

**Solution Brief**

# **Astera Data Warehouse Accelerator**

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**Astera DWAccelerator** is an advanced data management platform that focuses on helping organizations obtain analytics for decision making in the fastest possible manner. This is done by automating all standard tasks of data modeling and development of integration flows to populate your data warehouse.

Once data is loaded into the warehouse, businesses can use Astera's direct integration to data visualization tools like Tableau and PowerBI to create reports and dashboards directly from the data warehouse for graphical analysis or organization data. The built-in 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 quickly, facilitating business intelligence tasks and data analysis.

## Key Features

- User-friendly drag-and-drop interface
- Sophisticated dimensional data modeler
- Workflow orchestration
- Change Data Capture
- Built-in Slowly Changing Dimensions component
- Push-down optimization (ELT)
- Auto-mapping
- Parallel processing engine
- Connectivity to a wide range of data sources and targets
- Lineage and impact analysis reporting
- Data quality and profiling
- Direct integration with data visualization tools

## Why Traditional Data Warehousing is a Challenge?

In today's competitive environment, data drives business insights necessary for analytics and delivering an improved user experience. Companies deal with tons of data that comes from a variety of sources. The frequency and volume of data captured by businesses is [on course to increase by 4300 percent by 2020](#). This can complicate the process of information extraction and data retrieval, making it more costly and complex for businesses to use data and BI as a competitive advantage.

To manage this huge volume of data and effectively use it for analysis and reporting, businesses must build data warehouses. Data warehouses gather data from disparate sources in one place to complement business intelligence, facilitate faster query processing and reporting, and support decision-making.

Traditionally, building a data warehouse required the involvement of many individuals, from data architects and business analysts to business stakeholders and developers. The process was tedious and time-consuming as it required contribution of multiple individuals.

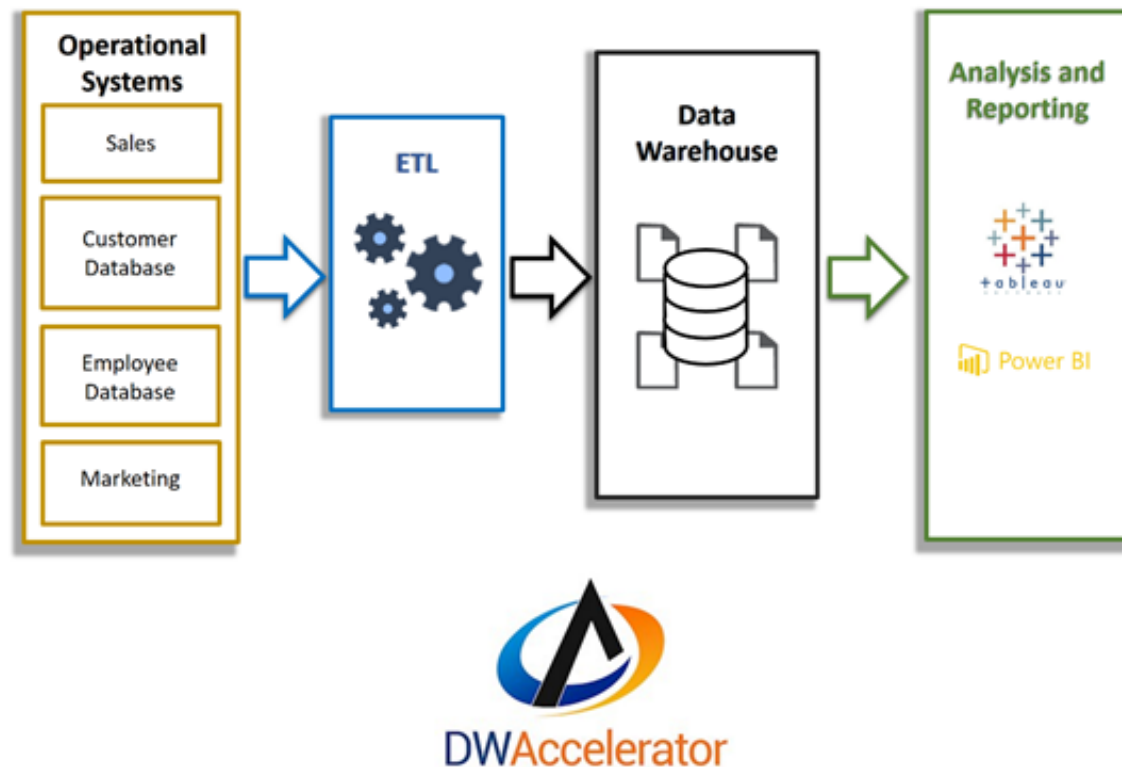
In a typical IT environment, a business analyst would gather the data warehouse requirements from various business stakeholders and document them, all over the course of several weeks. The data architects then work with developers to hand-code the solution. This would take another few months.

During all this time that went into designing and building a data warehouse, a lot of business requirements and dynamics could change. Traditional warehouses that are built using the ETL approach are too rigid to adapt to the changing business requirements. Therefore, businesses need to invest in data warehouse automation to make the design, building, and implementation process faster.

## How DWAccelerator Leverages Data Warehouse Automation?

Technologies evolve when needs arise and businesses invest time and money. The same is true for data warehousing. Data Warehouse Automation (DWA) is the result of the evolving business intelligence (BI) market.

It provides a step forward in complete data integration. With its auto-mapping feature, ability to auto-create workflows, and job scheduler to run workflows at appointed times, DWAccelerator automates the repetitive parts of data warehouse creation to provide near real-time data for analysis and decision-making.



# DWAccelerator Benefits

## Minimize Time and Costs

It takes several months and sometimes even years to build a [data warehouse](#) and have it up and running. Additionally, the exorbitant costs and resource requirement associated with data warehousing projects put it beyond reach for small and mid-size companies. With DWAccelerator, you can build a data warehouse in just a few days or even a few hours. Astera's data warehousing tool accelerates the entire process to bring affordable BI within the reach of businesses with a smaller data warehousing budget.

## Automation of Repetitive Tasks

Traditional data warehousing design and implementation involves a lot of repetitive work that can be automated to save time and labor. For example, loading data into a myriad of fact tables is a repetitive task, but everything has to be built from scratch at different stages of data warehouse creation. DWAccelerator automates redundant tasks to save time and focus energy on meaningful work such as warehouse design and optimization.

## Overcoming Traditional ETL Challenges

The traditional ETL approach designs a data warehouse around the needs predicted at the start of the creation process. This results in a data repository that is inflexible and useful for only one purpose. Efforts to prevent this, such as keeping more frequent data or reducing latency to the existing ETL process, require dynamic and inefficient changes within ETL practices.

## Near Real-Time Data Acquisition

DWAccelerator utilizes automation to deliver agility throughout the entire process. It gives you near real-time data for reporting. DWAccelerator allows you to simply drag and drop heterogeneous data sources onto the interface to quickly design an integration flow, load it into your data warehouse, see the data right away on your dashboards, and create flexible reports from them for analysis and decision-making.



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