Solution:
Data Architecture Modernization

AtScale A3 vs. Microsoft SSAS

- No cubes to build
- No data latency to endure
- No limitations to scale
- No data to move
- No data fidelity to lose
- No OLAP experts to hire

Product Overview

AtScale provides the premier adaptive analytics platform for data architecture modernization. AtScale Adaptive Analytics (A3) connects you to live data using one set of semantics -- without the need to move data. Leveraging AtScale's Autonomous Data Engineering, A3 improves query performance from minutes or hours to seconds—automatically optimizing queries using machine learning based on user behaviors. A3 inherits native security and provides additional governance and security controls to enable self-service analytics with consistency, safety and control. By minimizing ETL and avoiding data engineering, AtScale's Intelligent Data Virtualization™ and intuitive data modeling enables access to new data sources and platforms in minutes, not weeks or months.

Modernize Your SSAS-Based Analytics Environment With AtScale Adaptive Analytics

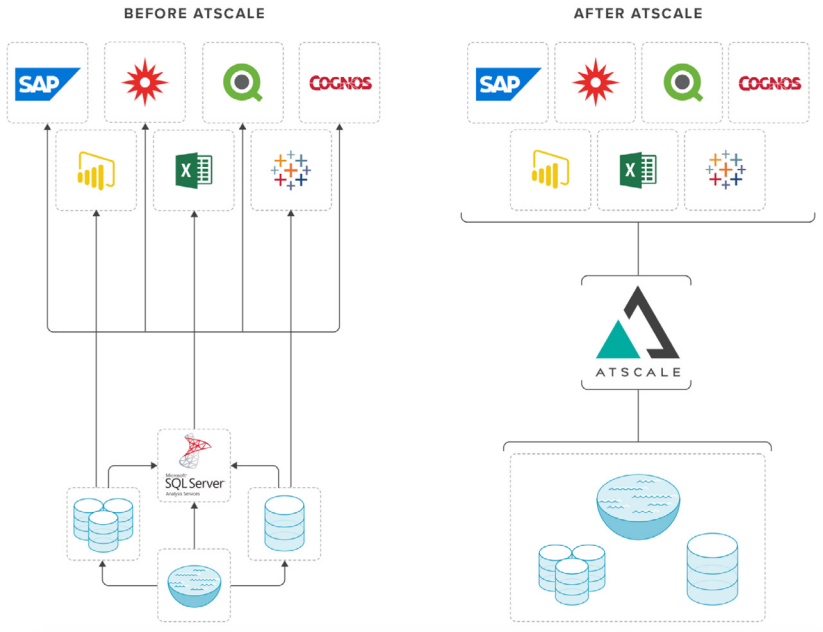
A "no data movement," direct query architecture that works with data lake & data warehouse platforms and BI & analytics tools to deliver the insights you need without all the friction

Microsoft SQL Server Analysis Services (SSAS) is Microsoft's solution for delivering Online Analytical Processing (OLAP) solutions. A multi-dimensional interface, OLAP, is preferred by business users over writing raw SQL queries, delivers speed of thought queries and 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.

The AtScale Difference: The Best of SSAS Without the Baggage

With AtScale's Adaptive Analytics (A3) Fabric, 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-premise data warehouse – it can stay there. A3 provides a universal semantic layer that automatically manages performance and makes any data platform perform like a high speed OLAP engine. A3 joins data from multiple data platforms – on-premise and in the cloud – to deliver one single source of truth for BI and analytics tools. A3 eliminates the inherent scaling issues with OLAP and eliminates cube builds by replacing SSAS's physical cube with a virtual cube.



About AtScale

The Global 2000 relies on AtScale—the adaptive analytics fabric company—to provide a single, secured and governed workspace for distributed data. The combination of the Company's Autonomous Data Engineering™ and Universal Semantic Layer™ powers business intelligence and machine learning resulting in faster, more accurate business decisions at scale.

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AtScale Adaptive Analytics

A3 delivers fast, multi-dimensional, secured and governed data access without data movement. Only A3 virtualizes data platforms, combining business intelligence (BI) with artificial intelligence (AI) with a universal semantic layer, to provide one single view of data.

AtScale Adaptive Analytics advantages over SSAS include:

- **Works directly on any data platform** - Hadoop, Snowflake, BigQuery, Redshift, Azure, Teradata 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 A3 doesn't require that you pre-compute every possible combination of dimensions and measures
- **Doesn't require ETL** as A3 models cubes virtually without data engineering
- **Handles data in different data stores and locations**
- **Can be deployed in any Linux ecosystem**

Feature	AtScale	SSAS
Scale	Scales with underlying data platform	Limited to SSAS server resources
Interface	XMLA, SQL, REST	XMLA
Data Movement	No	Yes
Data Fidelity	Atomic, Aggregated	Aggregated
Modeling	MD & Tabular in one	Separate products for MD vs. Tabular
Development	Web based, multi-user	Desktop, single user