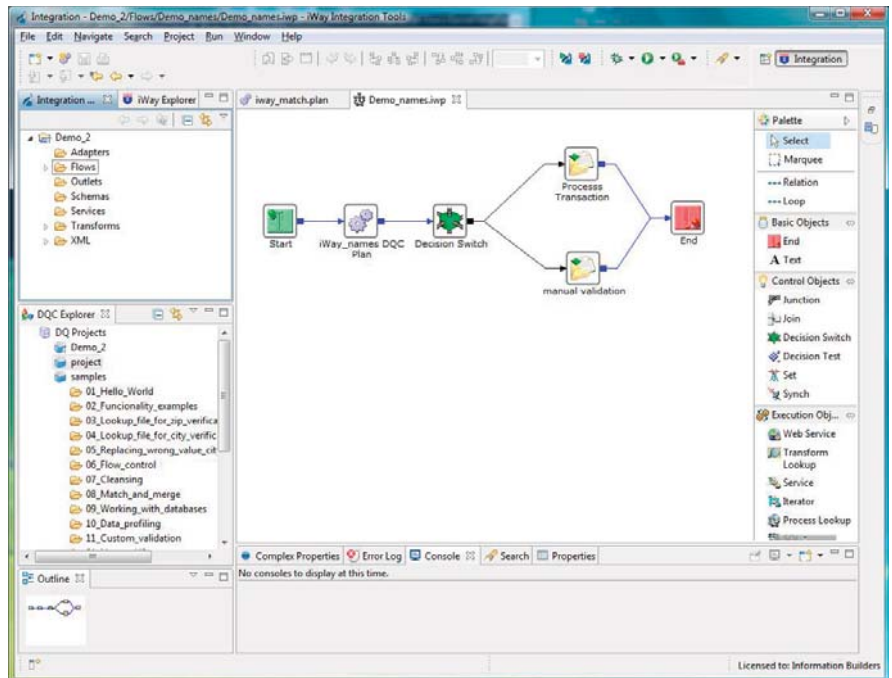


iWay Software enables online, real-time, and batch integration of information assets, internal business processes, and external business partners all from a single platform.

iWay Data Quality Center



iWay DQC in an iWay Service Manager process flow.

Evaluate, Monitor, and Manage Information in Any System

iWay Data Quality Center (DQC) is an essential tool for complex data quality management. iWay DQC is designed not only to evaluate, monitor, and manage data quality in different information systems, but also to prevent incorrect data from entering these systems in the first place. iWay DQC is bundled with a specific set of business rules and localized dictionaries. Banks, insurance, healthcare, and telecommunications companies choose iWay DQC for easy implementation and tangible business results.

Typical Data Quality Problems

Within enterprise business systems, insufficient data quality is notorious for compromising timely and accurate customer communication. Internal systems often contribute to the problem by implementing: incomplete or conflicting business rules, different scoring and validation methods, or data requirements that cannot adapt to specific challenges such as those posed by foreign person attributes. A reliable identification process must be adaptable, and can be simple or complex. Some solutions take a simple approach based on specific and consistent identifier keys (e.g.,

social security or other legal entity identification numbers), which are often subject to human data-input errors. These identifier keys are often unavailable and their use can be subject to legal limitations.

High Performance and Methods

Data cleansing is only a small part of data-quality management. One of the main technological functions is to unify any number of records that cover the same subject. This is known as unification functionality. iWay DQC enables data integration from different sources by analyzing the content, applying cleansing rules, and validating it against specified dictionaries. The processed data can then be confidently unified using iWay DQC's hierarchical unification methods. This process also enables associative pairing – which includes partially complete records – even when different identification-key structures exist. So, a single identification key is not required. When data quality is poor or insufficient identification-key information impacts unification results, iWay DQC explicitly marks records to allow for manual correction.

iWay DQC Technology

iWay makes the difficult possible. The technology behind iWay DQC was invented to solve a wide range of data quality issues, such as improving customer identification processes, vehicle and address identification, and the ability to specify additional business criteria.

iWay DQC can be used for:

- Data quality control in transactional and analytical applications
- Data cleansing and unification during data system migrations
- Data quality assurance in software integration projects
- Quality improvements in address and contact information
- Data cleansing and unification of customer data for client identification purposes
- Customer profile validation and correction of incomplete data records
- Customer input data validation in self-service online applications
- Data profiling as a part of data-integration project analysis

Modules

iWay DQC architecture is customizable and shipped with ready-to-use data-quality modules (DQC Base, DQC Profile, and DQC Reporting), business task-specific modules (DQC Address, DQC Party, DQC Contact, and DQC Car), and technology modules (DQC Batch and DQC Online) that allow for easy integration into existing IT infrastructure.

DQC Base – Core module used in data-quality and data-flow management, including the ability to define business rules.

DQC Profile – Advanced data profiling, including semantic analysis and the application of business rules.

DQC Reporting – Data quality reporting and monitoring module.

DQC Address – Parsing, cleansing, and identification of address records in any form, including unstructured text in one field.

DQC Party – Data quality identification and unification of physical persons and legal entities.

DQC Contact – Contact information quality-management module.

DQC Household – Implementation for client identification, addresses, and additional information used to identify households.

DQC Car – Vehicle data identification module.

DQC Batch – Data interface for batch-processing mode.

DQC Online – Data interface for on-demand processing mode, including Web service methods and implementation of “data quality firewall” functionality.

The technology behind iWay DQC is fully configurable by the end user through management applications or metadata. New configurations for specific information entities can be easily derived from bundled templates. For example, modifying iWay DQC Party’s configuration template can create new configurations for managing the data quality of driver’s licenses.

Product Features

Data Quality

iWay DQC acts as the main hub for data-quality management within your organization. iWay DQC delivers centralized management for business rules, data quality, and data flows. iWay DQC also enables data from external master-data systems and other data sources to be integrated and managed with one data-quality platform.

Flexibility and Open Standards

The solution is easily configured using bundled administration applications. Operation does not require any external tools or other third-party applications. iWay DQC is platform independent (Java™), based on open standards (XML, Web services, and SOA), and implements documented conceptual data models that are portable across many existing database platforms.

Modern and Powerful

iWay DQC uses parallel data-processing methods to ensure scalability and enable incremental data processing both in batch and on-demand online processing modes. Online processing can perform the data-quality process within <0.1 second. Batch processing can process more than 5,000,000 records in an hour. DQC can be embedded into B2B, A2A, portal, and ETL processes for both online and batch processing.

Unique Profiling

For fast data analysis, iWay DQC uses advanced semantic profiling.

Advanced Core Functionality

The core system is comprised of a set of algorithms capable of hierarchical unification by identification keys regardless of internal data structures. By using the determined keys, iWay DQC can perform approximate matching in record unification.

Find Out More

To see how we can help you succeed, visit us at **iwaysoftware.com**, e-mail us at info@iWaySoftware.com, or in the U.S. and Canada, call toll-free **(866) 297-4929**.

External Reference Data Sources

iWay DQC easily taps into external data sources, such as national addresses or names registries, to retrieve reference data for parsing, cleansing, and validation. It also uses names, organizations, academic titles, phone numbers, and other dictionaries to parse and validate input data. This functionality can be extended with custom lists.

Deployment

iWay DQC is fully compatible with other platforms used in the industry. This is achieved by leveraging proven Java technologies that are compatible with a wide range of platforms. This technology is easier to integrate with existing IS/ICT infrastructure and integrates with virtually any ESB, SOA, or ETL tool, including iWay Service Manager, WebSphere, WebLogic, and NetWeaver.

Return on Investment

iWay DQC delivers rich functionality and easy implementation for a surprisingly reasonable price. In addition, by leveraging modern platforms and code-optimization techniques, this solution requires a significantly lower initial investment.



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