

# The ETL Tool for Data Harmonization, Integration, and Quality Assurance

## Unify your ETL processes with SAP Data Services

### What is SAP Data Services?

SAP Data Services is part of the SAP Business Objects Platform and provides an application for implementing ETL processes (Extract, Transform, Load). In addition to data integration, the focus is on data quality functions. In short, you can use SAP Data Services to combine and harmonize data from a variety of data sources.

### SAP Data Services – architecture

So that the SAP Data Services are exceedingly scalable for as many companies as possible, a horizontal or vertical installation is possible. With horizontal installation, processes are distributed across several servers on the network in order to achieve the best possible performance. With vertical installation, processes are restricted to one computer on the network, which means that system resources can still be used. Furthermore, the probability of failure is reduced thanks to redundant storage.

### Components

The tool encompasses various components, which have to be installed and configured. Here, the striven-for scaling is critical for the correct distribution of the system.

1. The Data Service Designer is the development tool for creating and executing jobs.
2. The Data Service Engine is the interface between the Data Processing Engine and Data Service Suite and serves to execute individual jobs. It also includes a central repository, which contains predefined objects and handles version control.
3. The Data Service Access Server is responsible for transmission between the engine and external data services. This way, you can use the Access Server and Web Administrator connections to manage web-based resources and integrate nearly any data sources.

## SAP Data Services – functions



## SAP Data Services – supported data sources



### Functional scope

The goal of SAP Data Services is to improve general data quality. This is achieved primarily by combining, transforming or enriching the data. Then the data can be sent to any data storage. The result is simplified ETL workflows and easier work for the primary target group: ETL developers.

In addition, it is possible to aggregate data and provide it with geocodings or address standards and to prepare it for the data warehouse. All transformations can be done in parallel and used as part of data profiling.

Integrated text analysis, which can be used to reveal relationships in data; a real-time data query; and a batch-based data query are also included. Additional functions and process automations are possible with the integrated script language.

### Benefits of SAP Data Services

In addition to excellent performance and extensive data manipulation possibilities, the biggest benefit is Improved data quality. Thanks to the flexible architecture, performance optimizations can also be adapted ea-

sily to the actual circumstances. Last but not least, there is a great variety of connections that can be made with SAP Data Services, so that nearly any data source can be connected to your data warehouse easily.

### Conclusion

SAP Data Services is an application intended primarily for professional ETL developers and companies with a wide variety and especially large data sources. Depending on the procedure and complexity, there may be greater infrastructure and resource requirements.

### What we can offer you

We have been involved for many years in the development of complex ETL processes, data integration, and data quality projects. We coach, implement ETL projects, and assist you, from installation to administration to the operation of your environment.

We will be glad to answer all of your questions and advise you on your start with SAP Data Services!



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