# ATSCALE

# Modernize Your SSAS-based Analytics Environment with AtScale

AtScale offers a "no data movement" direct query architecture that works across cloud data platforms and with your choice of BI tools to deliver the insights you need without all the friction

Microsoft SQL Server Analysis (SSAS) is Microsoft's solution for delivering Online Analytical Processing (OLAP) solutions. As a multi-dimensional interface, OLAP is preferred by business users over writing SQL queries, delivers "speed of thought" queries and frees users from manual data engineering tasks. However, there are some major challenges using SSAS to scale and modernize your analytics initiatives. SSAS doesn't integrate well with many of the new technologies and modern data practices and inhibits the transition to cloud-based analytics beyond Microsoft Azure. SSAS also has troubles scaling with today data sizes and requires data movement and duplication

## The AtScale Difference:
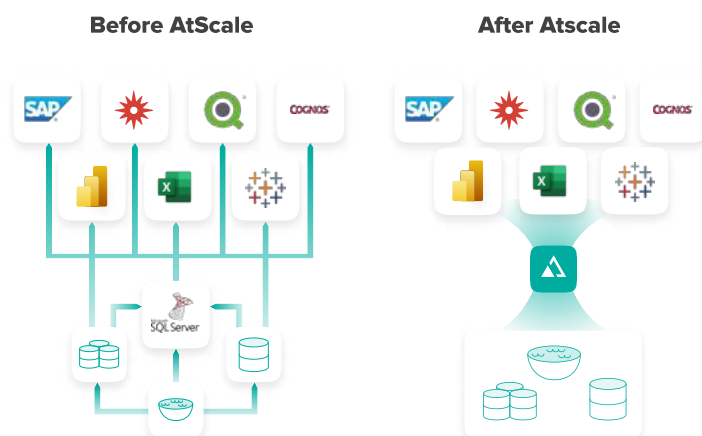## The Best of SSAS Without the Baggage

With AtScale, you can scale up and modernize your business intelligence (BI) infrastructure while keeping SSAS's strong multidimensional functionality. Instead of moving data, AtScale leverages the underlying data platforms as the primary engines for analytics. So wherever the data exists Hadoop, a cloud data warehouse, or an on premises data warehouse, it can stay there. AtScale provides an analytics semantic layer that automatically manages performance and makes any data platform perform like a high speed OLAP engine. AtScale joins data from multiple data platforms to deliver one single source of truth for BI and analytics tools. AtScale eliminates the inherent scaling issues with SSAS MD/Tabular and eliminates cube builds by replacing SSAS's physical cube with a virtual cube. Moreover, AtScale is the only solution to provide a live DAX interface for Power BI to deliver the superior performance for cloud data warehouses like Snowflake, Google BigQuery and Amazon Redshift.



Before AtScale          After Atscale

### AtScale Adaptive Analytics vs. Microsoft SSAS

- No cubes to build
- No data to move
- No data latency to endure
- No data fidelity to lose
- No limitations to scale (memory or storage)
- No migration to tabular models required

### PRODUCT OVERVIEW

AtScale provides the premier multidimensional analytics platform for cloud data architecture modernization. AtScale Adaptive Analytics connects you to live data using one set of semantics without having to move any data. Leveraging AtScale's Autonomous Data Engineering™, query performance is improved by order of magnitude. AtScale inherits native security and provides additional governance and security controls to enable self-service analytics with consistency, safety and control. AtScale's intuitive data modeling enables access to new data sources and platforms without ETL and or needing to call in data engineering.

AtScale delivers fast, multi-dimensional, secured and governed data access without data movement. Only AtScale virtualizes data platforms, combining BI with artificial intelligence (AI) with a universal semantic layer, to provide one single view of data.

## AtScale advantages over SSAS include:

- **Works directly on any data platform -** Hadoop, Snowflake, BigQuery, Redshift, Azure Synapse SQL, Postgres and more - without the need to extract data and build a physical cube-like SSAS

- **Scales with your data platform** rather than requiring you to provision a separate environment for hosting your cubes like SSAS

- **Handles any amount of data** because AtScale doesn't require that you precompute every possible combination of dimensions and measures

- **Supports multidimensional models** (SSAS MD) so there's no need to port your cubes to tabular models

- **Supports Tableau** and Looker via a JDBC SQL interface

- **Doesn't require ETL** as AtScale models cubes virtually without data engineering

- **Supports business intelligence** and data science workloads via AtScale's AI-Link tm

- **Handles data** in different data stores and locations via data virtualization

- **Can be deployed** in any Linux ecosystem either on-premise or in the cloud

| FEATURE | ATSCALE | SSAS |
|---|---|---|
| **Scale** | Scales with underlying data platform | Limited to SSAS server resources |
| **Interface** | XMLA, SQL, REST, DAX | XMLA, DAX |
| **Data movement** | No | Yes |
| **Data fidelity** | Atomic, Aggregated | Aggregated |
| **Modeling** | MD & Tabular in one | Separate products for MD vs. Tabular |
| **Development** | Web based, multi-use | Desktop, single user |

### ABOUT ATSCALE

AtScale enables smarter decision-making by accelerating the flow of data-driven insights. The company's Analytics Semantic Layer platform simplifies, accelerates, and extends business intelligence and data science capabilities for enterprise customers across all industries.

For more information, visit www.atscale.com