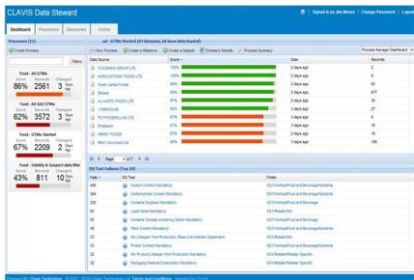




Clavis Data Validation Services on-Demand

Benefits

- Support Global Data Synchronisation with GS1-compliant Data
- Collaborate with Suppliers, Retailers or Data Pools to deliver High Quality Data in the Supply Chain
- Monitor Data Quality and Integrity, and Provide Scorecards that Drive On-going Improvement
- Eliminate Specification, Building and Maintenance of Data Validation Rules
- SaaS Delivery Model Means Rapid and Universal Deployment, with no New Infrastructure Required



Data Quality Scorecards are accessible in any browser and can be shared among Suppliers, Retailers and Data Pools

Clavis Technology is a leading provider of cloud-based data quality and data validation services for all participants in the consumer products sector. The solution is used by Suppliers, Distributors, Retailers and Data Pools to ensure the product data they exchange is complete, accurate and conforms to GS1 standards and other Data Quality requirements. By simply publishing product data to Clavis via a certified Data Pool, consumer products suppliers can access a comprehensive dashboard of Data Quality reports and scorecards. Clavis data validation and monitoring services can also be integrated directly with internal supplier and retailer data management systems.

Data Quality Dashboard & Reports

The reports and scorecards produced by Clavis are designed to monitor Data Quality over time, thus enabling data management personnel to fix issues as they are identified and before they cause problems in the supply chain. With ongoing monitoring providing continuous feedback and product Data Quality metrics to Data Pools, Suppliers and Retailers, Clavis Data Validation Services drives continuous Data Quality improvement in the supply chain.

The solution is based on hundreds of robust Data Quality specifications such as GS1 global, regional and sector-specific definitions, as well as retailer requirements and powerful "suspect data" rules based on business subject matter expertise. By leveraging the standard validation services developed by Clavis, Data Pools, Suppliers and Retailers save countless man days in specifying, building and maintaining the hundreds of validation rules to enforce data requirements when preparing data for trading purposes or uploading it to a Data Pool. Clavis sources, manages and updates its Data Quality rules and reference data on an on-going basis as GS1 standards and other requirements evolve.

Data Quality Rules

Hundreds of rules available at key points in the supply chain:

- GS1 Global Standards
- Weights and Dimensions
- Nutrition and Dietary Information
- Product Descriptions and Classifications
- Regional and Sector-specific GS1 Definitions
- Retailer Requirements for Large Chains
- Powerful "Suspect Data" Rules Based on Business Subject Matter Expertise

Scorecarding & Collaboration

Monitoring and oversight are essential to ensure data visibility and accountability while maintaining Data Quality improvement over time. Clavis Data Validations Services presents the results of Data Quality tests in an easy to understand dashboard with scorecards that enable your organisation to identify where data problems exist. Data Quality scorecards are accessible in any browser and can be shared among Suppliers, Retailers and Data Pools, enabling collaboration across the supply chain to fix product data issues for good.

Data Validation as a Service

Clavis Data Validation Services is the first cloud-based solution for monitoring and validating your trading partner data to ensure that it complies with relevant GS1 standards and Data Quality rules. The software as a service solution can be deployed at any point in the end-to-end supply chain. Clavis Data Validation Services is easy to use and deploy, and it supports all key stakeholders in the supply chain. The solution is robust and scalable and is available on a subscription pricing model.

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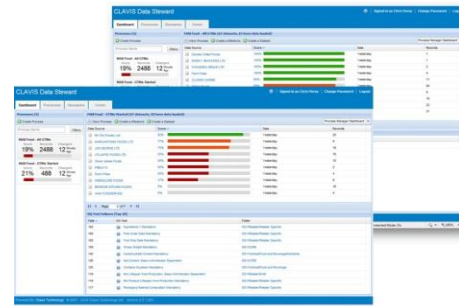
Data Quality Scorecards Driving Data Pool Adoption for GS1 UK

GS1 UK is rolling out TrueSource, a GDS enabled service, to suppliers and retailers throughout the UK. From the start GS1 UK realised that proactive Data Quality measurement and reporting needed to be a key component of the TrueSource value proposition if it was to achieve its number one objective of delivering high-quality, *trusted* data to its subscribers.

But like all GDS services, TrueSource is dependent on hundreds of different Suppliers for its data, and most of its Suppliers have different processes for collecting and uploading their data. Inaccurate, incomplete or low quality data is a constant risk. How could GS1 control the quality of data in TrueSource when it didn't have control over the people or processes that provided the data?

Solution

To deal with the problem GS1 UK has deployed Clavis Data Validation Services as part of its Supplier and Retailer Data Pool on-boarding process. The solution provides detailed reports on the quality of Suppliers' data as it is uploaded into the Data Pool to ensure it complies with relevant GS1 standards and the specific requirements of individual retailers. The solution includes hundreds of robust Data Quality rules based on GS1 global classifications as well as retailer-, sector-, and region-specific requirements, and "suspect data" rules based on business subject matter expertise.



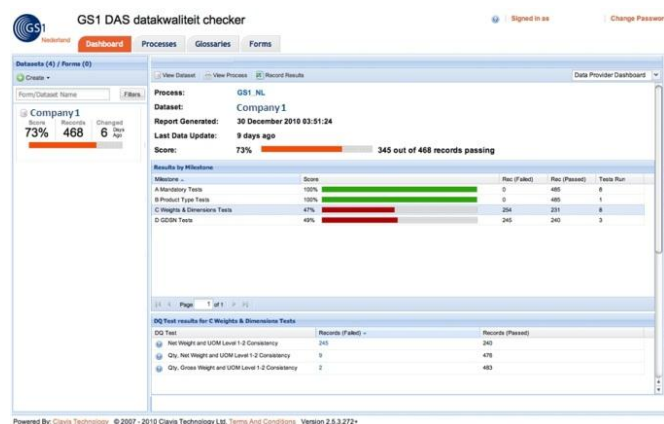
"Clavis brought visibility to Data Quality issues, empowering suppliers to publish accurate and trusted data to TrueSource."
Malcolm Bowden, Business Development Director, GS1 UK

Benefits

- Trusted data driving Data Pool and Global Data Synchronisation (GDS) adoption
- Reliable, standardised on-boarding processes for Supplier data
- Consumer confidence in data and product descriptions in Data Pool
- On-going monitoring to ensure Data Quality levels are improved and maintained over time

GS1 NL Suppliers Monitor Data Quality for Supply Chain Efficiency

"We turned to Clavis Technology to enable our Supplier members to monitor the quality of their data in the GS1 DAS Data Pool." **Sjoerd Schaper, Senior Consultant, GS1 Netherlands**



With an established Data Pool and a long track record in collaborative e-commerce, the consumer products community in The Netherlands sees Data Quality as one of the key pillars supporting Global Data Synchronisation. To achieve the levels of Data Quality needed to underpin a successful GDS program GS1 NL realised it needed a sustainable Data Quality program for the long term that was based on continuous monitoring to ensure Data Quality levels are improved and maintained over time.

Solution

Following a pilot with 10 suppliers in the second half of 2010, GS1 NL is now rolling out Clavis Data Validation Services to all its 900 suppliers. The GS1 DAS Data Quality Checker powered by Clavis Technology brings visibility to Data Quality issues in product data published to the GS1 DAS Data Pool. The solution analyses data attributes in the Data Pool against a defined set of Data Quality Tests and presents the results in a Data Quality Dashboard for each supplier company.

The Dashboard is updated on a weekly basis. It shows a company's Data Quality Score and enables data managers to drill into the detail of data that has failed any of the required tests for the GS1 DAS Data Pool. Based on the results highlighted by Clavis, GS1 DAS members can investigate errors within their own systems and processes to correct the data in the Data Pool.

Benefits

- Community-wide Data Quality metrics and rankings
- All suppliers using the same rules and reference data to monitor Data Quality
- More efficient data exchange with high quality and reliable data in the Data Pool
- Confidence in data and product descriptions in Data Pool
- On-going monitoring to ensure Data Quality levels are improved and maintained over time