good sign
PRICING BILLING MONETIZATION

GOOD SIGN AND **DATA MEDIATION**

A QUICK GUIDE:

TO EFFECTIVE DATA MEDIATION WITH GOOD SIGN

Data mediation is a broad concept that refers to the process of facilitating communication and interaction between different data sources, systems, or formats in a harmonized and standardized manner.

It involves acting as an intermediary or a bridge between various data entities, ensuring seamless data flow and interoperability across heterogeneous environments.

The primary objective of data mediation is to resolve the differences in data representations, semantics, and structures to enable meaningful data exchange and integration.

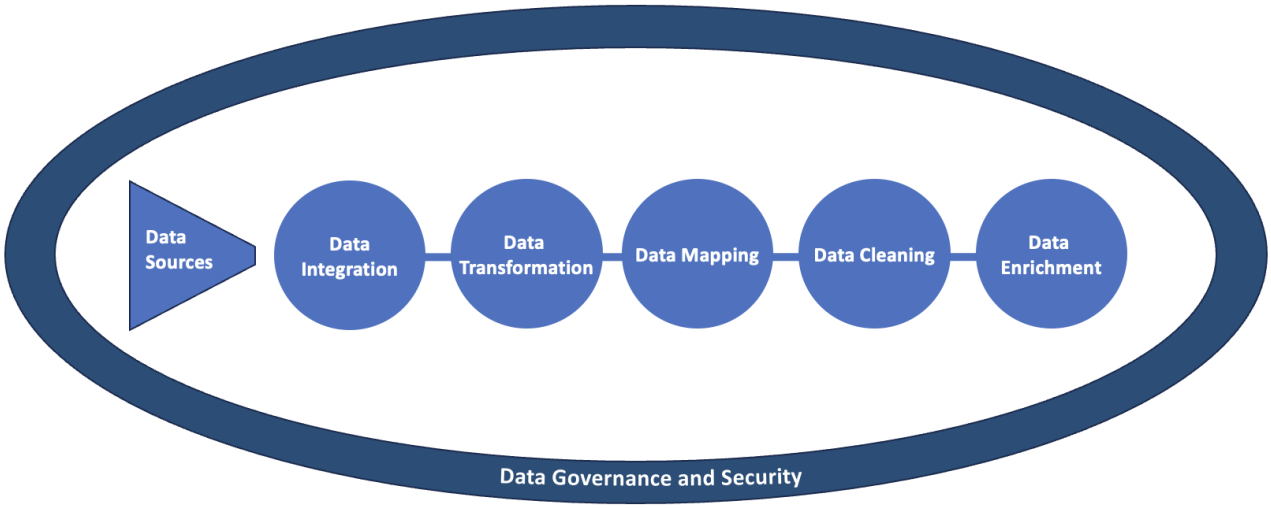
Usually, data mediation is required for automated data feeds when base data (including products, prices and agreements) with usage data sources is integrated. The mediation requirements may vary depending on the number of data sources and integration methodology. In both cases, this is something Good Sign can master.

Let’s take a look at data mediation in practice and see how we here at Good Sign can help customers with this challenge.

1. DATA INTEGRATION

Data integration helps combine data from dissimilar sources, such as data lakes, databases, applications, or APIs, into a unified view. This integration can be crucial for organizations that rely on diverse data sources to make informed decisions and gain valuable insights.

Data integration can handle communication protocol differences, enabling systems that use different communication protocols to exchange information effectively. This is common in complex distributed systems and service-oriented architectures.



Components of the mediation process

2. DATA TRANSFORMATION

Depending on the data flow, real-time data requirements, and possibly the use of the integration platform, the optimal data format is based on the requirements. Different data sources often use various data formats, such as XML, JSON, CSV, or proprietary formats. Data mediation involves converting data between these formats to ensure they are compatible and can be processed effectively by target systems.

The value of the collected data is realized when information is shared between systems and stakeholders. Good Sign allows organizations to transform, extract, and deliver data, either directly to stakeholders or to other systems for further processing.

Good Sign solution provides interfaces, that allow organizations to import data from source systems with various protocols and formats. All popular integration methods are supported, including API, SFTP, SMTP and manual file import. Depending on customer requirements for interface technology, 3rd party applications or data fetching frequency due to reporting, interfaces in Good Sign can be adopted for the various purposes. If needed, interfaces can be easily configured by the customer directly within the Good Sign UI application. As a result, new data sources can be integrated within minutes after the data has become available. Typical data sources are sales-side systems like CRM, web shops, and operational service delivery systems such as SaaS platforms, ITSM tools, and other usage data.

3. DATA MAPPING, CLEANING AND ENRICHMENT

Data Mapping
In situations where the same data elements are represented differently in various systems, data mediation involves creating mappings that translate the data from one schema to another. This process allows for data alignment and correct interpretation.

When data semantics differ across systems, data mediation translates and aligns the meaning of data elements, ensuring that they are interpreted consistently across the ecosystem.

Organizations utilizing Good Sign typically have multiple data sources with completely different schemas. Good Sign automatically maps data sources to several dimensions: To which stakeholder a data object belongs to, and how it relates to other data sets and sources. As a result, the relations between different entities can be interpreted and utilized more effectively.

Data Cleaning and Enrichment
As part of the mediation process, data may be cleansed of errors, duplicates, and inconsistencies. Additionally, relevant information may be enriched by supplementing it with additional data from other sources, enhancing its value and accuracy.

If all data were rich and without errors, the world would be a better place. However, this is not the case.

Good Sign wants to assist organizations in finding the value hidden between data distortion and errors. The rule-based engine of Good Sign filters irrelevant and faulty data objects while enriching relevant data with other sources when necessary. All of this with minimal configuration effort needed, and no need to modify the existing data sources and systems.

4. REAL-TIME DATA MEDIATION

In certain scenarios, data mediation must be performed in real-time, ensuring that data is translated and integrated on-the-fly as it is generated or requested. This is particularly important for applications that require up-to-date information. Additionally, real-time integration requires a mediation layer with predefined routing rules, reliable protocol handling between the systems, error handling to ensure the undisrupted data flow and carefully planned event-driven architecture which enables the triggered actions based on the given information. Typical step with real-time mediation is a real-time rating, i.e setting the right price for the usage data received.

The results of real-time mediation and rating can be exported to other systems without delay, or further utilized in Good Sign. Good Sign is built for high data volumes, up to billions of monthly transactions.

5. DATA GOVERNANCE AND SECURITY

Data mediation also plays a critical role in ensuring data governance and security. It can enforce access controls, data privacy regulations, and data quality standards during the data exchange process.
Solution security is at the focal point of planning, design, development, testing, deployment, and running Good Sign.

In Good Sign, security topics are divided into the following parts:

- General Information Security Policy, covering, for example, security measures related to organization, premises and personnel.
- Data Processing Agreement, covering roles and responsibilities related to Customer Data processing.
- Data Privacy Policy, covering security measures related to data, especially data subjected to GPDR directives, and
- Solution Security Policy, covering security measures related to Good Sign, as well as procedures around its development, maintenance, and use.

The overall security objective is to enable several business parties to use the solution securely and keep their data secured. Development of Good Sign is effectively versioned, and each version is tested before deployment and monitored during the running phase for security issues and risks. Both security and risk management are organized in a documented manner and reported systematically to the board of Good Sign.

SUMMARY

In summary, data mediation is an essential component of data integration solutions, Enterprise Service Buses (ESBs), middleware, and data virtualization platforms. It facilitates seamless data flow, improves data consistency, reduces redundancy, and enhances overall data management, ultimately leading to better decision-making processes and organizational efficiency. With Good Sign, these goals will be fully met without compromising on security.

CONTACT US

Whether you're curious about learning more, seeing a demo, or talking to us, we're happy to answer any questions.
www.goodsign.com