

# Collibra – SQL Server Analysis Services (SSAS) & Azure Analysis Services (AAS) Integrations

## Overview

Lucid’s Collibra SSAS Integration ingests metadata for the SSAS Tabular model into Collibra DGC.

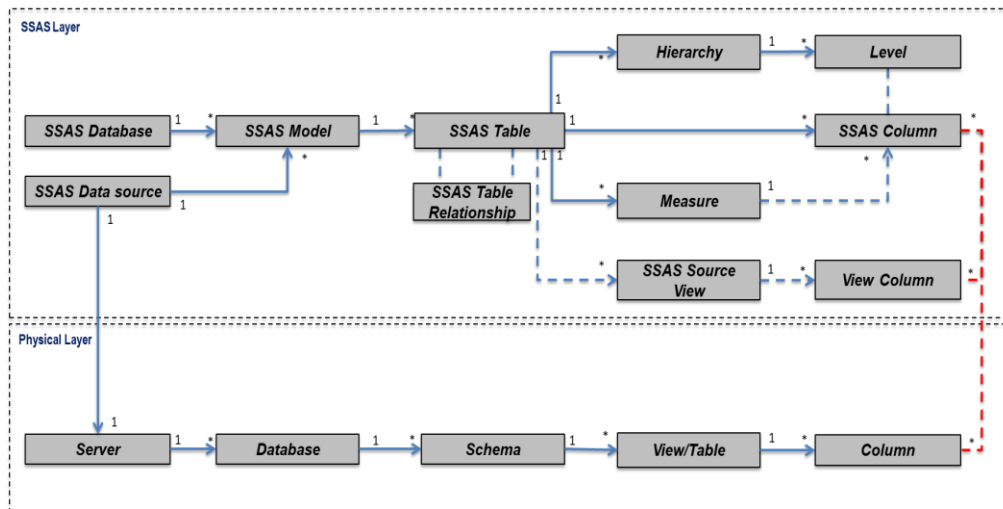
Some key features:

- Asset extraction can be filtered based on SSAS Server name, SSAS Database, Model Name and Model Type (only ‘SSAS Tabular model’ is supported in this version)
- Target community in DGC for the assets to be loaded, can be specified during load
- Source metadata is mapped to DGC asset types as indicated in the diagram below
- Extended metadata can be captured from annotations for SSAS models as attributes and relations in Collibra DGC
- Modification and Delete of the source (SSAS) objects are automatically captured and can be used to trigger actions in DGC such as asset status change, asset management workflows, etc.
- Support for full load and incremental load. Incremental loads can load changes since the last successful execution or from a specific date passed as a parameter
- Metadata loads can be scheduled or triggered on-demand

**SSAS versions Supported:** SQL Server 2016, SQL Server 2017\*, SQL Server 2019\*, Azure Analysis Services\*;  
 (Compatibility levels supported: 1200, 1400, 1500 across versions)

*\*Only specific Data Source types are supported (refer data sources not supported in the Unsupported Features section below)*

### SSAS ASSETS AND RELATIONS IN DGC



**Note** – The Physical Layer will not be loaded by the SSAS template. It must be loaded separately using Collibra Catalog or via Lucid’s Database templates. Lines in red will be shown as part of the Traceability view in DGC. If the SSAS Table uses a SQL query, lineage will be shown to the SSAS Source View/View Column in the SSAS Layer else will be shown till the Column in the Physical Layer

## Key Use case(s)

- Enable column-level lineage for platforms that use the SSAS Tabular model as data sources (e.g. Reporting/BI tools). Lineage can be traced back right to the data sources of the SSAS Tabular model
- Ability to do impact analysis for changes to the SSAS Tabular model
- Certification of SSAS Tabular Models for use in Reporting / Analytics

## Version

3.0

## Release Notes

- Support for extracting and loading the following SSAS Tabular model assets: SSAS Database, Model, Tables, Columns, Measures, Hierarchies and Relationships
- Link to underlying relational database objects as captured from SSAS metadata - metadata of the actual underlying database/ physical data source should be loaded using Collibra Catalog (ingested using Job server only) or Lucid's database integrations or other integration solutions
- Support for the following SSAS data sources:
  - ODBC connections like SAP HANA
  - SQL server
  - Teradata
  - Oracle
  - SAP HANA (native)
  - SSAS Tabular Model
- Support for SSAS Model using another SSAS Model as a data source
- Support for extended metadata: ingest custom attributes and relations from SSAS Annotations
- Calculated columns/measures that use DAX expressions (Data Analysis eXpressions) will be parsed to identify dependencies
- Support for Azure Analysis Services (AAS) – compatibility level 1500
- Support for SSAS 2019 (only specific Data Source types) – compatibility level 1500
- Support for Calculation groups in SSAS 2019
- Support for Many-to-Many relation between Dimensions and Facts in SSAS 2019
- Support for Ragged hierarchies from SSAS 2017 onwards
- A flag - "Is Partially Loaded", added to the assets to denote if the ingested assets' mandatory characteristics are available or not
- Email notification for Execution Summary including status and asset counts
- REST APIs secured with Basic authentication
- All configurable properties for the integration managed in DGC using custom configuration assets
- Support for using custom certificates while connecting to DGC
- Alignment to Collibra Catalog asset nomenclature (including Full Name and Display Name)

## Unsupported Features:

- SSAS Multidimensional Model

- Perspectives
- Actions
- Parsing of MDX scripts
- Parsing of Formulae in KPIs
- Data Services as sources instead of direct DB connection
- DAX Functions released after Nov 2018 will only be extracted as is and will not be parsed
- DAX expressions are not parsed/evaluated for objects other than calculated columns and measures
- Power Query M language / expression parsing is not supported

## Editions and feature comparison

The Standard edition of the integration is offered on an annual subscription. A free trial<sup>#</sup> is also available.

Feature	Trial	Standard
Licensing	Free	Annual Subscription
Validity Period	15 days	1-year
Support for Functional Features	All listed in Release Notes	All listed in Release Notes
Number of deployments allowed	1 Non-Prod	1 Prod + 1 Non- Prod (Target DGC instance)
Limit on number of assets loaded	Yes	No
Documentation (1) Installation & Configuration Guide (2) Support Guide	Yes	Yes
Training included: 2 hours of virtual sessions for install/config (or) troubleshooting	No	Yes
Helpdesk/Support	No	Email-based support (Request logged through Support Portal - <a href="https://lucidtechsol.freshdesk.com/support/login">https://lucidtechsol.freshdesk.com/support/login</a> )
Support response SLA	NA	1 business day
Custom Extensions	NA	Not supported*
Pricing	NA	Contact Lucid

*\* No custom extensions requests are supported as part of the subscriptions, however, can be separately considered for a one-time fee, with on-going support part of the subscription.*

## Prerequisites / Dependencies

Prerequisites for this integration with the product versions currently supported:

- Lucid Easy Connections v2 Metadata Integration Platform for Collibra
- HTTP access to Analysis Services using the MSMDPUMP.dll ISAPI extension on IIS - <https://docs.microsoft.com/en-us/sql/analysis-services/instances/configure-http-access-to-analysis-services-on-iis-8-0?view=sql-server-2017>
- Collibra Data Governance Centre v5.7.x , Collibra Cloud

**Note:** The integration has been tested and certified by Lucid to work against specific versions of Collibra and the Metadata source system. As newer versions of Collibra and the metadata source system are released, Lucid will test and certify the integration as part of support. Please note if Collibra or the metadata source system fundamentally change their approach on how metadata is exposed, extracted or ingested, enhancing the integration to support these newer approaches might not always be possible, in which case the current subscription may not automatically support the new version. However, Lucid will make all efforts to provide an upgrade option to support the new versions at the earliest.

## Demo video

- Visit <https://youtu.be/-oUPAgmVyG4>

## To Subscribe / know more / request a demo

- Email us at : [collibrainfo@lucidtechsol.com](mailto:collibrainfo@lucidtechsol.com)