

Robustify

General Introduction

- Project Overview:

This document briefly describes the new architecture for finalizing the existing solution of Robustify energy optimization (Dataiku solution in Production).
The idea is:

- to create an interface to automate data gathering from already existing tools, in order to ensure that requestors are autonomous and do not need to wait for manual action;
- to ensure the optimization and implementation of best configuration possible;
- to review the Data Model and ensure the least possible level of dependencies.

There are some changes that need to be made as part of this project:

- Create a centralized Data repository (Single source of the truth).
- Talend (Data Integration processes from Data Sources to the Data Lake).
- Build all the dashboards in Tableau.
- Build an user friendly front end application.
- Create a centralized historical Data repository (used for analysis and comparison).

Support & Evolutions

- User Access Management; [User Access Request](#)
- Incidents for Robustify are initiated through ServiceOne. Instructions can be found here - [Create an incident in Service One](#)
- Evolutions for Robustify are initiated through ServiceOne. Instructions can be found here - [Create a ticket in Service One](#)
- Assign a ticket to another team - [Support Group used within DAAI Ecosystem](#)
- Incident & Evolution SLAs - [DA&AI SLAs](#)

- [1. Web App Description](#)
- [2. User Management and Permissions](#)
- [3. Data Sources](#)
- [4. Data Loading with Talend](#)
- [5. ER Diagrams](#)
- [6. Data Flow Diagram](#)
- [7. Dataiku Data Processing](#)
- [8. Dashboard and Energy Optimization Reports](#)
- [9. System Architecture](#)
- [10. Integration with Web App](#)
- [11. Security and Data Protection](#)
- [12. Monitoring and Maintenance](#)
- [13. Deployment and Scalability](#)
- [14. Future Development & Support](#)
- [15. Acknowledgments](#)
- [coDevelopment within the application](#)

Planning

- **Pending Tasks**

https://drive.google.com/file/d/1tGrNPqMb7Gkry4dJWZSNNtOEZx3O6sacF9RI_FHyEZo/view

- **Robustify Wiki Page**

<https://wiki.solvay.com/display/BDA/Robustify>

- [General Introduction](#)
- [Support & Evolutions](#)
- [Planning](#)

Responsible & contact points:

- Application Owner - Sebastien Goeuriot
- Delivery Manager - Simon Bourguignon
- Product Owner - Alba Carrero/ Gaëtan Frenoy

Information are updated within LeanIX:
<https://solvay.leanix.net/solvayprod/factsheet/Application/a87361bc-7b65-4a89-b1f0-c0466fc460dd>

Historical participants:

- Data Scientist - Eldias Dzhamankulov and Gael Richard
- Data Engineer - Anon Kasemvilas
- Tableau Dev - Daniel Bernal ; replaced by Maxime Marboeuf
- **Incidents, enhancements or Change Request Process**
- GCP Team & Data Platform

- **Web App Links**

Dev

<https://app-robustify.dev.gcp.cloud.solvay.com>

Test

<https://app-robustify.test.gcp.cloud.solvay.com>

Pre-prod

<https://app-robustify.qa.gcp.cloud.solvay.com>

Prod

<https://energy-optimizers.solvay.com>

- **Google BigQuery Links**

Dev

<https://console.cloud.google.com/bigquery?project=prj-data-robustify-dev>

Test

<https://console.cloud.google.com/bigquery?project=prj-data-robustify-test>

Prod

<https://console.cloud.google.com/bigquery?project=prj-data-robustify-prod&ws=!1m0>

Pre-prod

<https://console.cloud.google.com/bigquery?project=prj-data-robustify-ppd&ws=!1m0>

- **Initiative Brief**

https://drive.google.com/file/d/1m11VBvp3y_5eYY6uqOmRJ8cXlhVSoaFn5Wx99qM_cE/view

- **Robustify Architecture**

<https://drive.google.com/file/d/1aIJhyGT9q9A61f8Dmwu5a5U37im5I9DhcPOoUF9Q5Q/view>

- **Project EPICs / Requirements**

<https://drive.google.com/file/d/1lqea2vjlwzLhFOZfVvfeDqQ0g9GgzxHe1k0BSavCdPg/view>

https://drive.google.com/drive/folders/1jB7fZ7_tI2SAcb9qQlOm1Rf8n9u9ri8i

- **High Level Design**

- **Low Level Design**

- **Web App UAT**

https://docs.google.com/spreadsheets/d/1IZIPU9BJfvwmPCKzWxhnTpcfIGpCqtvR77_AOu4Z9QE/edit#gid=0

- **Project Costs**

https://drive.google.com/file/d/1nb_IdPhWvirTzT7o97xJ2O6OAcBARTx6u7GfbTkue2g/view

- **Ceremonies Documentation**

Kick off https://drive.google.com/file/d/1KqkHtxqGrUAbGxRKWBJUbaY_CgtEZU2Kbm2gw_ix_HI/view

Steering Committee #1

https://docs.google.com/presentation/d/1q30Hr-zpmdoMVlIfS6E-blg8haJ-eYt8cmGzzOLkWP0/edit#slide=id.g27ef8dcb1b8_0_0

Steering Committee #2

<https://drive.google.com/file/d/1kaNI6rNjd91V8qmLFAqxSEVzJpBlhtXry3GRSacyLAI/view>

Steering Committee #3

https://docs.google.com/presentation/d/1WOFPkaCyjfzsojAl_nJW2lf5dmE53170kAq2GSdvQes/edit#slide=id.g27ef8dcb1b8_0_0

```
DS_APP_Robustify.Torrelavega_inputs -->
DM.V_FACT_TORRELAVEGA_inputs -->
DM.V_FACT_TORRELAVEGA_inputs_enr -->
DM.V_FACT_TORRELAVEGA_queue -->
DPL.V_FACT_TORRELAVEGA_queue
```