



XRN4670

**High Level System Solution
Impact Assessment**

Change Overview

XRN4670 – Read Replacement creating unnecessary exceptions

Shippers are currently submitting replacement readings, with a read which is identical to the previously submitted read recorded in UK Link for the same read date. Current validation and business processes do not consider this scenario and therefore as a result is leading to an increase in the number of exceptions received and manual intervention taken to resolve. Where a replacement reading is submitted to ISU (via NDM read files) that has the same read value and read date it creates a zero billable consumption, something that at present is not expected and therefore generates a MN09 exception to be looked at. The current processing of the exception requires a manual consumption adjustment to be completed by the business ops team for an adjustment to be released and the read to be re-processed.

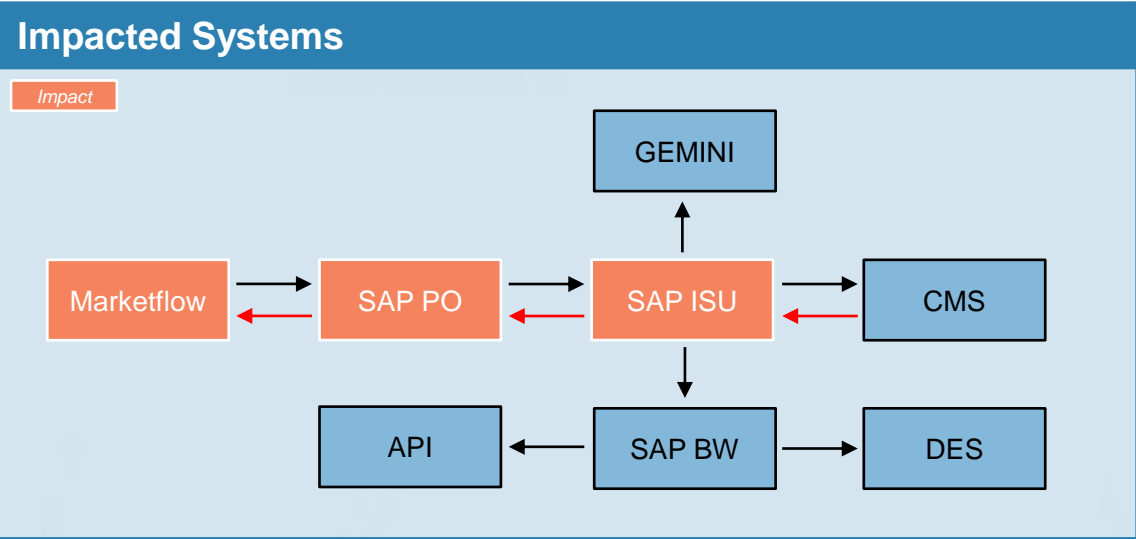
Solution Options

- 1 Reject “duplicate” replacement reads and provide a new rejection code/reason
- 2 Reject “duplicate” replacement reads and provide an existing rejection code/reason
- 3 Amend SAP ISU to process the replacement read but the zero consumption is not processed
- 4 Amend SAP ISU to process the replacement read with the zero consumption being processed
- 5 Education piece to the Shipper community to mitigate the submission of such readings

Option 1 - High Level Impact Assessment

1 - Reject “duplicate” replacement reads and provide a new rejection code/reason

This solution option is looking to amend SAP ISU to reject any duplicate replacement readings that are submitted by the Shipper (where the replacement read is the same read value and read date as the already loaded read). Where this occurs the system will then reject the record using a newly introduced rejection code/reason that will be sent out in the URS file. The new rejection code/reason will be configured in SAP PO and Marketflow accordingly to facilitate the new values being present in the outbound URS file. This solution also includes work to the SAP ISU manual read entry transaction screen to display the newly introduced rejection code/reason where a user attempts to submit a duplicate replacement reading manually.



- ### Assumptions
- Class 3 & 4 only
 - Only consider Reads flagged as Replacement within the UBR/UMR file
 - New Rejection Code agreed prior to code build
 - Error message displayed on screen will be the same as the rejection code
 - Replacement of RGMA reads are not in scope

Overall Impact	High Level Cost Estimate
Low	36,000 - 46,000 GBP

Option 1 - System Impact Assessment

Application:	Marketflow	SAP PO	SAP ISU	SAP ISU	
System Component:	File Format	Process Code	Process Code	Process Code	
Development Type:	Configuration	Interface	Batch Job	Online	
Impacted User(s):	Shippers	Shippers	Shippers	Xoserve	
Build Type:	New	New	Existing	Existing	
Change Description:	System needs to be configured to allow the flow of the .URS file containing the new rejection code/reason	System needs to be configured to generate the .URS file containing the new rejection code/reason	System to be amended to not process any duplicate replacement reads processed via .UMR/.UBR files	Manual read entry transaction screen to display rejection code/reason where a user attempts to submit a duplicate replacement read	

Requirement Clarity:	G	G	G	G	
Change Complexity:	G	G	G	G	
Integration Complexity:	G	G	G	G	
Test Data Prep Complexity:	G	G	G	G	
Test Execution:	G	G	G	G	
Regression Testing Impact:	G	G	G	G	
Performance Impact:	G	G	G	G	

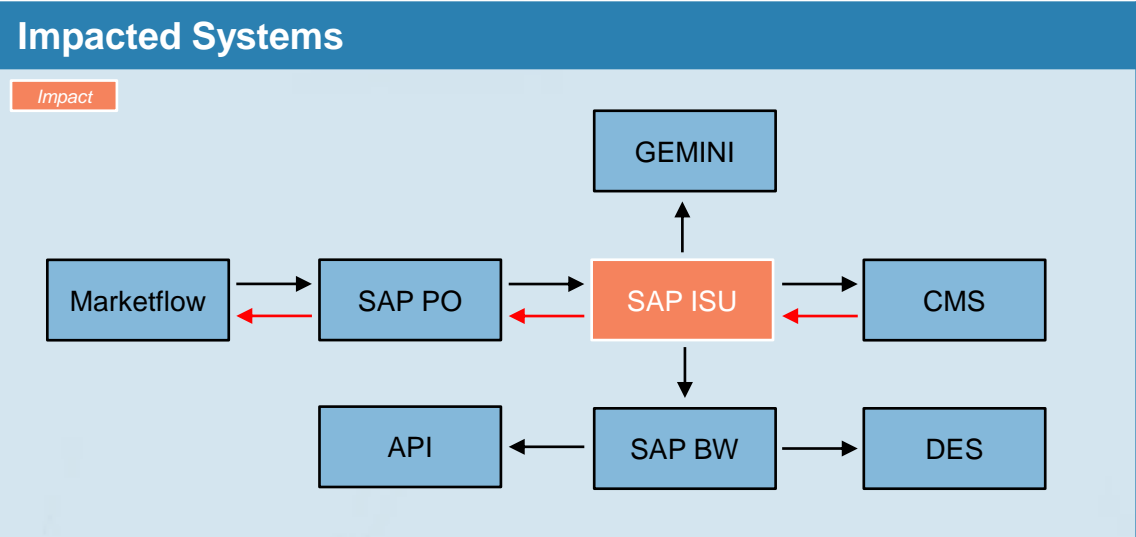
Option 1 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	n/a	n/a	n/a	n/a	n/a	n/a
Metering (Reads)	Low	Yes	No	No	Yes	No
Reconciliation	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
Invoicing – Commodity	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
Invoicing – Other	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
Formula Year AQ	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
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

Option 2 - High Level Impact Assessment

2 - Reject “duplicate” replacement reads and provide an existing rejection code/reason

In SAP ISU, any duplicate replacement reads submitted by the Shipper (same read value and read date) will be rejected by the system with an existing rejection code/reason going out in the URS file. Proposed “MRE00436 - The Meter Point already has a read for this date”. For manually entered reads (UKL transaction screen), the existing rejection code/reason will be displayed.



- ### Assumptions
- Class 3 & 4 only
 - Only consider Reads flagged as Replacement in UBR/UMR file
 - Replacement of RGMA reads are not in Scope

Overall Impact	High Level Cost Estimate
Low	30,250 - 40,250 GBP

Option 2 - System Impact Assessment

Application:	SAP ISU	SAP ISU			
System Component:	Process Code	Process Code			
Development Type:	Batch Job	Online			
Impacted User(s):	Shippers	Xoserve			
Build Type:	Existing	Existing			
Change Description:	System to be amended to not process any duplicate replacement reads processed via .UMR/.UBR files	Manual read entry transaction screen to display rejection code/reason where a user attempts to submit a duplicate replacement read			

Requirement Clarity:	G	G			
Change Complexity:	G	G			
Integration Complexity:	G	G			
Test Data Prep Complexity:	G	G			
Test Execution:	G	G			
Regression Testing Impact:	G	G			
Performance Impact:	G	G			

Option 2 - Process Impact Assessment

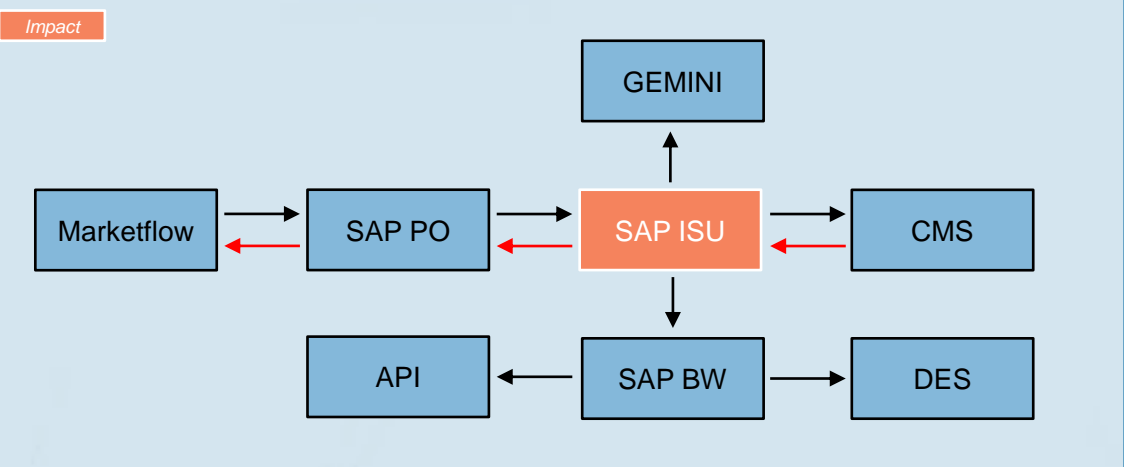
Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	n/a	n/a	n/a	n/a	n/a	n/a
Metering (Reads)	Low	No	No	No	Yes	No
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Other	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
Formula Year AQ	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
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

Option 3 - High Level Impact Assessment

3 - Amend SAP ISU to process the replacement read but the zero consumption is not processed

This solution is looking to amend SAP ISU so any duplicate replacement reads submitted by the Shipper (same read value and read date) will be accepted by UKL but the resulting zero consumption will not be picked up by the Amendment Invoice for further processing. For the manually entered reads (UKL transaction screen), the same rule applies as the above. A new rejection code will need to be defined and sent out in the .URS file stating that the read is loaded in the system but remain suspended.

Impacted Systems



Assumptions

- Class 3 & 4 only
- Only consider Reads flagged as Replacement in UBR/UMR file
- Replacement of RGMA reads are not in Scope

Overall Impact

Medium

High Level Cost Estimate

47,500 - 57,500 GBP

Option 3 - System Impact Assessment

Application:	SAP ISU	SAP ISU	SAP ISU		
System Component:	Process Code	Process Code	Process Code		
Development Type:	Batch Job	Configuration	Online		
Impacted User(s):	Shippers	n/a	Xoserve		
Build Type:	Existing	Existing	Existing		
Change Description:	System to be amended to process any duplicate replacement reads received via .UMR/.UBR files	Reconciliation process to be configured to ignore the billing of zero consumption where a duplicate replacement is received	Manual read entry transaction screen to be able to process duplicate replacement reads and display the suspended status		

Requirement Clarity:	G	G	G		
Change Complexity:	G	G	G		
Integration Complexity:	G	A	G		
Test Data Prep Complexity:	G	G	G		
Test Execution:	G	G	G		
Regression Testing Impact:	A	A	G		
Performance Impact:	G	G	G		

Option 3 - Process Impact Assessment

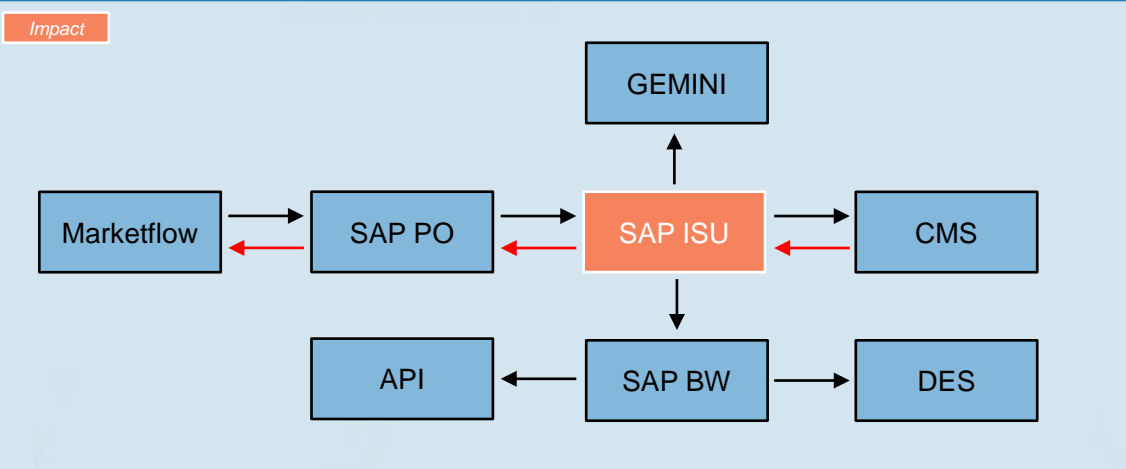
Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	n/a	n/a	n/a	n/a	n/a	n/a
Metering (Reads)	Medium	Yes	No	No	Yes	No
Reconciliation	Medium	No	No	No	No	No
Invoicing – Capacity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a
Invoicing – Amendment	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
Rolling AQ	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
RGMA	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
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a

Option 4 - High Level Impact Assessment

4 - Amend SAP ISU to process the replacement read with the zero consumption being processed and trigger appropriate zero reconciliation

This solution is looking to amend SAP ISU so any duplicate replacement reads submitted by the Shipper (same read value and read date) will be accepted by the system with the resulting zero consumption being picked up for further processing into Reconciliation and the Amendments Invoice (mitigating the need for exception and manual processing). For the manually entered reads (UKL transaction screen), the same rule applies as the above.

Impacted Systems



Assumptions

- Class 3 & 4 only
- Only consider Reads flagged as Replacement in UBR/UMR file
- Replacement of RGMA reads are not in Scope

Overall Impact

Medium

High Level Cost Estimate

53,250 - 63,250 GBP

Option 4 - System Impact Assessment

Application:	SAP ISU	SAP ISU	SAP ISU	SAP ISU	
System Component:	Process Code	Process Code	Process Code	Process Code	
Development Type:	Batch Job	Configuration	Configuration	Online	
Impacted User(s):	Shippers	Shippers	Shippers	Xoserve	
Build Type:	Existing	Existing	Existing	Existing	
Change Description:	System to be amended to process any duplicate replacement reads received via .UMR/.UBR files	Reconciliation process to be configured to process the billing zero consumption where a duplicate replacement is received	Changes to the Amendment Invoice to pick up the zero consumption reconciliations and process them accordingly	Manual read entry transaction screen to be able to process duplicate replacement reads	

Requirement Clarity:	G	G	A	G	
Change Complexity:	G	A	A	G	
Integration Complexity:	G	A	A	G	
Test Data Prep Complexity:	G	G	G	G	
Test Execution:	G	G	G	G	
Regression Testing Impact:	G	A	A	G	
Performance Impact:	G	G	G	G	

Option 4 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?
SPA	n/a	n/a	n/a	n/a	n/a	n/a
Metering (Reads)	Medium	No	No	No	Yes	No
Reconciliation	Medium	No	No	No	Yes	No
Invoicing – Capacity	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
Invoicing – Amendment	Medium	No	No	No	Yes	No
Invoicing – Other	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
Formula Year AQ	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
DSC Service	n/a	n/a	n/a	n/a	n/a	n/a
Other (Specify)	n/a	n/a	n/a	n/a	n/a	n/a