

Data Quality Center



Ataccama Data Quality Center (DQC) is an essential tool for complex data quality management. DQC is designed to evaluate, monitor and manage the quality of data in your information systems and also, to prevent incorrect data from entering the systems in the first place. Ataccama DQC is bundled with specific sets of rules and localized dictionaries. Public and private sector organizations managing large volumes of data choose Ataccama DQC solution for easy implementation and tangible business gains.

Typical Data Quality Problems

Poor data quality within enterprise systems can spiral into never-ending issues which negatively affect your efficiency and effectiveness. In addition, complications may arise from internal systems often implementing incomplete or conflicting business rules, different scoring and validation methods, or inflexible data requirements that do not adapt to specific situations.

Low data quality is one of the reasons why a reliable identification process is not easy to implement. Some solutions take a simplified approach based on simple identifier keys, which very often suffer from human data input errors. In the case of person identification keys, the problem is further complicated by either the unavailability of specific identification keys in other regions (foreign characters) or by legal limitations against universal use, such as data protection.

Full Featured & High Performance

Ataccama Data Quality Center is designed to support elaborate Data Quality Management and Data Governance initiatives in complex environments.

Central administration of rules and data quality levels allow consistency over all systems, data sources and points of input.

DQC allows you to quickly:

- Explore data quality.
- Identify priority areas.
- Conduct detailed quality analysis for each area of interest.
- Define rules and automated processes for data quality improvement.
- Support organizational processes for data quality management.

DQC is ultra flexible, with a powerful built-in engine. DQC is architected for high performance and scalability enabling it to rapidly process huge volumes of data.

Ataccama DQC can be used for the following tasks:

- Quality control in transactional and analytical applications.
- Cleansing and unification in system migrations.
- Quality assurance in software integration projects.
- Data quality improvement in address and contact information.
- Cleansing and unification of data for client identification purposes.
- Profile validation and correction of incomplete records.
- Customer input validation in self-service online applications.
- Profiling as a part of data integration project analysis.
- Detection of inconsistencies and irregular patterns, such as fraud prevention.

Ataccama DQC Technology

Ataccama DQC was created and developed explicitly to address a wide range of data quality issues. This includes improved file identification processes, asset and address identification, as well as processing using additional customizable criteria and rules.

DQC provides functionality to support the entire DQ management cycle:

- DQ Assessment to determine the scope of problems.
- Data Cleansing to improve quality of individual records.
- Data Enrichment using external data sources.
- Match & Merge to correctly match related records and create a representative "golden record".
- DQ Firewall to prevent low quality data from entering the systems.

The screenshot displays the Ataccama DQC Manager 6.0.1 interface. The top window shows a data table with columns: src_name, src_gender, src_birth_date, src_card, src_primary_key, meta_last_update, std_first_name, std_middle_name, and std_last_name. The table contains 13 rows of data, including entries for Dr. John Smith, Jane Smith, Carline McPherson, Marilyn Kishimoto, SYSTEM MIGRATION, Raiff Kellye, Hsabal Lucy, Fredo Una, SYSTEM MIGRATION, SYSTEM MIGRATION, and Stande Melinda.

Below the table, a workflow diagram titled 'Match and merge-plan' is visible. It shows a process flow starting with 'Match' (using 'x cleanse name.comp' and 'x cleanse birth date.comp' rules) leading to 'Prepare matching values' (using 'y=f(x)' functions), then 'Match Unification' (using 'ou_all' and 'ou_masters' outputs), and finally 'Merge Representative Creator' (using 'ou_merged' output).

Modules

DQC is built on component architecture designed to be customized and is shipped with ready to use data quality modules such as Profiling, Monitoring and Reporting, together with task specific modules such as Address, Group, Contact, Household and Asset.

Interface modules allow for simple integration into an existing IT infrastructure.

Party

Qualification, identification and unification of physical persons, assets and legal entities.

Address

Cleansing and identification of address records in any format.

Contact

A contact information quality management module.

Household

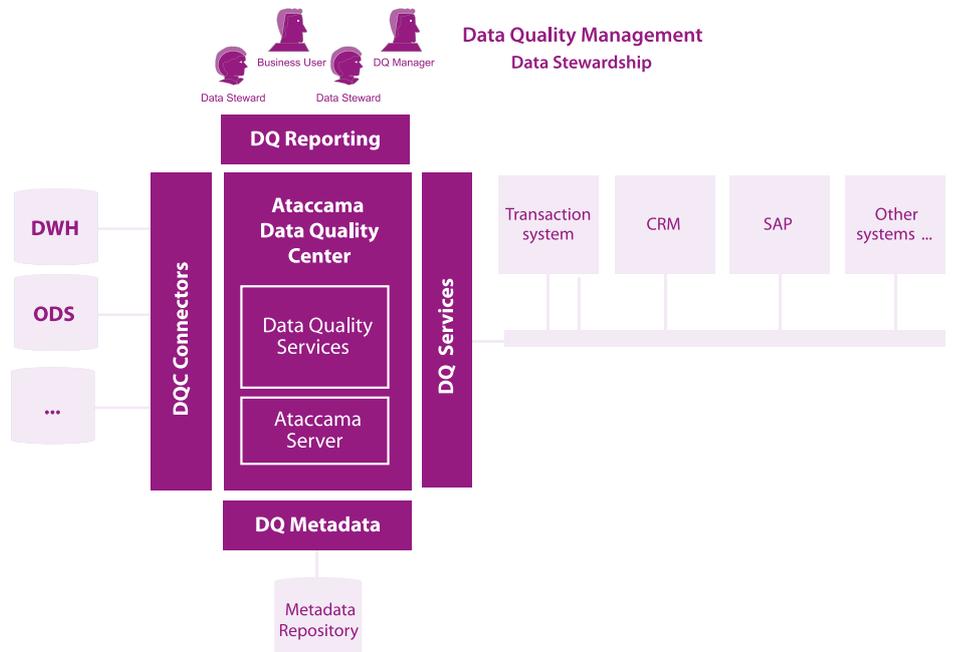
Combines client identification, addresses and additional information to identify household groups.

Car

Cleansing and enrichment of vehicle identifiers, such as VIN or license plate numbers.

Asset

An asset data identification module.



Profiling

Advanced profiling, classification and business rule management. Allows users to analyze large sets of data in near-interactive mode.

Reporting

A comprehensive data quality reporting and monitoring module.

Monitoring

A module containing scoring and data quality functions.

Batch Interface

An interface for batch processing mode.

Online Interface

An interface for on-demand processing, including web service and JMS methods and implementation of "data quality firewall" functionality to prevent bad data entry.

Connectivity

Over 600 MDC Adapters provide connectivity to ERP and legacy systems.

Product Features

Data Quality

- Designed to be used as the main hub for your data quality management.
- Delivers centralized management for rules and data quality, all controlled from one location.
- External master data systems or other data sources, DQC enables data from all sources to be integrated and managed under one data quality platform.

Flexibility and Open Standards

- The solution is easily configured using bundled administration applications.
- Does not require any external tools or other 3rd party applications.
- DQC is platform independent, based on open standards (XML, Web Services), and uses data models portable across all existing database platforms

Modern & Powerful

Parallel data processing methods to ensure scalability. Enables incremental data processing in both batch and online processing modes.

Unique Profiling

Fast data analysis - advanced semantic profiling functionality.

Advanced Core Functionality

Set of algorithms capable of hierarchical unification by identifier keys irrespective of internal data structures - can perform approximate matching in record unification.

Data Enrichment with External Sources

Easily taps into external data sources to retrieve records. DQC utilizes name, organization, titles and other dictionaries to verify and validate input data. This functionality can be extended with customized variables tailored for individual needs.

Cost Effective

Ataccama DQC delivers rich functionality and easy implementation for surprisingly low cost. Furthermore, by leveraging modern platforms and code optimization techniques, this solution requires a significantly less powerful platform than that of our competitors.

About Ataccama

Ataccama Corporation is an international software company that prides itself in delivering cutting edge technology used for Data Quality and Master Data Management. Leading financial, commercial and government organizations choose Ataccama technologies for its proven ability to execute and deliver real business benefits.



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