

What's New in SAP Datasphere Q1 Edition 2024

Product Management SAP Datasphere April 2024

Public



Agenda

01 General Product Updates

02 Updates in Data Integration and Modeling

03 Updates in CLI and Security

04 Updates on Business Content

05 Outlook



General Updates

Data center update

Enhancement

 SAP BW bridge enablement of Google data centers (GCP) EU30, IN30 and US30



Business Value

 Extend SAP Datasphere and BW bridge to additional data centers offering more options for customers

Links

Discovery Center

Data Integration

Configure real-time or delta interval for the replication flow

New Feature Enhancement

- Allow users to configure the delta load interval for replication flows based on their needs (previously fixed to 60 minutes)
- Value can be set from (near) real-time replication (= 0) up to 24h as a maximum delta load interval
- Default value will stay with the interval of 60 min / 1h
- Delta load interval can be configured on replication flow level and is valid for all added replication objects

Load Type Truncate Target Objects Search Business Name: Initial and Delta Imitial and Delta		₽₽ ©	ADLS (ADL) /demo	tings	Projections (0) Set
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	(19)	PARTNER			Initial and Delta $$
Hours (0-24): Minutes (0-59):	(19) Not Deployed	PARTNER			Initial and Delta $$

Business Value

- Allow flexibility for customers to set a desired delta interval base don their needs
- Allow customers to perform (near) real-time replication with Replication Flows

Prerequisites / Links

 <u>https://help.sap.com/docs/SAP_DATASPHERE/c8a54ee704e94e</u> <u>15926551293243fd1d/25e2bd7a70d44ac5b05e844f9e913471.ht</u> <u>ml?q=delta%20interval</u>

Task framework: allow scheduling with a frequency up to 10 minutes

New Feature Enhancement

• Allow scheduling with a frequency up to 10 minutes

Frequency			
Enter As:	Simple Schedule	\sim	At every 10 minute.
Repeat:	Minutes	$\mathbf{\vee}$	Show Runs In:
Repeat.	minutes	~	UTC 🗸
Every:	10	✓ Minute(s)	
	Reset Every Hour		Pause Schedule: O NO
Date Range for Scheduled	Runs		
Start Date:*	Jan 22, 2024		Next Runs: <u>^</u>
End Date:	No End Date	…	Jan 22, 2024 8:30:00 Jan 22, 2024 8:40:00
			Jan 22, 2024 8:50:00 Jan 22, 2024 9:00:00

Business Value

 Less need to create multiple entities to archive higher frequency

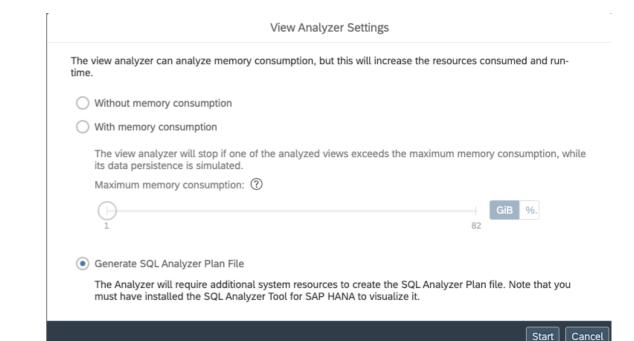
View persistency: generate SAP HANA SQL analyzer plan file (PlanViz)

New Feature Enhancement

 The view analyzer can now generate PlanViz files for download

Business Value

• Easier PlanViz creation for performance optimization



Remote tables: parameter support

New Feature Enhancement

- Support input parameter for SQL Views in Remote Tables
- Include the Remote Table Input Parameter in views

Input Para	meters (1)									
Name		Data Type								
PAR		Integer	Integer							
	Associations (0) Data: MY_PARAM_VIEW (2) Errors (0)									
	nput Parameters: PAR(2)									
MY_SMALLINT	*MY_INTEGER	MY_BIGINT	MY_SMALLDECIMAL	MY_DECIMAL_FLOAT	MY_DECIMAL_17_2	MY_REAL				
1	2	3	4	4	1.00	2				
1	2	3	4	4	1.00	2				

Business Value

Support additional source entities

Remote tables: mass validation

New Feature Enhancement

- New mass check for changes in Remote tables
- Select entire connections to check

		Validate Remote Tables	
Connection Northwind	\checkmark		
Remote Tables (10)			Search
Business Name	Technical Name	Status	Validated On
✓ Alphabetical_list_of_products	Alphabetical_list_of_products	Runtime Error	2024-01-22 10:17:42.245000000 UTC
Categories	Categories	Runtime Error	2024-01-22 10:17:51.176000000 UTC
Category_Sales_for_1997	Category_Sales_for_1997	Runtime Error	2024-01-22 10:17:58.448000000 UTC
Current_Product_Lists	Current_Product_Lists	Runtime Error	2024-01-22 10:18:05.689000000 UTC
CustomerDemographics	CustomerDemographics	Runtime Error	2024-01-22 10:18:13.989000000 UTC
Customers	Customers	Deployed	2024-01-22 10:18:21.610000000 UTC
✓ Invoices	Invoices	Deployed	2024-01-22 10:18:25.630000000 UTC
✓ Orders	Orders	Runtime Error	2024-01-22 10:22:10.312000000 UTC
✓ Orders2	Orders2	Runtime Error	2024-01-22 10:18:38.164000000 UTC
Shippers	Shippers	Deployed	2024-01-22 10:18:45.868000000 UTC

Business Value

• Simplify the check after mass changes like an update

Transformation flow SQL editor

New Feature Enhancement

- New SQL and SQL script transformation in transformation flows
- Similar to the SQL View in the Data layer
- Convert graphical view transformations into SQL view transformations



Business Value

An expert mode to create transformation with additional capabilities

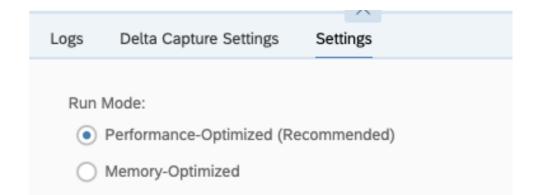
Low-memory mode for transformation flow & view persistency

New Feature Enhancement

- **Performance-optimized (recommended):** This is the recommended mode to run the transformation flow. SQL queries are processed directly in-memory. No intermediate result is stored on the disk to ensure a quicker data access and data consumption. However, this mode consumes memory resources and if your data model is very complex, it can result in an out of memory and the task failed.
- **Memory-optimized**: The mode uses an enhancement of the SAP HANA execution engine, which stores intermediate results of SQL statements on the disk. For example, you can use it when you get an out of memory error while running the task, as alternative to manual partitioning.

Business Value

- More control over the execution
- Memory consumption of SQL statements is then lower because intermediate results are not stored in-memory but are saved on the disk



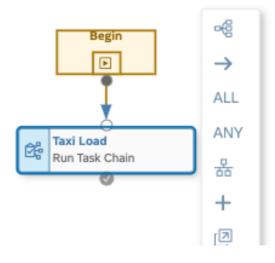
Links

 <u>https://help.sap.com/docs/SAP_DATASPHERE/be5967d099974c</u> <u>69b77f4549425ca4c0/f7da0290f5084e3db17c65b3d7c3140a.ht</u> <u>ml?q=run%20mode</u>

Task framework: allow nesting of task chains aka "meta chains"

New Feature Enhancement

Add another task chain to a task chain as child



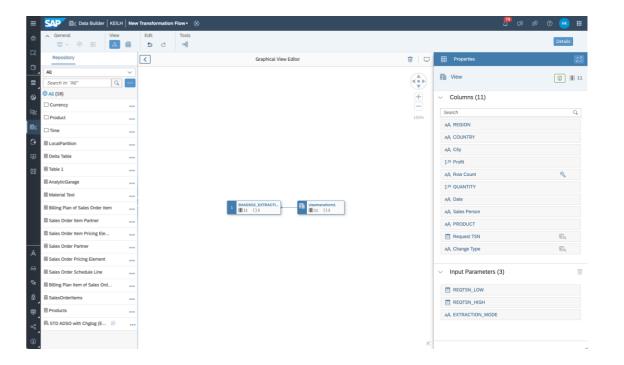
Business Value

- More modular design of task chains
- Better separation of responsibility
- Preparation for cross task chains

Transformation flow: SAP BW bridge as source

New Feature Enhancement

- Remote tables from the SAP BW bridge can now be used in transformation flows
- An advanced DSO with delta can be used as a delta source for transformation flow



Business Value

- Better integration with SAP BW bridge
- Less redundant data persistency

Modeling

Folders in repository explorer and data builder

New Feature

- Repository entities can now be structured in folders
- These support all standard folder properties like nesting, move, rename etc.
- Data builder UX aligned with repository explorer UX
 - Flexible filters
 - Rich search experience
 - Object collections
 - Table haptics minimally different with regards to sort workflow, column resize
- All editors also incorporate a revamped entity selection

😑 < 妚 🏽 Data Builder JF						480 L 19 & 0	JF III
බ Welcome to the Data Bui	lder						a
Create views and tables to prepare data	a for your stories, and use entity-relation	onship models to visualize and n	make associations between	artifacts.			
4	R Models Analytic Models Flo	ows Intelligent Lookups	Task Chains				
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Recent	Currency Text View			All	~		
My Objects	Exchange Rates Vie	ew		Search In: "SAP Currency"	Q		
Shared	Exchange Rate Typ	es View	4	③ All > □ SAP Currency (8)			
Favorites			\$	E Currency Codes View			
M_DEMO	Conversion Factors		836				
Demos	Exchange Rate Typ	e Usage View	Ē	Currency Text View	000		
] Jira	Quotations View		· · ·	Exchange Rates View	000		
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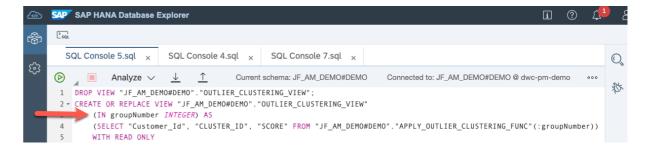
Import more metadata of open SQL objects

New Feature Enhancement

- For views in open SQL schema, input parameters are now considered during object import
 - Note: their default values are not imported, but can be defined newly in the imported entity
- For tables in open SQL schema, default values of columns and Not Null property of columns are now considered during object import

Business Value

- Increases the flexibility and interoperability SAP Datasphere modelling entities and objects in the open SQL Schema
- Parameters in open SQL view help in creating flexible and reusable logic that leverages all of SAP HANA SQL including e.g. custom procedures or SAP HANA Cloud engines for geospatial, graph or machine learning



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Input	Para	ameters (1))							
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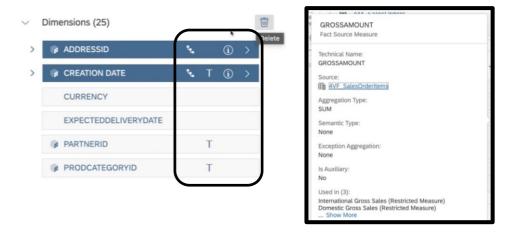
Analytic model: UX improvement to show inherited information

New Feature Enhancement

- Provide better UX for understanding measures and dimensions in analytic models by showing information that is inherited from the underlying view definitions, like
 - Data types
 - Time-dependency
 - Hierarchies
 - Semantic types
 - Exception aggregation details
 - Aggregation type
- Displayed in multiple intuitive areas
 - Listing
 - Info button
 - Properties panel
- Also new
 - "Where-used" information
 - Group delete dimensions

Business Value

 Easier to see and understand inherited modeling in analytic models



	Jsed in (3)	
-	International Gross Sales	
-7	Restricted Measure	
_	Domestic Gross Sales	
-7	Restricted Measure	
6.	Average Price	
fx	Calculated Measure	

Repository package assignment in data layer editors

New Feature

- Allow data layer modeler to assign objects to packages from the modeling screen
- Support extended to the following object types
 - Data Flows
 - Intelligent Lookups
 - Replication Flows
 - Task Chains
 - Transformation Flows

	The Properties
	× (31) III
+	 ✓ General Business Name:
100%	DF_SalesOrders Technical Name:
	DF_SalesOrders
RT_SalesOrders Source Target	Package: DataFlow_Package
	Status.
	Deployed On: 01/24/2024 16:28:52

Business Value

Enable the modeler to assign existing and new objects to repository packages

Data maintenance: support find and replace in column value of a filtered set

New Feature Enhancement

- Find & replace all occurrences in one column of a filtered set
- Change data within a few clicks
- Use feature to replace NULL values or empty fields

- Enabling business users to groom, clean and change data directly in SAP Datasphere
- Reduces the effort to get proper data for analytical use case
- Simplifies data maintenance processes and increases the efficiency of business users

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CLI & Governance

Automatic CLI CRUD integration: read, delete and list

Extension of the existing command line interface

- Allow discovery and CRUD operation on the following data builder and business builder objects
 - Local / remote tables
 - Graphical / SQL views / Intelligent Lookups
 - Analytic Models
 - Data Flows / Replication Flows
 - Task Chains
 - ER Models
 - Data Access Controls
 - Business Entities
 - Fact / Consumption Models

Business Value

- Automate tasks without the need to access the SAP Datasphere UI
- Get rid of manual, repetitive tasks

J PS C:\Users\I517990> datasphere o Usage: datasphere objects [option	
manage modeling objects	
Options: -h,help	display help for command
Commands: remote-tables [options] local-tables [options] er-models [options] views [options] task-chains [options] data-flows [options] transformation-flows [options] transformation-flows [options] data-access-controls [options] fact-models [options] consumption-models [options] intelligent-lookups [options] contexts [options]	manage remote tables manage local tables manage er models manage analytic models manage analytic models manage task chains manage task chains manage peplication flows manage peplication flows manage transformation flows manage data access controls manage data access controls manage fact models manage fact models manage consumption models manage contexts
types [options] help [command]	manage types display help for command
Only command-specific options are	listed here. To learn more about available generic options, visit https://tinyurl.com/yck8vv4w

Links

- SAP Datasphere CLI on npmjs.com
- Create / update planned in Q2 2024

User and roles management overview screen

New Feature Enhancement

- Overview about the permissions granted and scopes assigned to a user
- Filter with
 - User name
 - User ID
 - Scope Name
 - Scope ID
 - Role Name

	Search				Q	
7						î↓
Filter By	$\nabla_{\!\!\! x}$	Results (10,570)				
		User Id	User Name	Scope Id	Scope Name	Role Name
User Name						Scoped Data Warehouse Cloud Consumer
	828				xx	Scoped Data Warehouse Cloud
	337					Consumer Scoped Data Warehouse Cloud
	203				XX	Consumer
	189				XX	Scoped Data Warehouse Cloud Consumer
	Show More		10000			Scoped Data Warehouse Cloud Consumer
Scope Name						Scoped Data Warehouse Cloud Consumer
	213 178					Scoped Data Warehouse Cloud Consumer
	162		1000 C			Scoped Data Warehouse Cloud Consumer
	149 138					Scoped Data Warehouse Cloud Integrator
	Show More					Scoped Data Warehouse Cloud Consumer
Role Name						Scoped Data Warehouse Cloud Consumer
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copea bata marenouse cloud consumer	Show More	0				Scoped Data Warehouse Cloud

Business Value

 Administrators can easily see all the users, roles, and spaces in the tenant and how they relate to each other

Links

- Help Documentation

Row level security: support for boolean operators

New Feature

- Support for data access controls with operators and value pairs
- Support for complex AND and OR combinations
- Supported operators All, Is null, Not null, Equal, Not Equal, Greater than, Less than, Contains Pattern / Like, Between

Business Value

 Reduce administration effort significantly by defining groups of authorized values instead of explicitly naming every authorized value

AC_Bo	olean (DAC_Boolean)	
neral	Criteria	
Business	New	
DAC_BC		Structure
		Operator and Values
Technical DAC_Bo		Permissions Entity* DAC_Boolean_Permission
	bolean	DAC_Boolean_Permission
Package		The permissions entity must include an identifier column providing user IDs recognized by your identity provider formed as follows:
None	×	"amogh.kulkarni@sap.com" Identifier Column *
Owner		UserName (UserName)
Enter th	ne Owner of This Data Access Control	Oservane (Oservane)
Select co	lumns from the permissions entity that contain the restriction and criterion names, along with the operator	and first and second values. By default, all available criteria are applied.
Restrictio	n Column*	First Value Column*
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Links

- Help Documentation

Row level security: support for hierarchies

New Feature Enhancement

- Support for data access controls where criteria are defined as hierarchy values
- Objects with semantic usage hierarchy containing parentchild relationships are supported

neral Criteria		
Business Name	Structure	
DAC_Hierarchy	Hierarchy	
Technical Name*	Permissions Entity*	
DAC_Hierarchy	DAC_Permissions	
Package Vone V	The permissions entity must include an identifier column providing user IDs recognize your identity provider formed as follows: "amogh.kulkarni@sap.com"	ed by
Owner	Identifier Column*	
Enter the Owner of This Data Access Control	UserID (UserID) V	
riteria		
Business Name	Hierarchy Entity*	
Criterion 1	LT_CountryRegion_Hierarchy	
Technical Name*	Criterion Column	

Business Value

 Reduce administration and development effort along with flexibility in managing changes in hierarchy authorizations

Links

- Help Documentation

Business Content Q1 2024

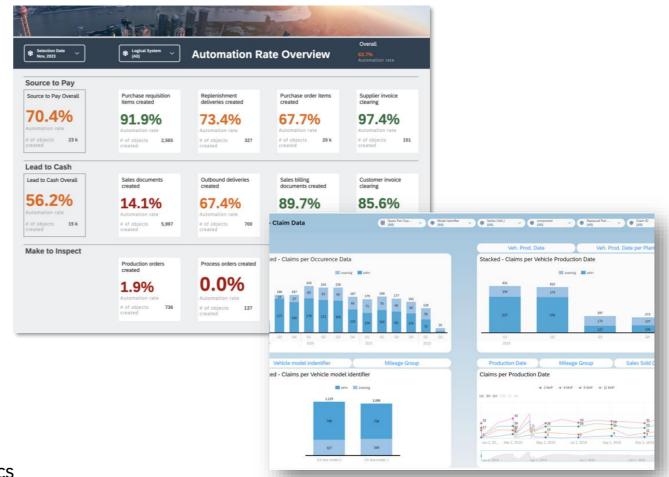
SAP Datasphere content update

New Feature / Enhancement

- Enterprise Asset Management: Plant Maintenance SAP for S/4HANA and S/4HANA Cloud
- Quality Management (Catena-X)
- SAP Signavio Process Insights
- Master Data: Hierarchies for G/L Account, Cost Center
- Datasphere Documentation @ SAP Help Portal
- Community Content (GitHub)

Business Value

- Preconfigured business content leverages SAP knowledge on integrated business processes and master data
- Content uses modeling best practices and helps to reduce implementation times and cost and accelerates the adoption
- All recent content uses latest SAP Datasphere and SAP Analytics Cloud functionalities (Analytic Model, Replication Flow, Optimized Story Experience)
- Community Content: Additional content that enhances the Business Content



Prerequisites / Links

- <u>SAP Datasphere content Documentation</u>
- SAP Datasphere content Community page
- <u>SAP Community Content GitHub</u>

Content for SAP Analytics Cloud and SAP Datasphere: Enterprise Asset Management: Plant Maintenance Analysis for SAP S/4HANA

The Plant Maintenance Analysis content focuses on maintenance orders and on maintenance notifications with their related causes, activities and tasks.

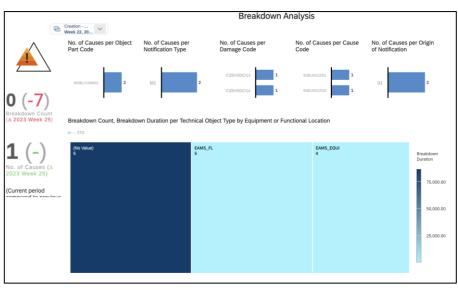
Plant Maintenance Analysis:

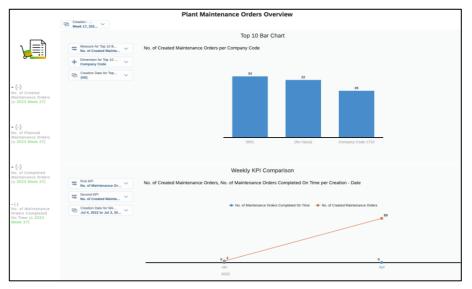
- Analyze data on maintenance notifications based on various key figures
- Get an overview and insights into maintenance notification tasks, causes and activities on a weekly basis
- Analyze maintenance orders on characteristics like unplanned, outstanding or timely completed orders using timeline charts
- Get insights in maintenance cost based on baseline-, planned-, actual- and estimated cost New
- Show maintenance order operations per Work Center and Plant New
- Technical object breakdown per plants, technical objects, notification types and more
- Breakdown analysis among other things for damages, causes, objects and location

Data Connectivity:

SAP Datasphere live connection (connected to S/4HANA or SAP S/4HANA Cloud)

This package includes SAP Datasphere data models for maintenance orders, maintenance order operations and costs (New), maintenance notifications and maintenance notification items, causes, activities and tasks.





Content for SAP Analytics Cloud and SAP Datasphere: **SAP Signavio Process Insights** Days P

Business Requirement:

Management roles and process experts need to have easy-to-consume process performance data available at different levels of their organization.

A **company-wide visibility** of process data is as decisive for our customers as a **breakdown** by key dimensions steering their business.

As business changes daily, process performance evolution needs to be available via time trends.

Solution:

The analytical content delivered in SAP Datasphere and SAP Analytics Cloud builds on multiple process metrics from SAP Signavio Process Insights.

It lifts the insights into core processes to a new level by offering performance analysis

- on a corporate overview level, allowing executive management steering
- a deep dive by freely selectable key entities to **highlight process deviations** inside the organization and
- a trend analysis to understand the past and steer the future

Scope:

Process Performance Indicators covered by this analytical content include

- Days Payable Outstanding Supplier Invoice Issuing with Purchase Order
- Days Sales Outstanding Sales Billing Document Creation to FI-AR Clearing
- Automation Rate Overview & Detailed Analysis New
 - Source to Pay
 - Lead to Cash
 - Make to Inspect

Data Connectivity:

The story is based on a SAP Datasphere live connection (based on an OData API of SAP Signavio Process Insights).

ices indicate how n	e Outstanding - Supplie nuch a metric has changed since the previous of		vith Pur	chase Orders			SAP Signavi	0,2		
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Early payment	Measures									
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0.0	Days sales outstanding		1.0 days	-	-	0.0 days	0.3 days	0.0 days	6.8 days	
	% FI-AR items cleared (documents)		4,8%	0.0%	0.0%	99.6%	18.8%	1.0%	100.0%	
	% Sales billing documents manually cre	ated (documents)	100.0%	50.0%	100.0%	1.0%	100.0%	11.196	100.0%	
	% Late payments (documents)		4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	
	% Open and overdue FI-AR items (docu	ments)	76.2%	100.0%	50.0%	0.1%	56.3%	29.3%	0.0%	
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Content for SAP Analytics Cloud and SAP Datasphere: **SAP Quality Management**

Business Value

Collaborate effectively along the supply chain in order to prevent, detect and remediate quality issues.

Key-Features

- Data Management & Exchange to consolidate quality data from multiple systems
- Reporting & Monitoring of quality data to identify emerging issues
- Easy-to-execute Machine Learning delivering reportable insights
- Core Catena-X principles: Data Sovereignty and Interoperability

Solution

The analytical content delivered in SAP Datasphere and SAP Analytics Cloud builds on standardized Catena-X datasets that enable the consumer to analyze quality related issues.

- On the Overview Team lead level the consumer gets comprehensive summary of all relevant quality issues
- On the Quality Engineer Diagnose dashboard the consumer can extensively analyze all diagnostic data sent from the car fleet
- On the Quality Engineer Claim dashboard the consumer gets an detailed overview of all identified claims

Detect defects up to 10 weeks earlier

Reduce warranty claims by up to



Reduce financial accruals for future recalls by up to 20%

2,211

Replaced Par 2,211

Number of unique I 50,000

50,000 Number of Q-tas

50,000

Earliest Date : Apr 7, 2019 test Date : May 2, 2022



SAP Datasphere Content – Overview all SAP packages

- SAP Ariba: Enterprise Analytics for Procurement
- SAP Ariba: Spend Analysis
- SAP Automotive: Responsive Supply Network, Sales and Inventory
- SAP Business Networks Value Analytics
- SAP Consumer Products: Revenue Growth Management -Foundation
- Finance Foundation for SAP S/4HANA and SAP S/4HANA Cloud (*) •
- Financial Analytics Dashboard for SAP Analytics Cloud
- SAP Monitoring Content (Data Integration Tasks)
- SAP Retail: POS Analytics

(*) Datasphere Content Foundation

- Quality Management
- Sales Analysis for SAP S/4HANA and SAP S/4HANA Cloud (*)
- Service Analysis for SAP S/4HANA and SAP S/4HANA Cloud (*)
- SAP Signavio Process Insights
- Solution Order Analysis for SAP S/4HANA Cloud^(*)
- Statistical Process Control (SPC) Toolkit
- SAP Supply Chain Management: Life Sciences Dashboard
- SAP Sustainability Control Tower Integration
 - SAP Telecommunication: Customer Value Management (CVM)
- SAP Utilities: Meter to Cash
- Working Capital Dashboard for SAP S/4HANA and SAP S/4HANA Cloud

Thank you

Contact information:

content.sapdatasphere@sap.com





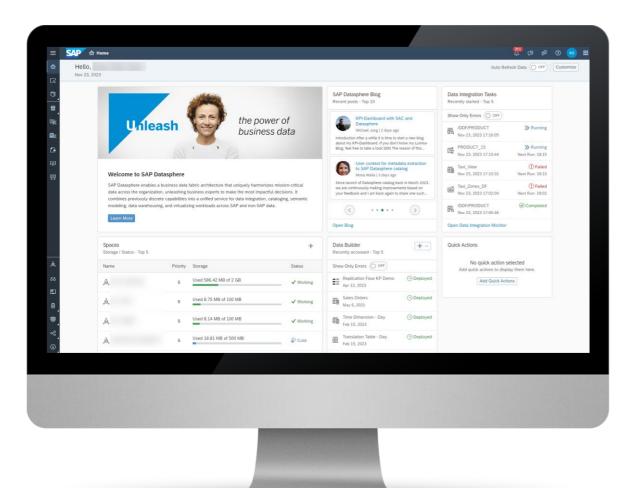
Upcoming Innovations



	Q2 2	Future				
Support Confluent Kafka as target (Q2) and source (Q3) in	Scheduling of Replication Flows and use cloud object	Define stable objects with Compatibility	Expanding Data center Cloud Platform and Micr		Adding objects beyond relational data to Data Products in Data Marketplace (2025).	
replication Flows.	stores as a source while enabling flexible scalability.	Contracts including lifecycle management.	Catalog Metadata extraction for SAP	Semantic Onboarding support for SAP HANA Cloud		
Support for use of local tables with	License-specific data		BW bridge.	calculation view.	Stacking of	
delta capture as sources in Replication Flows with delta and initial	selection for Data Marketplace also via CLI.	Introduction of Namespaces for modeling entities (Q4).	Analytic Model repointing in SAP Analytics Cloud Stories.	Catalog expanding crawling reach to SAP BW, SAP	Analytic Models with central measure definition and Support for display and navigation attributes	
load support.	Command line	Support Non-Cumulati	we Key figures and	S/4HANA, SAP ECC, and SAP HANA.		
Make the SCIM API	interface CRUD for data builder and business layer	further SAP BW, SAP BW		Enabling GenAl	Direct Multi-Fact modeling and Business Layer support in the Analytic Model.	
available.	objects.	Translation	On demand	through API first and accelerating		
Direct access to the OD editor (analytic model, v		dashboard for multilingual content support.	compute during peak consumption scenarios.	business outcomes through e.g. automated modeling.		

Public

More information



- Check out the product page on <u>sap.com</u> and get access to a <u>guided experience trial</u> system
- Get started with <u>documents & videos</u>
- Use the <u>tutorials</u> and our <u>learning journey</u> to learn more
- Stay updated using the <u>release navigator</u>
- Join the <u>community</u> and check out the <u>best practices</u> recommendations
- Add your ideas and requests for new features on the <u>SAP Datasphere customer influence</u>
- Online Documentation on <u>SAP help</u>

Thank you.

Contact information:

Your Product Management Team for SAP Datasphere

