



Extraordinary DSG Meeting CSS Consequential Change



4th September 2019

Agenda

- Welcome and introductions
- Action Review
- Detailed Design Solution Discussion
 - Opening Meter Reads
 - Erroneous Confirmation (ECO) Process
 - Data Enquiry
 - Retail Energy Location
 - Reporting
 - UK Link File Formats and API Change Summary
- Data Cleansing Update
- Market Trials
- AOB

Action Review

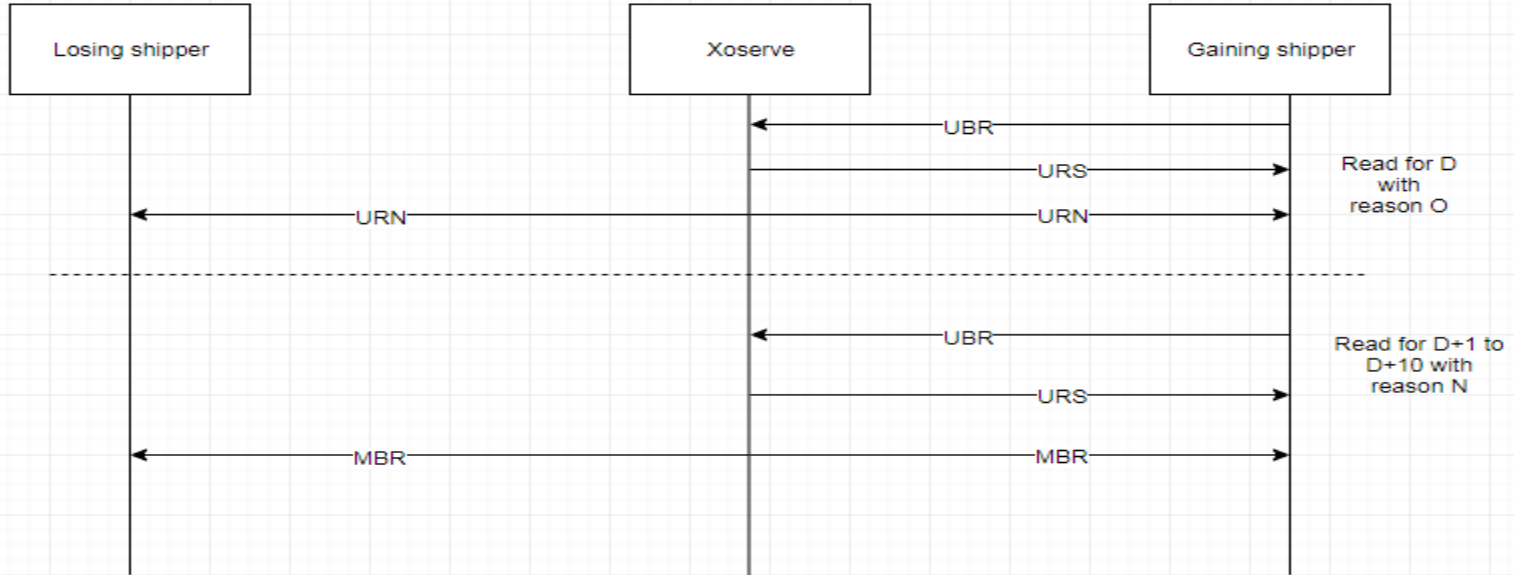
Date Raised	Reference	Action Description	Action Assigned To	Target Date	Open	Date Closed
10/06/2019	XDSG-100619-019	Determine the feasibility of introducing an acknowledgement to Shippers follow CSS acceptance of stakeholder amendment requests	Xoserve	31/08/2019	Open	
26/06/2019	XDSG-260619-037	Explore the option of including a delay between the processing of the CSS registration sync message and generating of the outbound ASN file.	Xoserve	31/08/2019	Open	
26/06/2019	XDSG-260619-041	Check the impact of outstanding XRN and assess the impacts and our consequential design.	Xoserve	17/09/2019	Open	
11/07/2019	XDSG-100619-051	Xoserve to look at bringing the K12 & K14 records into the nomination enquiry response file.	Xoserve	31/08/2019	Open	
11/07/2019	XDSG-100619-053	Xoserve to consider the inclusion of a new rejection code where a shipper's opening reading is not accepted due to the acceptance of a subsequent shippers opening reading	Xoserve	31/08/2019	Open	
11/07/2019	XDSG-100619-060	Confirm how Ofgem are engaging with the MAM's	Xoserve	31/08/2019	Open	
16/08/2019	XDSG-160819-074	Put together a lower level view of the meter read files to help support the view expressed by the shippers	Xoserve	16/08/2019	Open	
16/08/2019	XDSG-160819-075	Shippers to review the slide (deactivation requests for erroneous confirmations) and provide feedback at the next meeting	Shippers	16/08/2019	Open	
16/08/2019	XDSG-160819-076	Check if the current rules that prevents shippers from requesting a change a class for 2 months apply where a default class has been utilised for a CSS registration	Xoserve	16/08/2019	Open	



Opening Meter Reads

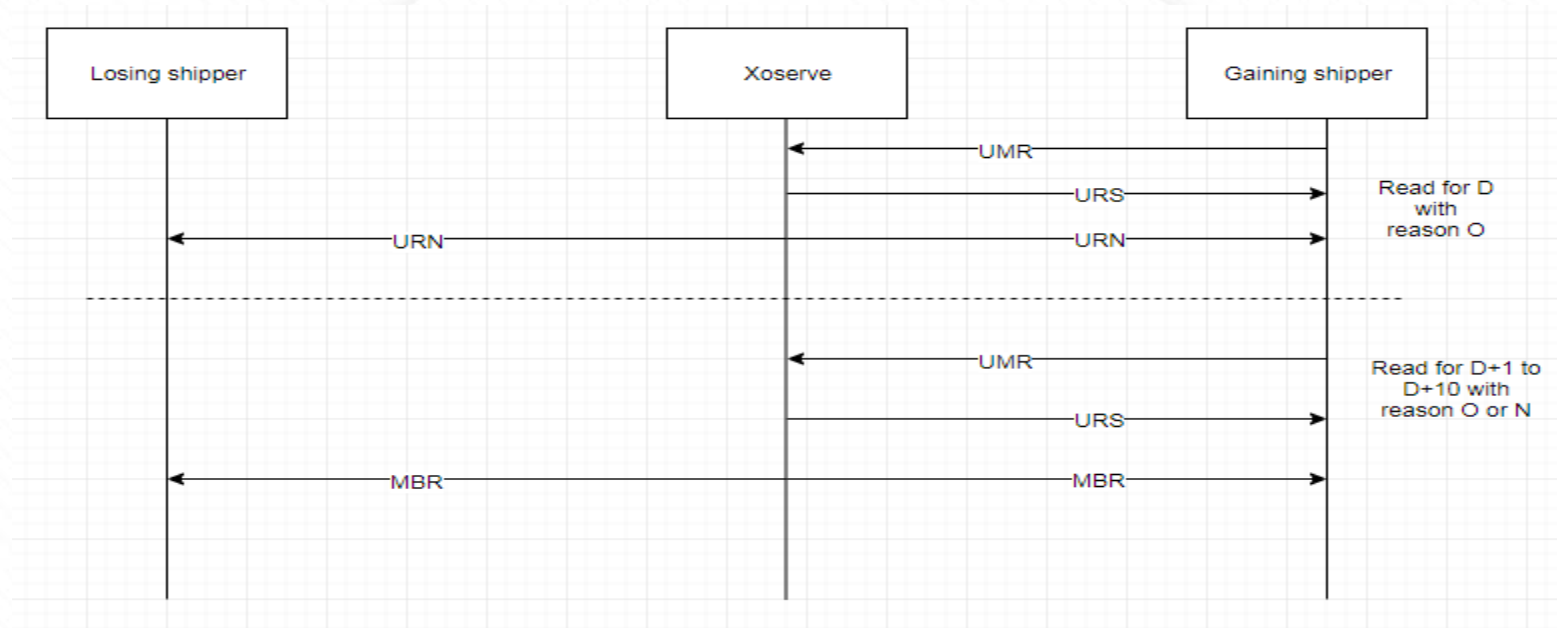


Opening read for Class 3



In both scenarios, the URN/MBR file will be sent after the submitted read is processed. Processing of reads starts at [6 PM] each day.

Opening read for Class 4



In both scenarios, the URN/MBR file will be sent after the submitted read is processed. Processing of reads starts at [6 PM] each day.

Rejection codes

Scenario 1 – Proposing shipper submits read for period D-1 to D-5

MRE01014 - Opening read received for a read date not same as registration effective date for any shipper transfers involving Class 1 , 2 or 3.

MRE01015 - Opening read received for a read date outside the permitted window for shipper transfers from Class 4 to Class 4

Scenario 2 – Proposing shipper submits read for D to D+10 after transfer read has been estimated due to reads received from a subsequent shipper

MRE00433 - The Meter Point already has an opening read for this date

The wording for this code will be changed to –

MRE00433 - The Meter Point already has an opening read for the transfer date

RGMA activity on D-1

RGMA flow can be received from proposing shipper with activity date as D-1 where D is the transfer date

Two possible scenarios –

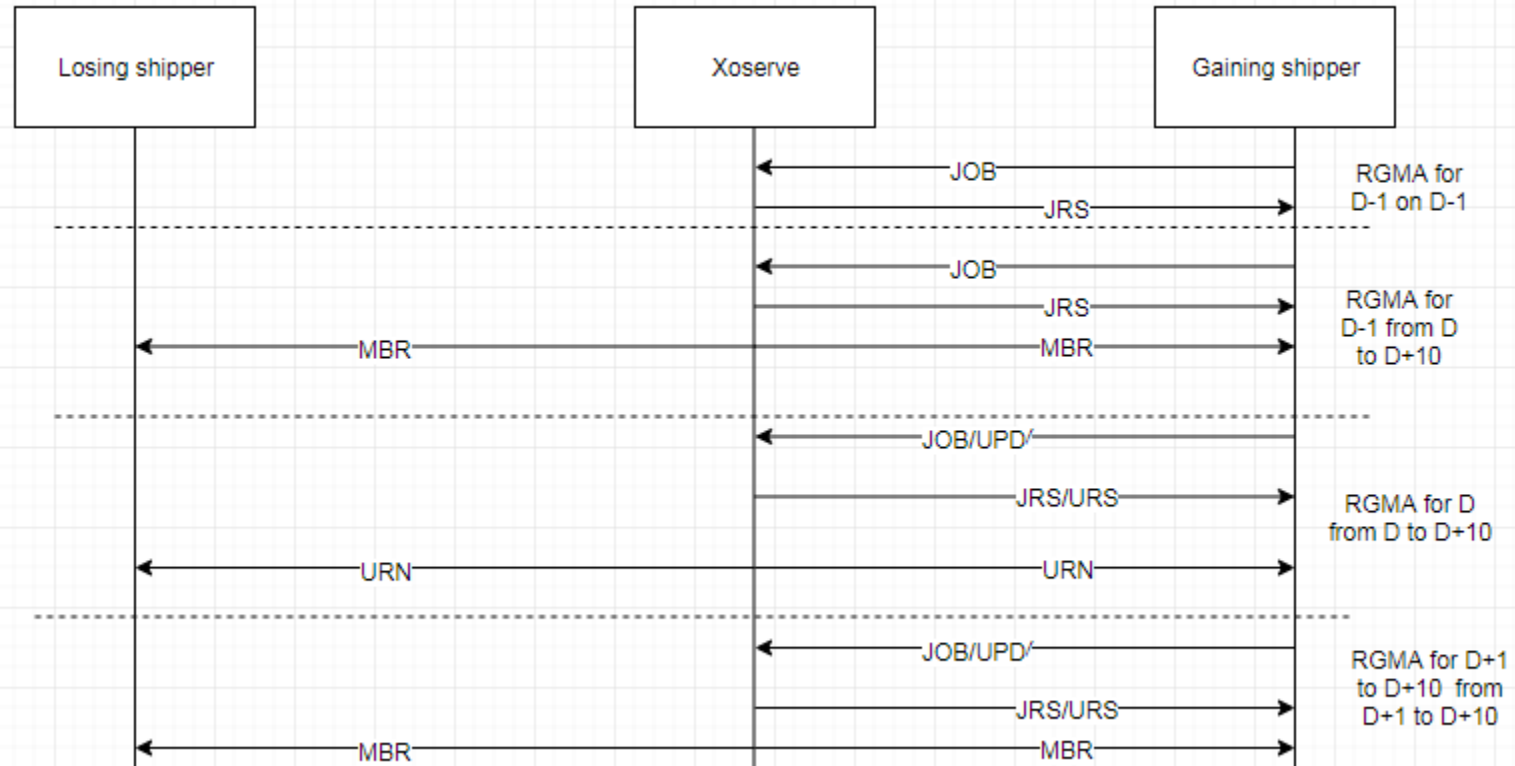
RGMA flow for D-1 received on D-1 –

Flow is accepted but estimation of transfer read is not triggered

RGMA flow for D-1 received on D to D+10 while the transfer read is not fulfilled –

Flow is accepted and estimation of transfer read triggered

RGMA scenarios

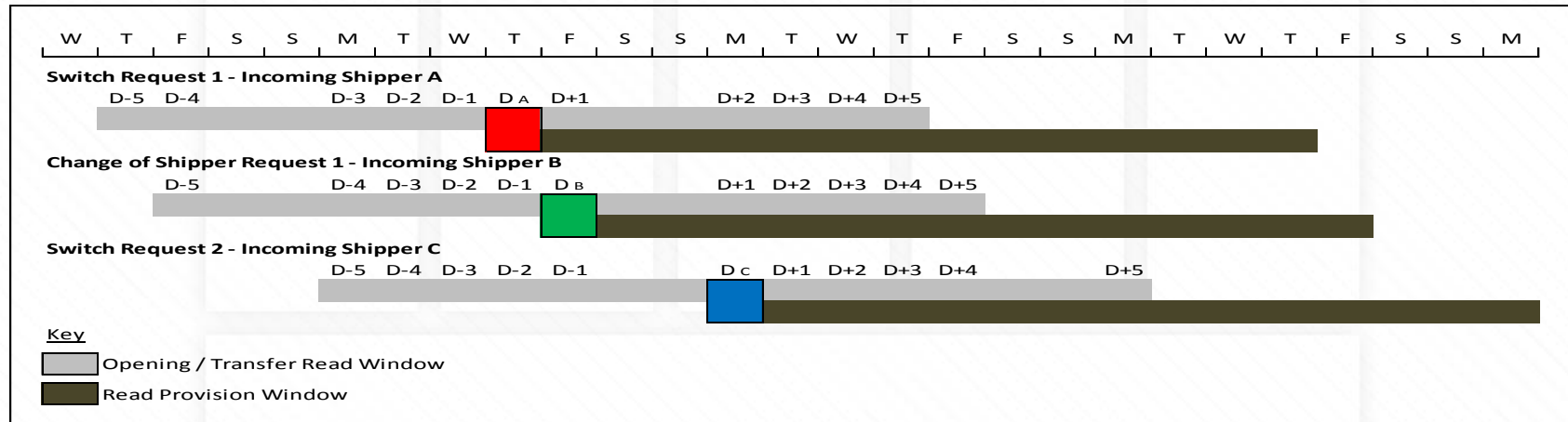


RGMA on D-1 – Complexity

With faster switching, there is a possibility that there is another transfer on D-1.

e.g., In the diagram shown below, Green submits JOB for D_A while the transfer read for Red is open. File from Green is accepted as it is processed after the change is secure.

The opening read for the new meter on D-1 will be used to fulfil the transfer read for Red. This goes against UNC code in that transfer read is fulfilled using a read from a subsequent shipper.





Erroneous Confirmation (ECO) Process



Deactivation Requests for Erroneous Confirmations

Problem statement:

- CSS will only accept Supplier registration deactivation requests for RMPs with a RMP status of either Dormant or Terminated.
- Currently Shippers are able to withdraw a registration where an “erroneous” registration has been submitted for a Supply Meter Point where no meter activity has taken place.
- Views required on how this can be managed post CSS implementation.



Data Enquiry



DES Change Overview

- New data items to be added into existing display
 - MAP ID
 - RMP Status
- New screens to be created for CSS information
 - New search screen for CSS information
 - Registration / switch details
 - Display of Retail Energy Location

Existing Screen Changes

- RMP Status value to be included alongside the current SMP Status

Home Search ICC Update Read Details

Home / Search/ Results / Search Details

Search Details

MPRN	LSP	Address	Postcode	SMP Status	MSN	Network Name	Network Short Code
		 ROAD, COVENTRY, Warwickshire		LI			

- MAP ID to be added into the Meter Asset Data tab

Meter Point Information	Meter Asset Data	Daily Read Equipment Data	Converter Asset Data
Manufacturer	JEAVONS/KROM/SCHRODER	Correction Factor	1.015455
Model	BK G65	Gas Act Owner	SUPPLIER
Meter Type	Synthetic	MAM Short Code	EAL
Year of Manufacture	2015	MAM EFD	08 Jul 2016
Fitted Date	29 Oct 2018	SMSO ID	
Device Status	LI	SMS Operating Entity EFD	
Number of Dials	6	DCC Service Flag	

New Screens Being Developed

- New search screen to be introduced for CSS data
- New terms and conditions are expected to be included within this screen to support REL usage limitations
- New screen to display CSS registration / switching details for both current and historic as provided by CSS in near “real-time”
- New screen to display Retail Energy Location information as provided by CSS in near “real-time”
- Data permissions will be implemented as provided by the Switching Programme



Retail Energy Location



REL Address License Constraints



1.6 AddressBase® Premium

The Registration and Addressing elements of the CSS will make use of Ordnance Survey AddressBase® Premium (ABP) data (<https://www.ordnancesurvey.co.uk/business-and-government/products/addressbase-premium.html>).

The data passed across the interfaces may only be used for the permitted purpose under the licence with Ordnance Survey. The permitted purpose as defined in the agreement is for the “purposes of enabling switching including (without limitation) for the purposes of design, development, testing, integration and live operational use.”

The field mappings contained within this document are taken from v2.5 of the ABP technical specification, which can be found here:

<https://www.ordnancesurvey.co.uk/docs/technical-specifications/addressbase-premium-technical-specification.pdf>

Source – CSS Interface Design Specification v6.0

- The use of the REL information is restricted in its use to the “purposes of enabling switching”
- To support this REL information display in DES to be separated from the current screens
- REL is not currently proposed to be provided to network operators

REL Address Structure



4.1.2 REL Address Elements

Field	Type	Length	Description
primaryName	string	90	This is the Primary Addressable Object description. This is normally the name and or number of the property
secondaryName	string	90	This is the Secondary Addressable Object description, e.g. the "Flat 2" in the address "Flat 2, London House, Exeter". This is only relevant for a child property. "London House" in this case will be the Primary Name of the parent property
street1	string	100	LPI ² - derived from Street DPA ¹ - the Thoroughfare
street2	string	80	LPI - Blank DPA - dependant thoroughfare
locality1	string	35	LPI - derived from Street - Using locality code lookup DPA - dependant locality
locality2	string	35	LPI - Blank DPA - double dependant locality
town	string	30	LPI - Derived from Street - Using Town code lookup DPA - Post Town
postcode	string	8	Postcode associated with the address
logicalStatus	number	1	This is the status of the address. See 4.3.16
language	string	3	The language of the address (ISO 639-2 Code). For example, in Wales you will usually have an English and Welsh address. It will be <i>cym</i> for Welsh.
organisation	string	60	Current organisation name of the property if one exists
addressType	string	3	The type of address of this entry in the array. See 4.3.15
confidenceScore	number	3	A relative confidence score on the match from MPL to REL
classification	string	6	Classification code of the property as per the AddressBase Premium classification scheme
latitude	number	10,6	Latitude of the associated property, usually either the centroid of the building polygon or a general internal point within the building polygon
longitude	number	10,6	Longitude of the associated property, usually either the centroid of the building polygon or a general internal point within the building polygon

- The data structure has been defined by Landmark
- DES will display the data provided by Landmark without any transformation
- We are expecting to receive / display multiple versions of the REL

REL Example



ABP ADDRESSES HELD

A single property can have multiple addresses:

- Main Approved ABP Address (LPI)
- Provisional Address – temporary, pending confirmation.
- Delivery Point address (DP) mostly the same as Royal Mail
- Welsh/Gaelic/Cornish variants or DP address
- Alternative addresses - for alternative property text and/or alternative street text
e.g. large building served by 2x street entrances
- Historic addresses – Any number of these

Same UPRN
references all variants

Real World Example:

4 are currently “live”

TYPE	ADDRESS
Historic	LAND SOUTHWEST OF LITTLE WEYBOURNE, STOKE ROAD, COBHAM, KT11 3BD
Provisional	HALF ACRE, STOKE ROAD, COBHAM, KT11 3BD
Approved	34 STOKE ROAD, COBHAM, KT11 3BD
Alternative	OAK COTTAGE, STOKE ROAD, COBHAM, KT11 3BD
Delivery	34 STOKE ROAD, COBHAM, KT11 3BD
Delivery Welsh	None



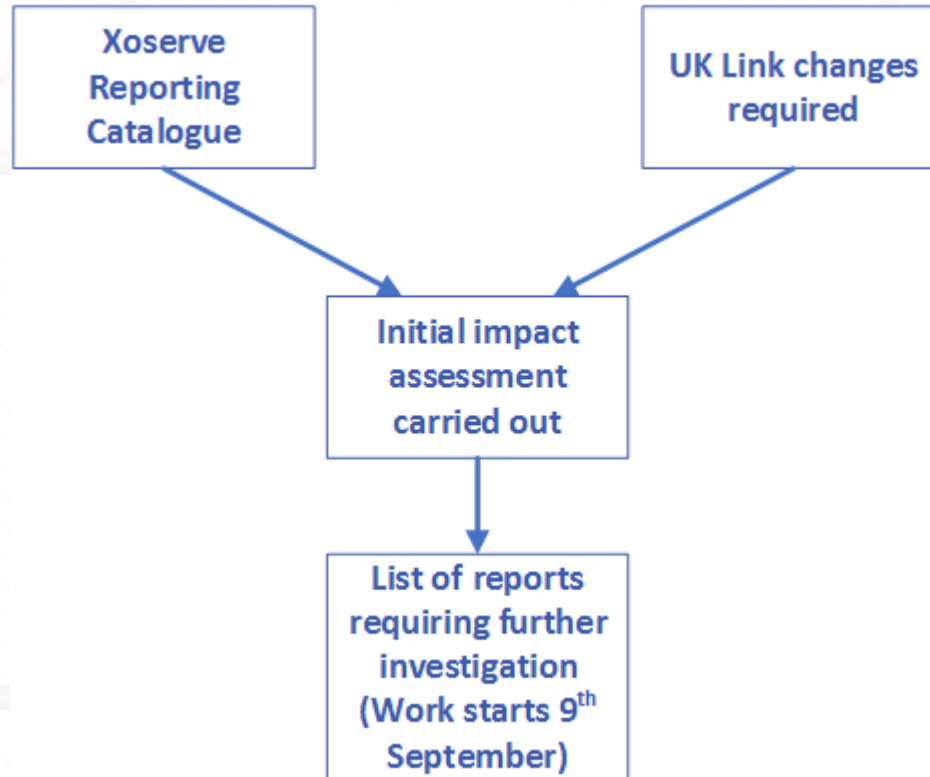
Reporting



Reporting Requirements

- To date no new reporting requirements have been received to support UK Link consequential changes
- Analysis is currently being undertaken across the full Xoserve reporting suit to identify any data changes that could impact current report production

CSSC Reporting Analysis To-Date

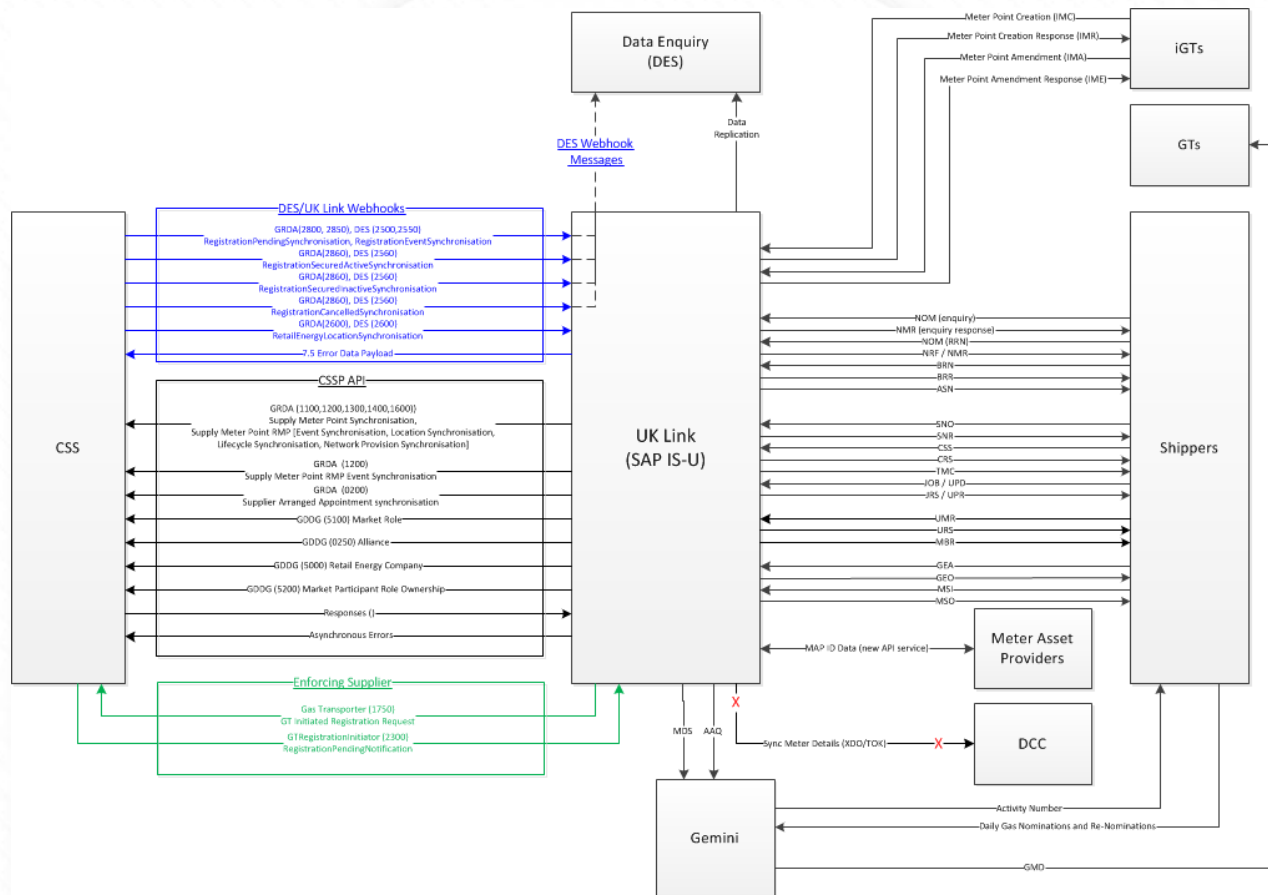




UK Link File Formats and API Change Summary



Switching Interface Flow Diagram



UK Link File Format Change Summary

Change Type	Count
New File / Hierarchy	4
Amended File Hierarchy	0
New Record Formats	8
Amended Record Formats	5
Decommissioned Files	2
File Validation Rule Changes	10
Process Changes	3

Shipper File Format Change Summary

File Name	Record Name	Change Type	Change Summary
NOM	-	Validation Change	For CSS sites the Nomination file will be mandatory for Supply Meter Points where the proposed Class is 1 & 2 and optional for all other large supply points
NOM	S69	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NOM	U70	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NOM	U72	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NMR	S59	Record Change	WITHDRAWAL_STATUS to become an optional data item
NMR	S64	Record Change	WITHDRAWAL_STATUS to become an optional data item
NMR	S69	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NMR	U70	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items

Shipper File Format Change Summary

File Name	Record Name	Change Type	Change Summary
NMR	U72	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NRF	S64	Record Change	WITHDRAWAL_STATUS to become an optional data item
NRF	S69	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NRF	U70	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
NRF	U72	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
CNF	-	Validation Change	Validation change to reject and Confirmation Request submitted for a CSS managed site
SNO	U70	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
SNO	U72	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items

Shipper File Format Change Summary

File Name	Record Name	Change Type	Change Summary
SNR	S64	Record Change	WITHDRAWAL_STATUS to become an optional data item
SNR	U70	Record Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
SNR	U72	Change	POSTCODE_OUTCODE and POSTCODE_INCODE to become optional data items
CSS	-	Validation Change	Validation change to reject and Confirmation Request submitted for a CSS managed site – Pending confirmation from Ofgem of CSS scope
BRN	-	New File Hierarchy	New hierarchy for the BRN file structure
BRN	T90	New Record	New record for the submission of settlement data where linked to an accepted Nomination
BRN	T91	New Record	New record for the submission of settlement data for a proposed Class 3 & 4 sites where not linked to an accepted Nomination
BRN	T87	New Record	New record to support the cancellation of an accepted BRN

Shipper File Format Change Summary

File Name	Record Name	Change Type	Change Summary
BRR	-	New File Hierarchy	New hierarchy for the BRR file structure
BRR	T93	New Record	New response record for the acceptance of a BRN (settlement details) file
BRR	T95	New Record	New response record for the rejection of a BRN (settlement details) file where linked to an Nomination (T90 record)
BRR	T94	New Record	New response record for the rejection of a BRN (settlement details) file for a proposed Class 3 & 4 site not linked to an accepted Nomination (T91 record)
BRR	T88	New Record	New response record to support the acceptance or rejection of a BRN cancellation request
ASN	-	New File Hierarchy	New hierarchy for the ASN file structure
ASN	T99	New Record	New record to advise of the association of settlement data to a CSS registration
TMC	-	New File Hierarchy	New hierarchy for the TMC file structure (amalgamation of the current TRF and MRI file records)

Shipper File Format Change Summary

File Name	Record Name	Change Type	Change Summary
GEA	-	Validation Change	Validation change to reject any supplier updates for sites managed by CSS
MSI	-	Validation Change	Validation change to reject any Market Sector Code updates for sites managed by CSS
WAO	-	Validation Change	Validation change to reject any Shipper Withdrawal requests for sites managed by CSS
TRF	-	Process Change	The TRF file will no longer be issued for CSS managed sites, this will be replaced by the new TMC file
MRI	-	Process Change	The MRI file will no longer be issued for CSS managed sites, this will be replaced by the new TMC file
UBR	-	Validation Change	Validation changes to support new opening read submission rules
UMR	-	Validation Change	Validation changes to support new opening read submission rules
MBR	-	Process Change	Process changes to generate and issue estimated opening read files in line with updated opening read rules

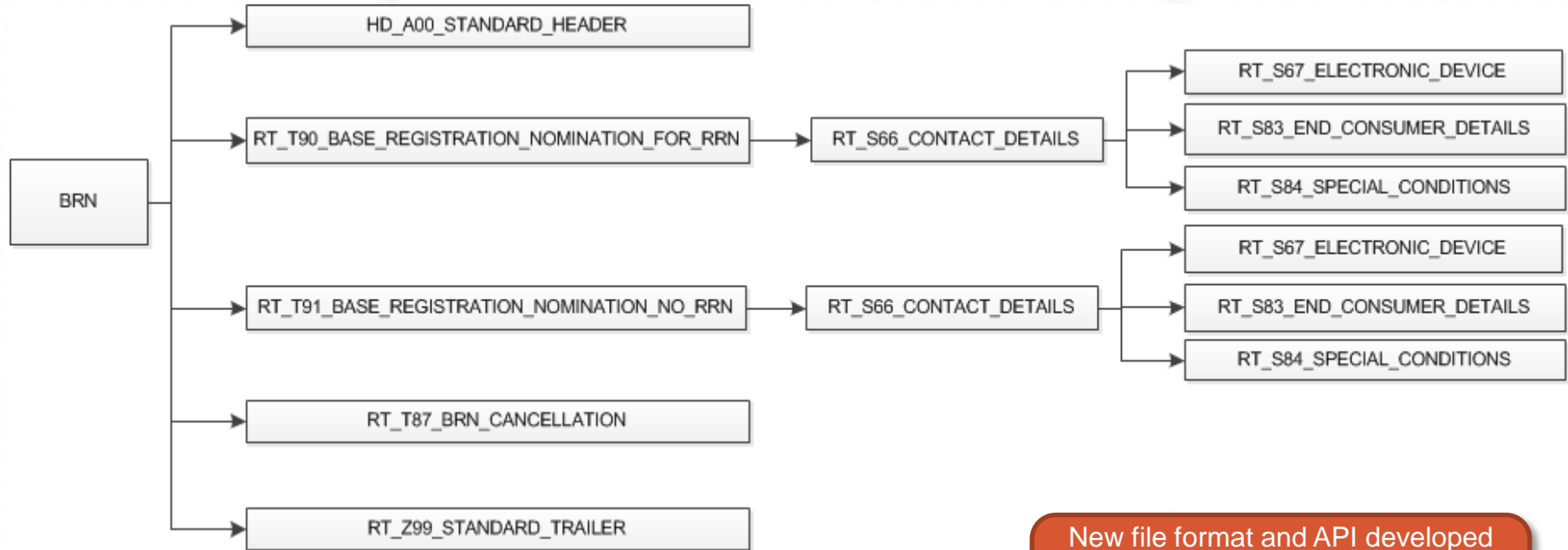
iGT File Format Change Summary

File Name	Record Name	Change Type	Change Summary
IMC	-	Validation Change	Validation change to reject any invalid Elected Shipper and Supplier combinations
IMA	-	Validation Change	Validation change to reject any invalid Elected Shipper and Supplier combinations

Decommissioned File Format Change Summary

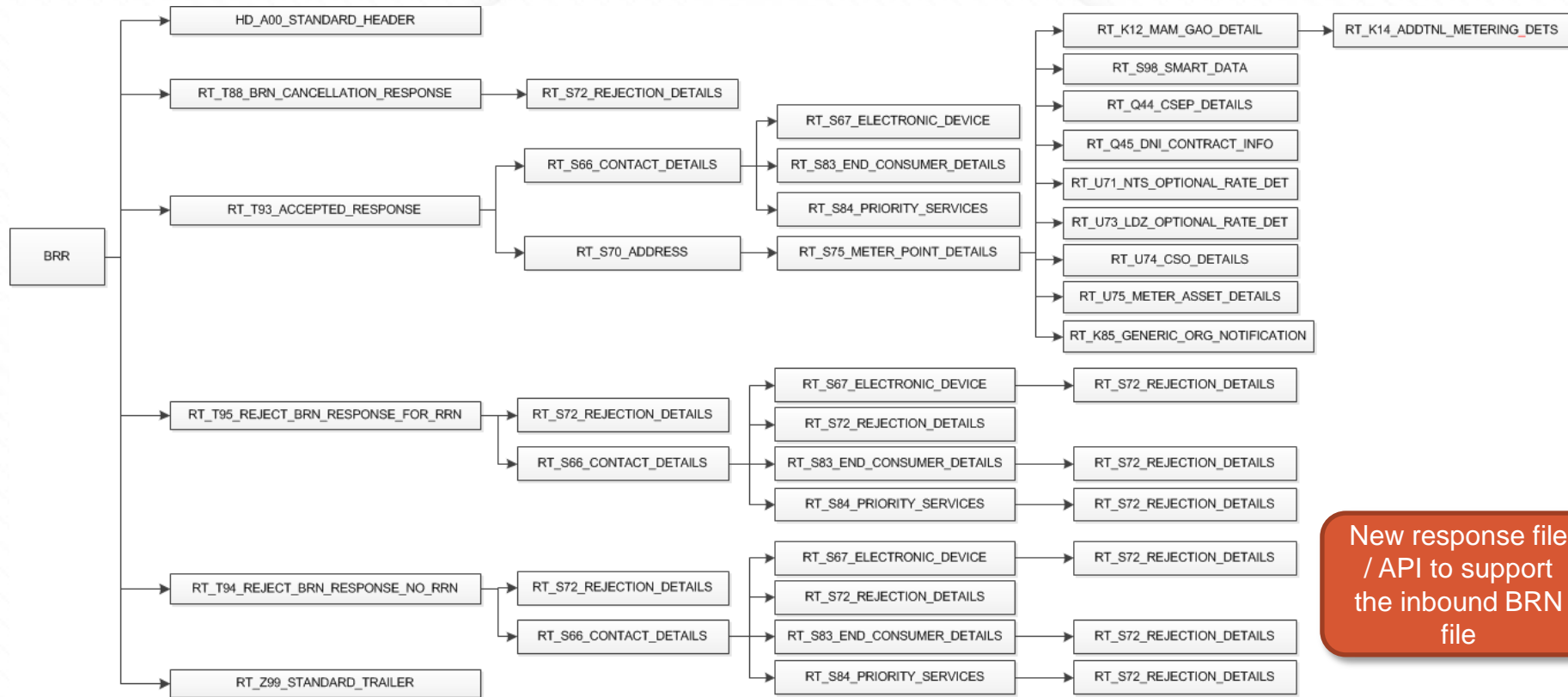
File Name	Record Name	Change Type	Change Summary
XDO	-	Decommission	Decommission of the Supplier portfolio file provided to Smart DCC
TOK	-	Decommission	Decommission of the XDO record count summary file provided to Smart DCC

BRN File Hierarchy

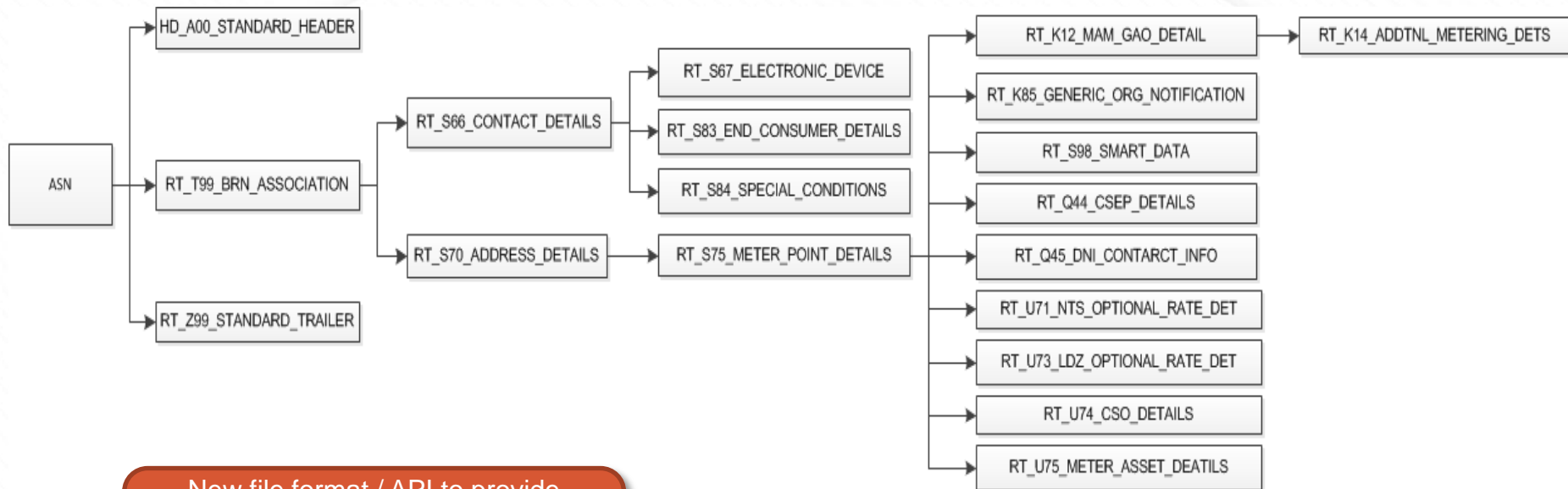


New file format and API developed to enable Shippers to submit their required settlement data in support of a new CSS registration

BRR File Hierarchy

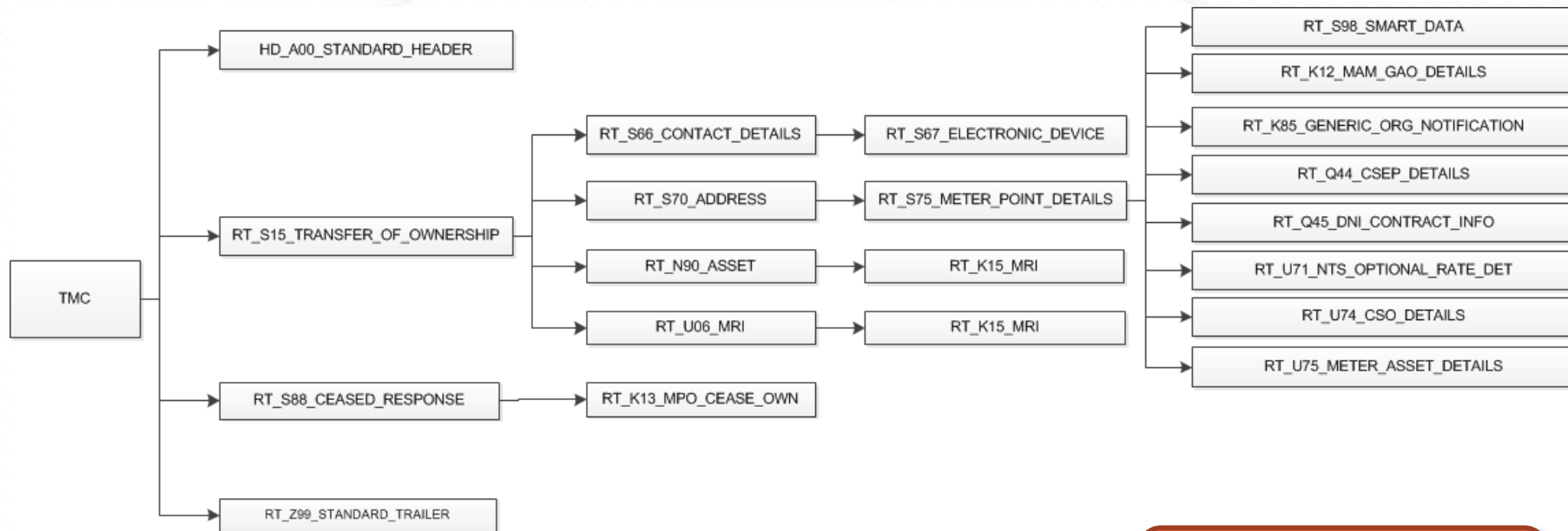


ASN File Hierarchy



New file format / API to provide Shippers with the association details between a CSS Registration and their settlement data submission

TMC File Hierarchy



New transfer of shipper ownership file required for CSS managed sites

S59 Record Changes

- WITHDRAWAL_STATUS optionality to be changed mandatory optional

RECORD/FIELD NAME	OPT	DOM	LNG	DEC	DESCRIPTION
WITHDRAWAL_STATUS	MO	T	1	0	Identifies if the site is not registered to a Shipper or the current Shipper has withdrawn. VALUES: Y – Withdrawn, N – Not Withdrawn Description: For the CSS specific sites the WITHDRAWAL_STATUS will be passed as blank

Please note that changes are highlighted in red

S64 Record Changes

- WITHDRAWAL_STATUS optionality to be changed mandatory optional

RECORD/FIELD NAME	OPT	DOM	LNG	DEC	DESCRIPTION
WITHDRAWAL_STATUS	MO	T	1	0	Identifies if the site is not registered to a Shipper or the current Shipper has withdrawn. VALUES: Y – Withdrawn, N – Not Withdrawn Description: For the CSS specific sites the WITHDRAWAL_STATUS will be passed as blank

Please note that changes are highlighted in red

S69 Record Changes

- POSTCODE_OUTCODE optionality to be changed mandatory optional
- POSTCODE_INCODE optionality to be changed mandatory optional

RECORD/FIELD NAME	OPT	DOM	LNG	DEC	DESCRIPTION
POSTCODE_OUTCODE	MO	T	4	0	Standard PAF outcode as defined in the PAF digest. Description: For CSS sites the POSTCODE_OUTCODE is an optional field
POSTCODE_INCODE	MO	T	4	0	Standard PAF incode as defined in the PAF digest Description: For CSS sites the POSTCODE_INCODE is an optional field

Please note that changes are highlighted in red

U70 Record Changes

- POSTCODE_OUTCODE optionality to be changed mandatory optional
- POSTCODE_INCODE optionality to be changed mandatory optional

RECORD/FIELD NAME	OPT	DOM	LNG	DEC	DESCRIPTION
POSTCODE_OUTCODE	MO	T	4	0	Standard PAF outcode as defined in the PAF digest. Description: For CSS sites the POSTCODE_OUTCODE is an optional field
POSTCODE_INCODE	MO	T	4	0	Standard PAF incode as defined in the PAF digest Description: For CSS sites the POSTCODE_INCODE is an optional field

Please note that changes are highlighted in red

U72 Record Changes

- POSTCODE_OUTCODE optionality to be changed mandatory optional
- POSTCODE_INCODE optionality to be changed mandatory optional

RECORD/FIELD NAME	OPT	DOM	LNG	DEC	DESCRIPTION
POSTCODE_OUTCODE	MO	T	4	0	Standard PAF outcode as defined in the PAF digest. Description: For CSS sites the POSTCODE_OUTCODE is an optional field
POSTCODE_INCODE	MO	T	4	0	Standard PAF incode as defined in the PAF digest Description: For CSS sites the POSTCODE_INCODE is an optional field

Please note that changes are highlighted in red

New Rejection Codes

The following new rejection codes are being introduced to support the introduction of new files and process changes:

REJ_CODE	Proposed Description	Impacted File
CSS00001	Confirmation cannot be submitted for CSS sites	CNF, CSS
CSS00002	Supplier change cannot be submitted for CSS sites via GEA process	GEA
CSS00003	Withdrawal request or objection cannot be submitted for CSS sites	WAO
CSS00004	MSI cannot be submitted for CSS sites	MSI
CSS00005	Elected Shipper Supplier combination provided is not valid	IMC & IMA

Where possible existing error codes will be used to support new validation failures

File Format Change Summary

- Details of the file format changes will be included in the relevant changes packs that will be issued over the next two months
- Copies of the final draft versions of the file and record formats are available on the UK Link Documentation SharePoint site

Proposed API Scope

Interface / File	Direction	Traditional File Format	API
Nomination Enquiry (NOM)	Inbound	Yes	Yes*
Nomination Enquiry Response (NMR)	Outbound	Yes	Yes*
Meter Point Transportation Rates Request	Inbound	No	Yes*
Meter Point Transportation Rates Repose	Outbound	No	Yes*
Settlement Data Submission (BRN)	Inbound	Yes	Yes
Settlement Data Submission Response (BRR)	Outbound	Yes	Yes
CSS Registration / Settlement Data Association (ASN)	Outbound	Yes	Yes

* = Current requirement for API delivery

Please note that the other amended file formats are not currently proposed to be replicated as APIs

Gas Supply Point Switching API

Data Item	Description
Meter Point Reference Number	Unique identifier for a supply offtake point. Used to identify the meter to be switched.
Metering Point Address	The address for the metering point provided by the relevant Gas Transporter, including House Name/Number, Street etc.
Metering Point Postcode	The postcode for the metering point, provided by the relevant Gas Transporter
Retail Energy Location	The Retail Energy Location address provided by the Central Switching Service
Current Supplier ID	Industry identifier for the current Supplier
Meter Mechanism Code	Industry identifier for the type of equipment fitted e.g. credit or prepayment meter
GT ID	Unique Identifier for the Gas Transporter Organisation. For large Transporters, this can also be used to identify the geographical area where a metering point is located.
Meter Capacity Indicator	The maximum amount of gas that can be passed through the meter. This is provided for sites connected to a Transporter Network. The capacity of the metering point is measured in M ³ .
Meter Serial Number	Identifier for metering equipment at a premises.
Annual Quantity	Annual quantity of gas assumed to be off taken over a period based on historical information. Provided in kWh.
Local Distribution Zone	This is a discrete gas system supplying gas to a region.
Smart Meter Equipment Technical Code	Specification ID of the smart meter



Data Cleansing Update



Data Cleansing Update

Data Topic	Responsibility	Current Status (August)
GT Plot to Postal Addresses	Shipper	BAU process (GT sites only) – monthly portfolio issue to Organisations where plot addresses exist within their portfolio Shipper Total – 14,889 Unregistered Total – 8,530
Address Data - Quality	Xoserve	
Shipper/Supplier Mapping	Shipper	Being progressed via Xoserve Customer Lifecycle Team and report through SPAA
MAP ID	Xoserve / MAPs	XRN4780 part A was successfully implemented on 28th July 2019 as part of minor release drop 4. Part B is currently planned for delivery in the June 2020 major release. Continuing to work with MAPs to establish initial population, currently targeted for Nov 19.



CSS External Testing





A.O.B.



CSSC Change Pack Overview

- Change Pack 1- Supply Meter Point Creation
 - Planned publication date: 16/09/2019
- Change Pack 2 - Nomination and Switching
 - Includes: Change of Shipper, Change of Supplier, Forced Registrations and Shipper Withdrawals
 - Planned publication date: 16/09/2019
- Change Pack 3 - Settlement Data
 - Planned publication date: 21/10/2019
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- Change Pack 4 - Supply Meter Point Updates
 - Includes: RGMA, SPA Updates, Stakeholder & Master Data, Opening Meter reads, MAM/MAP, Address Data, RMP Status
 - Planned publication date: 21/10/2019

Future DSG CSSC Meetings and Proposed Topics

DSG Meeting		Provisional Agenda
8	17/09/2019	End to End Walkthrough