XRN5072 - Application and derivation of TTZ indicator and calculation of volume and energy – all classes

High Level System Solution
Impact Assessment

Change Overview

XRN5072 - Application and derivation of TTZ indicator and calculation of volume and energy – all classes

Since Nexus implementation, there have been a number of scenario specific defects raised concerning the use of the Through the Zero (TTZ) indicator provided in the Meter Reading files and how the subsequent volume and energy is then being calculated.

The TTZ indicator confirms whether the meter readings provided have clocked (gone through the zeros) since the last actual read. However, through the defects raised and analysis of these issues, inconsistencies and errors in the use of TTZ and derivation of consumption have been seen.

This change was raised by Xoserve to complete a review of, and make improvements to, volume calculations that involve TTZ counts as inconsistent use of the TTZ in volume calculations can lead to downstream issues in AQ calculation and UIG.

Solution Options

1	**Amend the TTZ derivation logic for all read and RGMA interfaces**

Option 1 - High Level Impact Assessment

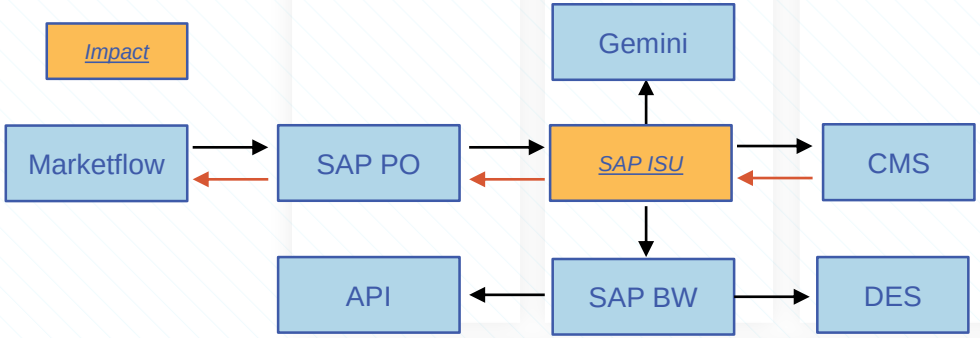
1 - Amend the TTZ derivation logic for all read and RGMA interfaces

The solution is to amend the logic to determine the accurate TTZ count where one or more readings have been provided, or estimated, with a TTZ value.

SAP ISU :

- Amend the TTZ derivation logic in the UMR, UBR, UDR, DLC, Site Visit & RGMA interface
- Enhance the Consumption Adjustment tool
- Identify consumption periods previously calculated with an inaccurate TTZ
- Apply Consumption adjustments to any impacted period identified

Impacted Systems



Overall Impact	Release Type	High Level Cost Estimate
Large	Major	120K to 200K GBP

Assumptions

- Sites with at least 1 accepted read with a TTZ will be eligible for data correction
- Tool developed by AQ Taskforce will be used to calculate consumption differences
- There are no changes in methods to identify Previous read, Previous actual read, Next Read & Next Actual Read
- Periods to be considered for recalculation will go back to Nexus go live or Line In the Sand (LIS) whichever is later.
- No changes to how the TTZ is estimated when no TTZ value is provided within RGMA files
- Efforts are based on very high level analysis, based on the discussion for requirement and solution, the stated efforts may change

Option 1 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Workflow	Data Migration
System Component:	n/a	n/a	n/a	SAP ISU	n/a	n/a
Impacted Process Areas:	n/a	n/a	n/a	Metering - Reads	n/a	n/a
Complexity Level (per RICEFW item):	n/a	n/a	n/a	High	n/a	n/a
Change Description:	n/a	n/a	n/a	• Updates to UMR, UBR, UDR, DLC & Site Visit reads interface • Updates to Consumption Adjustment interface (CMS) • Changes to Read entry screen • Updates to Prime & Sub, RGMA & Twin stream interface	n/a	n/a

	ISU	BW	PO	AMT	DES	API
Test Data Prep Complexity:	High	n/a	n/a	Low	n/a	n/a
Unit and System Test Complexity:	High	n/a	n/a	Low	n/a	n/a
Pen Test Impact:	n/a	n/a	n/a	n/a	n/a	n/a
Regression Testing Coverage:	High	n/a	n/a	Low	n/a	n/a
Performance Test Impact:	Yes	n/a	n/a	n/a	n/a	n/a
Market Trials:	n/a	n/a	n/a	n/a	n/a	n/a
UAT Complexity:	High	n/a	n/a	Low	n/a	n/a

Option 1 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?	CSS Code Conflicts?
SPA	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Metering (Reads)	**High**	**No**	**No**	**No**	**No**	**Yes**	**Yes**
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RGMA	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Switching Service (CSS)	n/a	n/a	n/a	n/a	n/a	n/a	**No**