



Data Quality Evolution

significant resources to meet the demands of this changing environment.

An analysis of 4.5M records submitted to Secondary Uses Services (SUS) showed 3.6M contained sufficient information to generate a PbR value. In addition, only 38,000 records contained a valid entry in all mandatory fields as per the NHS Data Dictionary.

Following an Information Standard Notification (ISN) (previously known as DSCN), SUS may reject data submissions from any Provider who has not implemented any new minimum data quality checks on their data. Such a rejection would have a dramatic impact on a Provider's ability to comply with their reporting requirements, verify their claims for funding under PbR and to inform commissioners of work undertaken.

Data Quality Evolution (DQ Evolution) represents a powerful and flexible data quality management solution with the capacity to assist Healthcare Providers with the management, validation and submission of core data sets required by statutory agencies as well as timely, interactive and accurate management reports. Developed by our software partners, this innovative application gives Healthcare providers with the detailed feedback vital for validating and maintaining data quality, in addition to identifying the source and nature of errors.

CURRENT ISSUES

Healthcare Providers are required to deliver reports, information and data on a regular basis. The data for these reports are largely extracted from the patient's Clinical Record and/or associated records. The data is used to assess output, calculate tariff, to assess performance against targets and to guide commissioning. For example, if a Healthcare Provider on a Payment by Results (PbR) tariff, can deliver high quality and accurate data, this ensures reimbursement for the correct value of the activity delivered. However, many Providers, both NHS and Independent Sector (IS), have difficulty submitting good quality data. Government policies such as 18 Week RTT have meant that the scope of information requested continues to expand. The conversion from CDS version 5 to the much more data quality driven CDS version 6 is another requirement.. Providers are required to expend

BENEFITS

DQ Evolution can assist in alleviating the negative impact associated with the issues mentioned. DQ Evolution enables Healthcare providers to:

- Reduce financial and performance risk
- Improve data quality
- Reduce costs
- Improve efficiency
- Streamline business processes
- Target DQ to your organisation's needs

FUNCTIONALITY

The DQ Evolution is primarily focused on enabling NHS Trusts to meticulously check generated data to meet their various reporting requirements. The main functions include:

Validation System

- Ability to perform differential processing (reduce load on server and eliminate redundant checking)
- Can be integrated to work with existing systems/warehouses
- Granular control over validations; ability to split validation sets and adjust properties of each set
- Granular control of validation metadata – easily customisable to fit organisation's needs
- More enhanced CDS Validations based on CDS Type, Version and Update Type
- Bespoke Validations - specified by you
- Classification of error levels (to assign relative severity of errors)
- Ability to define validation classes for improved error analysis
- Integrate with reporting solution to easily drill down to source of error - with visible metadata

Field Level validations

- Presence Checks - checks whether mandatory data is present, also exclusion checks to identify erroneously included data
- Format Checks - precise checking of formats character by character (can define complex formats)
- Data Length - checks whether data is within the preset length limits
- Attribute Checks - checks the values belong to predefined set of values (often validated against NHS Data Dictionary attributes, including default values)
- Range Checks - checks that the field conforms to the valid SQL condition defined in the metadata
- Applicable Periods - define date ranges for which validations are applicable from and to

- Can define multiple sets of field validations of the same field, for example to define different validations based on date range

CDS Validations

- Separate validation processing purely on CDS data
- Can define validations differently for different CDS versions
- Can define separate validations for CDS deletions
- Thorough validations done at field level based on NHS Data Dictionary definitions
- Ensures data is more stringently validated than on SUS

Bespoke

Ability to define complex bespoke validations that can not be easily incorporated in the field level validations; these are custom coded validations based on your individual requirements

WHY DQ EVOLUTION?

DQ Evolution delivers everything it promises and much more. With our ongoing commitment to provide highly successful healthcare solutions to the NHS, we continue to improve our design and development processes to deliver enhanced healthcare information management.