

Enabling **DataOps** in a Large DWH with Automated Lineage for Shorter, Bug-Free Releases



Enabling **DataOps** in a Large DWH with Automated Lineage for Shorter, Bug-Free Releases

Problem:

One of MANTA's customers, a European financial institution, had gathered and been processing over a million algorithms of finance-related logic in their data warehouse. This huge data warehouse environment turned out to be a major obstacle to the Agile approach that the organization had adopted.

Their plan to release weekly updates and deliver more features with data analytics was sabotaged by the DataOps team's limited understanding of the environment. Every release was flawed with numerous issues, and manually figuring out what had caused the issues was nearly impossible, not to mention preventing similar and other issues in future releases. The data engineers had their hands tied—with such a large volume of algorithms and without a proper lineage solution in place, they simply didn't have a full picture of their environment and how certain data assets affected others in the environment, which prevented them from carrying out proper impact and root-cause analyses and rolling out releases in a weekly cycle.



Solution:

To adapt the Agile approach and enable frequent, successful releases, it was crucial for the DataOps team to immediately understand data dependencies so they could assess the impacts of planned changes before releases were implemented. MANTA was implemented in their Teradata-based warehouse. This allowed them to map their entire data pipeline within a few days, facilitating frequent, fail-proof releases. MANTA's lineage became part of the management release process that helped the DataOps team understand dependencies between assets and carry out automated impact analyses of planned changes or immediately track down issues causing failures.

Result:

Mapping the environment helped the customer instantly spot the issues that had caused the problems with the releases that had been launched before implementing MANTA. After mapping the entire data pipeline

and making lineage an integral part of every release, the Agile approach could be used, which significantly shortened development release cycles and automated the impact analysis process that now allows them to act proactively, minimizing the risk of broken releases in the production environment.

Why Release Management without Lineage Is Doomed to Fail

With today's Agile development requirements, constant testing and the elimination of errors before a release are an absolute priority. Deadlines for both testing and deployment are tight, and if a planned change is not checked for its impact on other parts of the environment, it will most likely cause production errors that will be impossible to track down. To eliminate the risk of broken releases and wasting time tracking what caused the issue, take the proactive approach by leveraging MANTA's lineage capabilities to map the entire data environment before the testing phase.

Software engineers spend too much time putting out fires, trying to solve issues that occur in production due to insufficient testing. Mapping your whole environment enables you to pivot and run impact analyses that show how planned changes, no matter how small, influence other parts of the environment so you can proactively take steps to ensure bug-free releases within any given timeframe.

With MANTA, the customer

Reduced the time required for impact analyses by

95%

Performed incident resolutions

90% faster

Reduced the number of broken releases to less than

1%



Schedule a demo at getmanta.com/request-demo to learn how MANTA can help your organization immediately assess the impacts of planned changes and enable collaboration.

