BARC GUIDE

DATA, BI & ANALYTICS 2022

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An agile data transformation and circulation, the key to business users' autonomy and reactivity

Agence de Services et de Paiement (ASP) is a French public establishment in charge of the implementing European and national public policies, it manages over 200 financial aid schemes for a wide variety of fields. The ASP develops its activity on behalf of several ministries, local authorities, and public establishments

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

ASP
Agence de Services
et de Paiement

The initial requirement was to construct a solution which addresses a strong demand from the French government to strengthen the fight against frauds, especially in relation to the newly added partial activity financial aid, put in place by the government due to the Covid19 pandemic.

For the fight against frauds, the ASP required a solution to:
• cross multiple heterogeneous data sources.
• implement complex data extraction criteria based on business rules.
• compile analytical reports.
• load / update analyzed data.

The Solution was moreover to enable users to:
• build their own reports.
• carry out their own analyzes using data from the ASP and including their own data.
• provide more freedom, autonomy and flexibility to users to leverage their data.
• meet some specific data mapping requirements.

The ASP aim was to also address the question of how to administer and control the data flow within the organization and with external

entities, as large volumes of data must be extracted from a variety of heterogenous external sources. The Suadeo solution addressed 4 primary requirements for business users:
• Control plan: to access scored files based on fraud risk criteria, defined by the authorizing officer, the ASP accountant, and the Ministry of Labor.
• Filing a complaint: constructing the elements for filing on suspected cases, reporting on the data concerned, qualifying the various associated amounts and being able to aggregate the data of all the complaints filed.
• Requisitioning: provide data at the press of a button for the judicial investigation services.
• Blocking/unblocking payments: visibility on suspected cases and report their payments blocking/ unblocking.

To perform this, the ASP uses the main functions on the Suadeo platform, which guarantees a better data circulation in open formats that can be used by third parties.

• an internal catalog listing the datasets selected by external partners.
• a file explorer of all databases or data structures.
• data transfer management tool.
• a remarkably strong on-board security system.
• a low-code solution.

Suadeo self-data services platform was used to build a data repository to aggregate data from crossing multiple heterogeneous sources with complex extraction criteria.

Data are referenced through a semantic layer via Suadeo Data Catalog, and fraud detection rules exposed through Suadeo User Data.

Business users can build their Dashboards which are subject to ongoing changes according to the evolution of anti-fraud procedures and requirements, they generate reports in total autonomy, increasing their reactivity.

Some numbers and facts:
• 400 GB of data treated
• 2,600,000,000 lines
• 2,000 tables
• 60 users
• 11 Data sources.
• The technical architecture is made up of two servers.
• Business data are imported into a single database.
• The architecture is scalable.
• The Suadeo platform allows compiling in a single database, creating dashboards and accessing feedback through a secure web portal.
• Initial implementation time, 2 months.

Suadeo

Suadeo Designer® is an agile self-data services platform that enables non-technical business users to autonomously execute full-spectrum analytic workflows from data access, ingestion and preparation to interactive analysis and the collaborative sharing of insights, to obtain a clear picture of where the business is, where it has been and where it should go.

Suadeo Designer® an „all-in-one" solution, integrates all needed BI tools: Dashboard, Pixel Clear Reports, Multidimensional Analysis, Queries, Catalogs, Chatbot (Natural Understanding Language), AI, ETL, Security and Administration, collaboration portal. Covering the entire data life cycle, Suadeo articulates the Data Governance process with restitution tools through a semantic virtualized User Data exposure layer.

Suadeo Designer® enables business users to access all governance and data restitution services, while staying very user-friendly being "low code" and highly secured, freeing them from the need of technical expertise or support.

Suadeo Designer®, USER PLATFORM
- Dashboard (Data Visualization).
- Reporting (Pixel Clear Multi format Automated Reports and Encrypted sharing).
- Exploration (Multidimensional Data Analysis).
- Requesting (Data Queries).
- Collaborative Portal (Data Sharing Platform)

Suadeo Designer®, DATA GOVERNANCE PLATFORM
- Data lineage, monitoring and cataloging (Organize & Retrieve trough a semantic approach).
- User Data (Data Management and Exposure via a virtualized DataMart)

TIME SAVING
- Low code, Drag and Drop

- Interfaces with Excel, Python, R, etc.
- Complete processing chain (Connectors, ETL, Data Governance, Dashboard, Report, security)

INVESTMENT SAVINGS
- Reduced development time
- + 300 free connectors
- Very fast deployment (3 days for 3000 users)
- Open platform, API First.

SELF SERVICE
- Calculation rules, business rules, repository, reports used,
- Associated semantics, authorization, origin of the data, etc.
- Intuitive training, 2 or 3 days for better expertise
- Control of data sources, auditing, and traceability
- Sharing analyzes via a portal

SECURITY
Suadeo Designer®, embedded security administration console enables access control to:
- Data sources, restitution tools and their components.
- The content of each restitution component. Dataset rows and columns
- Fields's encryption and pseudo-anonymization.
- Encrypted, password and digital certificate pdf exports
- On-the-fly encrypted data exposures via a secured Rest API
- Data, Metadata, Cache, Encryption
- Authentication (Kerberos, SSPI, SAML or OpenID)
- Interfaces with proprietary algorithms
- Alerts, Traceability, High availability, Versioning, Historization

PERFORMANCE
A Big Data Oriented Architecture with three access modes to guarantee the best performance for each type of user:
- Client, Server and Cache mode

Kurzprofil

Based in Paris with offices in Switzerland and Dubai, Suadeo is a French software company founded in 2004.
Suadeo Designer®, the Suadeo self-data services platform was designed to democratize the use of data, with the strong believe that the value of data lies in the use business users make out of them. Suadeo revolutionizes the BI industry by enabling business users to securely exploit and leverage their data with total autonomy without the need of technical expertise or support, in this manner increasing agility and reactivity for strategic decision-making. Suadeo is used by customers in a verity of private-sector businesses as well as in the public sector in France and internationally.

Referenzen

- MFPS Services
- Crédit Agricole Ile de France „CADIF"
- Banque Cantonale de Genève
- Valmont Group

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