How to Plan and Execute Your SAP BW Transition to SAP Datasphere

Florian Hamon, SAP





In This Session

- Discover the SAP data warehousing strategy.
- See what the future of BW is.
- View what the migration approaches are.
- Get insight on the complexity drivers

Agenda

- Strategy Update
- Why Modernize ?
- Explore your options
- Complexity drivers
- Wrap-Up



Strategy update

Statement of direction

SAP Datasphere is our strategic target solution for all data warehouse and data management use cases in the public cloud.



Safeguard investments and transition to the cloud



RISE with SAP Transform to cloud ERP for your business needs

SAP BW/4HANA Cloud

Safeguard investments by lifting existing landscape to the cloud – RISE with SAP

SAP BW/4HANA and SAP Datasphere

Combine the strengths of SAP BW/4HANA with the innovation, openness, and self-service abilities of SAP Datasphere in a hybrid scenario. Leverage **SAP Datasphere, SAP BW bridge** to reuse and integrate SAP BW-based data ingestion and staging (including ABAP code to reduce SAP BW footprint over time.

SAP Datasphere

Direct adoption in greenfield approach, leverage SAP BW bridge if required

¹ SAP BW/4HANA is fully supported until 2040 and can also be deployed on premise; SAP BW 7.5 also available in private cloud

² SAP cloud ERP includes embedded SAP BW

³ including SAP S/4HANA Cloud, SAP S/4HANA Cloud, private edition, and on-premise deployments of SAP S/4HANA

Why are we talking about modernization?

Understand your data beyond the data model

Reporting data



- Multiuser access
- Real-time, mission-critical data
- Frequent use

Active staging data



- Continuous updates
- Data reads during batch loads
- Frequent updates

Legacy data

- Kept for convenience
- Kept for regulatory requirements
- Used infrequently



What was your data strategy based on SAP BW?

 Most customers store all data centrally on premise without having a clear data categorization concept. That was possible because resources required were irrelevant.

 Some customers took the first step towards a data strategy by leveraging SAP IQ database as cold-data storage, but it was not widely applied, because the cost and effort outweighed the benefits, especially for smaller customers.

 A public cloud strategy needs data categorization, because cloud resources are dependent on the hyperscaler offering, and the cost of a data footprint becomes an important factor to consider.

Reporting data

Frequent, multiuser access, highperformance expectation

Storage: InfoCubes, DSOs, master data

Portion: 10–20%

Active staging data

Continuous updates, reads during batch loads Storage: DSOs, master data, PSA Portion: 10–60%

Legacy data

Kept for convenience or legal purpose, infrequent use Storage: DSOs, NLS partitions Portion: 20–80%

simplified data landscape.

SolutionsSAP Datasphere –
Core onlyApproachGreenfield in parallel with
SAP BWPrerequisiteNoneBenefitsBuild up a business data
fabric without any of the
constraints of a legacy
deployment and approach.
Complete focus on
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Solutions	SAP Datasphere – Core only	SAP Datasphere with SAP BW bridge
Approach	Greenfield in parallel with SAP BW	Greenfield in parallel with SAP BW
Prerequisite	None	None
Benefits	Build up a business data fabric without any of the constraints of a legacy deployment and approach. Complete focus on modernization and a simplified data landscape.	Start with the development of a common data layer on legacy data in proven SAP BW technology with all unique functions such as transforming data, managing data loading with partitioning, monitoring, or error handling. Combine proven SAP BW functionality with modern cloud architecture and take your business warehouse to the next level.

Solutions	SAP Datasphere – Core only	SAP Datasphere with SAP BW bridge	SAP Datasphere with SAP BW/4HANA hybrid
Approach	Greenfield in parallel with SAP BW	Greenfield in parallel with SAP BW	Hybrid (link SAP BW/4HANA and SAP Datasphere)
Prerequisite	None	None	SAP BW/4HANA 2021
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Solutions	SAP Datasphere – Core only	SAP Datasphere with SAP BW bridge	SAP Datasphere with SAP BW/4HANA hybrid	SAP Datasphere with SAP BW bridge
Approach	Greenfield in parallel with SAP BW	Greenfield in parallel with SAP BW	Hybrid (link SAP BW/4HANA and SAP Datasphere)	Shell or remote conversion
Prerequisite	None	None	SAP BW/4HANA 2021	SAP BW 7.3 up to SAP BW/4HANA 2021
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		data loading with partitioning, monitoring, or error handling.	cases. The entity import in SAP Datasphere automatically creates a new analytic model in the data builder based on SAP BW artefacts and queries.	The Entity Import in SAP Datasphere automatically creates a new Analytic Model in the data builder based on SAP BW artefacts and queries.
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SAP Datasphere

Hybrid

SAP Datasphere

SAP Datasphere

Modernize your data warehouse



Big bang



Gradual transition



Complexity drivers

SAP BW query

OLAP features

SAP Datasphere is our semantic layer combining data from several sources and layers and covers the same functionality as OLAP queries.

Many query features have already been implemented. Others have been identified and are listed as road map items.

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FILE, SAP HANA, big data sources

SAP Datasphere provides many more data source types than SAP BW. All data sources that were available in SAP BW are equally available in SAP Datasphere.

The focus of SAP BW bridge as a staging layer is on classic SAP connections (ODP_SAP).

Open hub

destinations

Mass data export

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Analysis process designer (APD)

Analysis process modeling

In SAP Datasphere, you have the option to modernize the analysis process with a dataflow artefact (manual).

The conversion to SAP BW/4HANA supports APDs (dataflow object).

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Planning and consolidation

SAP Business Planning and Consolidation (SAP BPC) and the business consolidation component (SEM-BCS)

SAP BW add-ons are not supported in SAP Datasphere or SAP BW bridge.

Strategically, the successor for SEM-BCS is group reporting of SAP S/4HANA. The successor for SAP BPC is SAP Analytics Cloud for planning (blog, Web page).

For SAP BW/4HANA, we support the consolidation add-on (SAP BW/4HANA, business consolidation add-on, see <u>details</u>) and SEM-BCS aligned with the <u>maintenance strategy</u> of SAP S/4HANA.

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Mixed modeling

Hybrid models

On-premise SAP HANA is based on XS classic, while the SAP HANA Cloud database engine underlying SAP Datasphere is based on XS advanced (XSA).

Regarding the complexity and different kind of technologies, no migration option can be offered.

Supported	Planned	Unsupported
Calculated key figure Restricted key figure Global filter Time dependency Key figure with currency Navigation attributes Texts	 Handling and reuse of hierarchies (Q1 2024) Non-cumulative key figures (Q2 2024) Constant selection (Q1 2024) Exit variables Multistructure (planned to be delivered in 3 phases, manually already possible through cross calculation) 	 Temporal join Ambiguous join BADI provider as part provider Open ODS view without calculatio scenario
Currency conversion	 Unit conversion Replacement path variables 	
	Conditions	

Wrap up

- SAP Datasphere is SAP strategic target solution for Data Warehousing and Management in Public Cloud.
- BW Bridge : BW Migration capabilities offered.
- Big-Bang or Gradual : choose your upgrade method.

Where to Find More Information

- SAPinsider.org
- SAP Datasphere : <u>https://discovery-</u> <u>center.cloud.sap/serviceCatalog/sap-datasphere?region=all</u>
- Roadmap : <u>https://discovery-center.cloud.sap/serviceCatalog/sap-</u> <u>datasphere?region=all&tab=roadmap</u>
- E-Learning : <u>https://open.sap.com/courses/dsp1-1</u>
- Conversion deep dive :

https://www.youtube.com/watch?v=ZXLf5ng3LJY

<u>http://help.sap.com/datasphere</u>

Key Points to Take Home

- SAP Datasphere is SAP strategic target solution for Data Warehousing and Management in Public Cloud.
- BW Bridge : BW Migration capabilities offered.
- Big-Bang or Gradual : choose your upgrade method.

Florian Hamon

Director, SAP Center of Excellence for Data & Analytics Florian.hamon@sap.com

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