

MANTA FOR AUTOMOTIVE:

Accelerating Complex DWH Operations by **25%**

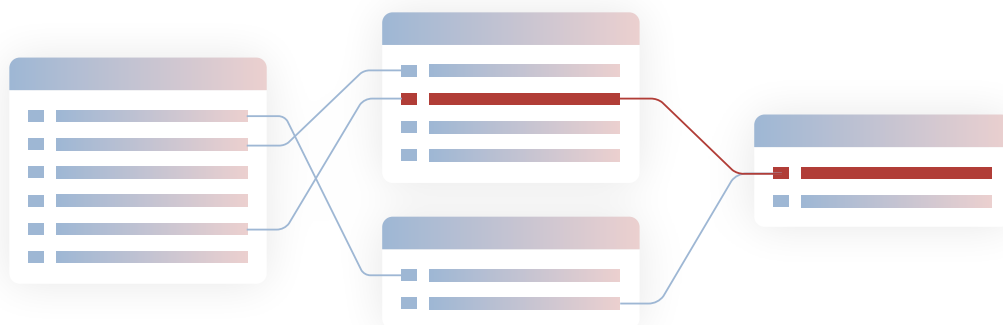


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CTOs and CIOs of data-driven companies are facing one major challenge: the skyrocketing complexity of their data stack (data pipelines). Combined with a shortage of engineering talent, it limits their ability to cope with fast-paced changes, negatively impacts innovation initiatives, increases the risk of data incidents, and causes reputation issues and non-compliance with regulatory requirements.

Companies of all kinds hit this complexity speed bump, but with automated data lineage, they can safely drive over it and get up to speed. Our customer, a large European automotive manufacturer, did it with the help of MANTA's automated lineage. In their daily work, we help them navigate their Teradata data warehouse, enable DataOps, decommission legacy data models, strengthen their data governance program, ensure compliance with GDPR, and more. MANTA was also used to streamline ongoing migration processes—legacy IBM DB2 was being migrated to Microsoft SQL Server—to gain scalability and availability.



Complex Dependencies Adversely Affected Data Management

Even before the customer started the MANTA journey, they knew very well that understanding data dependencies is a gateway to the successful use of data for multiple reasons—faster change management and incident prevention being the two most important. To track and visualize the dependencies in their environment, the DataOps team attempted to make a dependency graph manually. They quickly realized that this approach wouldn't take them far. And that's when they started using MANTA's data lineage, and they haven't stopped since. What exactly do we help them with?

Saving Money, Time, and Effort

For a data environment with higher-level complexity, data engineers spend 30% to 40% of their time manually tracking data dependencies and data flows, primarily to enable impact analysis for change management and root-cause analysis for incident resolution. By automating data lineage, the operations team reclaimed the precious time they were spending on mapping the dependencies manually. What used to require a lot of effort from multiple people across departments is now done instantly, within 5-6 minutes, and the time saved is used to put the generated results to good use. The results come in handy for business users as well, who can now access high-level information themselves in a user-friendly, visual way without having to reach out to the IT professionals.

Breaking the Complexity Barrier

MANTA's data lineage visualization provides them with a holistic overview of all data dependencies. No matter how large and complex the environment is, they immediately see how data elements are connected.

With this comprehensive overview, our customer easily maps end-to-end data journeys, which helps them tame the complexity of their data pipelines and understand their processes on an ongoing basis. Once they broke the complexity barrier, the use of MANTA was naturally extended to other data management issues they were dealing with.

Data Operations Accelerated by 25%

In the past, our customer spent a significant amount of time and resources on change management, incident prevention, and incident resolution tasks due to the manual nature of their approach. A lack of agility also impacted the ability of the company to implement business requirements in a timely manner. Thanks to MANTA and its automated data lineage capabilities implemented across development, testing, and production data analytics environments, their development and maintenance have been accelerated by 25%.

MANTA also gives the customer the following data operation benefits.

- Reduces the time of the data analytics cycle by delivering clear and understandable information about that data, which doesn't have to be derived manually.
- Understands and measures the complexity of data applications to enable preventive maintenance and implementation of advanced incident prevention approaches, further reducing the number of data incidents.
- Limits the organization's dependency on the knowledge of a few data engineers thanks to comprehensive and up-to-date documentation of data pipelines and all data flows. Also lessens the experience requirements for new team members and makes their onboarding faster, thus helping the organization overcome the current data engineering talent crisis.

30% Faster Application Decommissioning and Cloud Migration

Having gathered and combined various kinds of data systems, our customer is looking to move on from their legacy database and applications to embrace more cloud technologies. The manual approach, lack of documentation, and shortage of talent working with older technologies prevented them from doing that.

With a complete map of data lineage and data dependencies, the DataOps team can understand the structure of older applications; understand the logic and transformations, even without proper documentation; and properly scope the migration. With a traditional, more manual approach, analysis and scoping represent up to 40% of overall project time and up to 30% of project costs. This phase is now automated thanks to MANTA, and the resources and time needed for its execution have been reduced by 80% to 90%.

\$10+ Million Saved on Improved GDPR Compliance

Knowing data origins is a must for any data compliance effort. Without knowing what data you process, what its sources are, how it is transformed, where it resides, and how it's connected, it's impossible to ensure its privacy and security. Our customer is subject to GDPR (General Data Protection Regulation), a regulation on data protection and privacy in the European Union. Non-compliance carries a hefty price tag—up to €20 million or 4 percent of worldwide turnover for the preceding financial year, whichever is higher. MANTA's accurate and always up-to-date lineage helps them make sure that their data is safe and sound.



CUSTOMER INFO:

Industry: Automotive

Data warehouse: Teradata, IBM DB2

Scanner: MANTA's Lineage for Teradata and IBM DB2

Number of scripts: 20,000

Platform: VMware

Teams using MANTA: Data Operations

Number of people using MANTA: 15–20