

DATA INTEGRATION

# Agile Data Warehouse Automation

Qlik Compose™



## INTRODUCTION

# Accelerate Your Data Warehouse Projects

Business needs are changing fast. You and your business intelligence (BI) team need to rapidly integrate and transform data to meet real-time analytics requirements. Struggling with brittle, hand-coded data warehousing processes takes too much time. And it increases management complexity, cost, and dependence on development resources. Qlik Compose (formerly Attunity Compose) is a simpler, fresh approach to data warehouse automation.

### Business Benefits

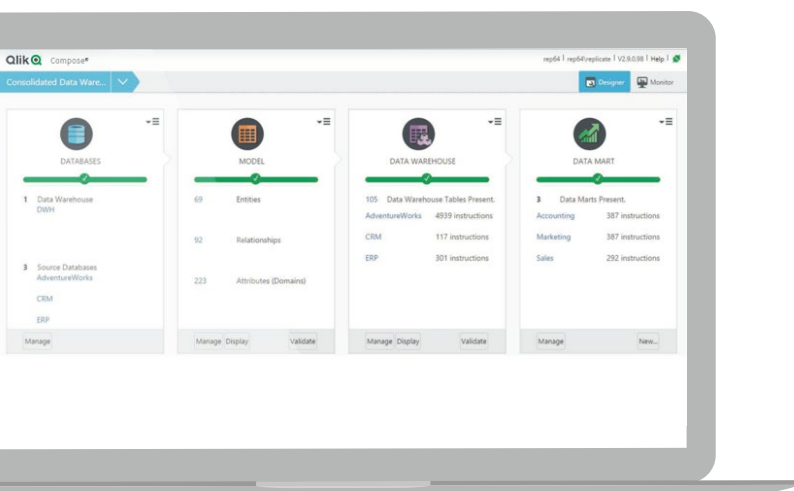
- Accelerate data warehousing projects
- Reduce risk and ensure consistency
- Improve business impact of analytics
- Reduce time, cost, and development requirements

Our Qlik Compose solution automates the design, implementation, and updating of your data warehouses and data marts. Its visual approach minimizes manual, error-prone data warehouse modeling, ETL script generation, and lifecycle management workflow tasks. Using our software, your data architects and data warehouse administrators can optimize processes, speed project delivery, and lower risk.

Flexible Qlik Compose supports the methodology you choose: model-driven which is guided by business processes, or data-driven which is based on reporting requirements. Both easily adapt to new requirements by rapidly propagating source or model changes through your data warehouse environment.

Reduced time and cost of your analytics projects on cloud platforms such as Amazon Redshift, Azure Synapse Analytics, Google Big Query, and Snowflake are significant Qlik Compose benefits. Your teams can quickly spin up, scale, and modify their data warehouses – dynamically adjusting data sources and models based on changing business requirements.

When combined with our Qlik Replicate, formerly Attunity Replicate, data ingestion and replication software, Qlik Compose automates the extract (the E in ETL) data process from multiple, heterogeneous sources without manual coding. Your BI team can manage and monitor workflows end to end, executing tasks as a single process for deployments of any size.



# Intuitive Solution for Data Modeling, Execution, and Updates

## Extract and sync data from sources with ease

- Load source feeds in real time with change data capture (CDC)
- Deploy zero-footprint technology that doesn't require agents on source systems
- Integrate with heterogeneous source systems – RDBMS/mainframe/Hadoop

## Automate model design and source mapping

- Create or import data models
- Iteratively enhance and modify your data models
- Map source automatically to your data model

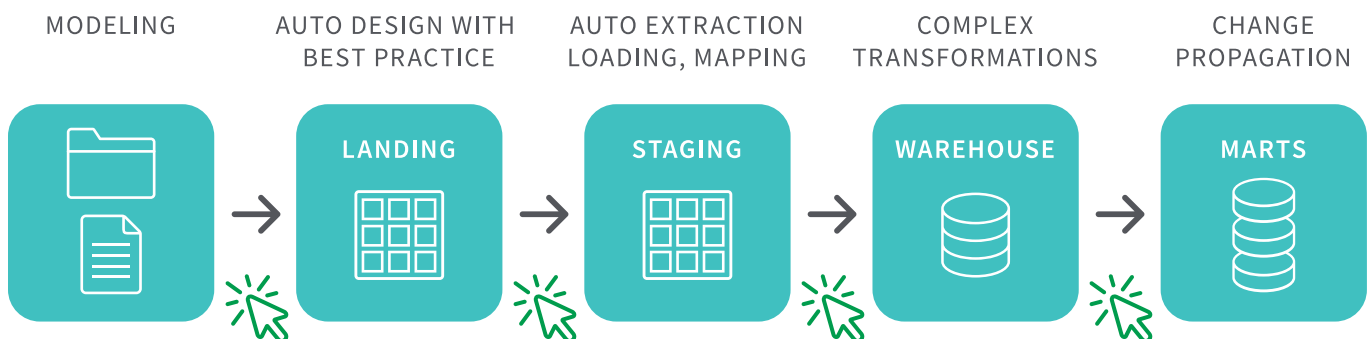
## Automate data warehouse and ETL generation

- Auto-generate ETL code to populate and load data warehouses and data marts
- Easily propagate changes in your data model and move data to physical structure
- Automatically maintain data history (e.g., slowly changing dimensions)
- Profile data; identify and remediate issues; improve data quality

## Provision data marts without hand coding

- Visually define and manage data marts with a few clicks
- Automatically generate ETL to populate your data marts
- Support aggregated, state-oriented, or transactional data marts
- Access data with popular enterprise BI visualization tools such as Qlik, Power BI, Cognos, SAP BusinessObjects, and Tableau.

## Agile Data Warehouse Automation With Qlik Compose



## **Workflow Designer and Scheduler**

Built-in Qlik Compose workflow designer runs all data warehouse and data mart ETL tasks as a single, end-to-end process. Your users can schedule workflow execution tasks, too.

## **Lineage and Impact Analysis**

Qlik Compose automatically creates metadata during design phases or the data warehouse implementation process. It also provides a visual map of data flow from source to data warehouse and data marts to simplify planning and monitoring. Your users can regenerate data lineage when changes are implemented.

## **Monitoring and Notification**

Teams monitor the status of all automatically generated tasks and workflows with Qlik Compose. This enables people to drill down into information for selected tasks. Configuring automatic event notification messages lets individuals proactively manage the environment.

## **Data Profiling and Quality Management**

Qlik Compose profiles data while helping improve data quality for more accurate reporting. Identify data gaps, format discrepancies, and other issues, then repair before loading. Your users can configure and enforce rules for automatic discovery and issue remediation with values, formats, data ranges, and duplicates.

## **Simplified Development, Testing, Acceptance, and Production (DTAP)**

Further speeding data warehousing initiatives, Qlik Compose lets your teams create and position project deployment packages directly from the user interface. These packages can be used to back up or migrate projects between different project stages.

## **Version Control**

Qlik Compose does more to optimize the data warehousing process by centralizing and automating project version control. It relies on the built-in version control Git engine to enable Qlik Compose developers to commit project revisions to both local and remote Git repositories. If someone makes a mistake, it's easy to roll back to earlier project versions, minimizing team disruption. And your users can compare, lock, and/or merge versions, plus track changes for improved team productivity and agility.



## **About Qlik**

Qlik's vision is a data-literate world, one where everyone can use data to improve decision-making and solve their most challenging problems. Only Qlik offers end-to-end, real-time data integration and analytics solutions that help organizations access and transform all their data into value. Qlik helps companies lead with data to see more deeply into customer behavior, reinvent business processes, discover new revenue streams, and balance risk and reward. Qlik does business in more than 100 countries and serves over 60,000 customers around the world.

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