XRN5940 - Addition of Consumption Adjustment and Updated Meter Readings to initiate an AQ Calculation Month

Solution Pack

XRN5940 - Change Summary

This change is seeking to introduce the addition of valid consumption adjustment and valid updated meter readings to initiate an AQ Calculation or AQ Revision as applicable. This change seeks to adopt consistent logic across CDSP systems and services, as this would enable data that is already being provided and validated by the CDSP to be used in downstream AQ processes.

Shippers have been identified as an impacted party, as they have requested this capability in the related UNC Modification (0890). Networks, including IGTs have also been identified as impacted, as the related industry rules will require the CDSP to include two new triggers in AQ calculation or AQ revision process.

This change includes:

- # All site types are intended to be in scope of this change.
- # All types of valid accepted updated meter reads for class 2, 3, 4 supply points.
- # All types of valid accepted consumption adjustments for all supply point classes (excluding the consumption adjustments with reasons ‘isolation’ and ‘duplicate’).

This change does not include:

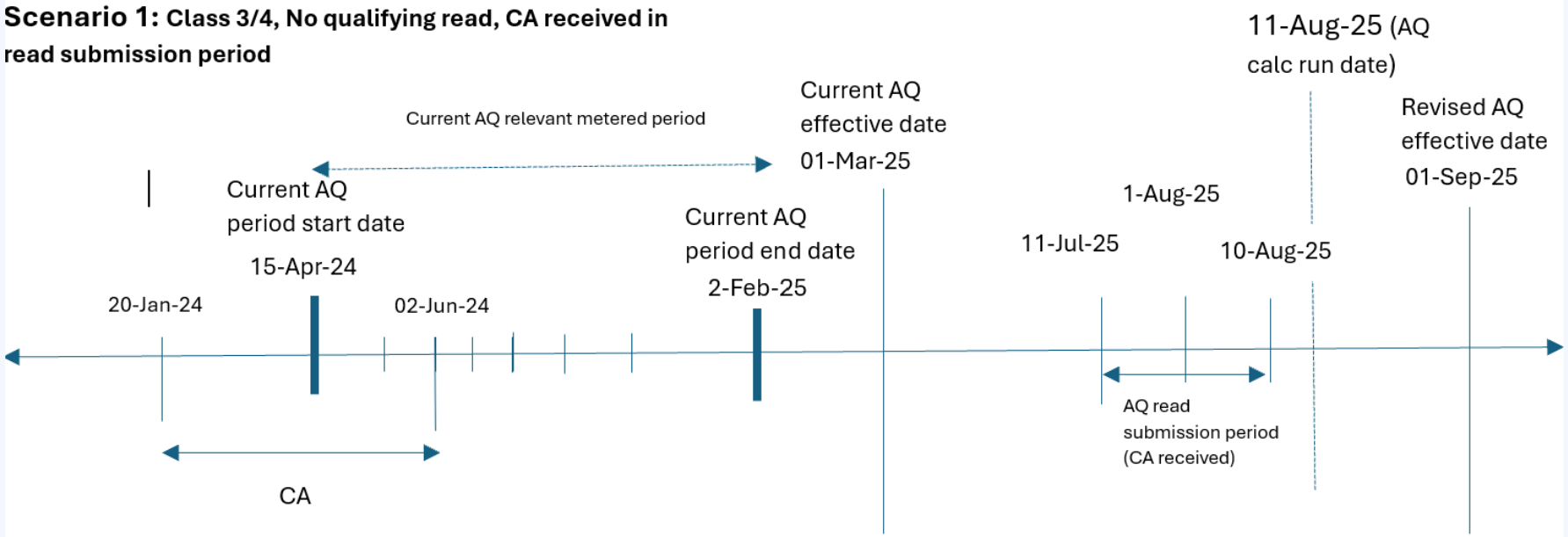
- # Consumption adjustment reasons isolation and duplicate.
- # Changes to Winter Consumption calculation.
- # Changes to AQ correction.
- # Changes to upstream processes with regards to how consumption adjustments are received in UK Link.

High Level Solution Overview

#	Description	Systems and Process impacts
1	Changes to monthly AQ calculation process to include replacement reads and consumption adjustments as triggers	UKLink (SAP ISU): • **AQ calculation process** is split into 3 sub processes – o Valid AQ trigger data identification and retrieval based on AQ submission window o Data Validation and End read determination for AQ process o Start read determination and AQ calculation • **Changes** to some of the above AQ processes for determining the primary trigger and a **new** process to include replacement reads and consumption adjustments as additional secondary triggers for AQ revision. • **New** concept of AQ revision, whereby a current AQ is revised for the current AQ metered period for the new triggers, as opposed to a new AQ calculation based on a new AQ metered period. • **Changes** to identify primary and secondary triggers in case of multiple triggers to decide between AQ calculation vs AQ revision • **New** validation checks will be needed to ensure only valid adjustments and replacement reads which fall within the latest AQ relevant metered period are treated as valid triggers • **Changes** to exclude consumption adjustments with 'Duplicate' and 'Isolation' reasons as valid triggers. • **New** checks to determine the latest or previous AQ period for the 2 new triggers, considering AQ corrections and SNR (Seasonal Normal review) • **Changes** to current checks around replacement reads and adjustments for the latest read date within AQ submission window • **Changes** to include new failure to calculate AQ scenarios • **Changes to** record new AQ trigger for AQ calculation/AQ revision.
2	Changes to AQ Tools and reports	UKLink (SAP ISU): • **Changes** may be needed to the AQ tools to include replacement reads and consumption adjustments as triggers for AQ revision, in addition to the current BAU triggers. • **Changes** to AQ reports to include replacement reads and consumption adjustments as valid triggers.
3	Volumes of AQ calcs	o Based on last 6 months stats, the number of AQ calcs every month is expected to increase by 30-35K (0.3%) due to the inclusion of the 2 new triggers. As the number of current AQ calcs processed every month is approx. 15 mn, this slight increase is not expected to have any effects on the AQ notification files to shippers or DNs. o Performance testing will be carried to determine impacts to the monthly AQ process and BAU processes.

High Level Solution Overview

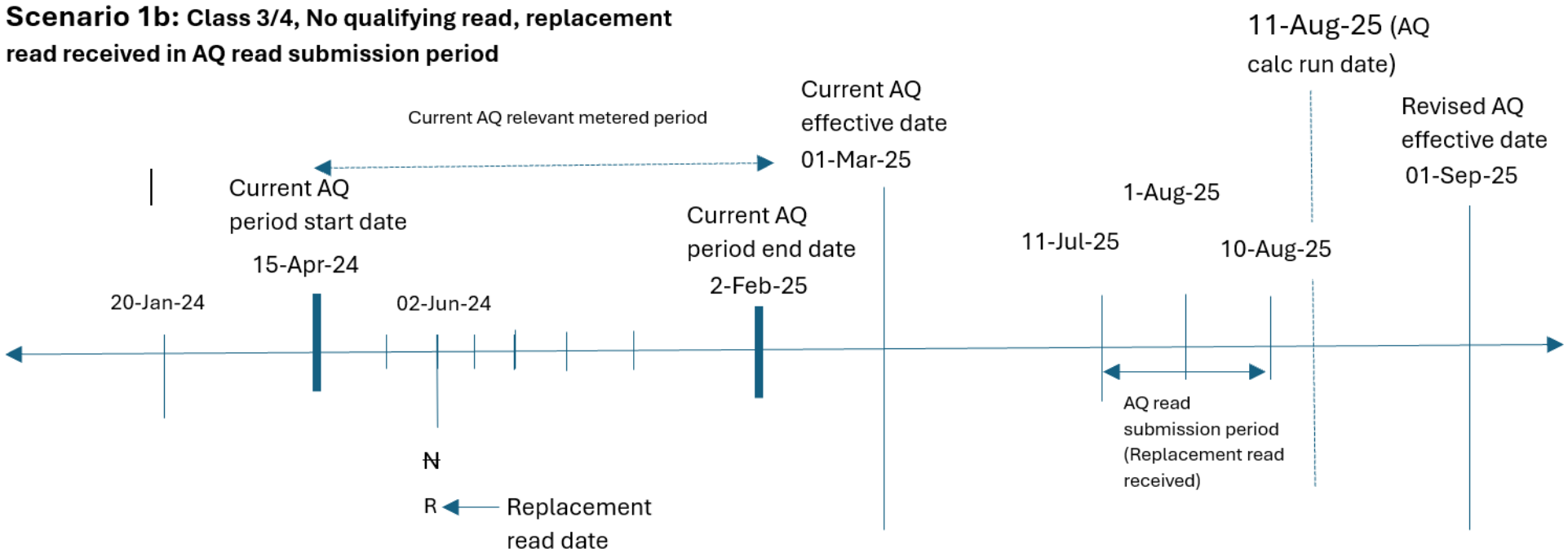
Scenario 1: Class 3/4, No qualifying read, CA received in read submission period



Expected result – Current AQ will be revised w.e.f 01-Sep-25 based on the revised consumption from CA for period 15-Apr-24 to 02-Jun-24

High Level Solution Overview

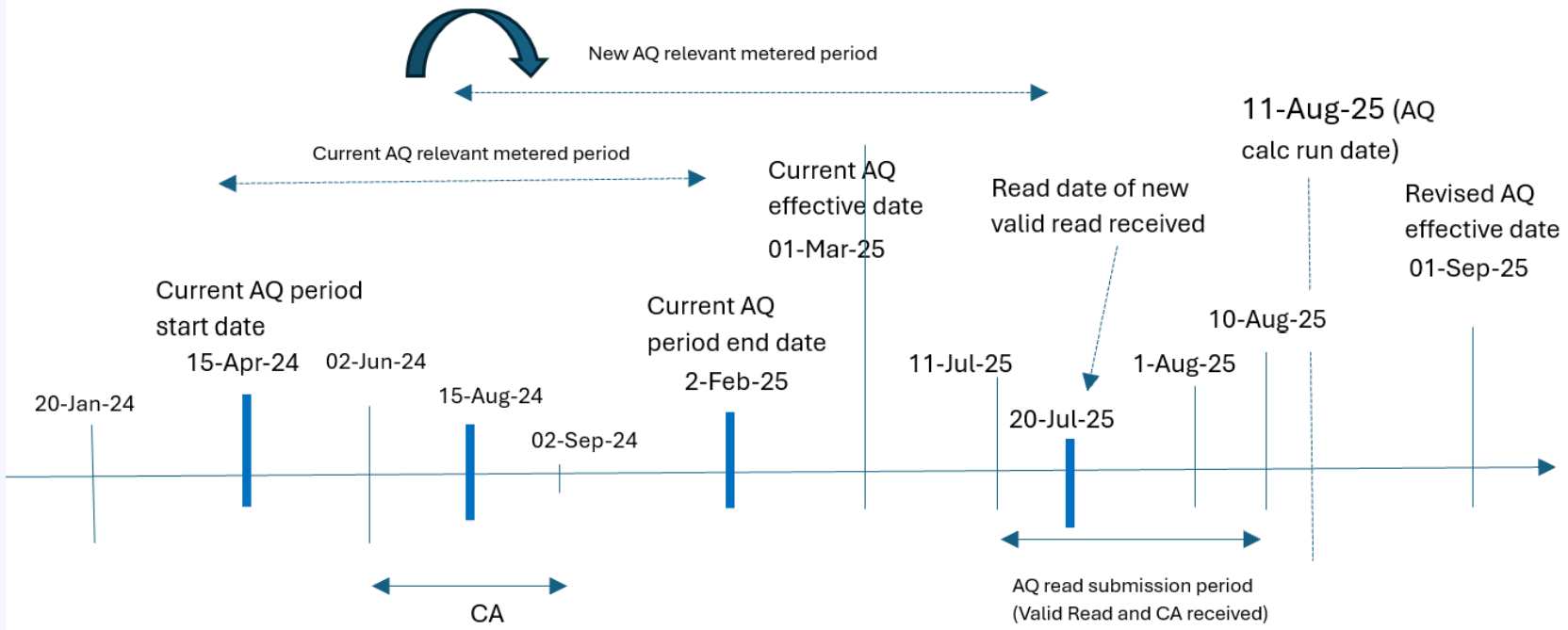
Scenario 1b: Class 3/4, No qualifying read, replacement read received in AQ read submission period



Expected result – Current AQ will be revised for the current AQ metered period w.e.f 01-Sep-25 based on the revised consumption (backward and forward) from replacement read for 02nd June 24.

High Level Solution Overview

Scenario 2a: Class 3/4, Qualifying read and CA received in read submission

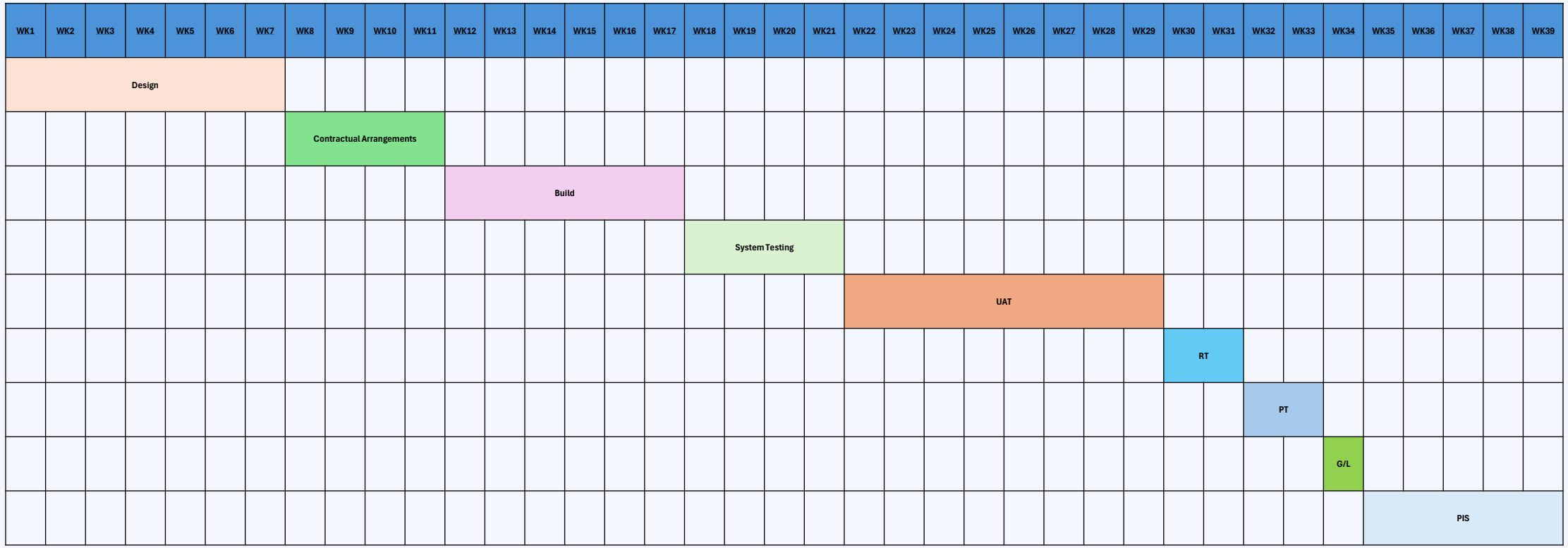


Expected result – New AQ will be calculated wef 01-Sep-25 based on qualifying read as the primary trigger, the revised consumption from the CA for the period between 15th Aug 24 to 02nd Sep 24, will be utilised in the AQ calculation

High Level Solution Options

Option	Description	Pros/Cons	Estimated cost range
1 –SAP ISU (Automated)	• Changes to current AQ calculation process and introduction of new process for revising AQ for the new triggers • Changes to internal AQ tools and AQ reports • Change to record new AQ trigger for AQ calculation/revision	† Re-use existing and create new automated processes for AQ calculation or revision, with no manual involvement † Performance of AQ calculation process may be impacted due to the changes and increase in the number of AQ calcs † Regression impacts to the AQ calculation process due to the changes	**Delivery cost:** £160k to 270k **Schedule**: 34 weeks + 5 weeks of PIS

Proposed Delivery Plan



- Performance testing is recommended to ensure there are no significant impacts to monthly AQ processes and BAU processes.
- Market trials is not considered for this change as there are no customer impacts identified.
- Either an Adhoc or Major Release delivery approach can be taken – with Implementation **being no sooner than August 2026**

XRN5940 Assumptions, Dependencies, Risks

Category	Description
Assumption	No changes are expected to the existing NRL and NNL AQ files.
Assumption	No new failure to calculate AQ rejection codes are expected for the new AQ triggers; existing rejection codes will be re-used, where applicable.
Assumption	The total volume of monthly AQ calcs is expected to increase by approx. 30-35k (0.3%) due to the inclusion of new triggers.
Assumption	All classes and site types are in scope.
Assumption	AQ will be revised and notified to shippers in case of valid AQ triggers, even where the revised AQ value is the same as the original AQ value.
Assumption	AQ will be revised for the current AQ relevant metered period for the new triggers, only where the start and end dates remain the same.
Assumption	A valid consumption adjustment trigger is identified from the point the adjustment is accepted within SAP ISU, and not when it is raised in CMS.
Assumption	There may be changes to SAP BO reports and DDP dashboards to ensure the new AQ trigger created in ISU is not shown externally in any reports or dashboards.
Assumption	Any pending reads or consumption adjustments will not be considered as valid AQ triggers, until they have been successfully accepted.
Risk	Performance of the current AQ calculation process may be impacted due to the changes and increase in the number of AQ calcs.
Risk	The monthly AQ calc process currently takes 18-20 hours to complete. Any delays to the completion of the monthly process may impact the daily scheduled BAU processes and data availability in downstream systems such as BW, DDP and GES.
Risk & Dependency	Increased monitoring by Service Operations may be required to support the monthly AQ processes (BAU + new), which may incur additional S&O costs. This will need to be further validated during the Design Phase.

XOSERVE

Thank you!