

From Rigid BW to an Agile Data Platform

Modernization of the data architecture using SAP Datasphere



Situation

- Since 2008: SAP BW 7.0 → 2017 upgrade to SAP BW 7.5 (HANA)
- Source data primarily from SAP S/4
- Combination of standard content, custom development, and planning scenarios
- Strong dependency on ABAP logic and BW architecture
- Limited availability of data for external systems
- Rigid ETL layers
- Increasing costs for changes and further development
- Strategic decision: full reimplementatio into SAP Datasphere

Challenges

- Migration from on-premise to a cloud-based data warehouse
- Preservation of complex BW logic (models, allocations, transformations)
- Integration of S/4 data with delta extraction support (BW Bridge as a transitional solution)
- Gradual phase-out of BW Bridge while maintaining delta loads
- Conversion of ABAP transformation logic into SQL
- Handling of specific scenarios (logistics extractors)
- Taking over BW role as data source for reporting and S/4 processes

Solution

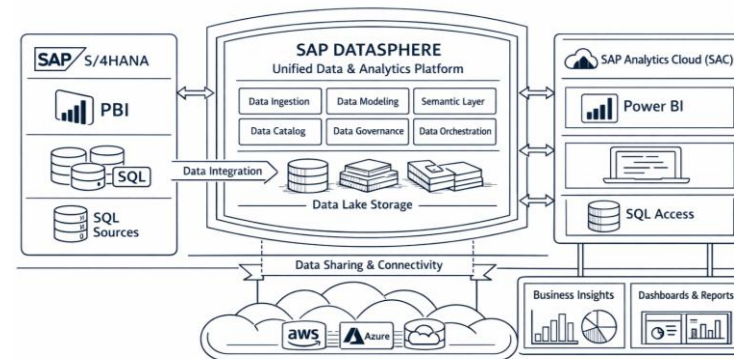
- SAP Datasphere with temporary use of BW Bridge
- Combination of full and delta data loads from SAP S/4HANA
- Reimplementation of BW logic (Business Content) to accelerate integration and testing
- Use of S-API sources + CDS (CDC scenarios)
- Domain separation using spaces (access and storage management)
- Data federation to S/4 via Open SQL
- Monitoring using SAP standard content

Benefits

- Significant simplification of administration through cloud adoption
- Direct path to reporting in Power BI
- Reduced dependency on BW expertise
- Rapid prototyping without impacting the core model
- Integration of SAP and non-SAP data without complex ETL
- SQL-first approach (lower dependency on proprietary BW objects)
- Separation of data domains (finance, sales, ...)
- Future-proof architecture

Future Plans and Solution Development

- SAP Datasphere is an investment in flexibility and openness, enabling greater involvement of the internal team in both analytical and implementation activities
- A significant potential lies especially in the future use of the data warehouse for AI-driven scenarios



Industry

Consumer electronics retail
Operation of e-commerce platforms
Service and customer support

LoB

Finance and controlling
Logistics and supply chain
Sales (B2C / B2B)
E-commerce

Customer

HP TRONIC Zlín s.r.o..

Headquarters

Zlín, Czech Republic

Number of Employees

> 4700 (2025)

System Landscape

SAP S/4HANA 2021 Cloud
Private Edition
SAP Datasphere

Project Duration

6/2022–12/2025

Reference

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