

Clavis Data Validation Services™ on-Demand

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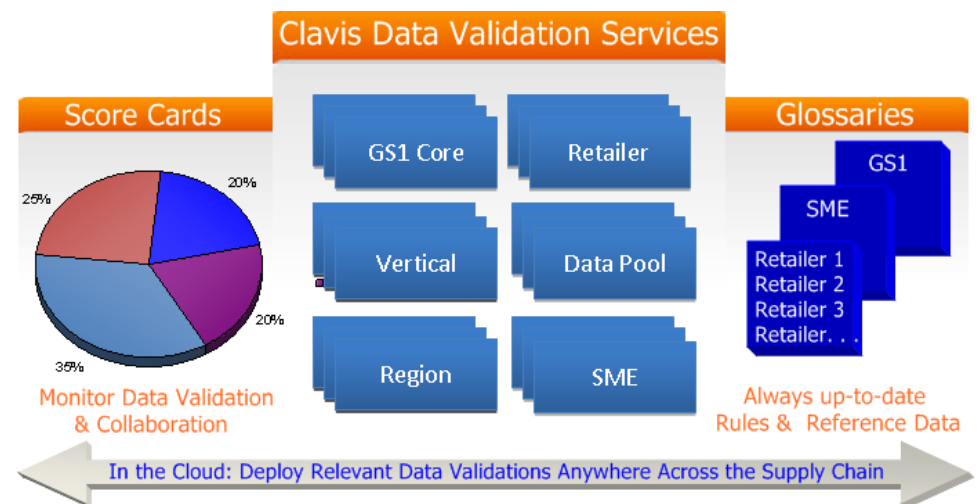
Is poor quality data causing your eCommerce information to be rejected by customers or data pools?

Do data errors and invoice mismatches regularly result in late payment for goods already delivered?

Are data problems leading to supply chain breakdowns and rework, delaying new product introductions and ultimately damaging your valuable brands?

If the answer to any of these questions is yes you need Clavis Data Validation Services™ on-Demand, an innovative, efficient, low cost and easily adopted solution that ensures your data conforms to relevant GS1 standards and customer specific requirements before you share it with your trading partners.

The exchange of high quality product data between trading partners is the foundation of business-to-business transactions. Technology is a key enabler for eCommerce, but it is thanks to the standards developed by GS1 that manufacturers, distributors and retailers around the world can truly leverage information to streamline operations and manage trade efficiently. Originally created by manufacturers and retailers to improve the effective distribution of food and consumer goods, today GS1 standards are used by tens of thousands of companies in dozens of sectors including healthcare, hardlines, aeronautics, defence, chemicals, high-tech, and still, of course, the retail supply chain.



For a Free Trial of Clavis Data Validation Services Email:
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Clavis Data Validation Services: On-demand web services to validate your data against GS1 standards and trading partner requirements for the regions and industry verticals where you do business.

Conforming to GS1 Standards

Given the nature and reach of GS1 and the demands of global trade the standards cover hundreds of different attributes, some of which are required only in certain regions and verticals, or for a group of specific customers and product types. GS1 defines approximately 400 standard attributes to describe an individual product. There are 50 to 100 additional attributes for each vertical such as FMCG, hardlines or consumer electronics, and a similar number of additional attributes per market. For any of these attributes, validation rules and requirements can vary from country to country. While increasing numbers of retailers use GS1 standard attributes, many of them also supplement it with their own specific rules and requirements for some of the key attributes.

As such, checking that your data conforms to the correct subset of the GS1 standards and retailer-, sector-, or region-specific requirements can be a real challenge for suppliers. And the negative impact of getting it wrong is significant; if data is not valid or complete it will be rejected by the end-customer or intermediary data pools. As a result supplier organizations experience critical shipping delays or invoice errors, inefficiencies in the supply chain and ultimately reduced business profitability and effectiveness. It can damage brands by delaying new product introductions or leaving shelves empty so shoppers are unable to buy the products they want.

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 classifications, retailer-, sector-, or region-specific requirements and data quality rules based on business subject matter expertise, at any point in the end-to-end supply chain. Clavis Data Validation Services are based on the Clavis Data Steward™ platform, a ground breaking solution for managing data quality rules and reference data, and delivering validation and monitoring as a service to enable organizations to get their data "right first time".

Up-to-date Rules & Content

The Clavis Data Steward platform includes thousands of data quality rules. Any combination of rules can be delivered as Data Validation Services to fit in with your data preparation processes in batch or real-time. Clavis sources, manages and updates data quality rules and reference data on an ongoing basis as GS1 standards and other requirements evolve. And because the solution is available in the cloud users always have access to the latest and most up-to-date version of relevant rules and standards for the consumer goods industry.

Score carding and Collaboration

Monitoring and oversight are essential to ensure data visibility and accountability while maintaining data quality improvement over time. Clavis Data Steward presents the results of data validations in an easy to understand dashboard with score cards that enable your organization to identify where data problems exist and to collaborate across the supply chain to fix issues for good. Clavis dashboards provide data managers with a high-level view of errors across multiple processes, applications and data providers. Detailed validation reports allow data providers and data managers to investigate data errors by viewing the raw data as well the details of the validation rules.

GS1 Data Validation Services:

- **Core GS1 data requirements across all verticals/regions**
 - Basic Product data
 - Weights & Dimensions
 - Product Description
 - Classification and Trading
 - Marketing
 - Packaging
 - Handling & Delivery
- **Vertical**
 - Hardlines
 - Food & Beverage
 - FMCG
 - Music & Movies
 - Office Supplies
- **Regional e.g.**
 - US
 - Canada
 - UK
 - Netherlands

Value Add Validations

Data quality and accuracy validation/checks, based on subject matter expertise and many years' experience in data quality management for CPG suppliers and retailers.

- **Multi-level Weights & Dimensions**
- **Product Descriptions**
- **Hazardous Materials**

Retailer Specific Data Validation Services

Clavis also provides validation services based on the individual requirements of specific retailers including, but not limited to:

- **Lowes**
- **Sears**
- **Ahold**
- **Home Depot**
- **Carrefour**

Clavis Data Validation Test Deployment Options

There are a number of ways to test your data against Clavis Data Validation Services, depending on where you need to fit controls into your data preparation processes.

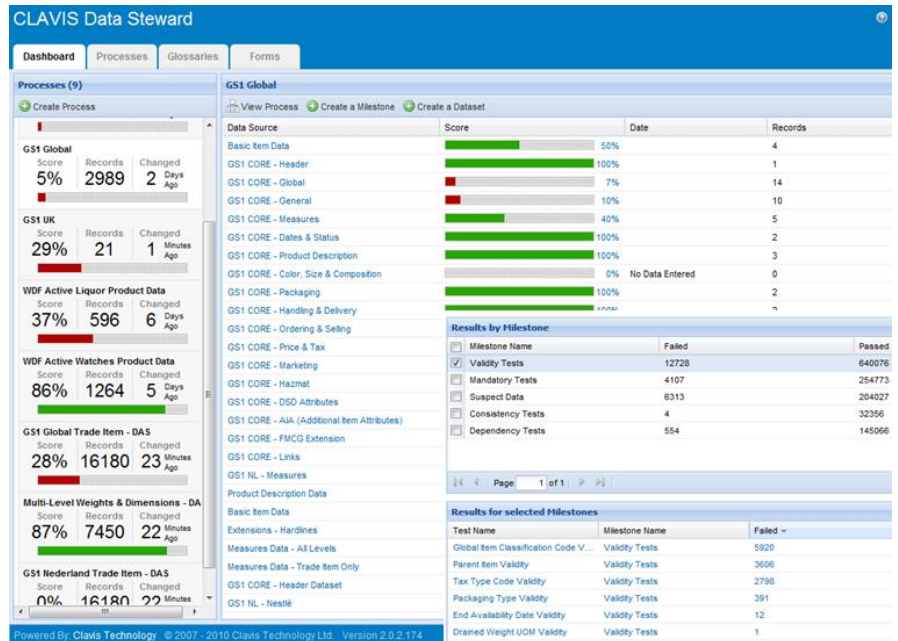
- **On-Demand Data Upload:** Upload your data to Clavis Data Validation Services using a standard web browser and receive immediate detailed reports highlighting errors, and incomplete or invalid data.
- **Web Service API:** Simply send an xml message to Clavis' open REST API – this provides a fast and easy way to integrate Clavis Data Validation Services with applications used in your data collection and maintenance processes.
- **Real-time Data Capture:** Integrate directly with SAP or use Clavis Form Builder technology to embed Clavis web service calls into new and existing data collection forms based on Microsoft Word, Microsoft Excel, web forms, rich Internet applications or Adobe LiveCycle, to validate data as it is entered into forms by anybody inside or outside your organization.

About Clavis Technology:

Clavis Technology is a leading provider of on-demand data validation web services based on up-to-date industry standards such as GS1, retailer-specific requirements and data quality rules based on business subject matter expertise. Clavis Data Steward™ and Clavis Data Services™ enable consumer packaged goods (CPG) suppliers and retailers to ensure that their product data conforms to international standards such as GS1 and retailer, sector or country specific requirements before it is shared with trading partners or data pools. Clavis enables organizations to get their data 'right first time'.

The cloud-based data quality solutions provide data validation and monitoring throughout the end-to-end supply chain from data capture, creation and origination up to and beyond the point where data is exchanged with trading partners or data pools. And because Clavis Data Validation Services are provided online as Software as a Service, based on the Clavis Data Steward platform, users always have the latest and most up-to-date version of relevant rules and standards for the consumer goods industry.

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Clavis score cards enable your organization to identify persistent data problems and to collaborate across the supply chain to fix issues for good.

Who is Clavis for?

Clavis Data Validation Services is designed for use by suppliers, distributors and retailers in the CPG sector whose product data needs to conform to GS1 standards and other requirements at any point in the supply chain. For organizations that subscribe to a data pool then conforming to GS1 data requirements is a must. But even where data pools are not in use, the new-line forms and portals of retailers increasingly require that product data conforms to GS1 standards and classifications. Data that doesn't conform to the required standards will be rejected by retailers and/or data pools leading to supply chain breakdowns and rework, delaying new product introductions and ultimately damaging brands. As a SaaS application Clavis Data Validation Services is easy to use and deploy and the solution supports all key stakeholders in your trading data preparation processes, such as:

- **Account managers** responsible for preparing data for a data-pool or direct transfer to a retailer
- **Data management teams** responsible for preparation and maintenance of new product data
- **Business users** involved at any level in the creation of new product data

Right First Time Data

Data Quality is always important, but when it comes to collaboration between trading partners the quality of the data takes on an even greater significance. The exchange of high quality, GS1-compliant data between trading partners is the foundation of business-to-business eCommerce.

On-demand Data Validation Services from Clavis will ensure your data meets the specific subset of GS1 standards and trading partner requirements needed for the product types, regions and industry verticals where you do business. The solution is delivered in the cloud as Software as a Service and as such can validate your product data at any stage along the end-to-end supply chain. It is available as a low-cost subscription-based service, is easy to adopt and always has the most up-to-date rules and reference data for GS1 standards and classifications.