

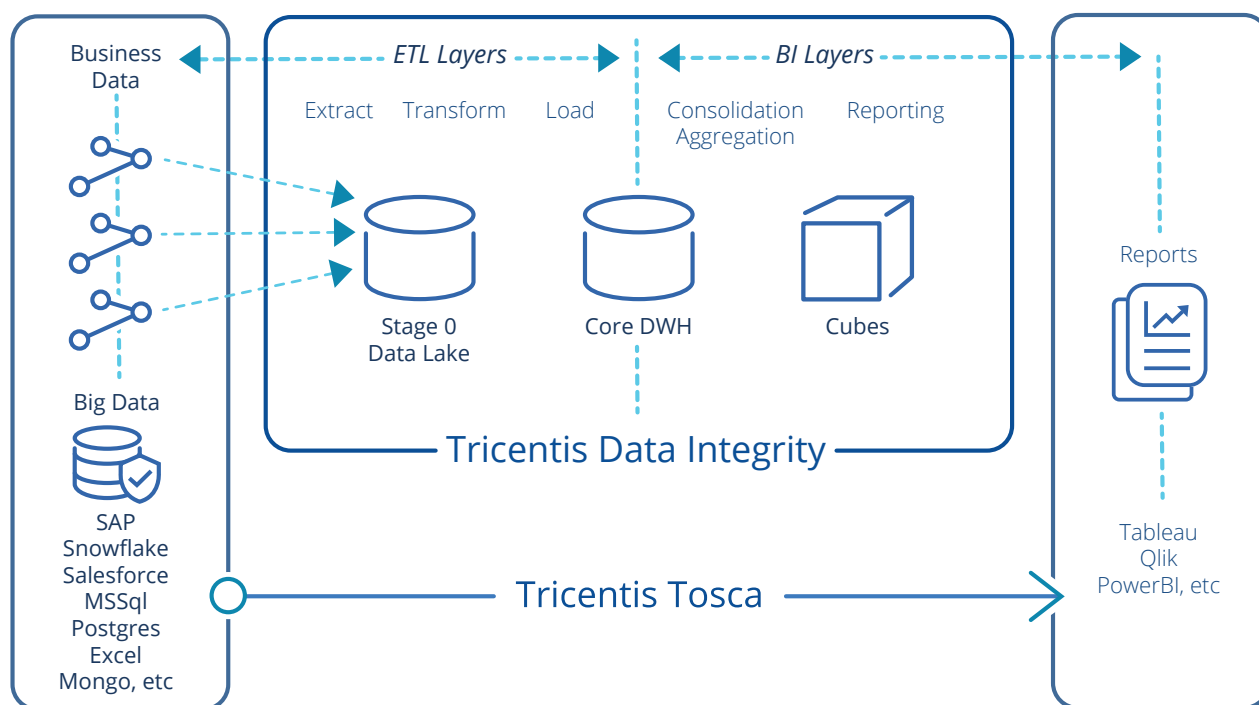
Tricentis Data Integrity

The data behind every business is the product of continuous ingestions from disparate data sources, followed by countless integrations, transformations, and migrations. A slight discrepancy at any step typically remains unnoticed until it impacts the business. At that point, it's extremely difficult to diagnose and fix.

Tricentis Data Integrity provides a powerful way to eliminate data integrity issues before they do any damage. Our end-to-end automation covers everything from the integrity of the data fed into your system, to the accuracy of integrations, transformations, and migrations, to the verification of report logic and presentation.

Leading organizations use our solution for:

- Reducing the time and cost required to ensure data quality
- Validating data migrations to Snowflake, S/4HANA + other platforms
- Scaling data verification efforts to cover massive amounts of data
- Unifying data quality efforts scattered across siloed tools
- Monitoring data for fraud and regulatory compliance issues
- Ensuring that application updates don't negatively impact data





END-TO-END TESTING

End-to-end testing can be performed using pre-screening tests on files and or databases; completeness, integrity, and reconciliation tests on the inner DWH layers; and UI tests on the reporting layer. Databases, flat files, HDFS as well as web UIs, APIs/services, etc. are all supported, allowing a true end-to-end testing approach across all layers of the data warehouse environment.



RECONCILIATION TESTS

Reconciliation testing performs complete source-to-target comparison—including file-to-database and database-to-file comparisons. These reconciliation tests can perform algorithmic or complete row-by-row comparisons of two data sets from two disparate systems. These tests can be associated with your transformation requirements—providing instant insight into which transformation requirements have been tested and whether those tests succeeded or failed.



PROFILING TESTS

Profiling tests validate data for logical consistency and correctness from a business perspective. For example, you can automatically check that insurance contracts can be canceled only if all outstanding invoices have been paid. Profiling functionality can also be used to monitor how many data values of a certain type exist at any given point, alert you to “out of range” values, and use results to create a trend profile over time.



PRE-SCREENING TESTING

The Pre-Screening wizard facilitates the early detection of data errors (missing values, duplicates, data formats etc.). Use it to ensure that the data loaded into the staging tables is correctly structured and formatted. You can also verify that the field level data meets your requirements (e.g., allowed values or patterns).



VITAL CHECKS

Vital Checks expose data acquisition errors. You can automatically generate vital checks for both data quality and data processing. Tests for metadata, completeness, uniqueness, and referential integrity can be created out-of-the-box. The generated test cases cover table-level checks as well as field-level checks for the various BI/DWH layers.



BI REPORT TESTING

Tricentis Tosca's Model-based Test Automation automates testing of BI reports by providing checks for fully-laid-out reports or analyzing the underlying data that is fed into the reports (e.g., Cognos, Tableau, QlikView, etc.). Tricentis customers who have used Model-based Test Automation to automate their BI report testing have achieved automation rates of up to 90+%.