

“ A data testing tool that greatly simlifies the testing of Data Integration, Data Warehouse and Data Migration Projects ”

## Data & ETL Testing Automation

ETL Testing. Data Quality Testing. Flat File Testing

Testing Data Integration projects is challenging due to high volumes and the heterogeneous nature of data sources. As there are few data automation tools in the market, it is a common practice for testing teams to copy records from source and target tables into an excel spreadsheet and manually compare the data for just a handful of records. Every incremental change to a system increases the scope for functional and performance regression. All these can result in increased cost of ownership, inaccurate insights due to bad data/reports and the loss of trust in enterprise data and reporting capabilities.

ETL Validator is our solution built on patent-pending architecture and offers complete regression and performance testing capabilities for Data & ETL projects. By leveraging ETL Validator's simple UIs and wizard-based test automation capabilities, Engineers, Testers & Business Analysts can be more productive, deliver accurate reports and instill faith in enterprise data & BI systems.

## Benefits



Expedite time to market.



Reduce costs associated with testing data projects.



Innovate more often with confidence.



Improve productivity in Engineering, QA & Data Analysis teams.



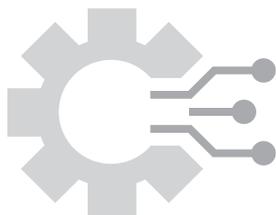
Instill faith in your enterprise data & Business Intelligence.



Optimized for the Modern Data stack.



## Features



### ETL Testing Automation

Business Analysts, Engineers and Testers can leverage ETL Validator's intuitive interfaces to create automation test cases.

- Test for Data Completeness by comparing data and data profiles between source and target data sources.
- Test for Data Consistency by comparing source and target data.
- Test ETL Transformations by leveraging the power of SQL.
- Ensure Referential Integrity by verifying foreign-key relationships.



### Data Quality Testing

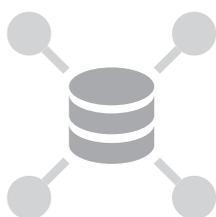
ETL Validator gives multiple options for the creation and execution of data quality rules. Some examples are :

- Test for Data Validity by verifying that the data conforms to encoded lists and range of values.
- Ensure Data Accuracy by making sure that the data values are closer to real-world values.
- Perform metadata testing by ensuring that the data structures conform to the data dictionary standards.



### Flat File Testing

Flat file data exchange is a typical pattern in enterprises. In addition to loading data from relational databases, ETL Validator also supports flat files. Users can write a set of rules to validate each column in the incoming file and at run time, ETL Validator ensures that the data in the files is in accordance with the rules.



### Big Data Testing

Compare data from big data sources such as Hadoop Hive with data residing in traditional data sources such as databases. Users can also access flat files in HDFS and perform flat-file testing. At the users option, they can choose our Apache Spark-based comparison method for vast amounts of data or compare data via our database source and target comparison for less than 40 Million rows.



## Data Integration Testing

ETL Validator can help you verify that data integration across enterprise systems is as expected. For example, users can write automation test cases to ensure that the customer master data has the same definition across your CRM, ERP and MDM systems.



## Wizard Based Test Creation

ETL Validator provides wizard-driven interfaces with drag and drop capabilities to create and execute test cases. The intuitive UI enables testing teams to be more productive and perform comprehensive testing with ease.



## Optional Programming

SQL is the only language required to automate test cases using ETL Validator. This brings down the total cost of ownership as SQL knowledge is a common skill in Engineering, Testing and Business Analysis teams. If you choose to leverage Python or Scala, then, ETL Validator has the provision to support your needs.



## Scheduling Capabilities

ETL Validator provides multiple options to assemble and schedule Test Plans. At the scheduled time, ETL Validator's server automatically executes the tests and emails summary reports to the right stakeholders.



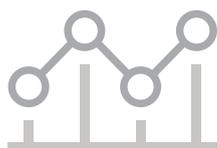
## Enterprise Collaboration

All test cases are stored in ETL Validator's enterprise repository. This enables users to reuse test cases across the organization. Integration with HP's ALM and web-based reporting enables application life-cycle management.



## Container-Based Security

ETL Validator provides container-based security for managing access to test data, test cases and test results. This feature facilitates the restriction of data and features to select users.



## Benchmarking Capabilities

Users can choose to benchmark results from test case execution (expected) and leverage ETL Validator to compare that data set to results from scheduled runs over a period of time (actual). This capability ensures that a system does not regress as changes are made to a system's environment.

### Other Features

- Apache Spark in memory
- XML Testing
- Production Data Monitoring
- Two modes of Comparisons
- Web-Based Reporting
- Database Comparisons

## SUPPORTED DATA SOURCES

ORACLE



teradata.



VERTICA



Email us at [contact@datagaps.com](mailto:contact@datagaps.com) for a price quote, pilot or to know more about how we can help you solve your enterprise data testing issues.