

DSC Change Completion Report (CCR)

Change Title	UK Link Release 3 Delivery
Change reference number (XRN)	XRN4572
Xoserve Project Manager	Thomas Lineham
Email address	Thomas.lineham@xoserve.com
Contact number	01216232327
Target Change Management Committee date	10 th April 2019
Date of Solution Implementation	Track 1: 2 nd November 2018, Track 2: 1 st February 2019

Section 1: Overview of Change Delivery

As part of the Release 3 delivery, the following 14 changes were delivered:

Track 1 – Externally Funded Change Requests

Title: Introducing IHD (In-Home Display) Installed Status of Failed MOD614 **Change Proposal No. XRN4273**

Description: At the time when the data items relevant to smart metering were included in the UNC Transportation Principal Document (TPD), the values created for In-Home Device (IHD) were felt to be the only status flags required. However, it has become clear that in a number of cases it is not possible to provide the customer with an IHD due to the set-up of Home Area Network (HAN) connectivity. The current list of valid status flags do not enable these instances to be captured and the current status options may be being misused in regards to these instances.

This CP seeks to introduce the new In Home Display Status of 'F' - 'Failed IHD Asset'.

Copy of Change Proposal document:



XRN4273 - CR.pdf

Title: Read Validation Tolerances **Change Request No. XRN3656**

Description: The desire to develop the reading validation for meter points with very low AQs was highlighted during the development of Nexus, however, there was little tangible data available until the systems were live to move this forward. Several options were discussed, including moving from a percentage based approach to a fix value. Sufficient time has now passed and data is available which confirms amendments to small/low AQs would have a positive, albeit modest, impact on the Gas read validation and settlement processes. This proposal seeks to make minor alterations to the tolerance values for meter points with a low AQ on classes 3 or 4 rather than changing the validation mechanism. This will achieve benefits but without the significant development costs.

Copy of Change Request document:



XRN3656 - CR.pdf

**Title: Amendment to RGMA Validation Rules for Meter Asset Installation Date
(Implementation delayed until 1st March 2019)**

Change Proposal No. XRN4534

Description: Amendment to the RGMA validation rules. At present the RGMA validation rules do not allow for an asset update to be recorded pre D-2 of the confirmation effective date once the confirmation has progressed to this stage and cannot pre-date the confirmation effective date once the confirmation has gone live. Therefore the Registered User cannot record the meter installation for the correct date (if the meter was installed prior to D of the confirmation effective date).



XRN4534 - CR.pdf

Track 2 – Externally Funded Change Requests

Title: Cadent Billing - DN Sales (Outbound Services)

Change Proposal No. XRN4454

Description: To implement an enduring invoicing solution such that the existing interim arrangements for the invoicing of Cadent Gas and National Grid transportation charging (via a 'refund and rebill' process in respect of the National Grid elements currently contained within the Cadent invoice) is superseded by functionality that effectively separates the charges contain in the invoices.

As a consequence, invoices from Cadent will only contain transportation charges for use of Cadent networks negating the need for the current requirement to issue a Cadent credit invoice for the National Grid charges contained in the initial Cadent invoice.

Copy of Change Proposal document:



4454 - CR.pdf

Track 1 – Internally Funded Change Requests

**Title: To change the optionality of the Supply Point confirmation reference for the T51 file
Change Request No. XRN4337**

Description: Whilst investigating the failure to calculate a winter consumption notification (T51) that failed to be issued to shippers with a confirmation status of CO, the files failed to generate because of a file format design. The confirmation effective date is mandatory within the T51.

When the confirmation is pending, there is not a confirmation effective date for the incoming Shipper at the time the file is produced

To correct this scenario and ensure the T51 File flows to the appropriate shippers, we are suggesting a change to the optionality of the field within the T51 File format.

This issue was recognised when we issued the Winter consumption calculation files in May 2017. This is the pre-notification of the W/C value that will potentially be applied if they do nothing for the 1st of October

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XRN4337 - CR.pdf

Title: Reads failing market breaker tolerance to be accepted for correct date following AQ Correction

Change Request No. XRN4431

Description: Following a read being rejected as it failed the market breaker tolerance check, the user may raise an AQ correction, once the AQ has been updated, the Shippers have requested the ability to re-submit the read that failed the market breaker tolerance for the correct date (original read date) but validate the read against the newly corrected AQ rather than the AQ that was Live as at the read date.

Copy of Change Request document:



4431- CR.pdf

Title: File Format Changes Aug 16 Unique Sites (deferred items from CR252)

Change Request No. XRN4443

Description: There are a number of 'Must Have' changes which were identified as a result of unique sites testing and market trials to Unique Sites templates and records. Changes are categorised as:

- Functional – changes to the structure and composition of the file format (e.g. additional field, optionality/allowable values etc).

Copy of Change Request document:



4443 - CR.pdf

Title: File Format Should Have Changes

Change Request No. XRN4453

Description: This change is version 3 of the File Formats 'should have' changes (original CR raised 15/12/16) This version has been updated with further identified File Format changes up to 30th May 2017. They were confirmed as not required for day 1 and therefore were deferred from Go Live.

The change details the 264 File Format changes that were identified during testing and market trials up to 31st March 2017 that were not required for Project Nexus go live. A number of these changes with functional impact are expected to be prioritised for Release 3 delivery

Copy of Change Request document:



4453 - CR.pdf

Title: Class 4 CSEPS Reconciliation Variance Identification
Change Request No. XRN4458

Description: The reconciliation process for class 4 sites creates variance periods when there is a change in data which could impact the billing rates, for example change of AQ or EUC. During back billing UAT, the need for an additional variance reason code was identified for a meter point that changes the CSEP Project (Grid) effective mid month. A CSEPs project change may be accompanied by additional data changes, however in this particular instance the only change was to the meter point was that the change to the CSEP project effective mid month (i.e not 1st calendar day).

It is proposed to use variance reason code as 'CSP' to record this data change. Also if there are other variance codes that impacts rate determination on the same date when this data change is recorded, then this must be considered on priority to ensure right rates are utilised for the charge calculation

Copy of Change Request document:



4458 - CR.pdf

Title: Resolution of penny mismatches within invoice supporting information for Core invoices.

Change Request No. XRN4481

Description: During Market trial regression testing, a defect was raised by shippers where penny mismatches were identified while validating the financial values within invoice supporting information against the actual invoice values for all the three Core invoices, namely Capacity and Commodity invoices.

After initial analysis it is identified that the changes are required to the file formats for supporting information (SI) files for Capacity (ZCS, CZI) and Commodity (COM/COI) invoices and associated changes to the impacted systems.

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4481 - CR.pdf

Title: Meter Type O (= Orifice) to be an acceptable value in file formats and reports
Change Request No. XRN4486

Description: As part of the US sites being bought into SAP ISU, the meter Type O (= Orifice) is not a recognisable meter type in the current file formats or some reports from SAP ISU and BW. SAP ISU has it as an allowable value but some of the AMT files do not. Analysis needs to be carried out on the full file format and report suite to see what changes are required.

Copy of Change Request document:



4486 - CR.pdf

Title: Energy Tolerance Rejection code

Change Request No. XRN4495

Description: Within the Tolerance Override Flag field of the shipper inbound read files (UMR, UBR and UDR) there are two acceptable values Y=Yes and Blank. However there have been instances where a shipper has provided a value of N in this field and the record has been accepted. Where the reading relates to a shipper transfer, this invalid value has appeared on the outbound shipper transfer read files (URN) provided to the outgoing shipper, in addition to the shipper providing the data. Validation is required to prevent these records being accepted and a new rejection code. Suggested rejection message being ' Incorrect value in Tolerance Override Flag field'

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4495 - CR.pdf

Title: Insertion of Maximum Number of Occurrences in Meter Inspection Date Notice (MID) File.

Change Request No. XRN4538

Description:

Following Project Nexus Implementation Xoserve received large Meter Inspection Date Notice files immediately following the cutover period that caused issues in UK Link processing. Xoserve propose to limit the maximum number of occurrences to 15,000 N44 records. This file is only passed from the Shipper User to the CDSP so it is only expected to impact this User Type. The change is required to support the operation of UK Link.

Copy of Change Request document:



4538_CR.pdf

Title: New File Level Rejection

Change Request No. XRN4539

Description: Following Project Nexus Implementation Xoserve received a number of files which contained entirely incorrectly formatted records. a specific rejection code for such circumstances does not exist currently, therefore these files were rejected using the File Level Rejection of FIL00012 "Records are not in the expected order in the FRJ File".

In recognition of this the scenario, a proposed change has been mooted to introduce a new rejection code of FIL00020 - "No Valid Message - File contains incorrectly formatted records". This change impacts all Users interacting with the Central Data Service Provider (CDSP) via UK Link.

The change is required to support the industry identify the reason for rejection in this scenario.

Copy of Change Request document:



4539 - CR.pdf

There is no RTB costs incurred as part of Release 3 delivery.

Xoserve Service Area	Xoserve Service Line	(+/-) Projected Change in Annual Cost	(+/-)Actual Change in Annual Cost
NA	NA	NA	NA

There are no outstanding actions that are pending on external parties to be completed following implementation.

The total cost of the Release 3 Delivery = £1,490,801 (BER)

The total actual cost of the Release 3 Delivery = £1,326,708

The total cost of the Release 3 Delivery of Internally funded Changes = £433,444 (BER)

The total actual cost of the Release 3 Delivery of internally funded Changes = £426,285

Noted Internal Resource Costs for overall scope = £490,664

Section 2: Confirmed Funding Arrangements

Gas Industry Participant	BER Share of Cost	Actual Share of Cost	BER Cost Value	Actual Cost Value
Shippers	17%	20%	£183,397	£178,352
IGTs	0%	0%	£0	£0
DNOs	3%	3%	£31,205	£31,179
Transmission	80%	77%	£842,755	£ 690,892
DN's & IGT	0%	0%	£0	£0

Section 3: Provide a summary of any agreed scope changes

No scope changes were introduced to Release 3

Section 4: Detail any changes to the Xoserve Service Description

Service Description Table

Existing Change Proposal Number	Xoserve Change Request Number	Change Request Title	Service Area Details	Service Area Details				
				Shipper Users	Transporters			
					National Grid NTS	Distribution		
						DN Operators and Independent Gas Transporters	DN Operators	Independent Gas Transporters
XRN4534		Amendment to RGMA Validation Rules for Meter Asset Installation Date	Service Area 1: Manage Supply Point Registration	100% £129,674				
XRN4273		Introducing IHD (In-Home Display) Installed Status of Failed MOD614	Service Area 1: Manage Supply Point Registration	100% £38,353				
XRN3656	UKLP IADBI060	Read Validation Tolerances	Service Area 5: Metered Volume and Metered Quantity	33% £15,370			67% 31,205	
XRN4454	UKLP IADBI281	Cadent Billing - DN Sales (Outbound Services)	Service Area 7: NTS Capacity / LDZ Capacity / Commodity / Reconciliation / Ad-Hoc Adjustment and Energy Balancing Invoices		100% £842,755			
			TOTAL:	£183,397	£842,755		£31,205	

Section 5: Provide details of any revisions to the text of the UK Link Manual

There were no changes made to the UK Link Manual.

All the file format changes followed the formal Change Pack process to be reviewed and approved by the respective Customer constituent parties.

Section 6: Lessons Learnt

The top 3 key learnings from the delivery of this change are:

1. A number of open production defects impacted the testing timescales for XRN4534 RGMA Validation change. Some of which were present at the start of testing, with additional defects detected through test execution. This impacted testing timelines and ultimately delayed implementation until 1st March
Recommendation going forward – Open production defects, impacting a change being delivered must be fixed prior to the start of all testing phases. For new production defects detected in testing a process must be in place with our IS operations team to resolve defects and re-test in a timely manner. For changes seen as a high risk of detecting new production defects contingency must also be built into testing timescales.
2. Through test execution of 4534 RGMA Validation change a number of new production defects were identified impacting testing timelines and ultimately delaying implementation of the change on 2nd November. Notification of this delay was only communicated to the industry in October Change Management Committee
Recommendation going forward - Ensure delay to Implementation of any change is communicated with sufficient time for any impacted parties to manage impact within their own organisation
3. Throughout Market Trials we experienced some data issues with regards to DM estimation and Energy Factors impacting primary invoice run and resulting in data fixes being required before invoices could be re-generated successfully and issued to MT participants Though this did not impact MT timescales and successful execution it created significant additional work for both SI and Subject Matter Experts validating the files.
Recommendation going forward – Ensure the daily jobs are run, DM estimation, Energy Factors etc. Ensure the daily jobs are run, which will provide running primary invoices prior to window opening for MT. Daily BAU jobs to run for entirety of Market Trials phase

Positive learnings to be continued:

1. Positive feedback was received on the ongoing communication throughout the Market Trials phase, with a daily call at 9:30 each day with a summary call each Friday to provide an update on Progress.
2. Throughout testing and leading up to Implementation of XRN4454 Cadent (DN Sales) joint weekly calls were held with both NG and Cadent, the two impacted stakeholders. This helped resolve any issues with regards to testing and implementation and ensured a successful cutover without issue.

Appendix A: Business Benefits:

Ref ID	XRN Ref No	Change Item No.	Change Description	Benefits Realised
1	XRN4534		Amendment to RGMA Validation Rules for Meter Asset Installation Date	Introduction of this change allows for a registered user to correctly record the asset installation details for the correct date, the validation rule within UK Link will be amended for both the ONJOB and ONUPD files
2	XRN4273		Introducing IHD (In-Home Display) Installed Status of Failed MOD614	This change Introduced a new 'In Home Display Status of 'F' - 'Failed IHD Asset' to allow shippers to clearly record all of the required IHD installation status values within UK Link
3	XRN3656	UKLPIADBI060	Read Validation Tolerances	Introduction of a further split of the first AQ band was completed based on industry analysis completed.
4	XRN4453	UKLPIADBI280v3	File Format Should Have Changes	Introduction of a number of file format, records and hierarchies changes amended with functional and administrative changes. These changes were identified both internally at Xoserve and by Market participants during Market Trials.
5	XRN4431	UKLPIADBI202	Reads failing market breaker tolerance to be accepted for correct date following AQ correction	Reads previously failing market breaker tolerance now corrected via AQ correction process (AQI), to enable future meter readings to be accepted in the system, based on the validation using the new AQ value
6	XRN4481	UKLPIADBI332	Resolution of Penny Mismatches within invoice supporting information for Core invoices	Implementation of this change corrected penny mismatches previously occurring against supporting information files for invoices.

7	XRN4337		To change the optionality of the Supply Point confirmation reference for the T51 file	<p>Introduction of this change allows a Winter Consumption calculation failure to be issued to an incoming Shipper.</p> <p>To enable this during the confirmation process a change was made to the optionality of Supply point confirmation reference number contained within the T51 record for the NRL file.</p>
8	XRN4495	UKLPIADBI356	Energy Tolerance Rejection Code	<p>The tolerance override flag has two allowable values, Blank and Y, however instances had occurred where the value N was also being accepted.</p> <p>Implementation of this change means N will no longer be accepted as an allowable value.</p>
9	XRN4539		New File Level Rejection	This change introduced a new rejection code within SAP so users are able to identify files which are incorrectly formatted with a new rejection code not present at Nexus Go Live
10	XRN4443	UKLPIADBI258	File Format Changes Aug 16 – Unique Sites (deferred items from CR252)	<p>Implementation of this change delivered two key benefits:</p> <p>Firstly it ensures the correct SPECIFIED ENTRY POINT is provided, recorded and validated during the confirmation process.</p> <p>Secondly, it ensures the correct notification of sharing shipper details for Shared Supply Points during the confirmation process</p>
11	XRN4458	UKLPIADBI289	Class 4 CSEPS Reconciliation Variance Identification	<p>System now recognises time slice periods of a CSEP project update that impact CSEP Max AQ and/ or the MAX SOQ. This ensures all CSEP projects have the appropriate rates applied for the associated meter points.</p> <p>This change removes a manual monthly workaround previously in place.</p>

12	XRN4486	UKLPIADBI338	Meter Type O = Orifice to be an acceptable value in file formats and reports	Meter Type O is now a valid and acceptable value within file formats and reports for non-standard sites. Removal of a workaround previously in place that where O should be populated for the meter type, Z (unknown) is being populated instead.
13	XRN4538		Insertion of Maximum Number of Occurrences in Meter Inspection Date Notice (MID) File	MID file now has a maximum record occurrence defined in N44 segment limiting occurrences to 15000.
14	XRN4454	UKLPIADBI281	Cadent Billing – DN Sales (Outbound Services)	This change implemented the enduring solution for the separation of Cadent and National Grid Transmission. National Grid and Cadent are now separated as organisations within UK Link and other Xoserve systems with separate short codes.

Please send completed form to: box.xoserve.portfoliooffice@xoserve.com

Document Version History

Version	Status	Date	Author(s)	Summary of Changes
0.1	Draft	27/03/2019	Tom Lineham	Document Created
0.2	Complete	04/04/19	Padmini Duvvuri	Detail Added

Template Version History

Version	Status	Date	Author(s)	Summary of Changes
2.0	Approved	17/07/18	Rebecca Perkins	Template approved at ChMC on 11 th July