



XRN5231 – Provision of Flow Weighted Average Calorific Value (FWACV) Service

High Level System Solution
Impact Assessment

Change Overview

National Grid currently provides a Flow Weighted Average Calorific Value (FWACV) Calculation service to the Distribution Networks (DNs).

The DN's have statutory Gas (Thermal Energy) Regulation and UNC-related obligations to calculate and publish charging zone CV information to Shippers.

National Grid has announced it is to withdraw from providing the Distribution Network Operators (DN's) with the daily LDZ Flow-Weighted Average CV calculation (FWACV) service.

As a consequence, the DN's will become responsible for calculating their own daily LDZ FWACV's and publishing the information to Shippers.

The DN's have agreed that Xoserve should take the FWACV calculation role over in its entirety from National Grid.

Solution Options

1

Azure and SAP module using SAP licenses to build separate FWACV 'add in' application with new Azure UI and exception management.
Azure Apps – UI/Workflow + SAP ISU – Business Logic/ Master Data + BDP - Reporting

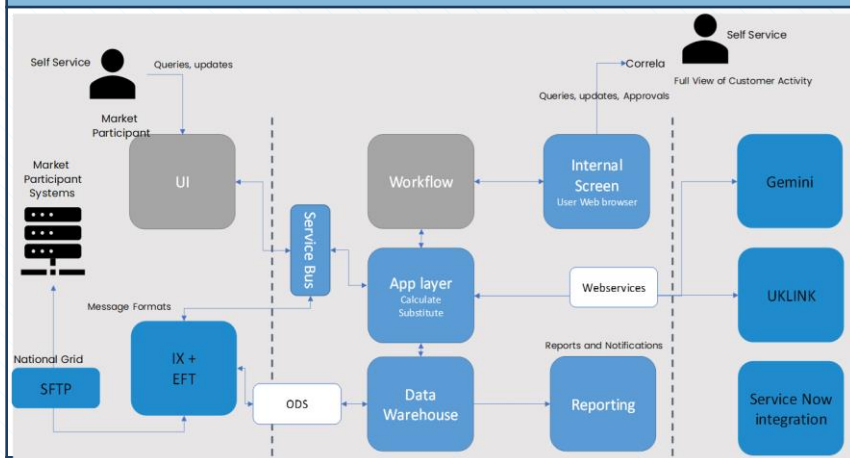
Option 1 - High Level Solution Option

1

1 – Azure and SAP module using SAP licenses to build separate FWACV ‘add in’ application with new Azure UI and exception management. Azure Apps – UI/Workflow + SAP ISU – Business Logic/ Master Data + BDP - Reporting

The solution will be built in a SAP module, using SAP licenses, and creating a FWACV ‘add in’ application in UK Link Portal and exception management, with the workflow and calculation engine built within SAP ISU, independent of the main UK Link application and using the existing integration layer IX/ EFT/ PO.

Solution Overview



Solution Capabilities

- The input files (AI and YO) will be received from the Distribution Networks (DNs) and National Grid using the existing IX/EFT Gateway.
- The validations will be performed and acknowledged from the SAP PO layer.
- The FWACV calculation with in-built workflow process will be built in SAP ISU system.
- All communication with the Networks will be managed using the User Interface (UI) screen to be built in UK Link Portal
- A new SAP screen will be built for Correla Operational Users, to input and view the CV values provided by the Networks.
- The FWACV calculated values will sent to NG and Gemini using IX/EFT Gateway
- It is proposed that the SC9 file out, which Shippers receive as an output of the current service, will continue to be issued using the existing mechanism and format.
- A Monthly Audit Report to Ofgem will be built in and published using SAP ISU system
- The Reporting mechanism for the Operational team to analyse the Service Performance using SAP ISU system.
- In Loss of Record scenario, the calculated FWACV values will be sent to MIPI using existing communication Gateway with MIPI.
- Loss of Record notification to Ofgem will use the existing IX/EFT Gateway in the same file structure that is currently used.
- Data migration will be needed to carry out certain Business Processes including Attribution Process.

Overall Impact

X-Large

Release Type

Standalone

High Level Cost Estimate

TBC following Detailed Design

Assumptions and Dependencies

- Cost of build, test and implementation will be confirmed once detailed design has concluded
- Requirements prioritised using MoSCoW priority, only Must Have requirements are considered as part of the scope
- Existing UK Link and Gemini environments will be leveraged to perform Integration Testing
- BW, BDP and DES systems are not expected to be impacted