



UKLink Release 3 Session 2

Introduction and Purpose of Document

- Subsequent to Nexus project and the UK Link implementation in 2017, additional requirements have been agreed with the industry are these organised into a development programme and are applied in scheduled releases.
- This document will provide you with the Release 3 changes which are due to go live in November 2018. This full pack is the Invoicing Overview Pack and we have included the changes to specific elements of the process as this will highlight the changes in a practical manner.
- The changes for release 3 has been broken down into 4 parts (detailed on next slide). Session 2 primary impacts will be Shippers.
- More information can be found on Xoserve.com [here](#).

List of all Changes

- XRN3656 & 4658 Read Validation Tolerance
 - XRN4495 Energy Tolerance Rejection Code
 - XRN4431 Reads Failed Market Breaker Tolerance
 - **XRN4481 Resolution of Penny Mismatches**
 - **XRN4458 Class 4 CSEPS Recon. Variance ID**
 - **XRN4534 Amendment to RGMA Rules for MTR Install Date**
 - XRN4453 File Format Should have Changes
 - XRN4443 File Format Changes Aug 16 Unique Sites (deferred items from CR252)
 - XRN4539 New File Level Rejection
 - XRN4273 Installed Status of Failed MOD614
 - XRN4337 To change the optionality of the Supply Point confirmation reference for the T51 file
 - XRN4486 Meter Type O = Orifice to be an acceptable value in file formats and reports
 - XRN4538 Insertion of Maximum Number of Occurrences in MID
- Session 1
- Changes covered in this pack
- Education Pack 1
- Education Pack 2



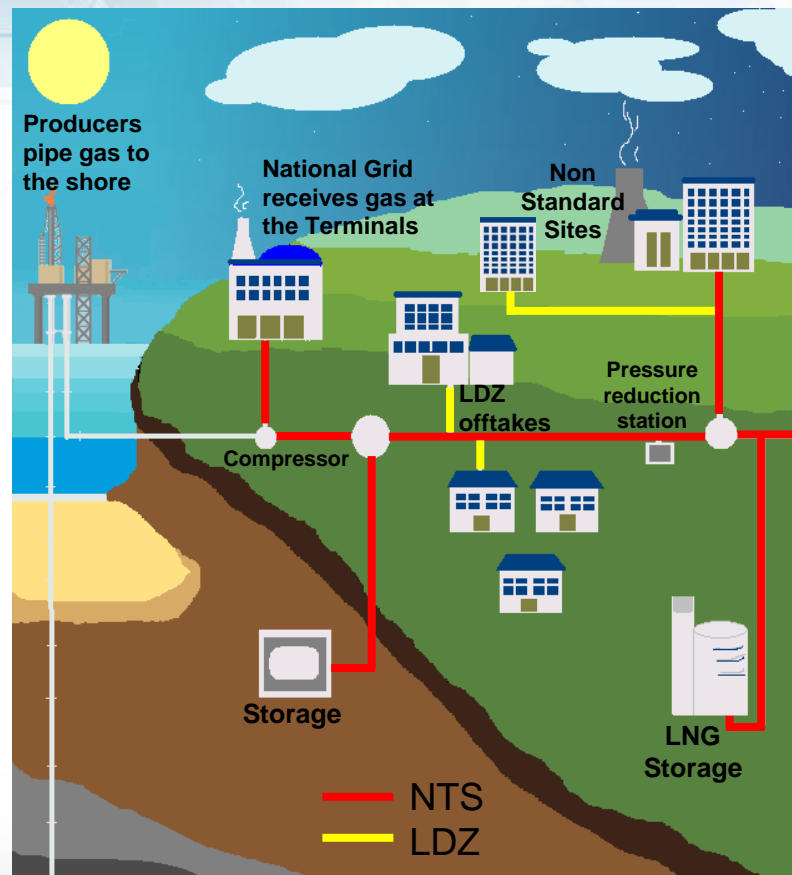
Invoicing

The following changes directly affect the invoicing outputs.

- XRN4481 Resolution of Penny Mismatches
- XRN4458 Class 4 CSEPS Recon. Variance ID

Introduction to Invoicing Infrastructure Map

- The map summarises (at a very high level) the UK gas transportation infrastructure
- The primary users of the National Transmission System (NTS) are Shippers transporting gas from terminals to the Local Distribution Networks (LDZs) in order to provide suppliers and end consumers with gas
- There are a number of NTS connections which offtake gas directly from the NTS, these are typically large Daily Metered (DM) sites
- Use of the NTS and LDZ is not free and charges are applied for different sections of the network, all of which have multiple dependencies



Introduction to Invoicing Infrastructure Map CSEPs

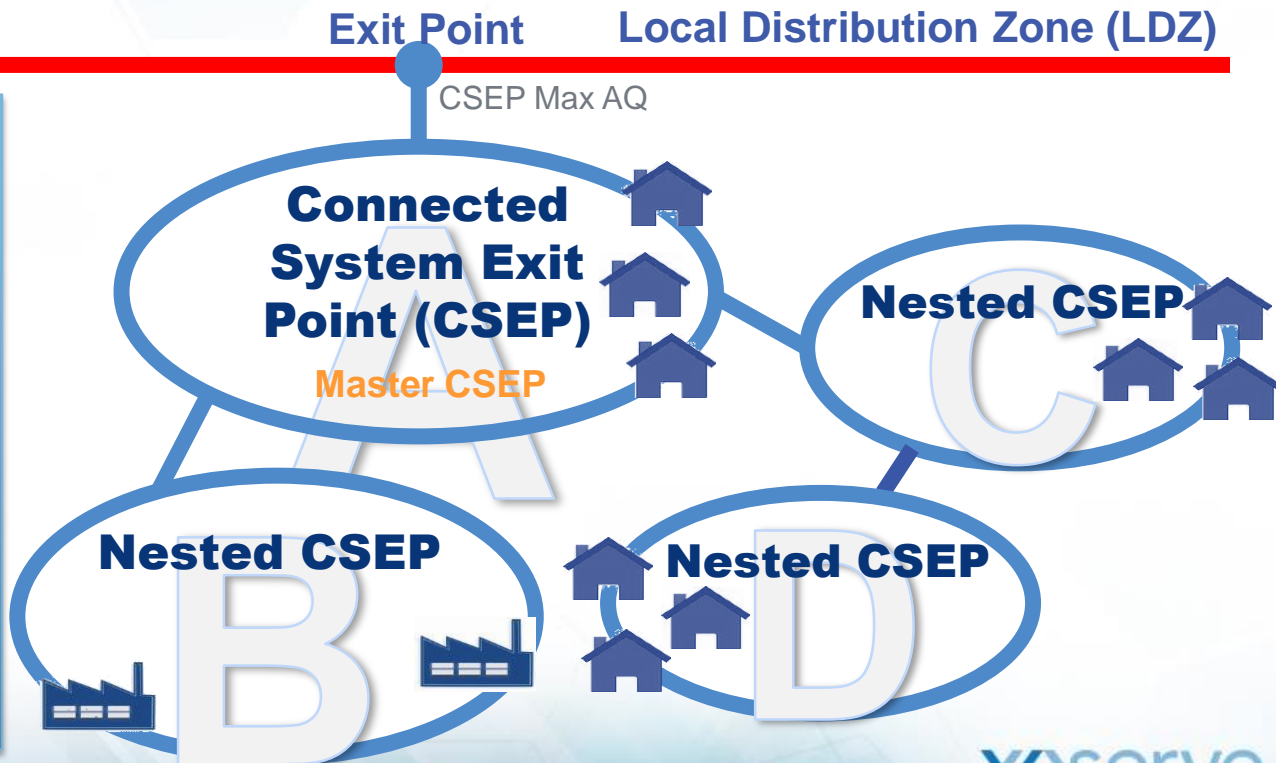
There are a number of Networks off the LDZ that supply gas to developments such as housing estates These networks are owned and operated by Independent Gas Transporters (iGTs) and are known as a Connected System Exit Point (CSEP)s

CSEP Principles

Each CSEP will have a unique CSEP ID
A CSEP will have a downstream connection to one or more Supply Meter Points (SMPs)

Additional iGT networks can be connected to another CSEP, these are known as Nested CSEPs whilst the CSEP at the top of the chain is the Master CSEP The Exit point is based on Master CSEP not the SMP postcode

The CSEP Max AQ and MAX SOQ for the CSEPS derives all LDZ Transportation rates for all linked SMPs within the CSEP projects



XRN4458 CSEPs Reconciliation Variance Implementation

Where there is a CSEP update which impacts the CSEP Max AQ and/ or the Max SOQ, primary invoicing process needs to recognise this time slice period for all associated meter points for the CSEP project for the appropriate rates.

- While performing meter read reconciliation or adjustments during a period for all IGT sites linked to a project, the system has to see if there is a change in either the Max AQ or Max SOQ for the concerned CSEP during the billing period. If there is a change, all rec adjustments billing and support information will work correctly and consider correct time slices and applicable rates for charging on primary and amendment invoices.

This change will create a variance period for each meter point where there has been a change to the directly connected CSEP Max AQ value. Which in turn changes the rates applied to each associated meter point.

This will result in new variance code being created and issued in the K92 record of the AML file, shown below.

VARIANCE_REASON_CODE	O	T	3	0	reconciliation period DEFINITION: A code identifying the reason a reconciliation variance was created.
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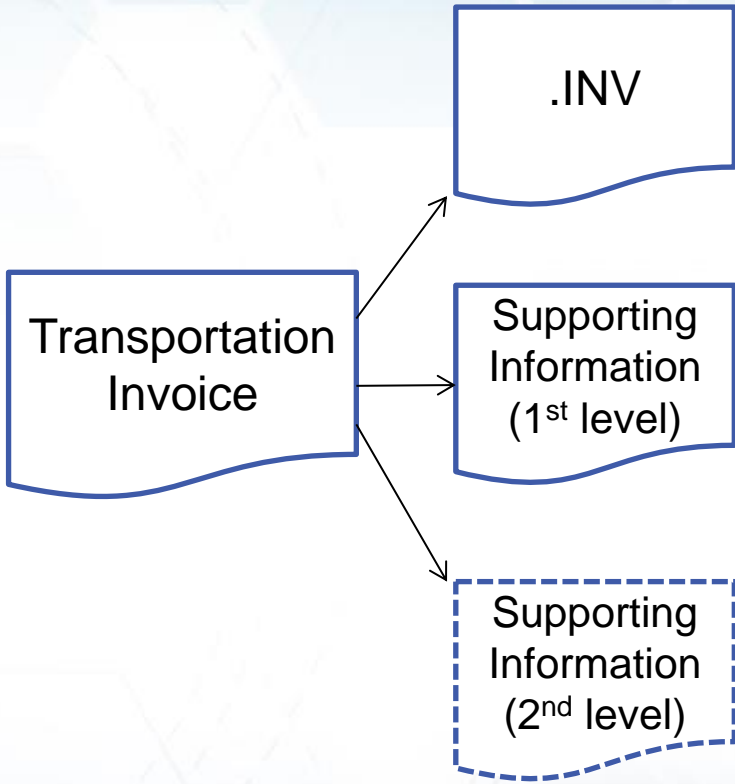
Variance Code	Description
MRR/OR G	Meter Read Received / Change of organisation
BLS	Line in Sand
RBD	Rec By Difference
AQ	AQ Change
CAQ	CSEP Max AQ/SOQ Change
CCH	Class Change
MRF	Meter Read Frequency
EXZ	Exit Zone Change
MSC	Market Sector Change
PRC	Price Change
UGR	Monthly Variance

Introduction to Invoicing

Invoice File Overview

- Invoices are issued to Shippers as electronic files over the IX network. The files are formatted as comma separated values (CSV) using industry agreed formats.
- Additional files containing lower level detail are also provided to support the invoices. These are known as supporting information files.
- Each invoice and supporting information file follows an agreed file hierarchy, with specific file records which align to an agreed file format.
- The Xoserve Comprehensive Invoices and Charge Types [document](#) defines which Supporting Information files are available against each Invoice Type.
- The following section outlines the invoice and supporting information files in further detail.

File Format Principles – Transportation Invoices



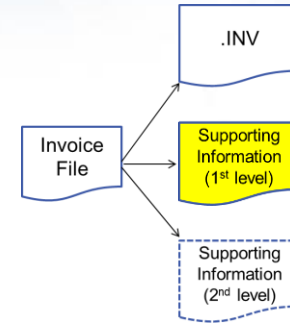
- The invoice file contains charge types and charge values
- Generic Invoice file .INV for all invoice types
- Supporting Information file accompanying the .INV
- Charge information at SMP level for Class 1 & 2 sites
- Charge information for Class 3 & 4 sites at aggregated level (Core invoices only)
- Only applicable to Core invoices
- Additional Supporting Information providing charge information at SMP level for Class 3 & 4 sites

File Format Principles – Transportation Invoices

Supporting Information Files

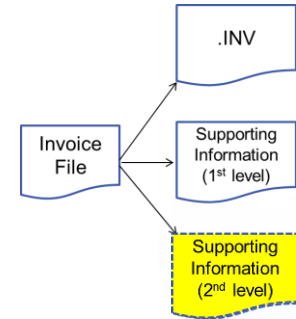
Thin Files are the 1st level of Supporting Information

- Mandatory to accompany Core Invoices (CAZ, COM and AMS)
- Sent with some Ancillary Invoices
- Automatically sent in a separate file and on same day as the .INV
- Delivered via the IX



Thick Files are the 2nd level of Supporting Information

- Not mandatory and only available for Core Invoices (CAZ, COM and AMS)
- Thick Files are delivered via the IX at a later date following invoice generation within agreed timescales
- Available on Shipper request by completing the [Request for Additional Supporting Information Template](#) and files will be sent for future dates. Please note, retrospective requests for data is not available as standard.
- Exceptional request may be discussed with the Xoserve Commercial Team via commercial.enquiries@xoserve.com (please include exact details of information required)



File Format Principles – Transportation Invoices

Supporting Information Level 1 and 2

The table maps the Supporting Information level 1 and level 2 to the core Transportation Invoices

Core Invoice	Invoice	Supporting Information 1 st Level	Supporting Information 2 nd Level
COM	Commodity	COM	COI
CAZ	Capacity	ZCS	CZI
AMS	Amendment	ASP	AML

For **XRN4481 Resolution of Penny Mismatches**. The second table denotes the changes made to file formats which can be views on the link.

Secondly for **XRN4481 Resolution of Penny Mismatches** the aggregation rules are imbedded below.



Aggregation Rules

File Ext	Rec Type	Field Name	Type of Change
ZCS	K81	CLASS_TYPE	New Field
ZCS	K81	MRF_TYPE_CODE	New Field
ZCS	K80	MRF_TYPE_CODE	Field Name Change
CZI	K47	CLASS_TYPE	New Field
CZI	K47	BILLABLE_MRF_TYPE_CODE	New Field
CZI	K47	MRF_TYPE_CODE	Description Change
COM	K79	SMP_EXIT_ZONE	New Field
COM	K79	CLASS_TYPE	New Field
COI	K44	SMP_EXIT_ZONE	New Field
COI	K44	CLASS_TYPE	New Field
COI	K43	CLASS_TYPE	Description Change
CZI	K43	CLASS_TYPE	Description Change