What's New in SAP Datasphere Q3 Edition 2024

Product Management SAP Datasphere
October 2024
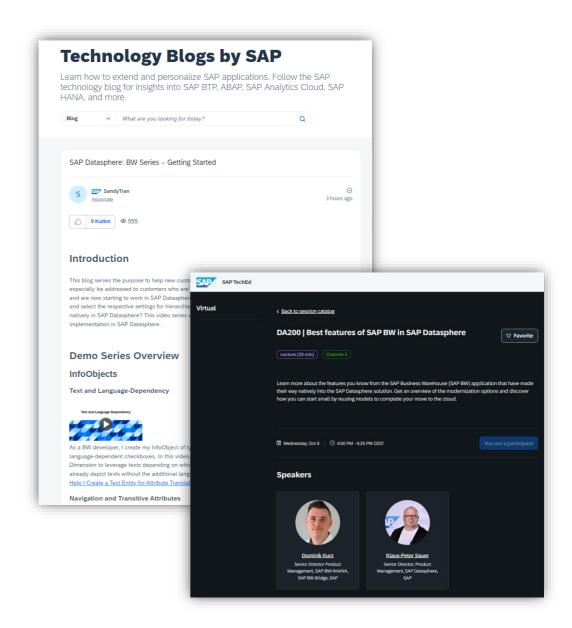
Public

Agenda

Public

General Updates

SAP Datasphere – BW Series Blog

Introduction of a new video series by Sandy Tran covering BW objects as a starting point as well as BW use cases and how to natively implement them in SAP Datasphere:

- [SAP Blog | SAP Datasphere: BW Series - Getting Started](#) (incl. demo videos)

- SAP TechEd Session Oct 9th 2024 4pm CEST [DA200 - Best features of SAP BW in SAP Datasphere](#)
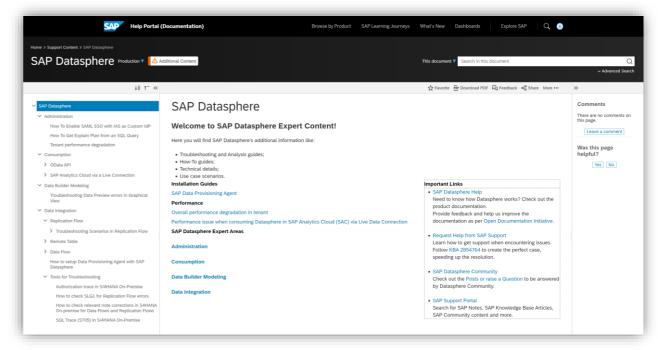
NEW: SAP Help Support Content

You will find SAP Datasphere's additional information:

- Troubleshooting and Analysis guides

- How-To guides

- Technical details

- Use case scenarios

https://help.sap.com/docs/SUPPORT_CONTENT/datasphere/4181116697.html

Transport Management

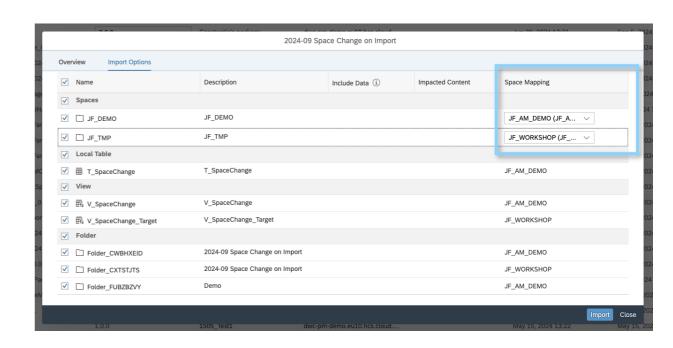# Transporting Content - Change Space on Import

New Feature / Enhancement

- Space assignment of objects can now be changed during import
- If objects exist, they'll be updated. If not, they'll be created
- Import into other spaces of same tenant is supported
- Spaces cannot be merged, i.e. objects that came from different spaces need to be imported into different spaces also

Business Value

Feature unlocks many new scenarios

- Create several copies of same entities in separate spaces of same tenant, e.g.
  - Transport between DEV space, QA space & PROD space of same tenant
  - Create several instances of same entities, but leveraging different connections (ERP1, ERP2)
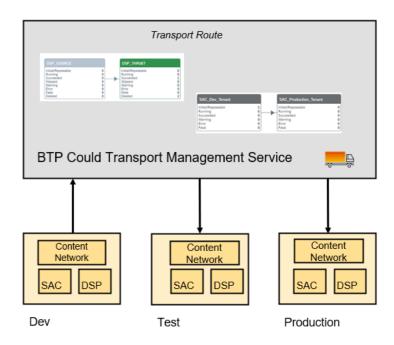
- Use SAP Content in any space

Cloud Transport Management service (cTMS) integration with Content Network Transport

New Feature

- SAP Datasphere Transport integration with BTP Cloud Transport Management Service

Business Value

- Unified Transport Management (SAP Analytics Cloud, SAP Datasphere, SAP HANA Cloud)

- Landscape definition

- Automated Scheduling

- Separation of Concern

- Transport across different Landscape

Prerequisites / Links

- Blog : [SAP Datasphere cTMS Integration](#)
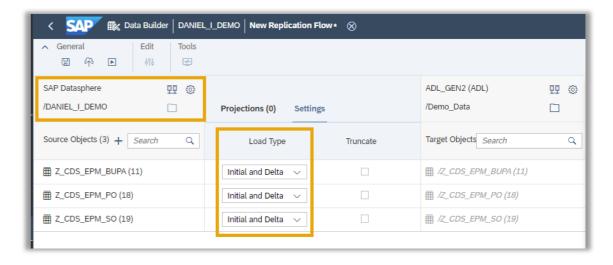
Data Integration

Replication Flow: Support Delta enabled local table as a source with "Initial and delta"
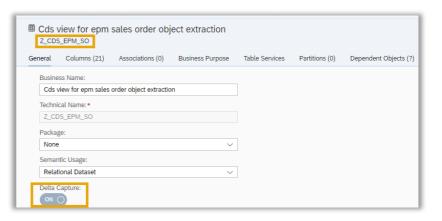
New Feature / Enhancement

- Users can leverage delta load capabilities when using SAP Datasphere as source in replication flows by using load type initial + delta
  Previously, only initial load / full load was supported

- Delta load capabilities are only available for local tables using delta capture

- Delta mechanism for data replication is based on the new watermark handling that is used for local tables with delta capture

Business Value

- Improve data distribution scenarios when replicating data from SAP Datasphere to other target systems

- Improve end-2-end data integration when using replication & transformation flow in combination for
  inbound data ingestion -> transformation -> outbound replication
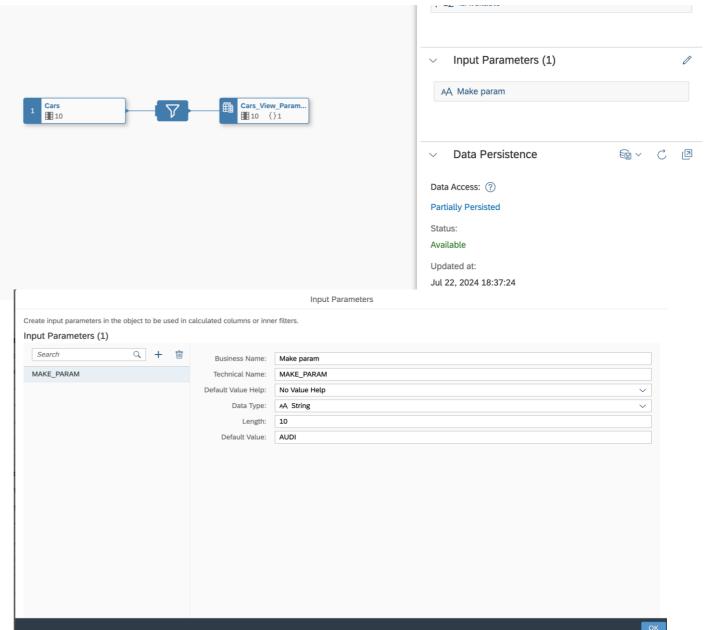
View Persistency for parameterized Views

New Feature / Enhancement

- The ability to persist views based on an input parameter

Business Value

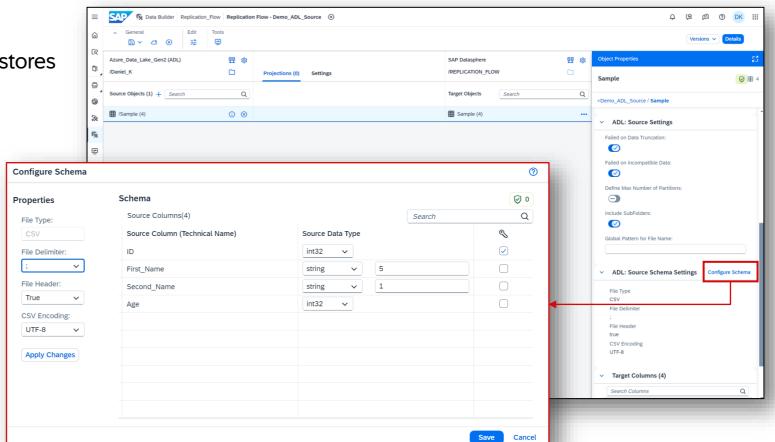- Views can be partially persisted based on the provided input parameter

Enable object store connections as replication flow source

New Feature / Enhancement

- Support initial load of CSV files from object stores
- Supported object stores:
  - SAP HANA Cloud, data lake files
  - Amazon Simple Storage Service (S3)
  - Google Cloud Storage
  - Microsoft Azure Data Lake Gen2

- Configuration options for
  - Data Truncation behavior
  - Incompatible Data
  - Max Number of Partitions
  - Glob Patterns for file matching

Business Value

- Enable mass data replication of CSV data from object stores

Prerequisites / Links

- [SAP Help Documentation](#)
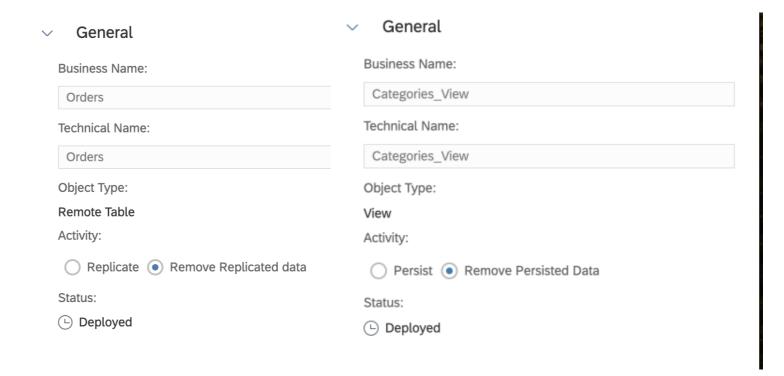- File Matching via [Glob Patterns](#)

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Task Chains: Remove persisted data as tasks in task chain

New Feature / Enhancement

- New activities in Task Chains:
  - Remove Replicated data in Remote Tables
  - Remove Persisted data in View persistency

Business Value

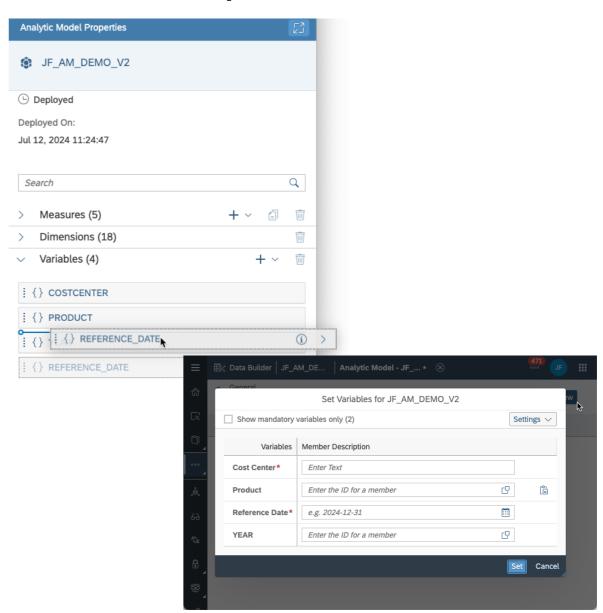- More task automation

Modeling & Consumption

Analytic Model - Define Order of Variables in User Prompts

New Feature / Enhancement

- Change the order of variables in the Analytic Model editor via drag & drop
- Data Preview & SAP Analytics Cloud will use exactly this order in their variable prompt dialogs
- New variables are placed at the end of the list
- Deletion of variables updates the order

Business Value

- Full flexibility in presenting variables to business users in the most meaningful way
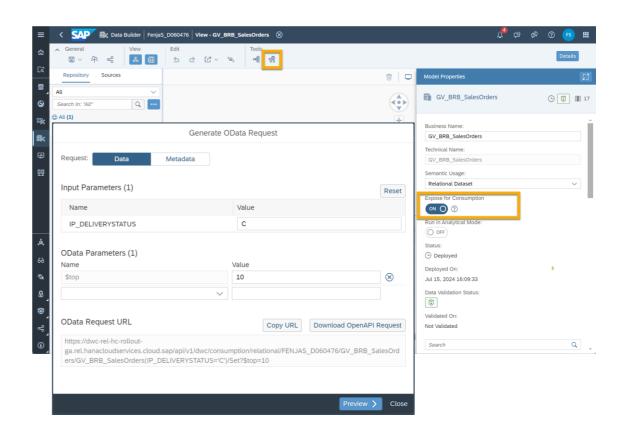
OData API Editor – Quick Access from Data Builder

New Feature / Enhancement

- Introduction of editor for OData requests in modeler
- Easy generation of request URL
- Model input parameters and OData parameters can be applied
- Preview of OData response in UI
- Requests for data and metadata of view/ model
- Download request to use in other tools

Business Value

- New editor provides easy access to create oData requests, apply filters and preview the response directly in Datasphere
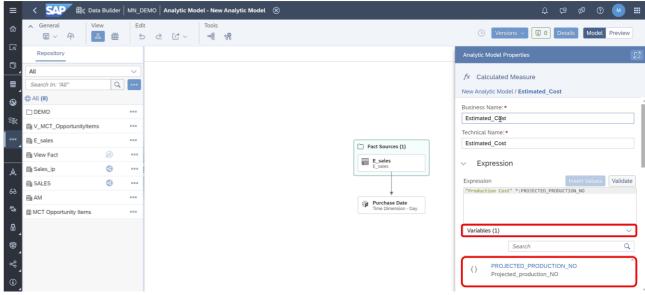

Prerequisites

- View/ Analytic Model is exposed for consumption

Support Variables in Calculated Measures
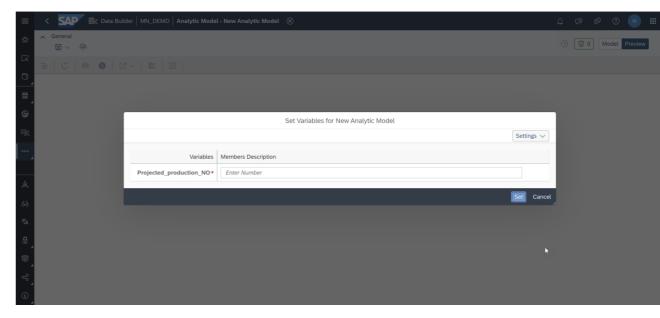

New Feature / Enhancement

- Enabling modelers to directly incorporate variables into their calculated measures, offering advanced flexibility and precision in data analysis

Business Value

- Enhanced customization to support the forecast and planning
- Variables let stakeholders input their own assumptions and explore their impact, enhancing collaborative decision-making

Public

Analytic Model: Diagram Improvements

New Feature / Enhancement

- Introduction of new layout with an option to align left-to-right
- Highlight of the selected node
- Improved diagram experience when there is a change of node

Business Value

- New layout provides an intuitive user experience which is consistent with reading patterns and logical flow
- Changes in addition or deletion of nodes are reflected seamlessly in the diagram

Analytic Model: Builder Improvements
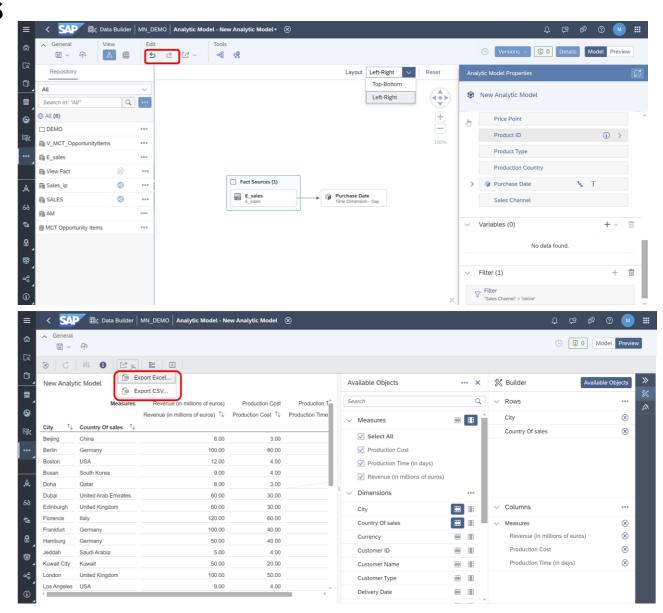
New Feature / Enhancement

- Support of Undo/Redo in Analytic Model Editor
- Analytic Model previews can now be downloaded in Excel or CSV format

Business Value

- Undo/Redo can improve the overall productivity and efficiency, leading to an enhanced user experience
- Exportability fosters an environment for customized analysis and enhances collaboration among teams and partners

Compatibility Contracts with object release states

New Feature / Enhancement

- Mark Views (Graphical & SQL) with release status

- Set successor objects when Deprecating

- Cannot Decommission for 2 years after Deprecation

- Prevents breaking changes on Released Objects:

  - Incompatible change to underlaying object does not change a stable view

    – Notification when changing underlying object

Business Value

- Ensures Released Objects stay stable for data consumers

- Provides visibility into breaking changes in underlying views
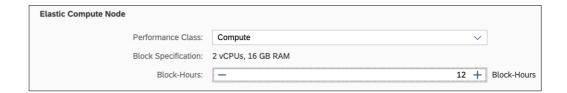
Administration & Governance
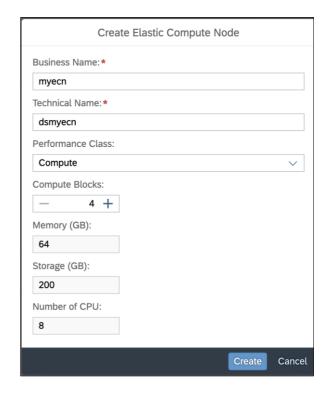
Elastic Compute Nodes

New Feature / Enhancement

- Add additional compute resources to existing SAP Datasphere tenants on-demand
- Schedule in advance or start Elastic Compute Nodes (ECN) on demand to serve SAP Analytics Cloud query workload from one or more selected spaces
- Supported ECN sizes –
  - Memory – 64 GB, 128 GB, 192 GB, 256 GB
  - Performance Classes – Memory, Compute, High Compute

Business Value

- Enable customers to size a smaller average system and leverage Elastic Compute Nodes for peak performance needs

Outlook

SAP Datasphere
Upcoming Innovations

Q4 2024	2025 Q1 & beyond

Semantic Onboarding import for SAP HANA Cloud calculation views and support for input parameters.

Use **SAP Datasphere data as source for SAP BW bridge.**

Task chain sharing to enable **global task chains** and integrating process chains from SAP BW bridge.

Additional error messages displayed in **replication flow monitoring**.

Enhancing the **model validation framework** with checks on referential integrity and consistency of associations.

Supporting live patching of delta interval for running **replication flows**.

Support Confluent Kafka (Q4) and MS SQL (2025) as a **new sources in replication flows**.

Introduction of **logical space deletion** to enable restore of accidental deletions.

Expanding **Data center coverage** with Google Cloud Platform and Microsoft Azure.

License-specific data selection also via CLI for Data Marketplace.

Stacking of Analytic Models with central measure definition.

Extending the **view analyzer with active guidance** on which view to persist in complex view stacks.

GenAI-assisted search and generated catalog asset descriptions and classifications (Q1).

Enable **catalog** discovery for data products from SAP applications (Q1).

SAP Signavio as a target in replication flows (Q1).

Ability to call **REST APIs** as a task **in task chains** with async & sync modes (Q1).

Catalog expanding crawling reach to SAP S/4HANA, SAP HANA Cloud, and SAP ECC.

Custom home-screen card (Q2).

Allow reuse of source data sets in multiple **replication flows** and supporting views as a data source (Q2).

Versioning support for data layer entities (Q2).

Allow **export/import of replication flow** design time artifacts and support new load type **delta only** (Q3).
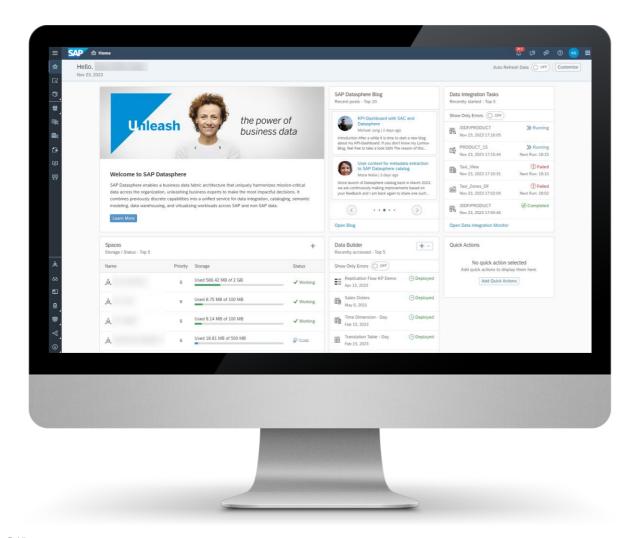
Support Google Big Query as a **new source in replication flows**.

Enablement of **multiple availability zones**.

Sharing of dependent entities.

Introduction of **Namespaces** for modeling entities.

Public

Check out the full product roadmap on the SAP Road Map Explorer: https://url.sap/rq3ryk

More information

- Check out the product page on sap.com and get access to a basic trial system

- Get started with SAP Datasphere components, concepts, and the video library

- Use the tutorials and our learning journey to learn more

- Stay updated using the release navigator

- Join the community and check out the best practices recommendations

- Add your ideas and requests for new features on the SAP Datasphere customer influence

- Online Documentation on SAP Help and support content for troubleshooting & analysis

Thank you.

Contact information:

Your Product Management Team for
SAP Datasphere