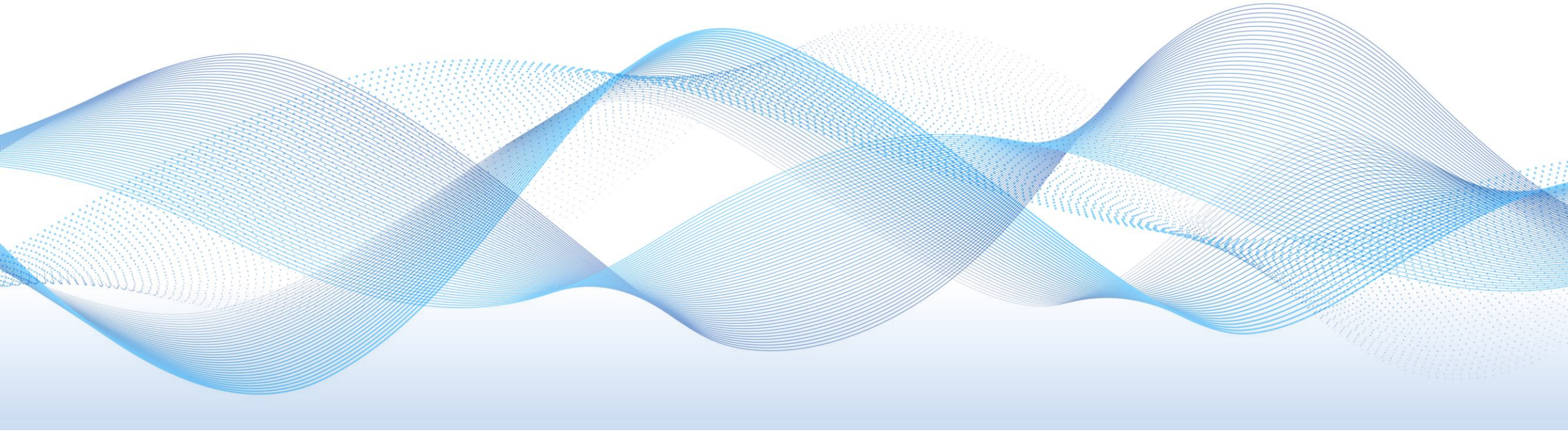


BW Modernization Webinar Series
Session 4: Sizing Matters for The Cloud

Thomas Becker, SAP SE
Udo Baetz, SAP SE

Public

SAP Datasphere Sizing Tools in a Nutshell

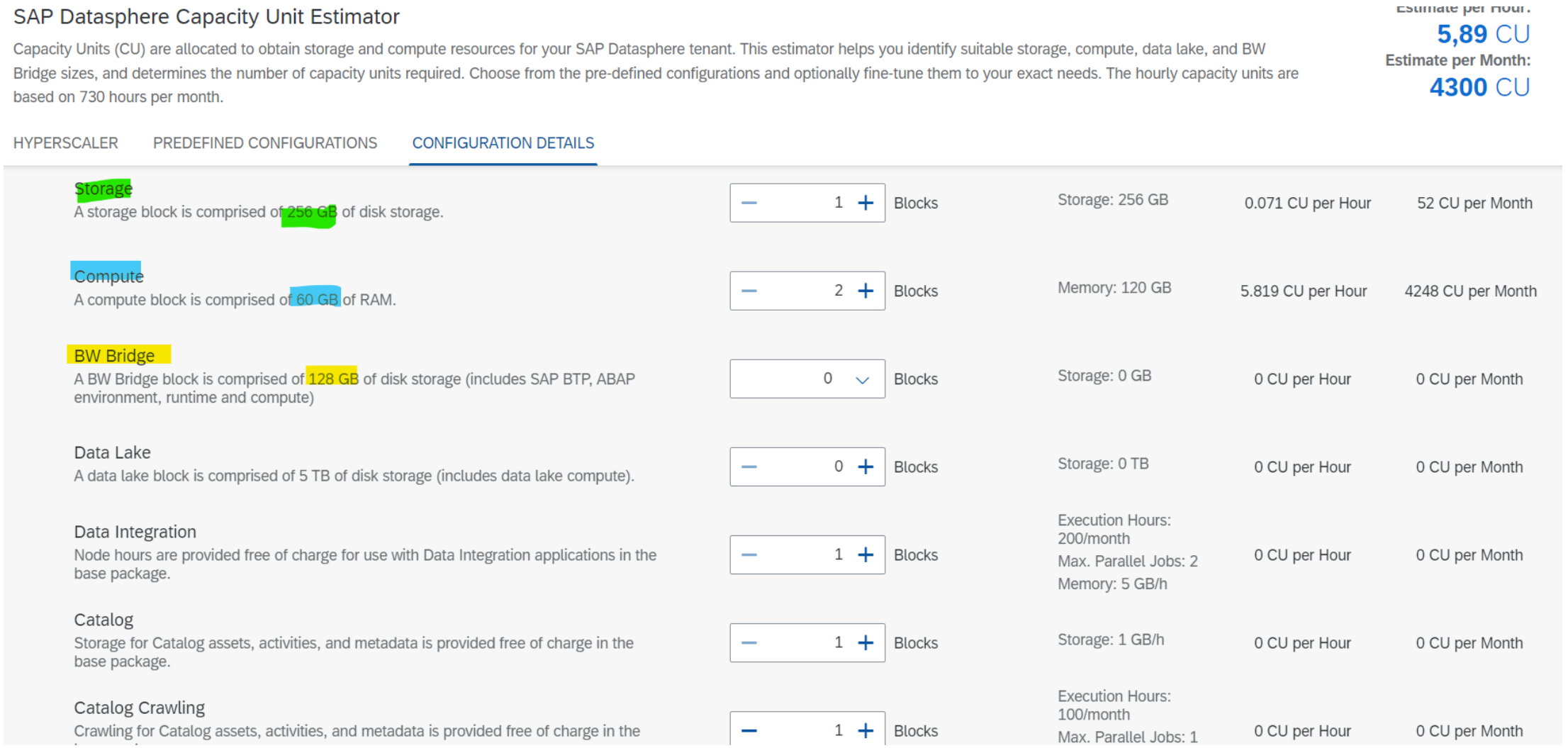
SAP Datasphere Sizing Tools calculate KPIs relevant for SAP Datasphere Capacity Unit Estimator tool:

- Size of all tables **relevant for reporting**. The cumulated size of these tables is the minimum size of a **SAP Datasphere Storage** (256GB blocks).
- Size of all tables to be stored in **SAP Datasphere BW Bridge** (128GB blocks).
- Replication of tables in multiple SAP Datasphere spaces is **not covered** by the sizing tools.

NOTE: All additional calculations based on cumulated table sizes (e.g. additional headroom for temp. objects) are entirely done by the Capacity Unit Estimator tool

- E.g. by adding additional memory blocks (64GB) with increasing Compute capacity

SAP Datasphere Capacity Unit Estimator



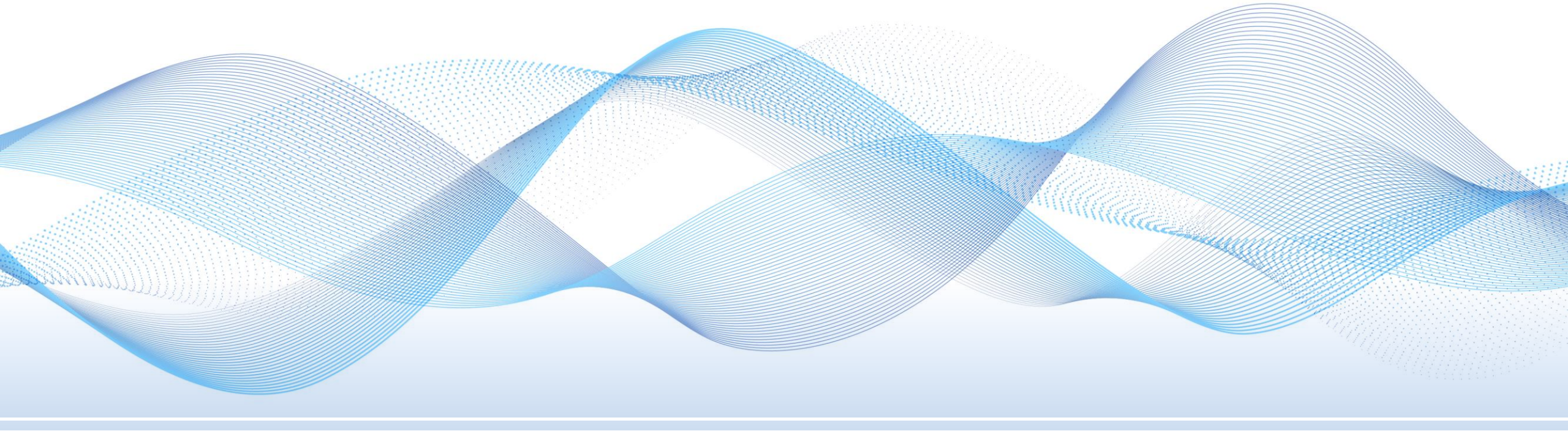
SAP Datasphere Capacity Unit Estimator

Capacity Units (CU) are allocated to obtain storage and compute resources for your SAP Datasphere tenant. This estimator helps you identify suitable storage, compute, data lake, and BW Bridge sizes, and determines the number of capacity units required. Choose from the pre-defined configurations and optionally fine-tune them to your exact needs. The hourly capacity units are based on 730 hours per month.

Estimate per Hour:
5,89 CU
Estimate per Month:
4300 CU

HYPERSCALER | PREDEFINED CONFIGURATIONS | CONFIGURATION DETAILS

Storage A storage block is comprised of 256 GB of disk storage.	1 Blocks	Storage: 256 GB	0.071 CU per Hour	52 CU per Month
Compute A compute block is comprised of 60 GB of RAM.	2 Blocks	Memory: 120 GB	5.819 CU per Hour	4248 CU per Month
BW Bridge A BW Bridge block is comprised of 128 GB of disk storage (includes SAP BTP, ABAP environment, runtime and compute)	0 Blocks	Storage: 0 GB	0 CU per Hour	0 CU per Month
Data Lake A data lake block is comprised of 5 TB of disk storage (includes data lake compute).	0 Blocks	Storage: 0 TB	0 CU per Hour	0 CU per Month
Data Integration Node hours are provided free of charge for use with Data Integration applications in the base package.	1 Blocks	Execution Hours: 200/month Max. Parallel Jobs: 2 Memory: 5 GB/h	0 CU per Hour	0 CU per Month
Catalog Storage for Catalog assets, activities, and metadata is provided free of charge in the base package.	1 Blocks	Storage: 1 GB/h	0 CU per Hour	0 CU per Month
Catalog Crawling Crawling for Catalog assets, activities, and metadata is provided free of charge in the	1 Blocks	Execution Hours: 100/month Max. Parallel Jobs: 1	0 CU per Hour	0 CU per Month

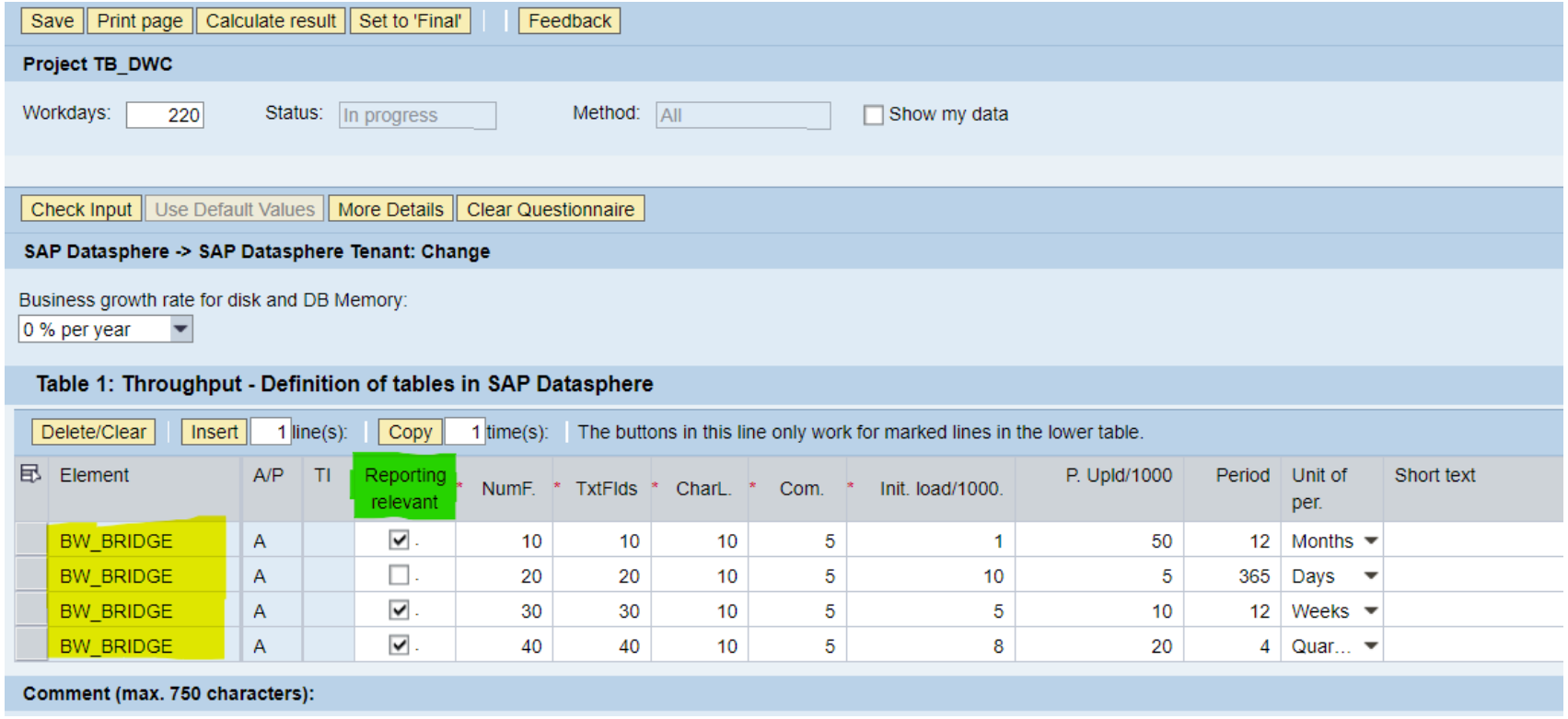


SAP Datasphere:
Greenfield Sizing with SAP QuickSizer

SAP Datasphere Sizing in SAP Quick Sizer

- SAP Datasphere Sizing available in [HANA-based Cloud Quick Sizer]

SAP Datasphere: Quick Sizer Questionnaire

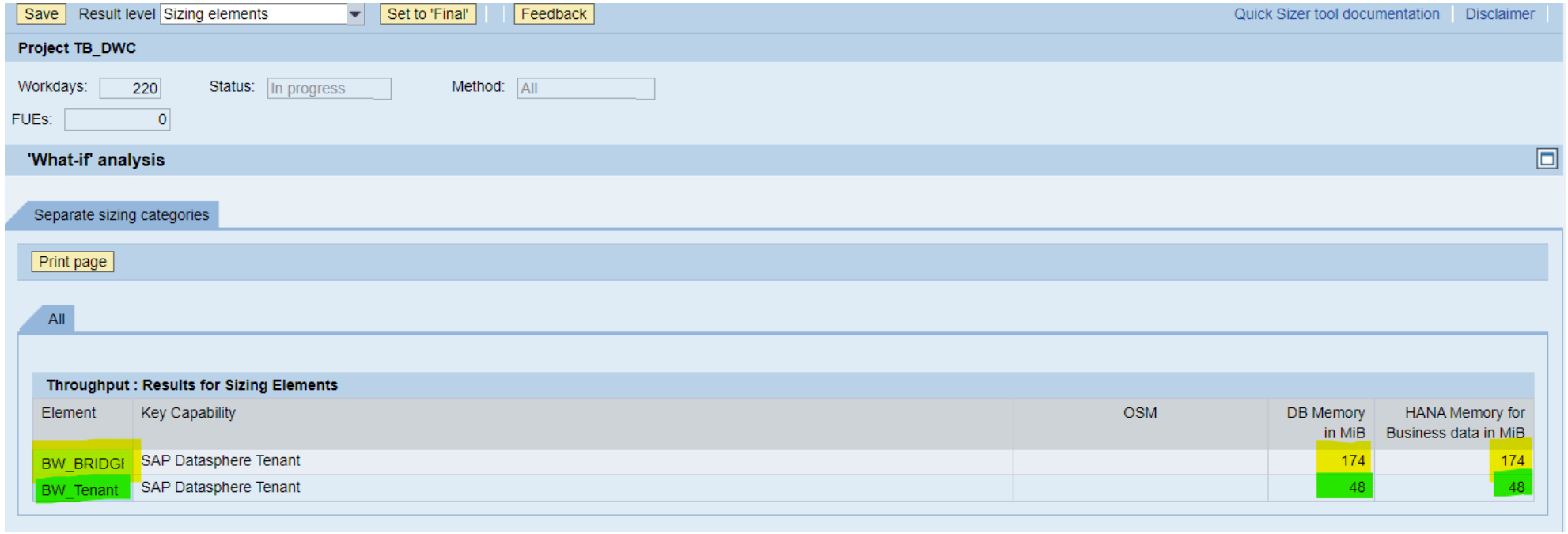


Questionnaire similar to ADSO input structure in well-known BW questionnaire

All tables go to SAP Datasphere BW Bridge

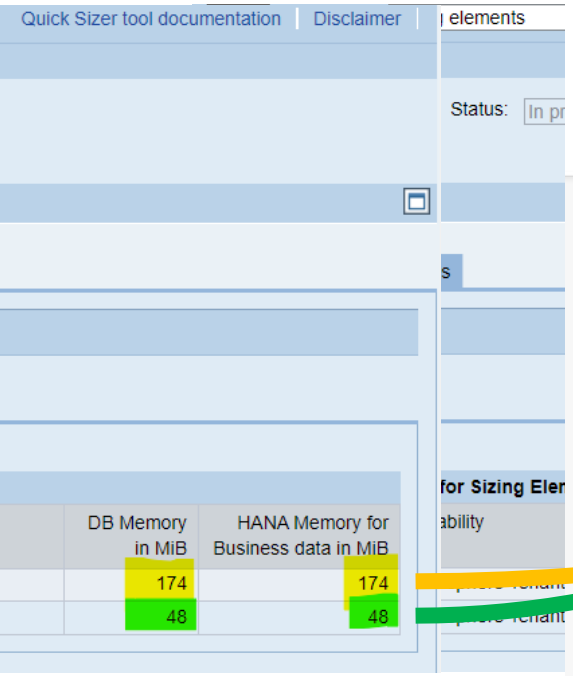
Tables with flag “Reporting Relevant” also go to Datasphere Space

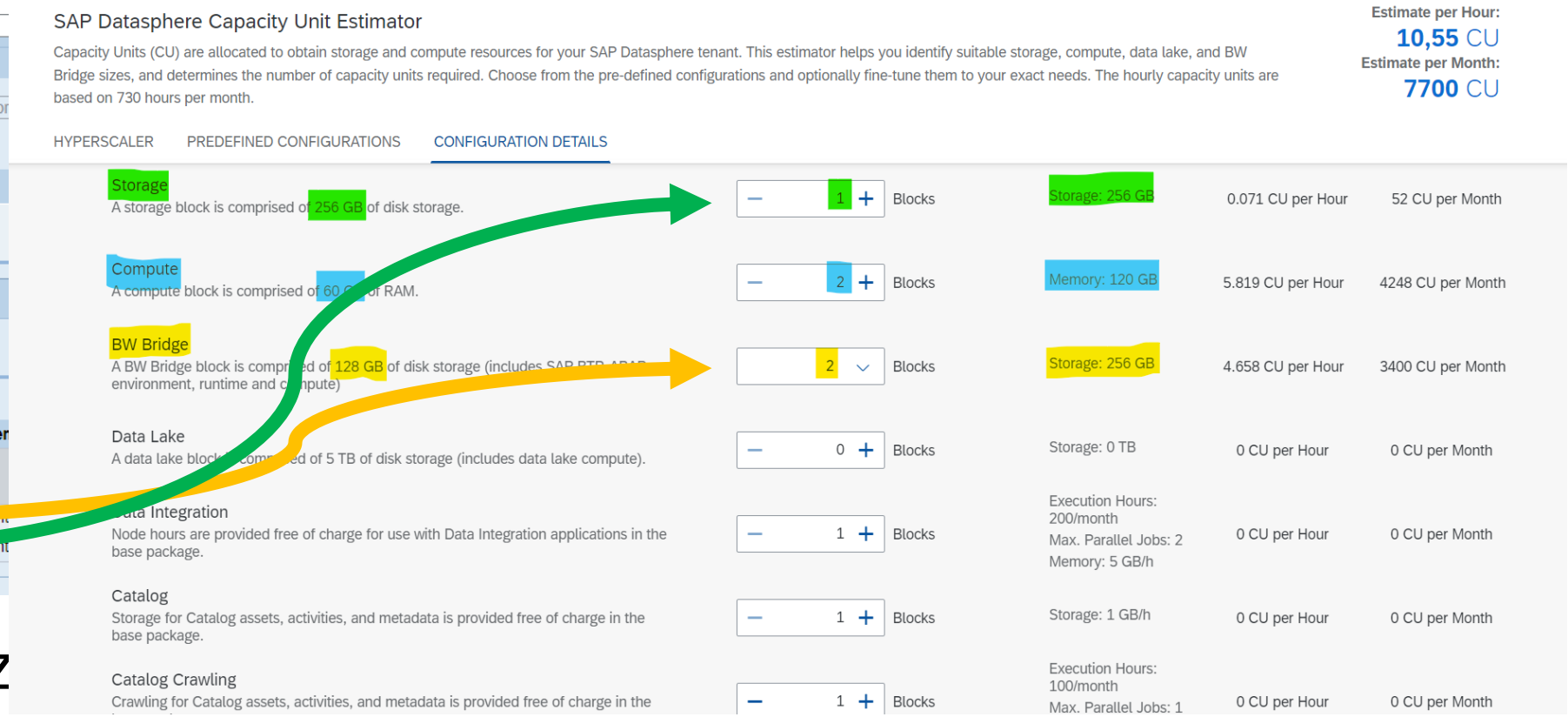
SAP Datasphere: QS Results: Sizing elements



Separate sizes for Datasphere Bridge and Datasphere Space storage

SAP Datasphere: QS Results: Sizing elements





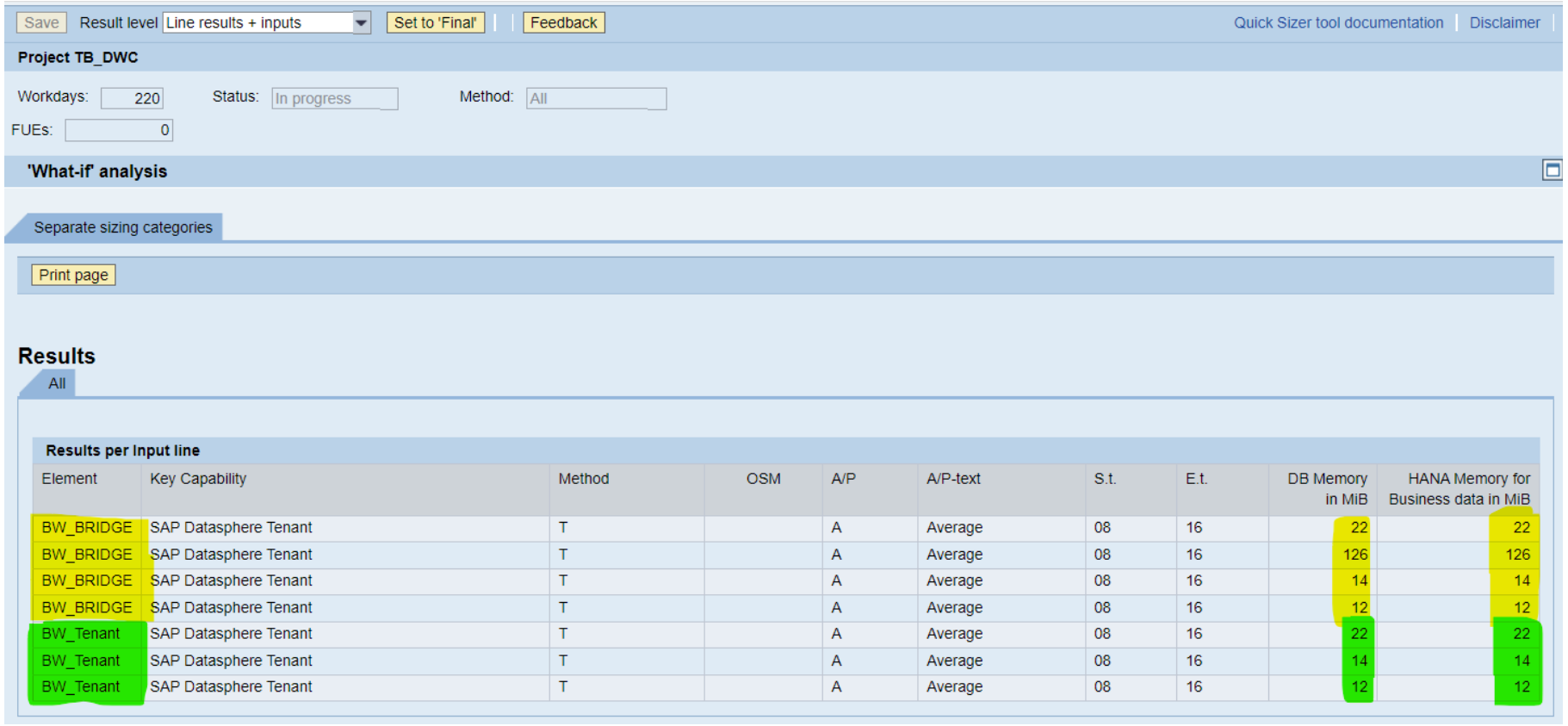
Separate siz

174 MB Bridge size → 2 Bridge blocks of 128 GB (only 0 / 2 / 4 / 8 / 16 / 32 blocks available)

48 MB Storage Size → 1 Storage block of 256 GB

2 Compute blocks of 64 GB each automatically added

SAP Datasphere: QS Results: Line results



Save | Result level: Line results + inputs | Set to 'Final' | Feedback | Quick Sizer tool documentation | Disclaimer

Project TB_DWC

Workdays: 220 Status: In progress Method: All

FUEs: 0

'What-if' analysis

Separate sizing categories

Print page

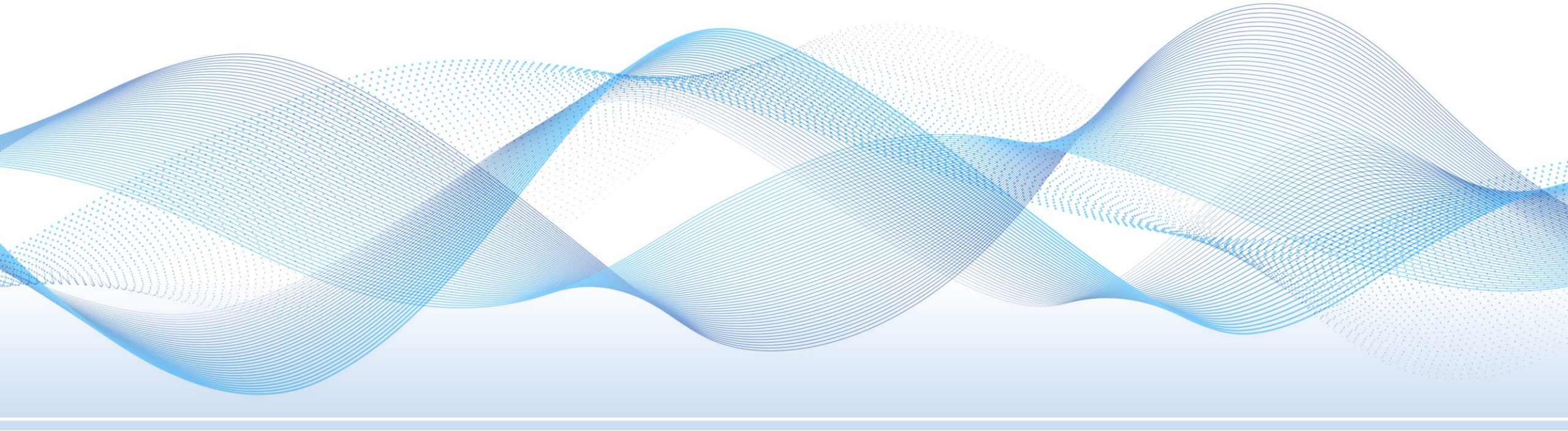
Results

All

Results per Input line

Element	Key Capability	Method	OSM	A/P	A/P-text	S.t.	E.t.	DB Memory in MiB	HANA Memory for Business data in MiB
BW_BRIDGE	SAP Datasphere Tenant	T		A	Average	08	16	22	22
BW_BRIDGE	SAP Datasphere Tenant	T		A	Average	08	16	126	126
BW_BRIDGE	SAP Datasphere Tenant	T		A	Average	08	16	14	14
BW_BRIDGE	SAP Datasphere Tenant	T		A	Average	08	16	12	12
BW_Tenant	SAP Datasphere Tenant	T		A	Average	08	16	22	22
BW_Tenant	SAP Datasphere Tenant	T		A	Average	08	16	14	14
BW_Tenant	SAP Datasphere Tenant	T		A	Average	08	16	12	12

Sizes of individual tables for Datasphere BW Bridge and tenant



SAP Datasphere:
Brownfield Sizing with SAP BW/4HANA Sizing Report

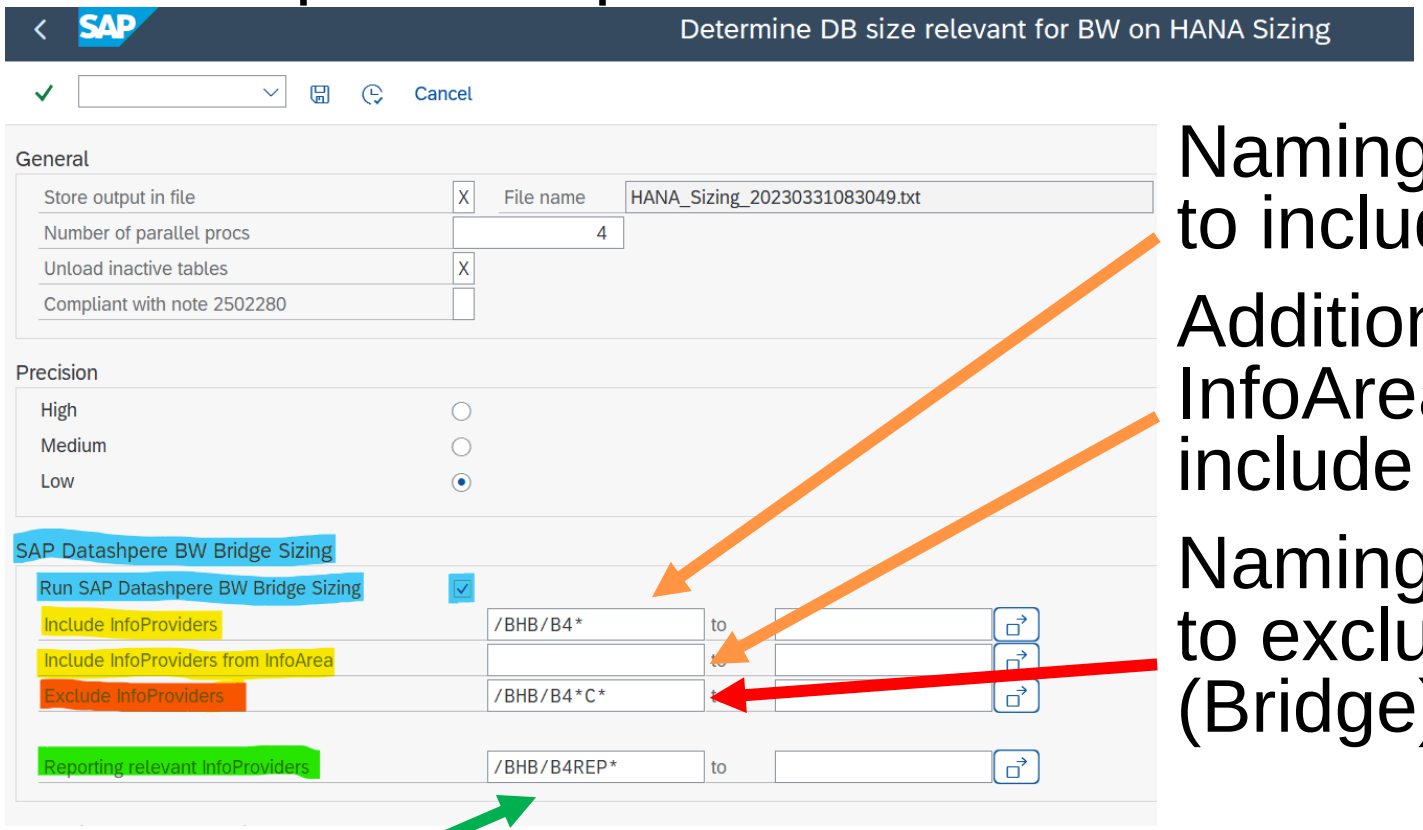
SAP Datasphere in BW/4 Sizing Report

SAP Datasphere Sizing for Brownfield available with version 2.7.0 of the BW/4 Sizing Report (December 2022)

- Datasphere Sizing is an extension of the BW/4HANA sizing report, rather than a separate sizing tool
- Sizing Report can be used either for classic BW sizing, or for SAP Datasphere sizing – bot not for both at the same time

SAP Datasphere in BW/4 Sizing Report

Relevant part of report selection screen:



Naming pattern for InfoProviders to include (Bridge)

Additional: Naming pattern for InfoAreas with InfoProviders to include (Bridge)

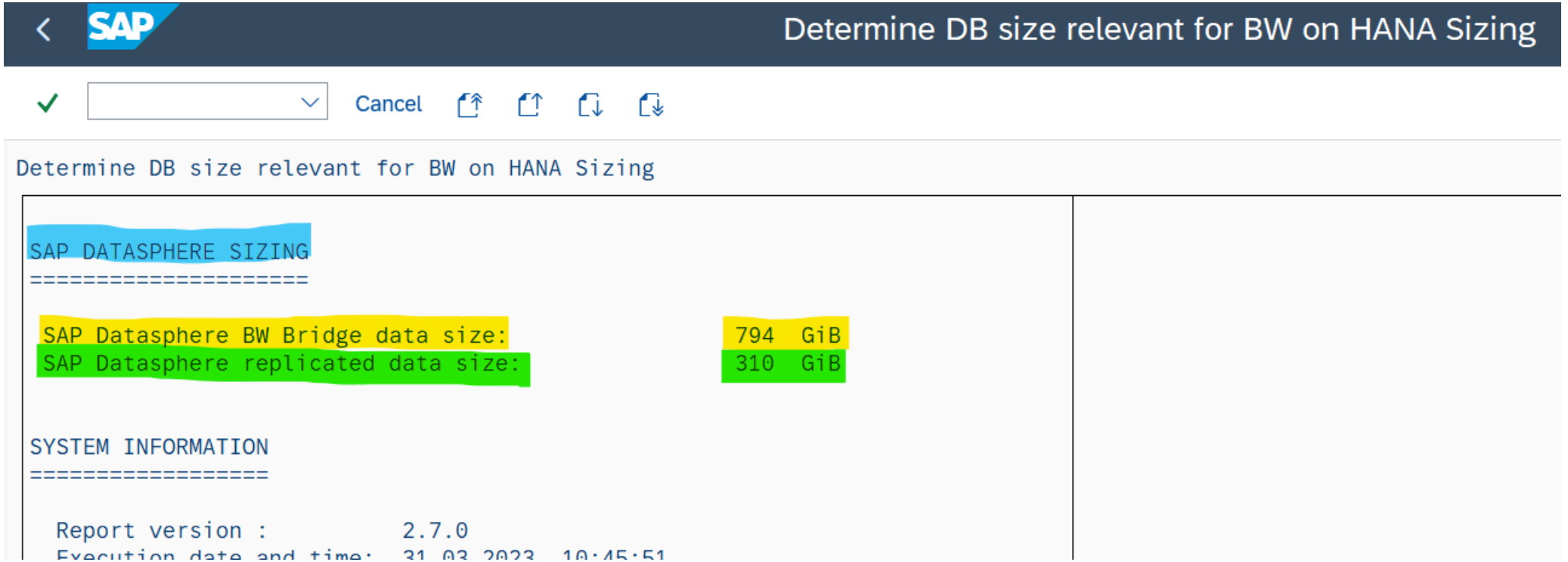
Naming pattern for InfoProviders to exclude from above lists (Bridge)

InfoProviders Relevant for Reporting (Storage)

Report adds dependent objects as usual

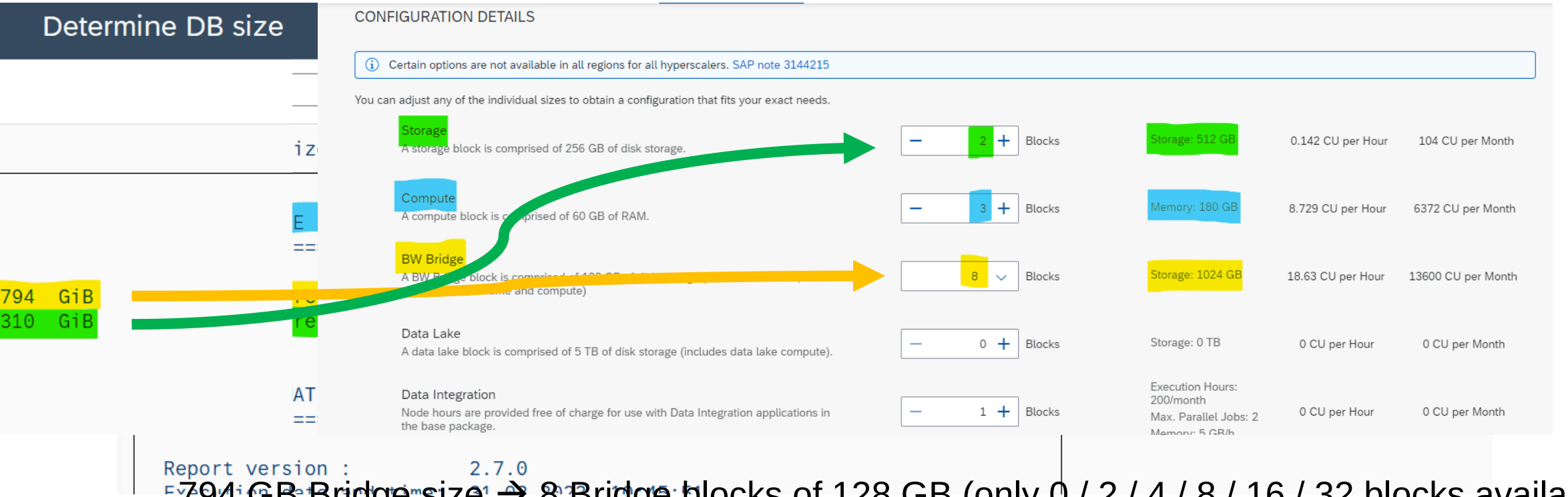
SAP Datasphere in BW/4 Sizing Report

Relevant output of results:



SAP Datasphere in BW/4 Sizing Report

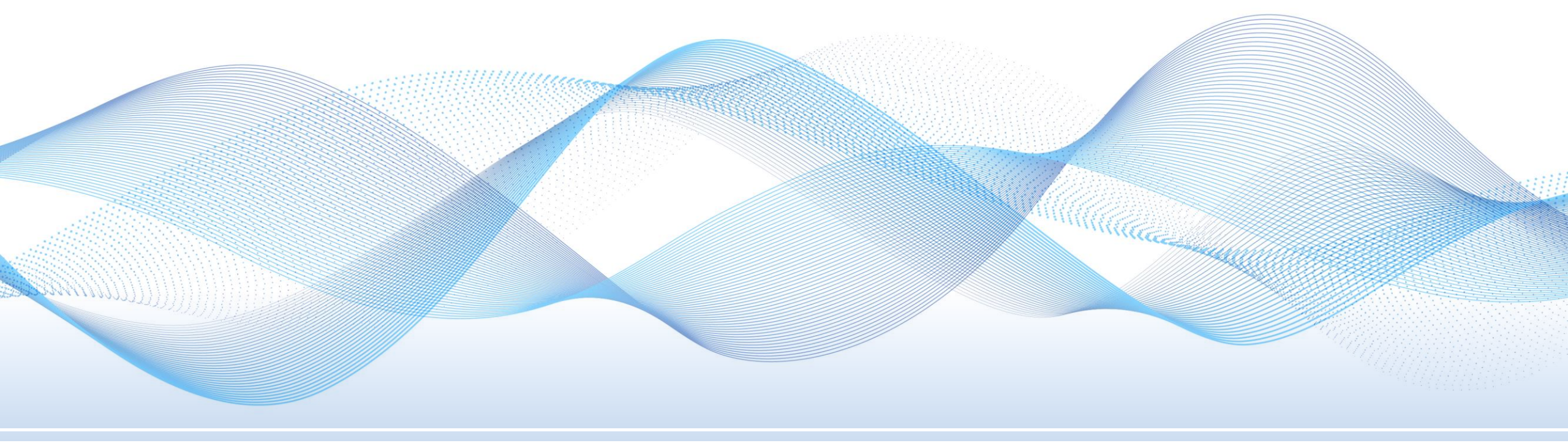
Relevant output of results:



794 GB Bridge size → 8 Bridge blocks of 128 GB (only 0 / 2 / 4 / 8 / 16 / 32 blocks available)

310 GB Storage Size → 2 Storage blocks of 256 GB

3 Compute blocks of 64 GB each automatically added



DEMO:

SAP Datasphere Sizing
using the BW/4HANA Sizing Report

Don’t miss this Blog on Datasphere Sizing with the BW/4HANA Sizing Report:

https://blogs.sap.com/2022/12/28/get-ready-for-sap-bw-bridge-sap-data-warehouse-cloud-sizing-report/

SAP BW Modernization Webinar Series

Session 1: Modernizing SAP Business Warehouse, Explore Your Options
Date: September 20th @ 8am-9am PT/ 11am-12noon ET

Session 2: Preparation for Modernization – Your Source System
Date: September 27th 8am-9am PT/ 11am-12noon ET

Session 3: Using SAP Tooling for a Smooth Transition
Date: October 4th @ 8am-9am PT/ 11am-12noon ET

Session 4: Size Matters for The Cloud
Date: October 11th @ 8am-9am PT/ 11am-12noon ET

Session 5: Preparation for Modernization – Your Target System
Date: October 18th @ 8am-9am PT/ 11am-12noon ET

Session 6: A Deep Dive on Transition Approaches
Date: October 25th @ 8am-9am PT/ 11am-12noon ET

Session 7: Working with SAP Business Warehouse Elements in SAP Datasphere
Date: November 1st @ 8am-9am PT/ 11am-12noon ET

Register today!