

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

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Public

SAP Datasphere Sizing Tools in a Nutshell

SAP Datasphere Sizing Tools calculate KPIs relevant for <u>SAP Datasphere Capacity Unit Estimator</u> <u>tool</u>:

- 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

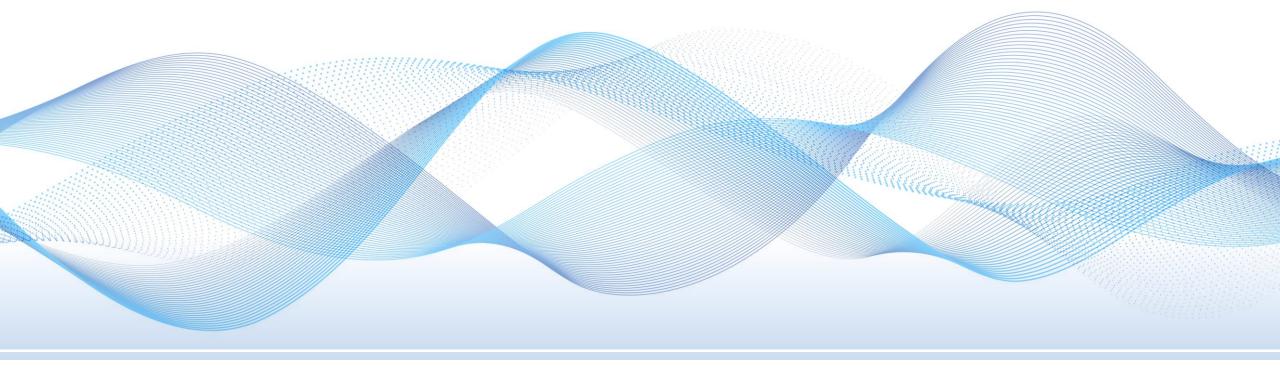
SAP Datasphere Capacity Unit Estimator

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.

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 + Bloc	sks Storage: 256 GB	0.071 CU per Hour	52 CU per Month
Compute A compute block is comprised of 60 GB of RAM.	- 2 + Bloc	ks Memory: 120 GB	5.819 CU per Hour	4248 CU per Month
BW Bridge A BW Bridge block is comprised of <mark>128 GB</mark> of disk storage (includes SAP BTP, ABAP environment, runtime and compute)	0 🗸 Bloc	sks 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 + Bloc	sks 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 + Bloc	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 + Bloc	sks 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 + Bloc	Execution Hours: 100/month ks 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

IANA-based Cloud Quick Sizer	
ustomer viewSearch	
Search in Tree	• •
Match whole word Phrase	
Input Navigation Tree	
Solution Packages	
Project Information	
SAP S/4HANA Cloud for Enterprise Management	
 Self Service Applications 	
•	
• 🔗 Sales	
Sourcing & Procurement	
• 🔗 Manufacturing	
 Asset Management 	
• 🔗 WM Inbound	
• 🔗 WM Outbound	
Master Data Governance	
Embedded Analytics	
SAP S/4HANA Cloud Logons	
SAP S/4HANA Cloud Logons	
SAP S/4HANA API calls from non-SAP solutions	
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SAP Datasphere	

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SAP Datasphere Sizing available in HANA-based Cloud Quick Sizer

SAP Datasphere: Quick Sizer Questionnaire

Save Print page Ca	lculate r	esult	Set to 'Final	' Fee	dback							
Project TB_DWC												
Workdays: 220	Stat	tus: In	progress		Method:	All		Show my data				
Check Input Use Defa	ult Valu	es Mo	ore Details	Clear Que	stionnaire							
SAP Datasphere -> SAI	Datas	ohere Te	enant: Cha	nge								
Business growth rate for 0 % per year Table 1: Throughpu				in SAP Da	atasphere							
Delete/Clear Inse	t 1	ine(s):	Сору	1 time(s):	The butto	ons in this lir	ne only wor	k for marked lines in	the lower table.			
E Element	A/P	ТΙ	Reporting , relevant	* NumF. *	TxtFlds	* CharL.	* Com.	* Init. load/1000.	P. Upld/1000	Period	Unit of per.	Short text
BW_BRIDGE	Α		✔.	10	10	10	5	1	50	12	Months -	
BW_BRIDGE	А		□.	20	20	10	5	10	5	365	Days 💌	
BW BRIDGE	Α		✔.	30	30	10	5	5	10	12	Weeks 💌	
BH_BHBBE			✓.	40	40	10	5	8	20	4	Quar 💌	

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

All tables go to SAP Datasphere BW Bridge

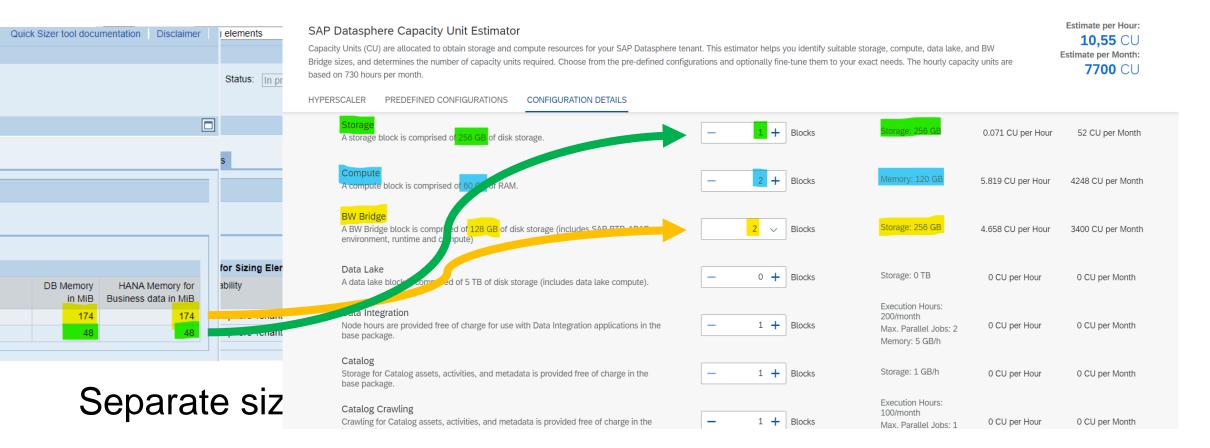
Tables with flag "Reporting Relevant" also go to Datasphere Space

SAP Datasphere: QS Results: Sizing elements

Save Result level Sizing elements 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			
All			
Throughput : Results for Sizing Elements			
Element Key Capability	OSM		A Memory for s data in MiB
BW_BRIDGI SAP Datasphere Tenant		174	174
BW_Tenant SAP Datasphere Tenant		48	48

Separate sizes for Datasphere Bridge and Datasphere Space storage

SAP Datasphere: QS Results: Sizing elements

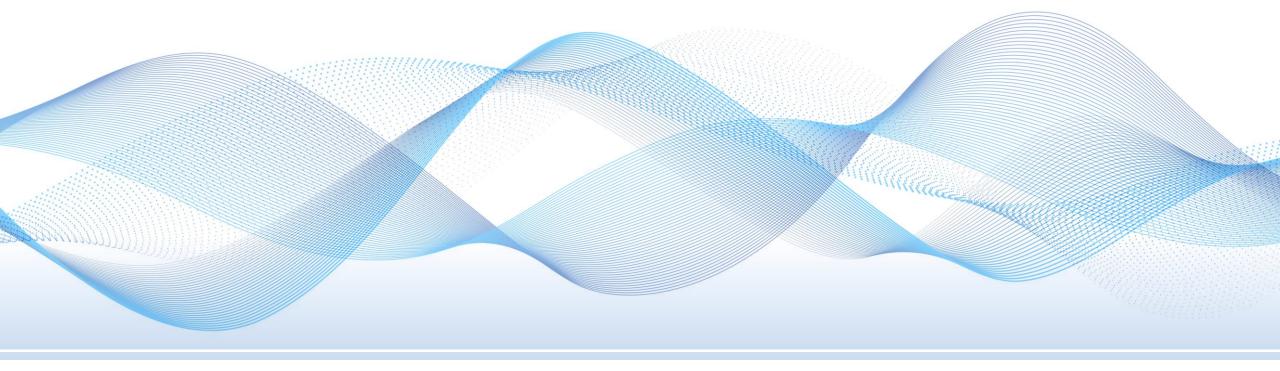


174 MB Bridge size \rightarrow 2 Bridge blocks of 128 GB (only 0 / 2 / 4 / 8 / 16 / 32 blocks available) 48 MB Storage Size \rightarrow 1 Storage block of 256 GB © 2023 SAP SE or a 2 AF G ompute blocks of 64 GB each automatically added

SAP Datasphere: QS Results: Line results

Save Result le	level Line results + inputs									
	level Line results + inputs	'Final' Feedback					Q	uick Sizer tool docu	imentation Dis	sclaimer
Project TB_DWC	c									
Vorkdays:	220 Status: In progress	Method: All								
'What-if' anal	lysis									[
Separate sizing	g categories									
Print page										
Results										
	Input line									
All	Input line Key Capability	Method	OSM	A/P	A/P-text	S.t.	E.t.	DB Memory in MiB	HANA Mem Business data	
All Results per	Key Capability	Method	OSM	A/P A	A/P-text Average	S.t. 08	E.t. 16			
All Results per Element	Key Capability SAP Datasphere Tenant		OSM					in MiB		in MiB
All Results per Element BW_BRIDGE	Key Capability SAP Datasphere Tenant SAP Datasphere Tenant	Т	OSM	A	Average	08	16	in MiB		in MiB
All Results per Element BW_BRIDGE BW_BRIDGE	Key Capability SAP Datasphere Tenant SAP Datasphere Tenant SAP Datasphere Tenant	T T	OSM	A	Average Average	08	16 16	in MiB		in MiB 22 126
All Results per Element BW_BRIDGE BW_BRIDGE BW_BRIDGE	Key Capability SAP Datasphere Tenant SAP Datasphere Tenant SAP Datasphere Tenant	T T T	OSM OSM	A A A	Average Average Average	08 08 08	16 16 16	in MiB 22 126 14		in MiB 22 126 14
All Results per Element BW_BRIDGE BW_BRIDGE BW_BRIDGE BW_BRIDGE BW_BRIDGE	Key Capability SAP Datasphere Tenant SAP Datasphere Tenant SAP Datasphere Tenant SAP Datasphere Tenant SAP Datasphere Tenant	T T T T T	OSM	A A A A A	Average Average Average Average	08 08 08 08 08	16 16 16 16 16	in MiB 22 126 14 12		in MiB 22 126 14 12

Sizes of individual tables for Datasphere BW Bridge and tenant



SAP Datasphere: Brownfield Sizing with SAP BW/4HANA 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

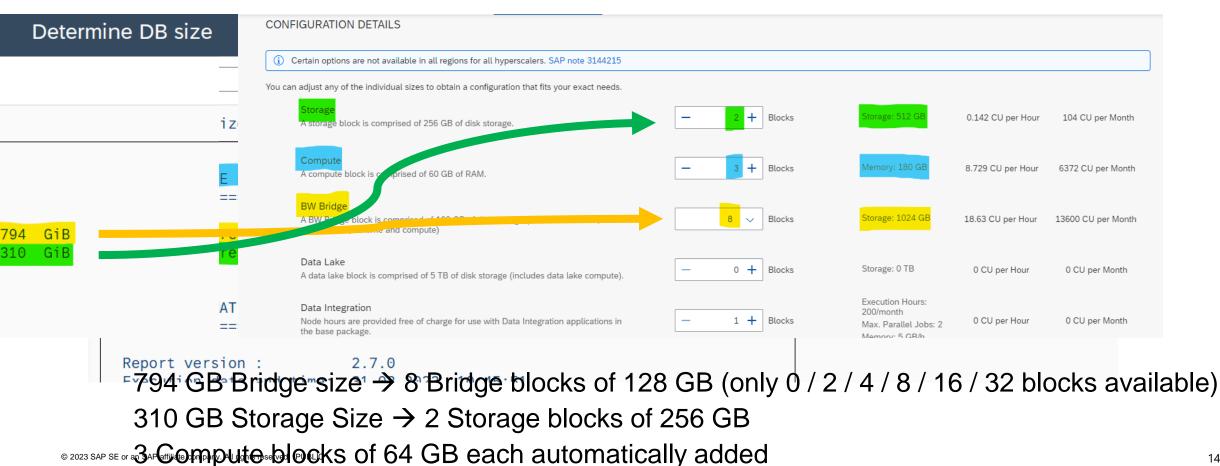
Relevant part of report selection screen:

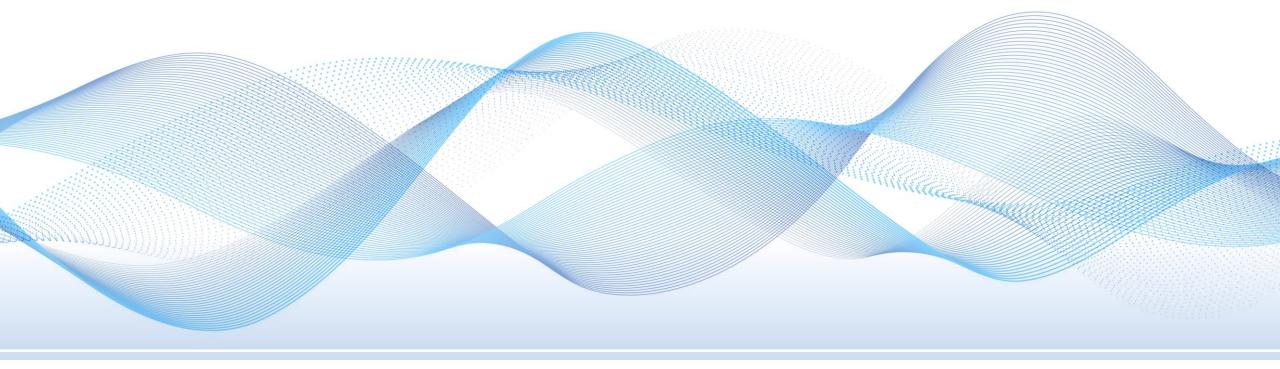
General	Cancel		Naming pattern for InfoProvider to include (Bridge)
Store output in file	X File name HA	NA_Sizing_20230331083049.txt	to include (Dridge)
Number of parallel procs	4		, to include (Bridge)
Unload inactive tables	X		
Compliant with note 2502280			Additional: Naming pattern for
Precision			Additional: Naming pattern for InfoAreas with InfoProviders to
High	0		IntoAreas with intoProviders to
Medium	0		
Low	۲		include (Bridge)
SAP Datashpere BW Bridge Sizing			Naming pattern for InfoDrovidor
Run SAP Datashpere BW Bridge Sizing			Naming pattern for InfoProvider
Include InfoProviders	/BHB/B4*	to	to exclude from above lists
Include InfoProviders from InfoArea			
Exclude InfoProviders	/BHB/B4*C*		Image (Bridge)
Reporting relevant InfoProviders	/BHB/B4REP*	to	
			Report adds dependen objects as usual

Relevant output of results:

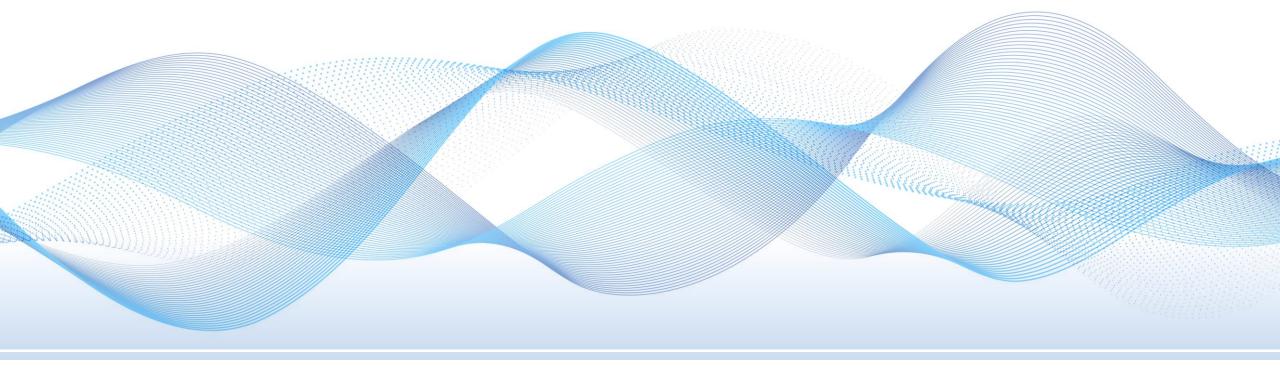
< SAP	Determine DB size relevant for BW on HANA Sizing
✓ Cancel (↑ (↓ (↓)	
Determine DB size relevant for BW on HANA Sizing	
SAP DATASPHERE SIZING ====================================	<mark>4 GiB</mark> 0 GiB
SYSTEM INFORMATION ====================================	

Relevant output of results:





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!

SAP BW Modernization

Webinar Series

Starting Sept 20th, 8am Pacific Time / 11am Eastern Time

