Data Quality Management

Improve your data quality to leverage the full potential of your data. Ataccama ONE Data Quality Management fits any IT infrastructure, responding to your specific business needs with a robust and flexible back-end engine and an easy-to-use, business-oriented interface.

USE CASES

Data Discovery & Profiling

Data discovery and profiling is the first step in any data project. Employ smart, automated metadata discovery algorithms and AI to learn more about your data, and its structure and content. Find dependencies, categorize and describe data, empower data users to make smarter, more informed decisions, and prevent costly mistakes. Store your findings in a central data catalog for future projects.
Data Quality Monitoring & Reporting

Use AI and machine learning to keep information about your current data quality state readily available for faster, improved decision making. See trends, view full history, compare versions, and get accurate and timely visual reports shared across your company. Utilize a set of reports which allow managers to monitor the status of a process as well as keep track of data steward performance. This can be done in current time or historically. Do all of this directly from a web app as part of a complete, end-to-end self-service scenario.

DQ Evaluation

Drill to detail original records to see the context of a problem. With our flexible, modular platform, enjoy native integration with other Ataccama ONE modules and extend your solution to cover additional use cases (from data cataloging to MDM and more) as needed.

Rule Management

Ataccama ONE validation rule management is collaborative and easy-to-use, and provides results for a wide variety of business users and third party applications. Multiple approaches to rule implementation include simple sentence-like conditions and rich expression language. Use the rules on everything from getting fast “one-click” data insights to fully governed DQ Monitoring solutions.

Data Preparation

Leverage a data catalog and its collaborative features to accelerate data prep. Enable efficient work for users at various skill levels, including data citizens (exploring and consuming data in projects), data scientists (preparing data for further analysis), data engineers (preparing and consolidating data for others or for projects), and IT (system administration, process monitoring, and resource monitoring). Reduce time spent on repetitive and non-creative tasks with the help of automated tasks, AI, smart assistance, a self-services approach, and user collaboration support. Data stewards and data citizens have access to full data lineage to investigate the origin of any data element in their data set.

Data Standardization & Cleansing

Standardize, clean, validate, correct, transform, and enrich your data. Leverage an extensive set of pre-defined...
algorithms, or create your own. Harness available information from various data sources to make your data more complete and consistent. Best of all, do it all locally or in the cloud.

**Issue Tracking & Manual Resolution**

Identify, monitor, and resolve data quality issues that cannot be resolved automatically. Provide an all-in-one environment for your data stewards to efficiently and reliably correct errors, perform manual cleansing, eliminate duplicates, and manually **match and merge** where automated processes are insufficient or prone to risk. Easily propagate the issue resolution and corrected data to all related systems, ensuring everyone works with the best data available.

**Data Quality Firewall**

Prevent bad data from entering your systems with a powerful data quality firewall. Extend current cleansing and matching processes with a component preventing users from creating new data quality issues in your systems. Be confident that any and all edited or newly entered data is accurate.

**Matching**

**Identify duplicate records** representing the same entity (customers, patients, products, locations, or others) with deterministic or fuzzy matching rules. Use various edit distance metrics, phonetic algorithms, and other sophisticated methods to uncover hidden relationships in your data.

**Anomaly Detection**

Use AI to detect irregularities in data loads, including data volume changes, outliers, changes in data characteristics, and more. Watch it improve over time as the solution learns from the user’s approach to reported anomalies.

**FEATURES**

**Big Data World Ready**

**Ataccama ONE Big Data Processing** covers the entire data integration, ingestion, transformation, preparation, and management process, including data extraction, import to a data lake and Hadoop, cleansing, and general processing. This ensures data is ready for further analytics at the right place and time, and in the right format. All configuration happens through an intuitive interface, allowing business users to process and shape data without the need for Hadoop-specific knowledge such as MapReduce or Spark.

**AI & Machine Learning**

Artificial intelligence and machine learning in Ataccama ONE is used in two primary ways:

- To simplify and automate the configuration process, including automated metadata discovery, automated project...
configuration, evaluation of results, and finding relevant examples for the impact of any configuration change.

- **AI at runtime**, including machine learning-based matching, cleansing and classification, active learning from user interactions (especially from issue resolution), and anomaly detection in data loads.

**Configurable Workflows**

All aspects of the issue resolution process are fully configurable, including the number of steps in the workflow, conditions, permissions, actions to be performed, and more. Different workflows can be used for different types of issues, systems, or entities.

**Role-Based Security**

Provide full, role-based security with the option to leverage organizational structure to provide even finer-grained access control based on an employee’s role or department. We provide a **Single Sign-On** solution out of the box and can utilize your existing **LDAP** solution.