

AMI Strategic Data Transfer

AMIDST

In September 21 Anglian Water launched RDE (Retailer Data Exchange) to provide granular smart AMI data direct to retailers through an API (Application Programming Interface) and/or an SFTP data download. This is a non-chargeable service to Retailers, enabling collaboration in addressing future water resource challenges. Data is currently available for circa 24k NHH meters.

Following RDE we recognised the opportunity to provide further significant benefit by delivering Smart Data direct into the central market. In December 2021, therefore, we applied successfully to the first round of the MOSL-run 'Market Improvement Funded' for Project AMIDST.

Project AMIDST (AMI Data Strategic Transfer) Is a collaboration between Anglian Water and MOSL, initially as a pathfinder project. It aimed to investigate how AMI meter read data in a standard format could be provided directly into the Central Market Operating System (CMOS), using an online platform that could be used by all wholesalers.

As smart metering becomes increasingly widespread, adding monthly meter reads into the market will allow greater accuracy of available consumption data. This gives opportunity in the areas of:

- Water efficiency
- Demand management
- Competitive service offering
- Wholesaler and Retailer settlement processes
- NHH (Non-Household) customer invoicing.

Our goal is to enable wholesalers to provide monthly smart meter reads direct into the market, but as market code does not currently allow this, we broke the project into 3 key areas:

System-to-System Transfer This focussed on the technical solutions to exchange data within the parameters of the market code. It aimed, as an interim solution, to provide functionality for wholesalers to load monthly smart meter reads into the market for retailers to approve.

Code, Benefits and Impact review – This investigated the potential required changes in the market code and identified the associated risks and benefits to wholesalers of submitting monthly smart meter reads into the market **without** Retailer approval. This was the proposed 'Enduring Solution'.

Recommendations Report – A formal report collated the findings of the Code, Benefits and Impact Review as well as the technical summary of the system-to-system transfer.

As a result of this project a successful system-to-system AMI smart meter read data transfer has been developed using an MVI API solution as an interim solution to stay in line with the current market code.

This has successfully passed the first round of testing based on a sample of 1,000 smart meters in the AWS region and gives the potential for all Wholesalers who implement a Smart Metering Programme to provide monthly AMI meter reads into CMOS.

Stakeholder engagement revealed that Retailers extract/submit meter reads into CMOS differently. Some enter the reads direct into CMOS, and subsequently into their billing system, others enter reads through their billing system into CMOS. In order to achieve the maximum benefits of the interim solution we have created two solutions to minimise the impact on Retailers.

The preferred option to achieve the system to system transfer is for Retailers to use the MVI to submit and approve the monthly reads into CMOS

The additional option will allow Retailers to download the monthly meter reads to load into their billing system and then transfer into CMOS.

We are currently concluding the final round of technical testing of the additional functionality with two Retailers. **Based on this we are sharing an interim report and a final report will be made available once the testing with Retailers has been completed** [AMIDST Interim Report April 2023](#)

The project recommends an enduring (longer term) solution which is the submission of AMI Smart reads to CMOS without Retailer approval. The impact of this on Market Codes has been identified with proposed recommendations.

Following the Roles and Responsibilities review led by the Metering Committee it has been recommended to take a code change forward to allow Wholesalers to take responsibility to submit Smart AMI reads into CMOS. Throughout the code change process this recommendations report can be used to assist in the code review and any decision making.

Based on our current understanding of meter read ownership and CMOS functionality these are the next steps identified.

Communication

1. AWS to present the findings of this work to the Metering Committee and Strategic Panel and confirm the recommendations.
2. Present the findings to all Market stakeholders in the form of a webinar, potentially in Summer 2023.
3. Promote the interim solution of
 - a. Retailers to use the MVI to submit and approve the monthly reads into CMOS, or
 - b. Retailers to download the monthly meter reads to load into their billing system and then transfer into CMOS.

Before implementing this:

- a. MOSL should review and resolve any issues that this would create, such as capacity limits.
- b. Pilot with a number of Retailers in the live environment to provide confidence in the API solution and allow them to understand how to integrate it within their systems and processes.

Enduring Solution

4. AWS or MOSL to sponsor a Code Change Proposal to amend the responsibilities for the submission of smart meter readings by the wholesaler for settlement purposes.
5. Based on the findings from the roles and responsibilities review and potential code change requirements, OFWAT to provide a decision on implementation.
6. MOSL and CGI (CMOS provider) to implement a programme of work to develop the meter reading transfer process and system in CMOS for all interface types (HVI, LVI, MVI etc).
7. MOSL and AWS to monitor the accuracy of settlement from monthly AMI meter reads versus historical, for sample set of AMI meters.

This is an interim report based on the available testing at this stage. A final report will be made available once the testing with Retailers has been completed.