Astera DW Builder

Solution Brief

Reimagine Your Data Warehouse Initiative with a Metadata-Driven Approach

Organizations operating in hyper-competitive landscapes need quick access to accurate insights to make game-changing business decisions and deliver optimal customer experience. To fulfill this need, a data warehouse serves as the centerpiece for any data analytics strategy. However, when it comes to building or modernizing a data warehouse, IT teams are overwhelmed by the increasing volumes, variety, and sources of business data. They need a large number of resources divided into multiple smaller teams, define extensive timelines for each project phase, and onboard several specialized tools to create a functional data warehouse while working in cycles to factor in changing business requirements.

A data warehouse automation tool offers the optimal solution for these challenges. An end-to-end solution enables businesses to fast-track the project lifecycle, accelerate the time-to-insight journey, and ultimately realize much greater value from their BI assets. For IT teams, it provides the necessary features to build a truly sustainable data warehouse framework that can handle large volumes of business data, tackle the complexity of different data structures, and promptly meet reporting and analysis requirements of business users.
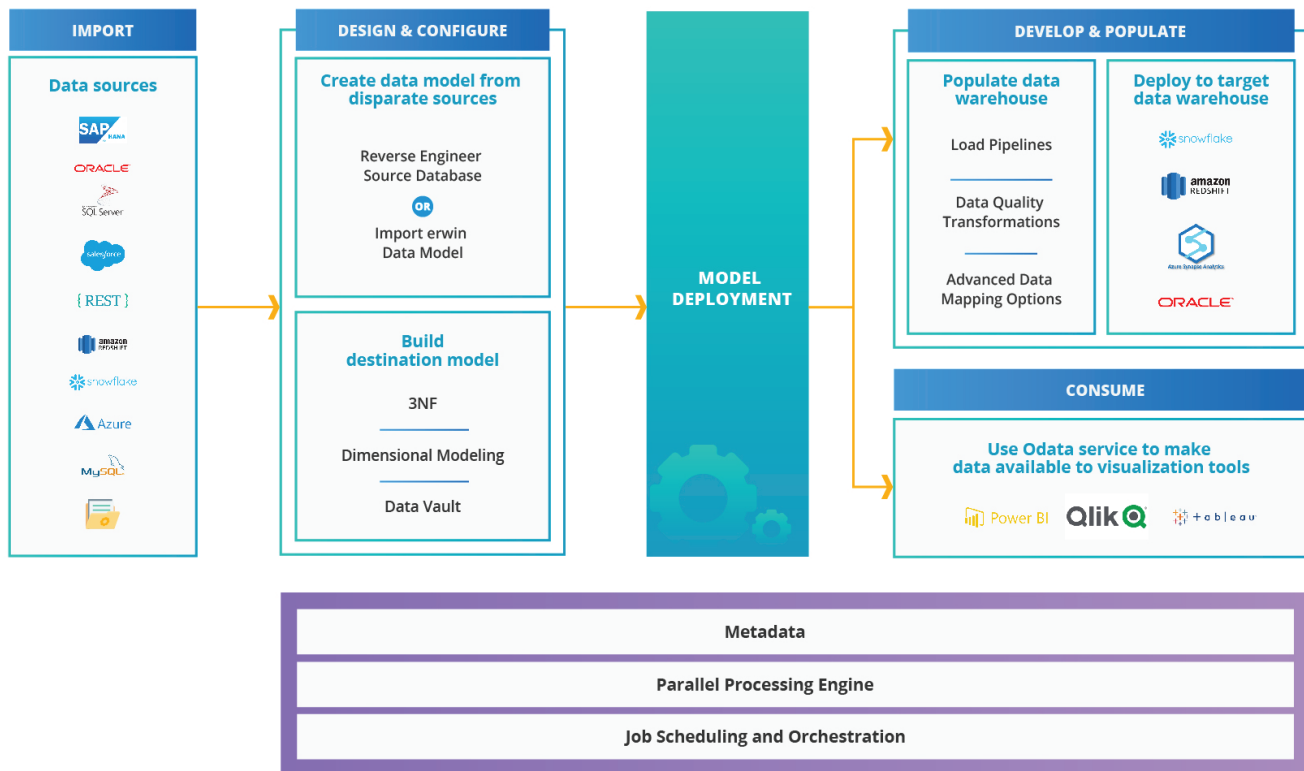
Introducing the Next-Gen Data Warehouse Automation Platform

Astera DW Builder (DWB) is an advanced data warehouse automation platform that offers an agile, metadata-driven approach to building on-prem and cloud data ware-houses. It is designed to simplify and streamline the process of design, development, and maintenance, ensuring the fastest time-to-production to fuel your analytics initiative. The solution provides an integrated development environment that automates all standard tasks of dimensional data modeling, dimension and fact loading, and deployment of your data warehouse.

Once the warehouse has been populated, businesses can use Astera's direct integration or our high-performance OData server to supply data to visualization tools like Tableau, Power BI, Qlik, Domo, and others. The built-in Job Scheduler can be used to automatically populate graphical dashboards and propagate changes from source data streams. The solution offers an agile and flexible approach to building an Enterprise Data Warehouse at high speed and low cost, facilitating business intelligence tasks and data analysis.

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FROM SOURCE TO INSIGHT AT UNPRECEDENTED SPEEDS

IMPORT

Data sources

- SAP HANA
- ORACLE
- SQL Server
- salesforce
- { REST }
- amazon REDSHIFT
- snowflake
- Azure
- MySQL

DESIGN & CONFIGURE

Create data model from disparate sources

Reverse Engineer Source Database

OR

Import erwin Data Model

Build destination model

3NF

Dimensional Modeling

Data Vault

MODEL DEPLOYMENT

DEVELOP & POPULATE

Populate data warehouse

Load Pipelines

Data Quality Transformations

Advanced Data Mapping Options

Deploy to target data warehouse

- snowflake
- amazon REDSHIFT
- Azure Synapse Analytics
- ORACLE

CONSUME

Use Odata service to make data available to visualization tools

Power BI   Qlik Q   +ableau

Metadata

Parallel Processing Engine

Job Scheduling and Orchestration

Key Features

— A metadata-driven architecture

— User-friendly drag-and-drop interface

— Feature-rich dimensional data modeler

— Deep support for Slowly Changing Dimensions (SCD) including SCD 1,2,3, and 6

— Built-in support of early arriving facts/late arriving dimensions

— Zero-code ETL and ELT

— High-performance parallel processing engine to handle the most demanding loads

— Connectivity to a wide range of data sources

— Connectivity to popular target cloud data warehouse

— OData service to make data available to data visualization tools

— Process orchestration through built-in job scheduler and workflow modules

— Prebuilt Date and Time Dimensions

— Astera Query Language to simplify SQL

— Integration with Amazon and Azure cloud

— Easy to set up database agent for secure access to on-premise data

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What Astera DW Builder Offers

A Unified Platform for All Data Warehousing Needs

Businesses no longer need to onboard multiple solutions to construct or modernize data warehouses from the ground up. Astera DW Builder is the perfect substitute for individual data modeling, ETL/ELT, data quality, data lineage, and metadata management tools, offering all the capabilities needed under a single robust platform. This not only ensures significant cost savings, but also shortens the learning curve, saves training time, and provides better collaboration between design, development, and deployment teams.

More Speed, Less Cost

Data warehouses are extensive and expensive projects that can take several months – sometimes even years – to be up and running. The steep costs and resource requirement associated with data warehousing projects put it beyond reach for small and mid-size companies. With Astera DW Builder, businesses of all sizes can build a fully functional, BI-ready data warehouse in just a matter of days or weeks depending on the size and complexity of the implementation. Our data warehouse automation platform accelerates the entire process by 80%, bringing affordable BI within your business's reach, even when working with smaller IT teams and budget.

Increased Project Success Rates

Data warehouse projects are susceptible to failure mainly because of their stretched-out timeline and involvement of various data stakeholders, leaving room for a lot of uncertainties in the process. Astera DW Builder allows organizations to opt for an iterative approach that facilitates working in shorter cycles and delivering stable versions of the production data warehouse faster. Developers can ensure conformity with the business requirements and usability of the flows after every iteration, paving way for a solid, more robust data warehouse while kicking up successful implementation rates significantly.

Take your Data warehouse to the Cloud

Enterprises nowadays demand high flexibility when it comes to scaling compute and storage resources, improved infrastructure performance, and accelerated analytics. Astera DW Builder enables fast deployment to common cloud data warehouse providers, such as Amazon Redshift, Azure Synapse Analytics, Google BigQuery, Snowflake, and others. IT teams can rely on the product to generate code native to the target data warehouse, saving hundreds of development hours and allowing customers to shift focus on design strategy and optimization.

Supercharge your BI & Analytics Initiatives

Astera DW Builder simplifies accessing warehouse data by providing a built-in OData service. Users can directly fetch data from common data visualization tools, such as Power BI, Tableau, Qlik, Domo, and others, using an OData service. This simplifies the time-to-insight journey, allowing analysts to universally access data directly from their preferred BI tool instantly.
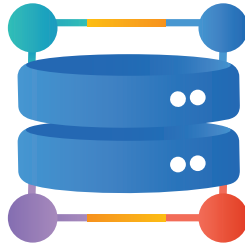
Automation at Every Level

To speed up time-to-production, Astera DW Builder automates critical, time-consuming tasks, such as reverse engineering schemas and entity relationships, creating metadata, maintaining indexes, data model integrity verifications, fact and dimension loads, and more. The product offers a highly intuitive drag-and-drop development environment that enables users to work on a logical level instead of writing code for every action. This enhances users' productivity profoundly, allowing them to do more value-adding work in less time they would otherwise spend in repetitive manual tasks.

Roll Out Changes at the Speed of Business

Business landscapes evolve continuously due to fluctuating market conditions, consumer behavior, and regulatory requirements. And companies need to embrace and progress with the change to stay ahead of the curve. As such, Astera DW Builder empowers IT teams to demonstrate agility when creating a new reporting, BI, or analytics solution for end users. Once the metadata-driven architecture is in place, adapting to new or changing business requirements in iterations is as simple as updating your data model and propagating it across the data warehouse with a few clicks.

Set Your Data Warehouse on Self-Driving Mode

Once the data warehouse has been deployed and populated, users can set how often it is updated with new data. Featuring a built-in job scheduler and monitor, developers can orchestrate the process by implementing a workflow to check and deliver updates to the data warehouse. Use event-based and time-based triggers to refresh your data warehouse periodically.

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Let Us Show How you can Build your Data Warehouse in Days and Weeks Instead of Months

Request a Personalized Demo

About **Astera Software**

Astera Software develops powerful, intuitive data integration, extraction, and warehousing solutions focused on eliminating the complexities in data processes. Through continuous innovation, Astera provides products and services that are consistently acclaimed for superior usability, intuitive interface, and high performance. This ensures rapid ROI and scalability to meet the most demanding data management tasks, as well as flexibility for infinite extensibility and deployment possibilities. Since 2009, Astera's solutions have been trusted by many government departments and Fortune 500 companies, including Wells Fargo, USDA, US Dept. of VA, Xerox, HP, Novartis, Raymond James, and more.

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