

# Enduring Migration Transformation Rules For The UKLink Programme

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## 1 Document Purpose

The purpose of this document is to accurately capture the transformation rules for the migration of data from legacy UK Link and the IGT migration database to the new UK Link System.

This document describes the transformation rules to be used for enduring purposes.

The transformation rules are based on presentations and discussions at the IGT/Xoserve Single Service Provision Review Meeting (SSP), Data Management Group (DMG) or individual one to one discussions.

Each rule will have been approved via the UKLink Committee (UKLC) and once approved, will be documented here.

The final approved version of this document will form the basis of the enduring transformation rules.

## Intended Audience

- Independent Gas Transporters
- Xoserve
- Shippers
- Gas Transporters

## 2 Executive Summary

### 2.1 Introduction To The Change

This document details the considerations for the application of a variety of data migration transformation rules. Agreement for the application of these rules will enable data to be migrated from source systems, the IGT migration database and current UK Link into the new UK Link System (for User Acceptance Testing / Market Trials / Go-live) to enable the requirements to take effect as defined within:

- Uniform Network Code Modification 0440 Project Nexus iGT Single Service Provision
- IGTUNC039 – Use of a Single Gas Transporter Agency for the common services and systems and processes required by the iGT UNC
- Uniform Network Code Modification 0432 – Project Nexus Gas Demand Estimation, Allocation, Settlement and Reconciliation reform
- Uniform Network Code Modification 0434 – Project Nexus Retrospective Adjustment

### 2.2 Change Drivers And Business Goals

#### Drivers

To deliver the new requirements with the least disruption to the industry.

Enabling maximisation of data migrated to the new UK Link System in the required operational structure.

Ensure data can successfully load to be used in the new SPA and Settlement Processes.

#### Business Goals

To develop an industry agreed robust regime for the transition from current to new arrangements as defined within Modifications listed under Section 2.1

### **3 Scope**

Transformation rules required to deliver the changes required under the Modifications listed in Section 2.1, including any Transformation rules applicable to both GT and iGT sites.

## **4 Assumptions and Dependencies**

### **4.1 Assumptions**

Transformation rules will be applied to meet the requirements of the SAP system. In some cases this applies to data items required by SAP but not held (nor required to be held) by iGTs and /or GTs. In some cases, data is still pending from iGTs to populate the IGT migration database.

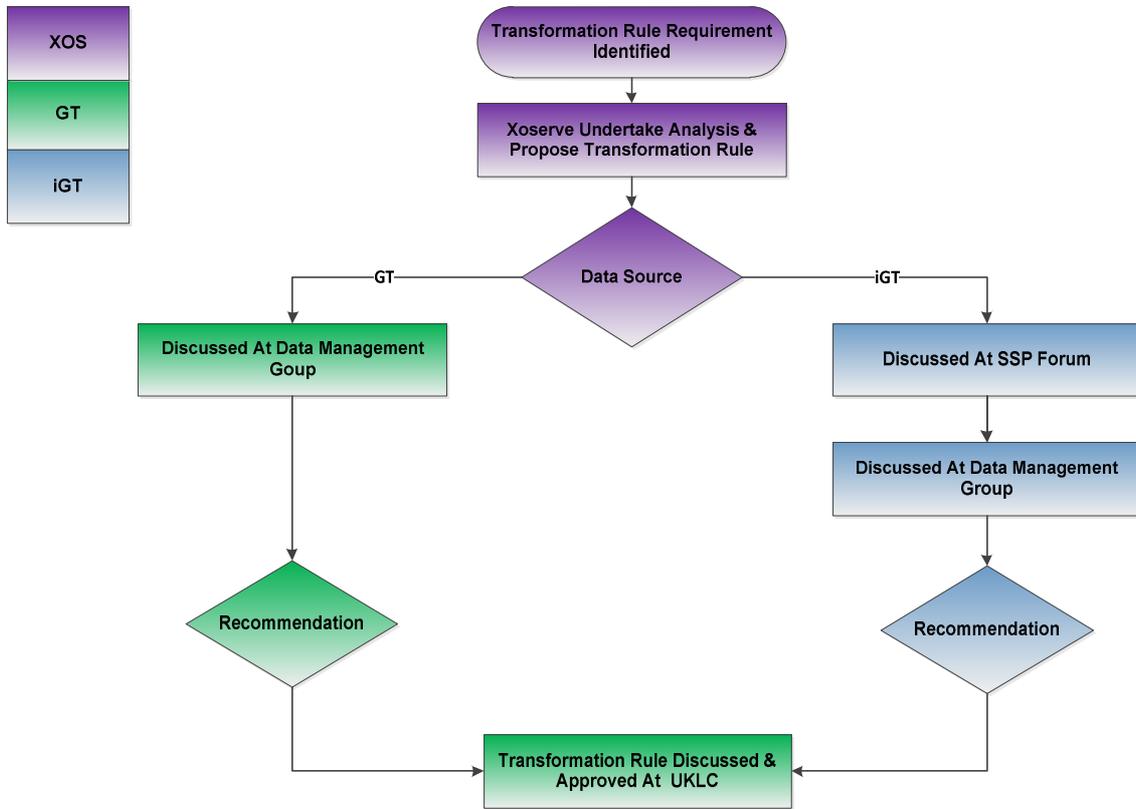
IGT Portfolio data will continue to be issued to Xoserve within the agreed timescales.

Xoserve will provide adequate information and time to allow review and approval of the transformation rules.

Where a transformation rule(s) is not agreed an alternative rule or cleanse deadline shall be agreed between parties.

### 4.2 Dependencies

Transformation rules to be reviewed within the agreed timescale and following review and approval via appropriate governance route, shown below:-



If a Transformation Rule is not approved at the relevant forum, ownership of the data item will be determined for escalation.

Data to be provided where appropriate by Xoserve to Shippers and Transporters identifying sites affected by proposed transformation rules.

Supporting data provided within the Data Management Group, iGT SSP Review Meetings and UKLink Committee meetings to aide cleansing activities.

### 4.3 Risks & Issues

Data may not migrate to the new UK Link System if:-

- o Data is not prepared
- o Enduring transformation rules are not implemented.

## 5 IGT Transformation Rules Register

### 5.1 iGT Organisation Related Rules

No	Rule Title	Why Proposed iGT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
1	<b>Blank Or Invalid Service Provider</b>	<p>Where service provider information has not been provided or is invalid, Xoserve will apply an enduring rule defined to populate the appropriate information as detailed below:-</p> <ol style="list-style-type: none"> <li>Where there is a known 1-2-1 Shipper/Supplier relationship</li> <li>Where Shippers have provided a preferred Supplier short code</li> <li>Where no preferred Supplier has been provided then use the Supplier with the greatest number of meter points on the market intelligence report</li> </ol> <p>The volumes represented here have been split into 3 groups:-</p> <ol style="list-style-type: none"> <li>Shipper provided / no Supplier provided</li> <li>No Shipper provided / no Supplier provided</li> <li>Invalid Supplier provided</li> </ol>	16/02/2016	18/02/2016	04/01/2016	Y
2	<b>MAM ID Is Blank Or Invalid</b>	Where the Meter Asset Manager ID is not known to the iGT (where the MAM is not the iGT), Xoserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown). This rule will be applied to all MPRNs, including 3rd party metered supply points (where the respective iGT is not the registered MAM).	21/07/2015	20/08/2015	04/01/2016	Y
3	<b>Elected Shipper/Supplier</b>	Where there is a confirmed MPRN but no meter asset attached, Xoserve will apply an enduring rule defined to migrate the Shipper/Supplier as elected Shipper/Supplier and not as a confirmed Shipper/Supplier (where there is no indication of a current or historic meter installation e.g. a removed meter present, reading has been provided, etc.)	16/02/2016	20/08/2015	04/01/2016	Y
4	<b>Network Owner Effective From Date</b>	Where the network owner effective from date has not been provided, Xoserve will apply an enduring rule defined to use a default date of 01/01/1990 (pre-NEXA) in order to capture all meter points.	21/10/2015	19/11/2015	04/01/2016	Y
5	<b>RQ/CO Status Not Updated In IGT Migration Database</b>	<p>Where confirmations exist at 'CO' and 'RO' statuses for historic confirmation effective dates, Xoserve will apply an enduring rule defined to use the latest confirmation where the confirmation date is in the past and the status is 'CO' and migrate as 'L'.</p> <p>For the latest confirmation where the confirmation date is in the past and the status is 'RO' and where there is no previous confirmation the meter point will be migrated as shipperless.</p> <p>For the latest confirmation where the confirmation date is in the past and the status is 'RO' and where there is a previous confirmation, the confirmation for the previous Shipper will be migrated with a status of 'L'.</p>	15/03/2016	17/03/2016	14/04/2016	N

#### 1.0 **Blank or Invalid Service Provider**

Where service provider information has not been provided or is invalid, Xoserve will apply an enduring rule defined to populate the appropriate information as detailed below:-

- Where there is a known 1-2-1 Shipper/Supplier relationship
- Where Shippers have provided a preferred Supplier short code
- Where no preferred Supplier has been provided then use the Supplier with the greatest number of meter points on the market intelligence report

The volumes represented here have been split into 3 groups:-

- Shipper provided / no Supplier provided
- No Shipper provided / no Supplier provided
- Invalid Supplier provided

#### 2.0 **MAM ID Is Blank Or Invalid**

Where the Meter Asset Manager ID is not known to the iGT (where the MAM is not the iGT), Xoserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown). This rule will be applied to all MPRNs, including 3rd party metered supply points (where the respective iGT is not the registered MAM).

#### 3.0 **Elected Shipper/Supplier**

Where there is a confirmed MPRN but no meter asset attached, Xoserve will apply an enduring rule defined to migrate the Shipper/Supplier as elected Shipper/Supplier and not as a confirmed Shipper/Supplier (where there is no indication of a current or historic meter installation e.g. a removed meter present, reading has been provided, etc.)

#### 4.0 **Network Owner Effective From Date**

Where the network owner effective from date has not been provided, Xoserve will apply an enduring rule defined to use a default date of 01/01/1990 (pre-NEXA) in order to capture all meter points.

### 5.0 RQ/CO Status Not Updated In IGT Migration Database

Where confirmations exist at 'CO' and 'RQ' statuses for historic confirmation effective dates, Xoserve will apply an enduring rule defined to use the latest confirmation where the confirmation date is in the past and the status is 'CO' and migrate as 'LI'.

For the latest confirmation where the confirmation date is in the past and the status is 'RQ' and where there is no previous confirmation the meter point will be migrated as shipperless.

For the latest confirmation where the confirmation date is in the past and the status is 'RQ' and where there is a previous confirmation, the confirmation for the previous Shipper will be migrated with a status of 'LI'.

## 5.2 iGT Meter Related Rules

No.	Rule Title	Why Proposed iGT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
6	Meter Manufacturer	Where meter assets have been provided without a UK Link recognised meter manufacturer, Xoserve will apply an enduring rule defined to use a default value of 'UNK' (Unknown).	16/02/2016	18/02/2016	04/01/2016	Y
7	Incorrect Meter Manufactured Year	Where a valid meter manufactured year (<1960 and > current system year) has not been provided, Xoserve will apply an enduring rule defined to use a default year of 1960.	21/07/2015	17/12/2015	04/01/2016	Y
8	Correction Factor Is Null	Where an asset is attached but the correction factor is Null or '0', Xoserve will apply an enduring rule defined to use a default value of '1.02264'.	21/07/2015	18/12/2015	04/01/2016	Y
9	Invalid Imperial Indicator Provided	Where an invalid imperial indicator has been provided, Xoserve will apply an enduring rule defined to use a default value of 'N' (which will indicate a metric meter).	15/09/2015	19/11/2015	04/01/2016	Y
10	Meter Mechanism Code (MME) Is Null/Space	Where the meter mechanism code has not been provided or has been populated with a space, Xoserve will apply an enduring rule defined to use a default value of 'U' (Unknown).	15/09/2015	19/11/2015	04/01/2016	Y
11	Meter Location Code	Where the meter location code has not been provided or has been populated with a space, Xoserve will apply an enduring rule defined to use a default value of '00' (Unknown).	17/11/2015	19/11/2015	04/01/2016	Y
12	Meter Removal Date < Meter Fitted Date	Where the meter removal date precedes the meter fitted date, Xoserve will apply an enduring rule defined to migrate the meter, but ignore the removal date (hence the meter will be classed as a billable device).	21/07/2015	19/11/2015	04/01/2016	N
13	Incorrect Meter Installation Year Provided	Where a valid meter installation year is (<1960 and > current system year) has not been provided, Xoserve will apply an enduring rule defined to use a default year of 1960.	19/04/2016	21/04/2016	25/05/2016	N
14	Meter Status	Where a meter asset is attached but the meter status provided is not one of the SAP allowable values ('LI', 'RE', 'CA' or 'CL'), Xoserve will apply an enduring rule defined to use a default value of 'LI' (Live).	21/07/2015	19/11/2015	04/01/2016	Y
15	Correctors Have Been Provided Without A Valid Corrector Manufacturer	Where a corrector has been provided without a valid corrector manufacturer, Xoserve will apply an enduring rule defined to default the corrector manufacturer to 'UNK' (Unknown).	21/07/2015	19/11/2015	10/03/2016	N
16	Last Meter Inspection Date	Where the last meter inspection date is not available, Xoserve will apply an enduring rule defined to use a default date (default to the latest reading date where the read source is 'M' or 'S'), otherwise default to the asset installation date.	15/03/2016	17/03/2016	14/04/2016	N
17	Meter With Number Of Dials As Zero	Where meter records are held with the number of dials as Zero, Xoserve will apply an enduring rule defined to migrate metric meters as 5 dial meters and imperial meters as 4 dial meters.	15/03/2016	17/03/2016	14/04/2016	N
18	Mains Pressure Type	Where the mains pressure type is blank, Xoserve will apply an enduring rule defined to use a default value of 'U' (Unknown) where the meter point AQ is equal to or greater than 732,000 kWh.	15/03/2016	17/03/2016	14/04/2016	N
19	Gas Act Owner	Where the gas act owner has not been provided, Xoserve will apply an enduring rule defined to use a default value of 'T' (Transporter) where the iGT is also the MAM, otherwise default to 'S' (Shipper).	16/02/2016	18/02/2016	10/03/2016	N
20	Future Meter Installation Dates	Where a future meter installation date has been provided, Xoserve will apply an enduring rule defined to amend the date to match the first read date on the current meter.	20/06/2016	23/06/2016	08/09/2016	N
21	Meter Installed And Removed On Same Day	Where the meter record has been provided with a status of 'RE' and a status change date that is the same as the meter installation date (i.e. it was installed and removed on the same day), Xoserve will apply an enduring rule defined to exclude the meter record and any of the associated meter readings from migration.	20/06/2016	23/06/2016	08/09/2016	N

### 6.0 Meter Manufacturer

Where meter assets have been provided without a UK Link recognised meter manufacturer, Xoserve will apply an enduring rule defined to use a default value of 'UNK' (Unknown).

### 7.0 Incorrect Meter Manufactured Year

Where a valid meter manufactured year (>31/12/1899 and < current system date) has not been provided, Xoserve will apply an enduring rule defined to use a default date of 1960.

### 8.0 Correction Factor Is Null

Where an asset is attached but the correction factor is Null or '0', Xoserve will apply an enduring rule defined to use a default value of '1.02264'.

**9.0 Invalid Imperial Indicator Provided**

Where an invalid imperial indicator has been provided, Xserve will apply an enduring rule defined to use a default value of 'N' (which will indicate a metric meter).

**10.0 Meter Mechanism Code (MME) Is Null/Space**

Where the meter mechanism code has not been provided or has been populated with a space, Xserve will apply an enduring rule defined to use a default value of 'U' (Unknown).

**11.0 Meter Location Code**

Where the meter location code has not been provided or has been populated with a space, Xserve will apply an enduring rule defined to use a default value of '00' (Unknown).

**12.0 Meter Removal Date < Meter Fitted Date**

Where the meter removal date precedes the meter fitted date, Xserve will apply an enduring rule defined to migrate the meter, but ignore the removal date (hence the meter will be classed as a billable device).

**13.0 Incorrect Meter Installation Year Provided**

Where a valid meter installation year (>31/12/1899 and < current system date) has not been provided, Xserve will apply an enduring rule to use a default date of 01/01/1960.

**14.0 Meter Status**

Where a meter asset is attached but the meter status provided is not one of the SAP allowable values ('LI', 'RE', 'CA' or 'CL'), Xserve will apply an enduring rule defined to use a default value of 'LI' (Live).

**15.0 Correctors Have Been Provided Without A Valid Corrector Manufacturer**

Where a corrector has been provided without a valid corrector manufacturer, Xserve will apply an enduring rule defined to default the corrector manufacturer to 'UNK' (Unknown).

**16.0 Last Meter Inspection Date**

Where the last meter inspection date is not available, Xserve will apply an enduring rule defined to use a default date (default to the latest reading date where the read source is 'M' or 'S'), otherwise default to the asset installation date.

**17.0 Meter With Number Of Dials As Zero**

Where meter records are held with the number of dials as Zero, Xserve will apply an enduring rule defined to migrate metric meters as 5 dial meters and imperial meters as 4 dial meters.

**18.0 Mains Pressure Type**

Where the mains pressure type is blank, Xserve will apply an enduring rule defined to use a default value of 'U' (Unknown) where the meter point AQ is equal to or greater than 732,000 kWh.

**19.0 Gas Act Owner**

Where the gas act owner has not been provided, Xserve will apply an enduring rule defined to use a default value of 'T' (Transporter) where the iGT is also the MAM, otherwise default to 'S' (Shipper).

**20.0 Future Meter Installation Dates**

Where a future meter installation date has been provided, Xserve will apply an enduring rule defined to amend the date to match the first read date on the current meter.

**21.0 Meter Installed And Removed On Same Day**

Where the meter record has been provided with a status of 'RE' and a status change date that is the same as the meter installation date (i.e. it was installed and removed on the same day), Xserve will apply an enduring rule defined to exclude the meter record and any of the associated meter readings from migration.

## 5.3 iGT Meter Point Related Rules

No.	Rule Title	Why Proposed iGT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
22	Meter Point Status	Where a meter point status has been provided that is not one of the SAP allowable values ('LI', 'CA', 'CL', 'DE', 'EX'), Xoserve will apply an enduring rule defined to default to a value of 'LI' (Live). The exception to this rule is for meter point status of 'SP' (spin capped), which will be defaulted to a value of 'CA' (capped).	21/07/2015	20/08/2015	04/01/2016	Y
23	Meter Point Address – Counties	Where a full county name cannot be determined (e.g. '*', '1', '2BG'), Xoserve will apply an enduring rule defined to migrate this field as blank.	18/08/2015	20/08/2015	04/01/2016	Y
24	Postcode / Exit Zone Mapping	A number of MPRNs are currently held which historically contain incorrect postcode to exit zone mappings. This requires the Shipper to reconfirm the site in order to rectify the issue and re-align the postcode to the correct exit zone. Xoserve will apply an enduring rule defined to automatically map these historic errors to the correct exit zone, negating the need for a reconfirmation.	15/09/2015	19/11/2015	04/01/2016	Y
25	PAF Indicator	Where the PAF indicator is currently blank (required for some outgoing files from Xoserve), Xoserve will apply an enduring rule defined to use a default value of 'A' (Address has letter box but has not passed PAF validation however has been cleared as a correct address).	15/09/2015	19/11/2015	04/01/2016	Y
26	Charge Rate Effective Dates	Where iGT transportation effective dates are not available, Xoserve will apply an enduring rule defined to use 1st January in the year of new UKLink go-live date. Where infill rate effective dates are not available, Xoserve will apply an enduring rule defined to use 1st January in the year of new UKLink go-live date. Where metering rate effective dates are not available, Xoserve will apply an enduring rule defined to use 1st April in the year of new UKLink go-live date.	21/07/2015	20/08/2015	04/01/2016	Y
27	Invalid Postcodes - Outcode (Meter Point Level)	Where the meter point postcode outcode is incorrectly structured, Xoserve will apply an enduring rule defined to use the CSEP outcode where the CSEP outcode is correctly structured. Where unable to use CSEP postcode Xoserve will align to other associated MPRNs (linked to the same CSEP) where they have a correctly structured postcode.	15/03/2016	17/03/2016	14/04/2016	N
28	Postcode Incode	Where the postcode incode has not been provided or has been populated with a space, Xoserve will apply an enduring rule defined to use a default value of '1VV' (dummy incode).	15/03/2016	17/03/2016	14/04/2016	N
29	Invalid Postcodes - Incode (Meter Point Level)	Where the meter point postcode incode is incorrectly structured, Xoserve will apply an enduring rule defined as follows:- Where the incode provided starts with a number Xoserve will default the alpha part of the postcode (e.g. '9 X' would become '9VV'). Where incode is completely invalid (e.g. 'UNK') then a default value of '1VV' will be used.	15/03/2016	17/03/2016	14/04/2016	N
30	Blank Address Details	Where plot number, delivery point alias, building number and building name have not been provided, Xoserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown) in the delivery point alias field.	16/05/2016	19/05/2016	29/06/2016	N
31	MPRNs With Vulnerable Customer Information That Have A Contact Type Of EMR	Where an MPRN with an AQ below 732,000 kWh has a contact type of 'EMR' and has vulnerable customer information, Xoserve will apply an enduring rule defined to use a default Contact Type of 'CON'. Where an MPRN has an AQ equal to or greater than 732,000 kWh then Xoserve will apply an enduring rule defined to migrate as is.	20/06/2016	23/06/2016	08/09/2016	N
32	Contact Initial Is Blank Where Contact Type Is CON	Where the contact initial is blank and the contact type is 'CON', Xoserve will apply an enduring rule defined to default the contact initial to 'UNK' (Unknown).	20/06/2016	23/06/2016	08/09/2016	N
33	Special Characters On Address Data	Where a special character is populated in the post town field, Xoserve will apply an enduring rule defined to default this field to 'Unknown' (Unknown). Where a special character is populated in other address fields, Xoserve will apply an enduring rule defined to migrate these fields as blank.	20/06/2016	23/06/2016	08/09/2016	N

### 22.0 Meter Point Status

Where a meter point status has been provided that is not one of the SAP allowable values ('LI', 'CA', 'CL', 'DE', 'EX'), Xoserve will apply an enduring rule defined to default to a value of 'LI' (Live).

The exception to this rule is for meter point status of 'SP' (spin capped), which will be defaulted to a value of 'CA' (capped).

### 23.0 Meter Point Address – Counties

Where a full county name cannot be determined (e.g. '\*', '1', '2BG'), Xoserve will apply an enduring rule defined to migrate this field as blank.

### 24.0 Postcode / Exit Zone Mapping

A number of MPRNs are currently held which historically contain incorrect postcode to exit zone mappings. This requires the Shipper to reconfirm the site in order to rectify the issue and re-align the postcode to the correct exit zone. Xoserve will apply an enduring rule defined to automatically map these historic errors to the correct exit zone, negating the need for a reconfirmation.

### 25.0 PAF Indicator

Where the PAF indicator is currently blank (required for some outgoing files from Xoserve), Xoserve will apply an enduring rule defined to use a default value of 'A' (Address has letter box but has not passed PAF validation however has been cleared as a correct address).

**26.0 Charge Rate Effective Dates**

Where iGT transportation effective dates are not available, Xserve will apply an enduring rule defined to use 1st January in the year of new UKLink go-live date.

Where infill rate effective dates are not available, Xserve will apply an enduring rule defined to use 1st January in the year of new UKLink go-live date.

Where metering rate effective dates are not available, Xserve will apply an enduring rule defined to use 1st April in the year of new UKLink go-live date.

**27.0 Invalid Postcode (Outcode)**

Where the meter point postcode outcode is incorrectly structured, Xserve will apply an enduring rule defined to use the CSEP outcode where the CSEP outcode is correctly structured. Where unable to use CSEP postcode Xserve will align to other associated MPRNs (linked to the same CSEP) where they have a correctly structured postcode.

**28.0 Postcode Incode**

Where the postcode incode has not been provided or has been populated with a space, Xserve will apply an enduring rule defined to use a default value of '1VV' (dummy incode).

**29.0 Invalid Postcode Incode (Meter Point Level)**

Where the meter point postcode incode is incorrectly structured, Xserve will apply an enduring rule defined as follows:-

Where the incode provided starts with a number Xserve will default the alpha part of the postcode (e.g. '9 X' would become '9VV').

Where incode is completely invalid (e.g. 'UNK') then a default value of '1VV' will be used.

**30.0 Blank Address Details**

Where plot number, delivery point alias, building number and building name have not been provided, Xserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown) in the delivery point alias field.

**31.0 MPRNs With Vulnerable Customer Information That Have A Contact Type Of EMR**

Where an MPRN with an AQ below 732,000 kWh has a contact type of 'EMR' and has vulnerable customer information, Xserve will apply an enduring rule defined to use a default Contact Type of 'CON'. Where an MPRN has an AQ equal to or greater than 732,000 kWh then Xserve will apply an enduring rule defined to migrate as is.

**32.0 Contact Initial Is Blank Where Contact Type Is CON**

Where the contact initial is blank and the contact type is 'CON', Xserve will apply an enduring rule defined to default the contact Initial to 'UNK' (Unknown).

**33.0 Special Characters On Address Data**

Where a special character is populated in the post town field, Xserve will apply an enduring rule defined to default this field to 'Unknown' (Unknown). Where a special character is populated in other address fields, Xserve will apply an enduring rule defined to migrate these fields as blank.

## 5.4 iGT Read Related Rules

No.	Rule Title	Why Proposed iGT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
34	Meter Read Source / Reason	Where the combination of meter read reason and meter read source provided are invalid, Xoserve will apply an enduring rule defined to map invalid values to SAP valid values/combinations.	16/02/2016	18/02/2016	10/03/2016	Y
35	Meter Read Factor	Where an invalid meter read factor has been provided, Xoserve will apply an enduring rule defined to use a default value of '1' for both metric and imperial meters.	18/08/2015	20/08/2015	04/01/2016	Y
36	Corrector Provided, No Read Provided	Where correctors have been provided with no reads (corrector reads are required for both current and historic corrector assets), Xoserve will apply an enduring rule defined to migrate the associated asset data, but not migrate the corrector data where the corrector reads are missing.	18/08/2015	19/11/2015	04/01/2016	Y
37	Meter Read Frequency	Where the meter read frequency (MRF) is not available, Xoserve will apply an enduring rule defined to populate this field based on AQ banding M (Monthly) or A (Annually), which will be applied as follows:- NDM Monthly equal to or greater than 293,000 kWh. NDM Annual greater than 73,200 kWh and less than 293,000 kWh. NDM Annual less than or equal to 73,200 kWh.	18/08/2015	19/11/2015	04/01/2016	Y
38	GNT Code Is Null	Where the gas nomination type (GNT) code is null, Xoserve will apply an enduring rule defined to default sites managed through the Unique Sites database to 'DM' (Daily Metered). All other sites will be defaulted to 'NDM' (Non-Daily Metered).	21/07/2015	19/11/2015	04/01/2016	Y
39	Multiple Reads For The Same Date	Where multiple readings have been provided for the same day, Xoserve will apply an enduring rule defined to prioritise the reads provided dependent on the read source.	15/03/2016	17/03/2016	14/04/2016	Y
40	Installation Reads	Where meter installation reads have not been provided (required for current and historic asset records), Xoserve will apply an enduring rule defined to use a default value of '0'. The Meter Read Reason will be marked as 'O' (Opening) and the Meter Read Source will be marked as 'T' (Transporter).	21/07/2015	22/10/2015	04/01/2016	Y
41	Negative Meter Reads	Where negative (-) reads have been provided, Xoserve will apply an enduring rule defined to migrate the MPRNs, but exclude the negative reads.	16/02/2016	18/02/2016	10/03/2016	N
42	Removal Reads	Where meter removal reads have not been provided (required for current and historic asset records), Xoserve will apply an enduring rule defined to use the last available reading (for the removed meter) that is held within the iGT migration database. The meter read reason will be marked as 'N' (non opening) and the meter read source marked as 'T' (Transporter).	21/07/2015	22/10/2015	10/03/2016	Y
43	Meter Provided, No Read Provided	Where a meter installation read has not been provided (required for current and historic meter assets), Xoserve will apply an enduring rule defined to use a default value of '0' on the meter installation date.	18/08/2015	22/10/2015	04/01/2016	Y
44	Read Provided, No Meter Provided	Where meter reads have been provided but there are no corresponding asset details available, Xoserve will apply an enduring rule defined to migrate the affected MPRNs without full asset / reading history.	15/03/2016	17/03/2016	14/04/2016	N
45	Reads Longer Than Dials	Where meter reading digits provided are longer than the number of dials recorded for that meter, Xoserve will apply an enduring rule defined to migrate the MPRNs but exclude the affected reads. Where an MPRN would be left without a migrated read the meter would need to be migrated with a default installation read of '0'.	15/03/2016	17/03/2016	14/04/2016	N
46	No Readings Post 1st April 2010	Where no readings are available post 1st April 2010, a MOD will be required to estimate reads for line in the sand (LIS) date.	20/06/2016	23/06/2016	08/09/2016	N
47	Competition Effective Date Is Not Available In The iGT Migration Database	Where the competition effective date is not available, Xoserve will apply an enduring rule defined to apply the MPRN creation date or the meter status date, whichever is the earliest.	20/06/2016	23/06/2016	08/09/2016	N
48	Meter Reads Received Before Meter Installation Date	Where the meter reading date provided is before the installation date, Xoserve will apply an enduring rule defined to exclude the affected reads. If there is not a read available for the installation date, then Xoserve will apply an enduring rule defined to use a default of '0'.	20/06/2016	23/06/2016	08/09/2016	N
49	Future Meter Reading Dates	Where a future meter read date has been provided, Xoserve will apply an enduring rule defined to exclude the affected reads.	20/06/2016	23/06/2016	08/09/2016	N
50	Missing Transfer Reads	Where transfer reads are not available, Xoserve will apply an enduring rule defined to estimate the required reads.	20/06/2016	23/06/2016	08/09/2016	N
51	Corrector Reads With No Corrector	Where corrector reads have been provided but there is no corrector attached to the MPRN, Xoserve will apply an enduring rule defined to exclude the corrector reads from migration.	18/07/2016	20/07/2016	08/09/2016	N

### 34.0 Meter Read/Source Reason

Where the combination of meter read reason and meter read source provided are invalid, Xoserve will apply an enduring rule defined to map invalid values to SAP valid values/combinations.

### 35.0 Meter Read Factor

Where an invalid meter read factor has been provided, Xoserve will apply an enduring rule defined to use a default value of '1' for both metric and imperial meters.

### 36.0 Corrector Provided, No Read Provided

Where correctors have been provided with no reads (corrector reads are required for both current and historic corrector assets), Xoserve will apply an enduring rule defined to migrate the associated asset data, but not migrate the corrector data where the corrector reads are missing.

**37.0 Meter Read Frequency**

Where the meter read frequency (MRF) is not available, Xserve will apply an enduring rule defined to populate this field based on AQ banding M (Monthly) or A (Annually), which will be applied as follows:-  
NDM Monthly equal to or greater than 293,000 kWh.  
NDM Annual greater than 73,200 kWh and less than 293,000 kWh.  
NDM Annual less than or equal to 73,200 kWh.

**38.0 GNT Code Is Null**

Where the gas nomination type (GNT) code is null, Xserve will apply an enduring rule defined to default sites managed through the Unique Sites database to 'DM' (Daily Metered). All other sites will be defaulted to 'NDM' (Non-Daily Metered).

**39.0 Multiple Reads For The Same Date**

Where multiple readings have been provided for the same day, Xserve will apply an enduring rule defined to prioritise the reads provided dependent on the read source.

**40.0 Installation Reads**

Where meter installation reads have not been provided (required for current and historic asset records), Xserve will apply an enduring rule defined to use a default value of '0'. The Meter Read Reason will be marked as 'O' (Opening) and the Meter Read Source will be marked as 'T' (Transporter).

**41.0 Negative Meter Reads**

Where negative (-) reads have been provided, Xserve will apply an enduring rule defined to migrate the MPRNs, but exclude the negative reads.

**42.0 Removal Reads**

Where meter removal reads have not been provided (required for current and historic asset records), Xserve will apply an enduring rule defined to use the last available reading (for the removed meter) that is held within the iGT migration database. The meter read reason will be marked as 'N' (non opening) and the meter read source marked as 'T' (Transporter).

**43.0 Meter Provided, No Read Provided**

Where a meter installation read has not been provided (required for current and historic meter assets), Xserve will apply an enduring rule defined to use a default value of '0' on the meter installation date.

**44.0 Read Provided, No Meter Provided**

Where meter reads have been provided but there are no corresponding asset details available, Xserve will apply an enduring rule defined to migrate the affected MPRNs without full asset / reading history.

**45.0 Reads Longer Than Dials**

Where meter reading digits provided are longer than the number of dials recorded for that meter, Xserve will apply an enduring rule defined to migrate the MPRNs but exclude the affected reads. Where an MPRN would be left without a migrated read the meter would need to be migrated with a default installation read of '0'.

**46.0 No Readings Post 1st April 2010**

Where no readings are available post 1st April 2010, a MOD will be required to estimate reads for line in the sand (LIS) date.

**47.0 Competition Effective Date Is Not Available In The IGT Migration Database**

Where the competition effective date is not available, Xserve will apply an enduring rule defined to apply the MPRN creation date or the meter status date, whichever is the earliest.

**48.0 Meter Reads Received Before Meter Installation Date**

Where the meter reading date provided is before the installation date, Xserve will apply an enduring rule defined to exclude the affected reads. If there is not a read available for the installation date, then Xserve will apply an enduring rule defined to use a default of '0'.

**49.0 Future Meter Reading Dates**

Where a future meter read date has been provided, Xserve will apply an enduring rule defined to exclude the affected reads.

**50.0 Missing Transfer Reads**

Where transfer reads are not available, Xserve will apply an enduring rule defined to estimate the required reads.

**51.0 Corrector Reads With No Corrector**

Where corrector reads have been provided but there is no corrector attached to the MPRN, Xoserve will apply an enduring rule defined to exclude the corrector reads from migration.

**5.5 iGT AQ Related Rules**

No.	Rule Title	Why Proposed iGT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
52	Meter AQ Value '0'	Where the meter AQ value is '0', Xoserve will apply an enduring rule defined to use a default value of '1'.	15/09/2015	19/11/2015	04/01/2016	Y
53	RPC Entry AQ Not Provided Or Zero	Where an RPC (Relative Price Control) Entry/Original meter point AQ has not been provided or provided as '0', Xoserve will apply an enduring rule defined to use a default value of '1'. RPC entry AQ is only used within iGT transportation billing processes.	21/07/2015	19/11/2015	04/01/2016	Y
54	Charging Methodology Effective Date	Where charging methodology has been provided, SAP requires a charging methodology effective date. Where this date has not been provided, Xoserve will apply an enduring rule defined to use the RPC AQ effective date (where provided).	15/09/2015	19/11/2015	04/01/2016	N
55	Charge Rate Of Zero Provided With No Effective From Date	Where a charge rate (transportation, metering or infill) has been provided with a value of zero with no corresponding effective from date, Xoserve will apply an enduring rule defined to ignore the zero charge rate values.	16/02/2016	18/02/2016	10/03/2016	N
56	Negative Transportation Rates	Where a negative transportation rate has been provided (e.g. -1), Xoserve will apply an enduring rule defined to exclude this rate and migrate the effective date as blank.	16/05/2016	19/05/2016	29/06/2016	N
57	Market Sector Code	Where the market sector code has not been provided, Xoserve will apply an enduring rule defined to default the Market Sector Code to 'D' (Domestic) where there are Shipper details available for the meter point. Where there is no Shipper then the market sector code will remain as blank.	16/05/2016	19/05/2016	29/06/2016	N
58	RPC Entry AQ Effective Date	Where there is an original meter point AQ / RPC entry AQ value but the effective date isn't available, Xoserve will apply an enduring rule defined to default the effective date to the meter point status date (where the status is either 'LI' or 'PL'). If the meter point has another status then the effective date will be aligned to the LIS date.	20/06/2016	23/06/2016	08/09/2016	N

**52.0 Meter AQ Value '0'**

Where the meter AQ value is '0', Xoserve will apply an enduring rule defined to use a default value of '1'.

**53.0 RPC Entry AQ Not Provided Or Zero**

Where an RPC (Relative Price Control) Entry/Original meter point AQ has not been provided or provided as '0', Xoserve will apply an enduring rule defined to use a default value of '1'. RPC entry AQ is only used within iGT transportation billing processes.

**54.0 Charging Methodology Effective Date**

Where charging methodology has been provided, SAP requires a charging methodology effective date. Where this date has not been provided, Xoserve will apply an enduring rule defined to use the RPC AQ effective date (where provided).

**55.0 Charge Rate Of Zero Provided With No Effective From Date**

Where a charge rate (transportation, metering or infill) has been provided with a value of zero with no corresponding effective from date, Xoserve will apply an enduring rule defined to ignore the zero charge rate values.

**56.0 Negative Transportation Rates**

Where a negative transportation rate has been provided (e.g. -1), Xoserve will apply an enduring rule defined to exclude this rate and migrate the effective date as blank.

**57.0 Market Sector Code**

Where the market sector code has not been provided, Xoserve will apply an enduring rule defined to default the Market Sector Code to 'D' (Domestic) where there are Shipper details available for the meter point. Where there is no Shipper then the market sector code will remain as blank.

**58.0 RPC Entry AQ Effective Date**

Where there is an original meter point AQ / RPC entry AQ value but the effective date isn't available, Xoserve will apply an enduring rule defined to default the effective date to the meter point status date (where the status is either 'LI' or 'PL'). If the meter point has another status then the effective date will be aligned to the LIS date.

## 6 GT Transformation Rules Register

### 6.1 GT Organisation Related Rules

No.	Rule Title	Why Proposed GT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
59	Invalid MAM ID	Where an invalid MAM has been provided, Xoserve will apply an enduring rule defined to use a default value of 'CPT' (where it is 'CML' currently). Any other errors will use a default of 'Unknown' (Unknown).	N/A	18/02/2016	10/03/2016	Y
60	Blank MAM ID	Where the MAM ID has not been provided, Xoserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown).	N/A	18/02/2016	10/03/2016	Y
61	ASP (Advanced Service Provider) Indicator	<p>Where SMSO code is prefixed with a '9' migrate the ASP code to the newly created ASP ID field in SAP and populate the AMR indicator flag (e.g. 9AB would change to ABC in the ASP ID field). An Annual Check Read date and an AMR device is required in SAP, therefore we are proposing the following:</p> <ul style="list-style-type: none"> <li>- ASP ID will use PNID date as the effective date</li> <li>- AMR dummy device installation use last read date prior to PNID as the effective date</li> <li>- Last reconcilable read date prior to PNID will trigger annual check read (ACR)</li> </ul> <p>This Rule will apply only for NDM sites where there is an asset currently on site. Where there is no asset on site, the AMR flag will not be updated.</p> <p>NB – Only the first rule above will apply for DM (that will move to Class 1) sites</p>	N/A	17/11/2016	08/12/2016	N

#### 59.0 Invalid MAM ID

Where an invalid MAM has been provided, Xoserve will apply an enduring rule defined to use a default value of 'CPT' (where it is 'CML' currently). Any other errors will use a default of 'Unknown' (Unknown).

#### 60.0 Blank MAM ID

Where the MAM ID has not been provided, Xoserve will apply an enduring rule defined to use a default value of 'Unknown' (Unknown).

#### 61.0 ASP (Advanced Service Provider) Indicator

Where SMSO code is prefixed with a '9' migrate the ASP code to the newly created ASP ID field in SAP and populate the AMR indicator flag (e.g. 9AB would change to ABC in the ASP ID field). An Annual Check Read date and an AMR device is required in SAP, therefore we are proposing the following:

- ASP ID will use PNID date as the effective date
- AMR dummy device installation use last read date prior to PNID as the effective date
- Last reconcilable read date prior to PNID will trigger annual check read (ACR)

This Rule will apply only for NDM sites where there is an asset currently on site. Where there is no asset on site, the AMR flag will not be updated.

NB – Only the first rule above will apply for DM (that will move to Class 1) sites

### 6.2 GT Meter Related Rules

No.	Rule Title	Why Proposed GT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
62	Meter Status	Where a meter asset is attached but the meter status provided is not one of the SAP allowable values ('LI', 'RE', 'CA' or 'CL'), Xoserve will apply an enduring rule defined to use a default value of 'LI' (Live).	N/A	19/11/2015	04/01/2016	Y
63	Correction Factor Is 0	Where an asset is attached but the correction factor is Null or '0', Xoserve will apply an enduring rule defined to use a default value of '1.02264'.	N/A	19/11/2015	04/01/2016	Y
64	Corrected Correction Factor Not Equal To 1	Where the corrected correction factor is not equal to '1', Xoserve will apply an enduring rule defined to use a default value of '1'.	N/A	18/02/2016	10/03/2016	N
65	Last Inspection Date Is Not Available	Where the last inspection date is not available, Xoserve will apply an enduring rule defined to default to the latest reading date where the reading source is either 'M' (MRA) or 'S' (Site Visit), otherwise default to the asset installation date.	N/A	17/03/2016	14/04/2016	N
66	Incorrect Meter Installation Year Provided	Where a valid meter installation year (>31/12/1899 and < current system date) has not been provided, Xoserve will apply an enduring rule defined to use a default date of 1960.	N/A	21/04/2016	25/05/2016	N

**62.0 Meter Status**

Where a meter asset is attached but the meter status provided is not one of the SAP allowable values ('LI', 'RE', 'CA' or 'CL'), Xoserve will apply an enduring rule defined to use a default value of 'LI' (Live).

**63.0 Correction Factor Is 0**

Where an asset is attached but the correction factor is Null or '0', Xoserve will apply an enduring rule defined to use a default value of '1.02264'.

**64.0 Corrected Correction Factor Not Equal To 1**

Where the corrected correction factor is not equal to '1', Xoserve will apply an enduring rule defined to use a default value of '1'.

**65.0 Last Inspection Date Is Not Available**

Where the last inspection date is not available, Xoserve will apply an enduring rule defined to default to the latest reading date where the reading source is either 'M' (MRA) or 'S' (Site Visit), otherwise default to the asset installation date.

**66.0 Incorrect Meter Installation Year Provided**

Where an invalid meter installation year (>31/12/1899 and < current system date) has been provided, Xoserve will apply an enduring rule to use a default date of '01/01/1960'.

**6.3 GT Meter Point Related Rules**

No.	Rule Title	Why Proposed GT Transformation Rule Is Required	SSP Agreed Date	DMG Agreed Date	UKLC Approved Date	Rule Applied In Market Trials?
67	Meter Point Status	Where a meter point status has been provided that is not one of the SAP allowable values ('LI', 'CA', 'CL', 'DE', 'EX'), Xoserve will apply an enduring rule defined to default to a value of 'LI' (Live).  The exception to this rule is for meter point status 'SP' (spin capped), which will be defaulted to 'CA' (capped).	N/A	19/11/2015	04/01/2016	Y
68	Meter Point Address – Counties	Where a full county name cannot be determined (e.g. '*', '1', '2BG'), Xoserve will apply an enduring rule defined to migrate this field as blank.	N/A	19/11/2015	04/01/2016	Y
69	Postcode / Exit Zone Mapping	A number of MPRNs are currently held which historically contain incorrect postcode to exit zone mappings. This requires the Shipper to reconfirm the site in order to rectify the issue and re-align the postcode to the correct exit zone. Xoserve will apply an enduring rule defined to automatically map these historic errors to the correct exit zone, negating the need for a reconfirmation.	N/A	19/11/2015	04/01/2016	Y
70	Electronic Address (ELA)	Where an invalid ELA type has been provided that is not one of the SAP allowable values ('TEL', 'FAX', 'PAG' or blank), Xoserve will apply an enduring rule defined to use a default value of 'TEL'.	N/A	19/11/2015	04/01/2016	N
71	Emergency Contact Type	Where an invalid emergency contact type has been provided that is not one of the SAP allowable values ('EMR', 'CON', 'ISC', 'ISO'), Xoserve will apply an enduring rule defined to use a default value of 'CON'.	N/A	19/11/2015	04/01/2016	Y
72	Manned 24hrs Indicator	Where sites that are manned 24 hours have an incorrect value other than 'Y' or 'N' (e.g. 'D' or '2'), Xoserve will apply an enduring rule defined to migrate the field as blank.	N/A	18/02/2016	10/03/2016	N
73	Contact Initial Is Missing Where Contact Type Is 'CON'	Where the Contact Initial is not available (mandatory in the S66 (Contact Details) record for SSP sites where contact type is CON), Xoserve will apply an enduring rule defined to use a default value of 'UNK' (Unknown).	N/A	17/03/2016	14/04/2016	N

**67.0 Meter Point Status**

Where a meter point status has been provided that is not one of the SAP allowable values ('LI', 'CA', 'CL', 'DE', 'EX'), Xoserve will apply an enduring rule defined to default to a value of 'LI' (Live).

The exception to this rule is for meter point status 'SP' (spin capped), which will be defaulted to 'CA' (capped).

**68.0 Meter Point Address – Counties**

Where a full county name cannot be determined (e.g. '\*', '1', '2BG'), Xoserve will apply an enduring rule defined to migrate this field as blank.

**69.0 Postcode / Exit Zone Mapping**

A number of MPRNs are currently held which historically contain incorrect postcode to exit zone mappings. This requires the Shipper to reconfirm the site in order to rectify the issue and re-align the postcode to the correct exit zone. Xoserve will apply an enduring rule defined to automatically map these historic errors to the correct exit zone, negating the need for a reconfirmation.

**70.0 Electronic Address (ELA)**

Where an invalid ELA type has been provided that is not one of the SAP allowable values ('TEL', 'FAX', 'PAG' or blank), Xoserve will apply an enduring rule defined to use a default value of 'TEL'.

**71.0 Emergency Contact Type**

Where an invalid emergency contact type has been provided that is not one of the SAP allowable values ('EMR', 'CON', 'ISC', 'ISO'), Xoserve will apply an enduring rule defined to use a default value of 'CON'.

**72.0 Manned 24hrs Indicator**

Where sites that are manned 24 hours have an incorrect value other than 'Y' or 'N' (e.g. 'D' or '2'), Xoserve will apply an enduring rule defined to migrate the field as blank.

**73.0 Contact Initial Is Missing Where Contact Type Is 'CON'**

Where the Contact Initial is not available (mandatory in the S66 (Contact Details) record for SSP sites where contact type is CON), Xoserve will apply an enduring rule defined to use a default value of 'UNK' (Unknown).