



XRN4914 Retro PoC Project – Shipper Input File Spec

Document Revision History

Version No.	Date	Author	Description
0.1	23/10/2019	Nikki Lindsell	Draft
0.2	24/10/2019	Harfan Ahmed	Updated following review of Draft version
0.3	25/10/2019	Tony Baker	Updated with additional data classification wording
0.4	29/10/2019	Tony Baker	Final data classification wording agreed, and file naming content added
0.5	29/10/2019	Harfan Ahmed	Sign off walkthrough changes
1.0 Approved	29/10/2019	Tony Baker	Version Baselined

Contains 3 different Record Types

Level	Record Name	Occurrence	Optionality
1	HD_A00_STANDARD_HEADER	1	Mandatory
1	RT_R01_METER_POINT_DETAIL_DATASET	500,000 rows* or 200MB *	Mandatory
1	TR_Z99_STANDARD_TRAILER	1	Mandatory

Note 1

DOM - Domain (T - text, N - Numeric, D - Date (YYYYMMDD), M – Timestamp

LNG - Number of characters

DEC - Number of decimal places

OPT – Optional / Mandatory

* File sizes above recommended limits to be agreed between Xoserve and Customer

Note 2

File Name Convention - Project Name.Shipper Short Code.File number

Test Example - RETROPOC.XXX.Test01.csv

Live Example - RETROPOC.XXX.01.csv

File numbers are issued sequentially from 01 with separate ranges for Testing and Live data files

Summary

For the Retrospective Data Updates Proof of Concept exercise Xoserve have developed a flexible file layout which allows Customers to choose the level to which you are able to participate.

To obtain the widest insight and perform optimum analysis during the Proof of Concept exercise we encourage Customers to provide as many 'Optional' data items as possible. Every additional data item provided will increase the accuracy of the PoC findings and support a robust reflection of the overall levels of data anomalies that exist within the datasets provided.

A brief description of the categorization of Mandatory and Optional data for the Proof of Concept exercise are outlined below;

Mandatory – Description

These data items must be included in the data file to allow the following MUST tasks to be performed by Xoserve:

- The matching of records from the Shipper system with UK Link systems
- The most basic of data analysis to identify a very limited type of data anomalies

Optional - Description

These data items should, where possible, be included in the data file as by doing so the analysis performed by Xoserve will:

- Cover a much broader set of data items - including Billing Critical and Non-Billing Critical attributes
- Create truly beneficial data insight into the level of data anomalies
- Provide a much more accurate reflection of overall data anomalies within your data

Record Type Definition

SHIPPER_SUPPLY_DATA_FILE_INPUT

HD_A00_STANDARD_HEADER

RECORD/FIELD_NAME *Occurs Max 1*	OPT	DOM	LNG	DEC	DESCRIPTION
TRANSACTION_TYPE	M	T	3	0	A code identifying the type of request that this record represents. VALUE: A00
DATA CUT_DATE	M	D	8	0	The date on which the data cut was taken from the system FORMAT: YYYYMMDD

SHIPPER_SUPPLY_DATA_FILE_INPUT

RT_R01_METER_POINT_DETAIL_DATASET

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
TRANSACTION_TYPE	M	T	3	0	A code identifying the type of request that this record represents. VALUE: R01
METER_POINT_REFERENCE	M	N	10	0	A unique identifier for the point at which a meter is, has been or will be connected to the gas network.
SHIPPER_SHORT_CODE	M	T	3	0	This field identifies the 3-digit unique shipper short code. The Short Code of the Shipper associated with the Meter Point
METER_SERIAL_NUMBER	M	T	14	0	The manufacturer's serial number including alphanumeric characters. For Example: E6E12345. For Measuring assets (Meter / Converter) Serial Number has to be provided.
SUPPLIER_SHORT_CODE	O	T	3	0	The Short Code of the Supplier associated with the Meter Point

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
METER_MODEL	O	T	10	0	Code which uniquely identifies the model. For Example: E6, U6 etc.
METER_MANUFACTURER_CODE	O	T	3	0	The unique code of the manufacturer of the meter or other instrument configuration. For Example: SCH - Schlumberger.
METER_MANUFACTURED_YEAR	O	N	4	0	Year of manufacture for the asset as stamped on the asset. For Example: 1999 Allowable values: 1960 to Current year + 1.
METER_TYPE	O	T	1	0	Code to determine the type of the meter. Allowable Values: D - Diaphragm of Unknown Material, R - Rotary, L - Leather Diaphragm, S - Synthetic, T - Turbine, U - Ultrasonic, O – Orifice, Z - Unknown
METER_MECHANISM_CODE	O	T	3	0	The coded value describing the payment mechanism of the meter. Anticipated Values: CM - Coin Meter, ET - Electronic Token Meter, CR - Credit, MT - Mechanical Token Meter, PP - Prepayment, TH - Thrift, U - Unknown, NS - SMETS non-compliant, S1 - SMETS Version 1, S2 - SMETS Version 2
MEASURING_CAPACITY	O	N	10	4	The maximum volume of gas (Q max) that can be passed through the asset per hour, based upon the manufacturer's maximum value. For Example: 6* - 6m ³ per hour (* In conjunction with indication of imperial/metric meter). Allowable values: 0 to 999999.9999.
COLLAR_STATUS	O	T	1	0	Code to identify the status of the collar. Allowable values: B - Broken, I - Intact. The Transporter shall use only the first character of this field, consistent with the single character MDD Values.
METER_MODEL_NO_OF_DIALS	O	N	2	0	Number of significant dials or digits on the asset which are to be considered during the asset reading. For Example: 5 - 5 readable dials.

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
CORRECTION_FACTOR	O	N	9	6	A fixed factor applied where no Converter is fitted and the meter reading needs to be corrected for pressure, altitude and/or temperature. Allowable values: .000001 to 999.999999
METER_MULTIPLICATION_FACTOR	O	N	6	3	Multiplication Factor to apply to the resultant index advance indicated by the current reading. For Example: 0.1, 1, 10, etc. Allowable values: .001 to 999.999.
METER_PULSE_VALUE	O	N	7	2	The value that one pulse from the instrument represents. Valid values are integers of 10 expressed as numbers. i.e. 10x (Where x is the power of) expressed as a number. E.g. an acceptable value would be 1000 (i.e. 10 ³). A value of, for example, 0.2 would fail. Examples are 0.01, 0.1, 0, 1, 10, 100, 1000, 10000. If a value of 00.01 was sent, this would not cause record validation failure.
METER_STATUS	O	T	2	0	Industry standard code representing the status of the asset. Allowable values: AC - Active, CA - Capped, CD - Closed, CL - Clamped, FA - Faulty, IN - Inactive, LI - Live, OP - Open, PD - Phone Line Down, RE - Removed, UN - Unknown, DM - Damaged, I - Installed, E - Existing, D - Declined
METER_STATUS_CHNG_DT	O	D	8	0	The most recent date when the meter status was changed FORMAT: YYYYMMDD
METER_PAYMENT_METHOD	O	T	2	0	The method of payment Values: CR – Credit, PP - Prepayment
UNITS_OF_MEASURE	O	T	4	0	Indicates whether the meter measures the volume of gas in imperial or metric units. Values: SCFH, SCMH
PRODUCT_ID	O	T	10	0	An MDD defined value to identify a set of assets with common attributes.

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
AMR_INDICATOR	O	T	1	0	Indicator to identify whether an AMR device is present Y= Yes N= No
AMR_INDICATOR_EFF_DATE	O	D	8	0	The date when the AMR Indicator was effective from. FORMAT: YYYYMMDD
METER_INSTALLATION_DATE	O	D	8	0	The date on which the Meter asset was installed FORMAT: YYYYMMDD
METER_REMOVAL_DATE	O	D	8	0	The date on which the Meter asset was removed FORMAT: YYYYMMDD
CONVERTOR_SERIAL_NUMBER	M	T	14	0	The manufacturer's serial number including alphanumeric characters. For Example: E6E12345678901. For Measuring assets (Meter / Converter) Serial Number must be provided. MANDATORY IF CONVERTOR IS INSTALLED
CONVERTOR_MODEL	O	T	10	0	Code which uniquely identifies the model. For Example: I33381, I33361 etc.
CONVERTOR_MANUFACTURER	O	T	3	0	The unique code of the manufacturer of the meter or other instrument configuration.
CONVERTOR_MANUFACTURED_YEAR	O	N	4	0	Year of manufacture for the asset as stamped on the asset. For Example: 1999 Allowable values: 1960 to Current year + 1.
NO_OF_CORRECTED_DIALS	O	N	2	0	Number of significant dials or digits on the asset which are to be considered during the asset reading. For Example: 5 - 5 readable dials.
NO_OF_UNCORRECTED_DIALS	O	N	2	0	Number of significant dials or digits on the asset which are to be considered during the asset reading. For Example: 5 - 5 readable dials.
CONVERTOR_MULTIPLICATION_FACTOR	O	N	6	3	Multiplication Factor to apply to the resultant index advance indicated by the current reading For Example: 0.1, 1, 10, etc. Allowable values: .001 to 999.999.

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
CONVERTOR_CORRECTION_FACTOR	O	N	9	6	A fixed factor applied where no Converter is fitted and the meter reading needs to be corrected for pressure, altitude and/or temperature. Allowable values: .000001 to 999.999999
CONVERSION_BASIS_CODE	O	T	5	0	This is the conversion basis the converter is set up to convert against. For Example: T - The converter compensates only for Temperature.
CONVERTOR_STATUS	O	T	2	0	The current status of the convertor. Values: FA – Faulty; LI – Live; UN – Unknown.
CONVERTOR_INSTALLATION_DATE	O	D	8	0	The date on which the convertor asset was installed FORMAT: YYYYMMDD
CONVERTOR_REMOVAL_DATE	O	D	8	0	The date on which the asset was removed Anticipated, if no live convertor present but previously available FORMAT: YYYYMMDD
METER_READ_INDEX	O	T	12	0	This should be the latest reading submitted to Xoserve The actual index read for the asset including leading zeros from the register. Where a converter is being read this will be converted or unconverted reading. For Example: '01234','01234 ' OR '1234'
METER_ROUND_THE_CLOCK	O	T	2	0	The number of times the asset register has passed through zero in relation to the last reading successfully updated. For Example: 1
CONVERTOR_CORR_INDEX	O	T	12	0	This should be the latest reading for the convertor corrected index
CONVERTOR_CORR_RTC	O	T	2	0	The number of times the convertor corrected register has passed through zero in relation to the last reading successfully updated. For Example: 1
CONVERTOR_UNCORR_INDEX	O	T	12	0	This should be the latest reading for the convertor uncorrected index

RECORD/FIELD_NAME	OPT	DOM	LNG	DEC	DESCRIPTION
CONVERTOR_UNCORR_RTC	O	T	2	0	The number of times the convertor uncorrected register has passed through zero in relation to the last reading successfully updated. For Example: 1
NON_OPENING_CYCLIC_READ	O	T	12	0	Last read recorded by the shipper in Shipper System if it differs from meter reading index
READ_DATE	O	D	8	0	Read date for the last submitted read into Xoserve FORMAT: YYYYMMDD
READ_TYPE	O	T	1	0	Read type of the last submitted read into Xoserve

SHIPPER_SUPPLY_DATA_FILE_INPUT

TR_Z99_STANDARD_TRAILER

RECORD/FIELD_NAME *Occurs Max 1*	OPT	DOM	LNG	DEC	DESCRIPTION
TRANSACTION_TYPE	M	T	3	0	A code identifying the type of request that this record represents. VALUE: Z99
RECORD_COUNT	M	N	10	0	The number of detail records contained within the file. This should not include the Standard Header (A00) and Standard Trailer (Z99) but should include any file specific Headers and Trailers specified for this file type.

SAMPLE OUTPUT

A00,20191001,20191001

R01,10000001,XXX,ES2312131,XX1,E6,SCH,2001,R,S1,236,,5,1.02264,0.1,10,LI,20180101,CR,
SCFH,XSE23,,,19990101,,ERESFSE233,I33381,DR,2005,11,8,1,1,PT,LI,20100101,,03452,01,33
53235,,0897754,,06766,20190923,A

R01,10000003,XXX,ES2312131,XX1,E6,SCH,2001,R,S1,236,,5,1.02264,0.1,10,LI,20180101,CR,
SCFH,XSE23,,,19990101,,ERESFSE233,I33381,DR,2005,11,8,1,1,PT,LI,20100101,,03452,01,33
53235,,0897754,,06766,20190923,A

Z99,2

--- End of Document ---