaver 7.0, The SAP BW technology that exists inside such an ERP system is called 'Embedded BW'.
- This BW supports technically all BW native functionality incl. SAP BPC processes*
- The Embedded BW is used to support **certain business processes in the SAP Business Suite and in SAP S/4HANA**, e.g. Integrated Business Planning for Finance, using SAP Business Planning & Consolidation (BPC)
- From an outside perspective, the product that is sold to and installed at a customer is the SAP Business Suite / SAP S/4HANA
- The version of BW used in the embedded scenario is SAP BW 7.5 powered by SAP HANA – there are currently no plans to enable SAP BW/4HANA for Embedded BW.

Embedded BW

Specific Use Cases - Recommendations



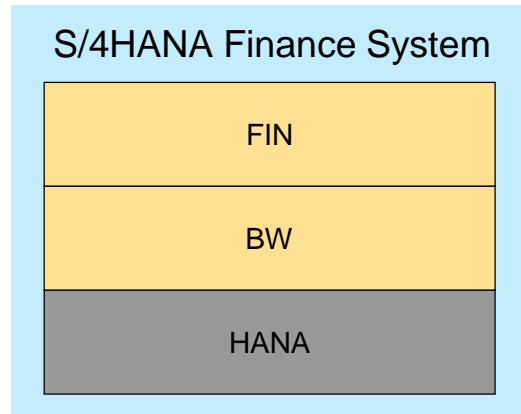
In general, SAP recommends to use Embedded BW only for the SAP standard scenarios. Beyond those cases particular rules and limitations apply, i.e.:

- SAP strongly recommends not to use Embedded BW for data warehousing (EDW) use cases!
- The amount of data persisted in the Embedded BW should not exceed 20% of the overall data volume of the system. This applies to
 - Extraction from own Suite / S/4HANA system
 - Integration of data from external applications
 - Data from planning applications
- License implications
 - Use of BPC requires a separate license
- Security / Authorizations
 - Embedded BW relies on a separate authorization concept. Authorizations from Suite / S/4HANA do not apply but need to be mapped if required.
- Client Distribution
 - SAP recommends a separate client for Embedded BW
 - for organizational reasons (development, administration)
 - whenever data is physically replicated from another SAP application (on the same system) to the Embedded BW
 - For certain scenarios the Embedded BW can be installed on the same client (for additional details see slides 8, 9 in the appendix).

Embedded BW in SAP S/4HANA Finance: Sizing Options

ERP based sizing

“Simple Finance with Embedded BW”



- Both systems contain exactly the same software components
- They only differ with respect to sizing
- The Embedded BW which is shipped with SAP S/4HANA is a SAP BW 7.5 release.

SAP BW/4HANA is available as a stand-alone EDW platform only

Characteristics

- Heavy transactional processing
- External data load via BW-ETL restricted
Data volume < 20%

Scenarios

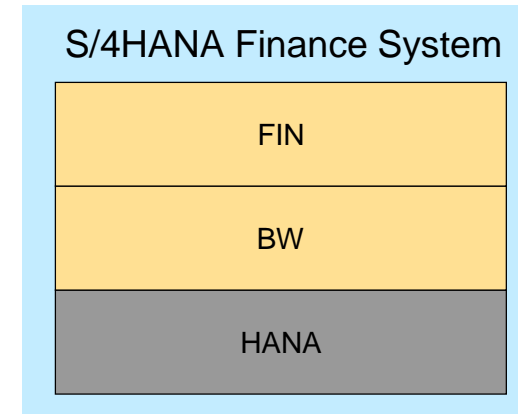
- Finance processes
- Central Finance with major transactional processing

Sizing

- ERP based sizing
- Scale-out not supported
- Scale-up supported

BW based sizing

“EDW with Embedded Finance”



Characteristics

- Little transactional processing
- Mainly external data load

Scenarios

- Central Finance with restricted transactional processing

Sizing

- BW based sizing
- Scale-out supported
- Fixed core to memory ratio

Embedded BW

Related Information

EDW Positioning

- <https://archive.sap.com/documents/docs/DOC-41326>

Positioning of SAP Business Warehouse Powered by SAP HANA und *SAP HANA* Live for SAP Business Suite

- <https://archive.sap.com/documents/docs/DOC-35584>

Positioning of SAP Business Warehouse Powered by SAP und *SAP S/4HANA* embedded analytics

- <https://blogs.sap.com/2015/11/23/unified-solution-sap-s4hana-embedded-analytics-sap-business-warehouse-powered-by-sap-hana/>

System Landscape Recommendations for SAP NetWeaver BW 7.3

- <https://archive.sap.com/documents/docs/DOC-14464>

Support for Multiple Applications on SAP HANA

- **Presentation: like** <https://archive.sap.com/documents/docs/DOC-59771>
- <https://service.sap.com/sap/support/notes/1661202>

Additions BW Deployment Recommendations (multi-client ops)

- <https://service.sap.com/sap/support/notes/1358744>

Considerations with SAP HANA Multi-tenant Database Containers and SAP BW

- <https://service.sap.com/sap/support/notes/2121768>

SAP Enterprise Architecture Explorer

- https://eaexplorer.hana.ondemand.com/_item.html?id=10990#!/overview

Thank you.

Questions?

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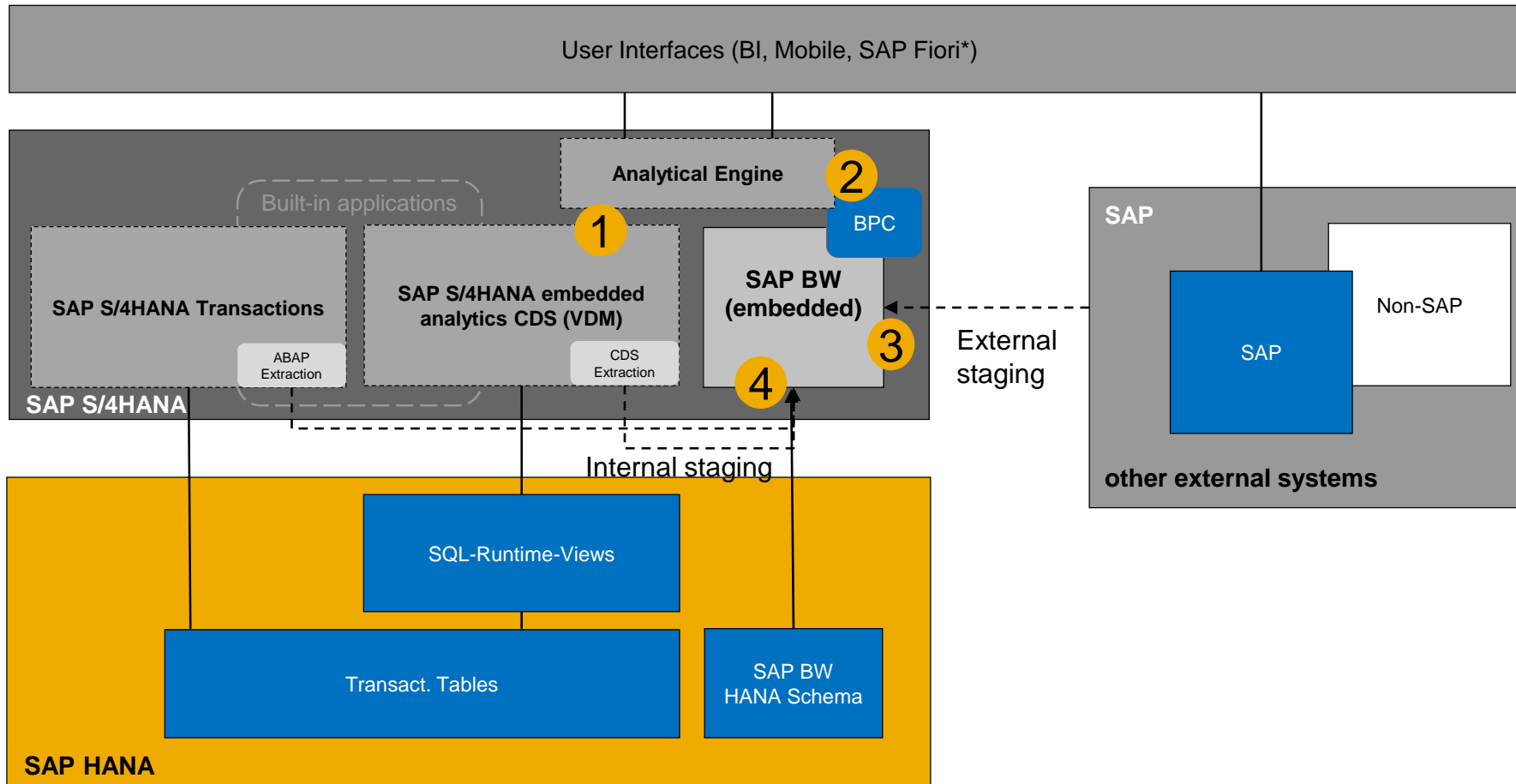
SAP S/4HANA Finance: Hartmut.Koerner@sap.com

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Partner logo

Appendix

Client Distribution – Use cases



See next slide for details

*only SAP S/4HANA

Client Distribution – Use Case detail

Use Case	Add. Client required	Remarks/Explanations	BW Configuration
1) SAP S/4HANA embedded analytics using ABAP-based CDS and the Analytical Engine (automatically generated transient BEx providers)	No	If the use case is enhanced, consider the usage of a separate BW client	Note 2289865
2) SAP S/4HANA BPC Optimized using SAP BPC on PAK models	No	If you are planning to load external data or to combine the use case with other use cases, consider usage of a separate BW client	Note 1972819
3) Embedded BW usage creating small customer-specific data models for reporting and planning (incl. BPC on PAK), including external data sources to stage data into the Embedded BW (other SAP system, e.g. other SAP ERP/CRM/etc., stand-alone BW or non-SAP legacy system)– no usage as Enterprise Data Warehouse!	No	If the use case should be enhanced, consider usage of a separate BW client	Note 1972819
4) Embedded BW usage to stage data from the same SAP S/4HANA system	Yes	The logical source system is unique in the SAP Landscape for source and target systems. Various DataSources are checking for the logical source system prior to data extraction	Full BW setup in a separate client

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