



**XRN4978 - Notification of Rolling AQ Value  
(following Transfer of Ownership between M-5  
and M)**

High Level System Solution  
Impact Assessment

# Change Overview

## XRN4978 – Notification of Rolling AQ Value

Each month the .NRL file (AQ WC Notifications) is issued out (usually at M-5) to Live (LI), and incoming (CO) Shippers at the date the .NRL file was generated, file generation begins at M-7. As a result, a new Rolling AQ (RAQ) for any Supply Meter Point that moves to LI between the date of .NRL file generation up to and including M-1 will only be issued to the Live Shipper at the date of .NRL file generation.

This means that the .NRL file, with AQ/SOQ/EUC values effective from M, formula and rolling, will not be provided to an incoming Shipper for sites that move to LI post the date of .NRL file generation up to and including M-1. These incoming Shippers will receive the .TRF file which contains only the AQ/SOQ/EUC values effective at that point in time. The incoming Shipper will then not be notified of AQ/SOQ/EUC values via an .NRL file until new ones are generated, this could be a number of months later.

This change seeks to identify changes to AQ/SOQ/EUC data that will take effect as of the 1st of the incoming month, for Supply Meter Points which move to LI status between the date of .NRL file generation and M-1 and issue notification to the incoming Shipper.

## Solution Options

1

Reuse the existing .NRL generation logic and trigger a delta .NRL file for switches effective up to M-1

2

Generate and issue report via IX, to supply required data items

3

Change confirmation workflow to trigger .NRL generation for switched MPRNs

4

DDP reports and dashboard to provide AQ/SOQ/EUC data

# Option 1 - High Level Impact Assessment

## 1 - Reuse the existing .NRL generation logic and trigger a delta .NRL file for switches effective up to M-1

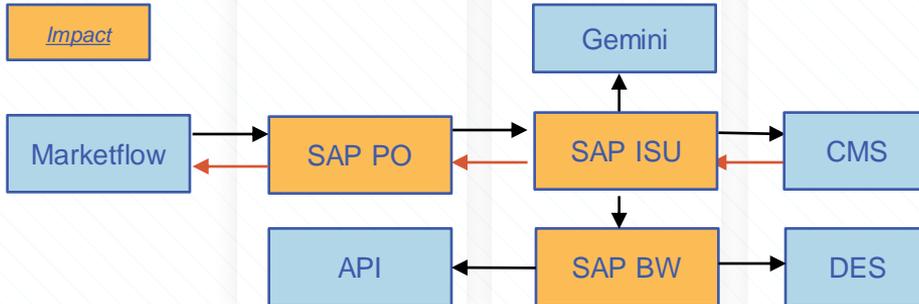
### SAP ISU:

- A new mass process program and variant will be designed reusing the current .NRL generation logic
- Changes to the program to identify the required MPRNs for switches post last .NRL sent date and update the AQ notification tables wherever needed. This will exclude the CO MPRNs for which .NRL has already generated and trigger delta .NRL to incoming Shippers only
- New program variant to be created which will run in March to create entries in AQ notification tables for green field and class change scenarios (DM to NDM) which go live after the annual FYAQ program completes
- Internal reporting to enable customer query support

**SAP PO** - Amendment to .NRL batch schedule for period between bulk .NRL generation and start of next month

**SAP BW** - New data flags created as part of .NRL generation for CO/LI sites to be passed to SAP BW

### Impacted Systems



### Assumptions

- The existing .NRL program, and its variants, will not be amended and therefore there is no requirement to test the existing .NRL program after this change
- Future proofing for faster switching & the reduction in CO to LI period post CSS go live, configuration to be added to allow CO or LI switches to be picked for .NRL generation.
- Performance testing on the new program with BAU load jobs
- TRF file (M-2) contains the AQ/SOQ/EUC values effective on M day therefore end point of delta runs only required until M-3 day
- AQ notification tables for greenfield sites are populated during annual EUC revision process for the MPRNs going live between M-5 to M
- Agreed batch schedule window to be confirmed to ensure no impact to other critical files
- SAP PO and BW are included as impacted systems from a testing perspective
- Configuration options, for example triggers and timings, will be confirmed during detailed design phase
- Delta file process will also cater for EUC updates in September that are effective from 1<sup>st</sup> October
- Efforts are based on very high level analysis, based on the discussion for requirement and solution, the stated efforts may change

Overall Impact	Release Type	High Level Cost Estimate
Medium	Minor	70K – 150K GBP

# Option 1 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Workflow	Data Migration
<b>System Component:</b>	SAP ISU	SAP ISU	n/a	n/a	n/a	n/a
<b>Impacted Process Areas:</b>	SAP ISU	AQ/NRL Generation	n/a	AQ/NRL Generation	n/a	n/a
<b>Complexity Level (per RICEFW item):</b>	Low	Medium	n/a	Medium	n/a	n/a
<b>Change Description:</b>	<ul style="list-style-type: none"> <li>An internal report for business user for query management (SQ02)</li> </ul>	<ul style="list-style-type: none"> <li>NRL generation process (additional instances of NRL job and PO batcher)</li> </ul>	n/a	<ul style="list-style-type: none"> <li>New Program to identify the NRL trigger for CO sites</li> <li>New variant to be run in March for FYAQ entries</li> </ul>	n/a	n/a

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



# Option 2 - High Level Impact Assessment

## 2 - Generate and issue report via IX, to supply required data items

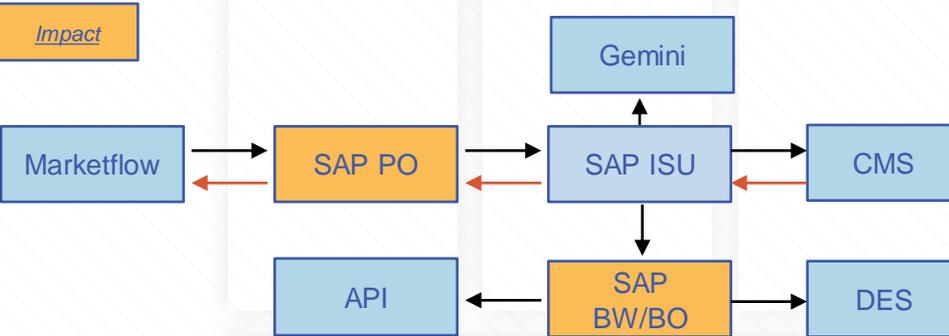
### SAP BW/BO:

- A new table to be created to joining Switch and AQ data to avoid performance impacts on existing tables
- New report to fetch the required data from the new table for each of the Incoming Shippers
- This will contain MPRNs, previous AQ, revised AQ, previous EUC, revised EUC, incoming shippers and incumbent shippers between .NRL file generation(M-7) and AQ effective date (M)
- This can be triggered on M+1 day after the data extraction completes for M day changes. Details would be extracted based on the shipper portfolio and can be sent to Shippers offline.

### SAP PO EFT/IX:

- New interface between PO and EFT and configuration maintenance to support it
- EFT routing configuration for reports to be sent to relevant Shippers

### Impacted Systems



### Assumptions

- New report will not contain all the fields issued in .NRL i.e. it will contain a subset of fields issued in .NRL
  - Data items to be confirmed during detailed design
- Report will be shared via IX for each Shipper
- File path and report format for the new report to be agreed as part of detailed design phase
- This report can be scheduled once a month or days specified within the identified window
- For any queries on the report output, a service ticket will be raised by customers
- Efforts are based on very high level analysis, based on the discussion for requirement and solution, the stated efforts may change

Overall Impact	Release Type	High Level Cost Estimate
X-Small	Minor	25K to 50K GBP

# Option 2 - System Impact Assessment

	Reports	Interface	Conversion (SAP PO)	BW Enhancements	Workflow	Data Migration
<b>System Component:</b>	SAP BO	EFT/IX	SAP PO	n/a	n/a	n/a
<b>Impacted Process Areas:</b>	Report	Integration	Integration	n/a	n/a	n/a
<b>Complexity Level (per RICEFW item):</b>	Medium	Low	Medium	n/a	n/a	n/a
<b>Change Description:</b>	<ul style="list-style-type: none"> <li>New report to incoming Shippers for new effective AQ notification</li> </ul>	<ul style="list-style-type: none"> <li>EFT/IX configuration to ensure correct report routing</li> </ul>	<ul style="list-style-type: none"> <li>Passthrough interface creation in PO and maintain configuration between PO and EFT for new interface</li> </ul>	n/a	n/a	n/a

	ISU	BW/BO	PO	AMT	DES	API
<b>Test Data Prep Complexity:</b>	n/a	Medium	Medium	n/a	n/a	n/a
<b>Unit and System Test Complexity:</b>	n/a	Medium	Medium	n/a	n/a	n/a
<b>Pen Test Impact:</b>	n/a	n/a	n/a	n/a	n/a	n/a
<b>Regression Testing Coverage:</b>	n/a	n/a	n/a	n/a	n/a	n/a
<b>Performance Test Impact:</b>	n/a	Yes	No	n/a	n/a	n/a
<b>Market Trials:</b>	n/a	n/a	n/a	n/a	n/a	n/a
<b>UAT Complexity:</b>	n/a	Medium	Medium	n/a	n/a	n/a



# Option 3 - High Level Impact Assessment

## 3 - Change confirmation workflow to trigger .NRL generation for switched MPRNs

### SAP ISU:

- Changes would be made in the confirmation workflow process/trigger to trigger the creation of an .NRL when the switch status changes to CO/LI. This will use the existing .NRL generation logic and be applicable to confirmations going live from M-4 to M.
- Confirmation and SPC process require a change to create entries in AQ notification tables for green field and class change scenarios (DM to NDM) which go live after the annual FYAQ run in March
- Internal reporting to enable customer query support

**SAP PO** - Amendment to .NRL batch schedule for period between bulk .NRL generation and start of next month

Impacted Systems			Assumptions
<pre> graph TD     Marketflow[Marketflow] --&gt; SAP_PO[SAP PO]     SAP_PO --&gt; SAP_ISU[SAP ISU]     SAP_ISU --&gt; Gemini[Gemini]     SAP_ISU --&gt; CMS[CMS]     SAP_ISU --&gt; SAP_BW[SAP BW]     SAP_BW --&gt; API[API]     SAP_BW --&gt; DES[DES]     SAP_PO --&gt; Marketflow     SAP_ISU --&gt; SAP_PO     SAP_ISU --&gt; CMS     </pre>			<ul style="list-style-type: none"> <li>• The existing .NRL program, and its variants, will not be amended and therefore there is no requirement to test the existing .NRL program after this change</li> <li>• Agreed batch schedule window to be confirmed to ensure no impact to other critical files</li> <li>• TRF file (M-2) contains the AQ/SOQ/EUC values effective on M day therefore end point of new process can be M-2 day</li> <li>• SAP PO and BW are included as impacted system from testing perspective</li> <li>• Any new NOM received during this period is not in scope of the change</li> <li>• Finalisation of .NRL generation trigger, CO or LI, will be done during detailed design</li> <li>• CSS impact assessment for common objects/processes to be carried out and design/development/test retrofit efforts to be fully understood</li> <li>• Efforts are based on very high level analysis, based on the discussion for requirement and solution, the stated efforts may change</li> </ul>
Overall Impact	Release Type	High Level Cost Estimate	
Large	Major	120K to 200K GBP	

# Option 3 - System Impact Assessment

	Reports	Interface	Conversion	Enhancements	Workflow	Data Migration
<b>System Component:</b>	SAP ISU	SAP ISU	n/a	n/a	n/a	n/a
<b>Impacted Process Areas:</b>	SAP ISU	AQ/NRL Generation	n/a	n/a	SPA	n/a
<b>Complexity Level (per RICEFW item):</b>	Low	Medium	n/a	n/a	Medium	n/a
<b>Change Description:</b>	<ul style="list-style-type: none"> <li>An internal report for business user for query management (SQ02)</li> </ul>	<ul style="list-style-type: none"> <li>NRL generation process (additional instances of NRL job and PO batcher)</li> </ul>	n/a	n/a	<ul style="list-style-type: none"> <li>Create entry in AQ notification table</li> <li>Create NRL, IDOCs from confirmation workflow</li> </ul>	n/a

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



# Option 4 – High Level Impact Assessment

## 4 – DDP reports and dashboard to provide AQ/SOQ/EUC data

This solution option will deliver a collection of reports and dashboard in DDP which allows the Shipper(s) to view/extract AQ/SOQ/EUC data for all Supply Meter Points where a registered Shipper has changed after the .NRL file is generated.

Changes are anticipated in the following areas to fulfil the requirement. These changes will be performed by products team

- SAP BW (XDM):** Changes to allow DDP to identify the Supply Meter Points where a registered Shipper has changed
- DDP:** A collection of dashboards and reports which allows the user to view/explore and download the related data

Impacted Systems			Assumptions
<pre> graph LR     MarketFlow --&gt; SAP_PO[SAP PO]     SAP_PO --&gt; SAP_ISU[SAP ISU]     SAP_ISU --&gt; SAP_BW[SAP BW (XDM)]     SAP_BW --&gt; Excel_Spreadsheet[Excel Spreadsheet]     SAP_BW --&gt; DDP             </pre>			<ul style="list-style-type: none"> <li>AQ/SOQ/EUC data will only be visible to gaining shipper</li> <li>Duration to identify meter point changes registered shipper (e.g. M – 5 to M) can be configurable</li> <li>AQ/SOQ/EUC data will be available for a period of 12 months from the start of AQ Effective date. This is configurable</li> <li>No changes to the DPM (Data Permissions Matrix)</li> <li>This estimate is based on very high-level analysis, based on the discussion for requirement and solution, the stated efforts may change</li> </ul>
Overall Impact	Release Type	High Level Cost Estimate	
Low	Core DDP Drop	MTB investment funded	

\*NB: the inclusion of XRN 4978 into a Core DDP Drop is subject to agreement at Shipper Constituency meetings.

# Option 4 - System Impact Assessment

	Dashboard / Reports	Interface	Conversion	Enhancements	Workflow	Data Migration
<b>System Component:</b>	DDP / SAP BW (XDM)	n/a	n/a	n/a	n/a	n/a
<b>Impacted Process Areas:</b>	AQ DDP	n/a	n/a	n/a	n/a	n/a
<b>Complexity Level (per RICEFW item):</b>	Low	n/a	n/a	n/a	n/a	n/a
<b>Change Description:</b>	No functional changes are required.	n/a	n/a	n/a	n/a	n/a

	ISU	BW	DDP	PO	AMT	DES
<b>Test Data Prep Complexity:</b>	n/a	Low	Low	n/a	n/a	n/a
<b>Unit and System Test Complexity:</b>	n/a	Low	Low	n/a	n/a	n/a
<b>Pen Test Impact:</b>	n/a	n/a	n/a	n/a	n/a	n/a
<b>Regression Testing Coverage:</b>	n/a	n/a	n/a	n/a	n/a	n/a
<b>Performance Test Impact:</b>	n/a	Low	Low	n/a	n/a	n/a
<b>Market Trials:</b>	n/a	n/a	Low (beta testing team)	n/a	n/a	n/a
<b>UAT Complexity:</b>	n/a	Low	Low	n/a	n/a	n/a

