



CSS Shipper Testing Support Forum

Jo Galloway
11th June 2021

Agenda

- Introduction
- Actions
- DES
- Gemini
- IX Set up update
- UEPT/E2E file management
- Shipper testing
- AOB & Close

Introduction

- UEPT continues with no major issues from an Xoserve perspective and file flows continue as expected
- Xoserve will continue to monitor UK Link and advise of anything shippers should aware of
- Any queries please send to : xoserve.CSS.STS@xoserve.com

Actions

Ref	date raised	Action	Response	Owner	Status
CSS-STSF 04	02-Apr-21	shipper request if a file could be sent to ensure compatibility rather than just connectivity	JG to investigate 16Apr21 - investigations underway and forum to be updated of possibilities	Xoserve	Open
CSS - STSF 08	28-May-21	confirmation if there will be any API connectivity checks in a similar manner to IX	10Jun21 this is being set up and confirmation required on participants	Xoserve	Open
CSS-STSF 09	28-May-21	will there be any APIs backed up in similar way to IX files	10Jun21 -no APIs as not being used through UEPT	Xoserve	Closed

DES



DES Changes

- Gas Retail Energy Location Data

- April 2021

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• Obtaining Gas Meter Point REL Data

- There are two main routes that gas suppliers can use to obtain the Retail Energy Location (REL) address data for gas meter points:
- Manually via the gas Data Enquiry Service (DES) screens
- Or via the Supply Point Switching API service (this service is also available to PCWs and TPIs)
- In addition an API service has been developed to enable Gas Transporters to obtain REL data for meter points connected to their network. Details of this service have not been included here but further details are available on request.

- DES Screen REL
Search Function

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DES Screen REL Search Function

- REL Search Screen
 - Valid/Invalid Search Combinations
 - Error Messages
- REL Search Field Mapping
- REL Search Results Screen
- REL Search Details Screen
- Demo



- REL Search Screen

This function enables users to search for associated MPL and REL addresses via a new dedicated search screen.

Users are required to confirm that this data is being used for the purposes of switching.

This follows the same basis of the current gas meter point search screen with the additional of the CSS Registration ID and UPRN

Home UK Link Data Enquiry User Access

Home Search ICC Updates Read Details REL Search

Home / REL Search

Please enter your search criteria

Meter Point Reference [?](#)

Confirmation Reference [?](#)

CSS Registration ID [?](#)

Building Number/Name [?](#)

Street

Town

Full Postcode [?](#)

OR

Outcode/Incode [?](#)

Meter Serial Number [?](#)

UPRN [?](#)

☐ Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

• REL Search Screen

- Where data is entered into a search field, the screen will grey out certain other fields to help prevent invalid search combinations from being entered
- For example, Meter Point Reference Number is a unique to a single Address so all other search fields are greyed out if an MPRN is entered

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Home UK Link Data Enquiry User Access

Home Search IOC Update Read Details REL Search

Home REL Search

Please enter your search criteria

Meter Point Reference ⓘ 113

Confirmation Reference ⓘ

CSS Registration ID ⓘ

Building Number/Name ⓘ

Street

Town

Full Postcode ⓘ

OR

Outcode/Incode ⓘ

Meter Serial Number ⓘ

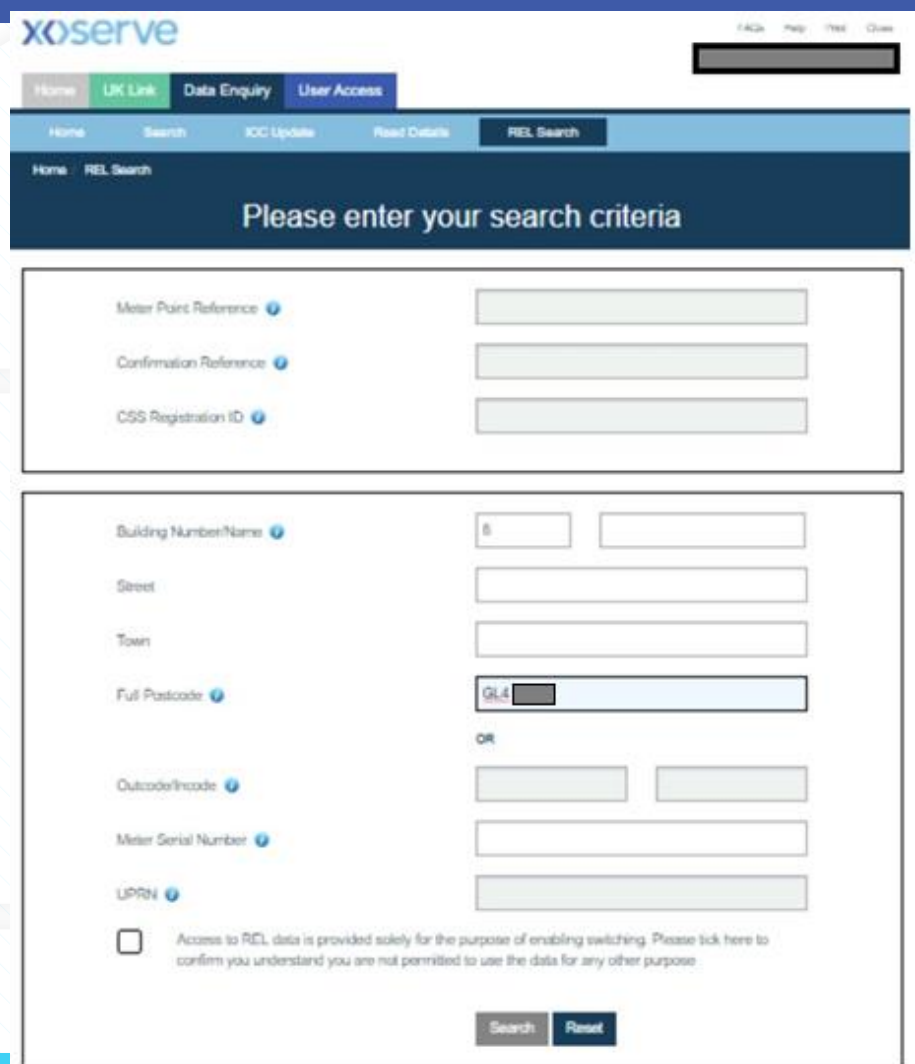
UPRN ⓘ

☒ Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

- REL Search Screen

- Searches using the address fields allow more flexibility. Full address data can be entered for a specific search or a broader search, just via postcode for example, can be performed



The screenshot shows the XOServe website's REL Search interface. At the top, there's a navigation bar with links for Home, UK Link, Data Enquiry, and User Access. Below this is a secondary navigation bar with Home, Search, IOC Update, Road Details, and REL Search (which is highlighted). The main heading reads 'Please enter your search criteria'. The search form is divided into two main sections. The first section contains three input fields: Meter Point Reference, Confirmation Reference, and CSS Registration ID. The second section contains several input fields: Building Number/Name (with a small 'B' in a box), Street, Town, Full Postcode (with 'GL4' in a box), Outcode/Incode, Meter Serial Number, and UPRN. Below these fields is a checkbox and a disclaimer: 'Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose'. At the bottom right, there are 'Search' and 'Reset' buttons.

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Home UK Link Data Enquiry User Access

Home Search IOC Update Road Details REL Search

Home REL Search

Please enter your search criteria

Meter Point Reference

Confirmation Reference

CSS Registration ID

Building Number/Name

Street

Town

Full Postcode

OR

Outcode/Incode

Meter Serial Number

UPRN

☐ Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

- Invalid Search Combination

- Certain search combinations are not permitted in order to prevent searches that are too broad, Building Number and Street for example
- If an invalid search combination is attempted, the relevant error message will be displayed in red text at the top of the screen

[Home](#) [Search](#) [ICC Update](#) [Read Details](#) [REL Search](#)

[Home](#) [REL Search](#)

Please enter your search criteria

Please either enter a full Postcode or add an Outcode or the Town

Meter Point Reference ⓘ

Confirmation Reference ⓘ

CSS Registration ID ⓘ

Building Number/Name ⓘ

Street

Town

Full Postcode ⓘ

OR

Outcode/Incode ⓘ

Meter Serial Number ⓘ

UPRN ⓘ

☒ Access to REL data is provided solely for the purpose of enabling switching. Please [click here](#) to confirm you understand you are not permitted to use the data for any other purpose

- No Records Found

- If a valid search is attempted but no records can be found matching the search criteria, an error message stating “No Records Found, Please modify the search criteria” will be displayed

[Home](#) [Search](#) [ICC Update](#) [Read Details](#) [REL Search](#)

[Home](#) / [REL Search](#)

Please enter your search criteria

No Records Found. Please modify the search criteria

Meter Point Reference ⓘ

Confirmation Reference ⓘ

CSS Registration ID ⓘ

Building Number/Name ⓘ

Street

Town

Full Postcode ⓘ

OR

Outcode/Incode ⓘ

Meter Serial Number ⓘ

UPRN ⓘ

☒ Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

REL Search Field Mapping

- Address Search fields entered as part of a valid search combination will be matched against specified fields within the MPL and REL Address database to identify a match
- A record will be considered a match if the searched values are found within either the MPL or REL Address database in line with the mapping tables shown on this slide
- A search resulting in multiple MPL address records being matched will display on the REL Search Results screen
- A search resulting in a single MPL record being matched will display on the REL Search Details screen

REL Search Field	MPL Address Fields Matched Against	REL Address Fields Matched Against
Building Number	Building Number	Primary Name Secondary Name
Building Name	Building Name	Primary Name Secondary Name
Street	Street	Street1 Street2 Locality1 Locality2
Town	Town	Town
Full Postcode	Postcode	Postcode
Outcode	Outcode	Outcode

REL Search Field	System Field
Meter Point Reference	The given value should be matched only against the Meter Point Reference Number in the system
Confirmation Reference	The given value should be matched only against the Confirmation Reference in the system
CSS Registration ID	The given value should be matched only against the CSS Registration ID in the system
IUPRN	The given value should be matched only against UPRN provided by CSS as part of REL address

REL Search Results Screen

- The REL Search Results screen lists the matched MPL addresses with any associated REL addresses displayed below it
- By selecting an MPL Address from the list, the REL Search Details screen will be displayed
- *Screenshot displays test REL address data so the associated MPL and REL address are not necessarily similar

Home
UK Link
Data Enquiry
User Access

Home
Search
ICC Update
Read Details
REL Search

Home / REL Search / Results

REL Search Results

Search Results for:
Address: GL4

MPRN	MPL Address	MPL Postcode	MBN
		GL4	
REL Address			REL Postcode
1, 2, HIGH STREET, BIRMINGHAM			B1 1AA

MPRN	MPL Address	MPL Postcode	MBN
		GL4	
REL Address			REL Postcode
No REL Addresses Found			

MPRN	MPL Address	MPL Postcode	MBN
		GL4	
REL Address			REL Postcode
No REL Addresses Found			

MPRN	MPL Address	MPL Postcode	MBN
		GL4	
REL Address			REL Postcode
No REL Addresses Found			

MPRN	MPL Address	MPL Postcode	MBN
		GL4	
REL Address			REL Postcode
No REL Addresses Found			

- REL Search Details Screen

The screenshot displays the Xserve web application interface. At the top, there is a navigation bar with links for Home, UK Link, Data Enquiry, and User Access. A search bar is visible on the right. Below this is a secondary navigation bar with links for Home, Search, ICC Update, Read Details, and REL Search. A breadcrumb trail indicates the current path: Home > REL Search > Results > REL Search Details.

REL Search Details

MPRN	CSS Registration ID	CSS UPRN	MPL Address	MPL Postcode	MRN
[Redacted]		[Redacted]	[Redacted]	GLA [Redacted]	[Redacted]

Address Source	Primary Name	Secondary Name	Street 1	Street 2	Locality 1	Locality 2	Town	Postcode	Logical Status	Language	Organisation	Address Type	Confidence Score	Classification	Latitude	Longitude
MPL	1	2	High Street				Birmingham	B1 1AA	Alternative	ENG	CSSC	LPI	990	Test1	53.253200	4.309900

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The REL Search Details screen displays the full details for a specific MPL address and the associated REL addresses

- Supply Point Switching API

-

xserve

Provided by:

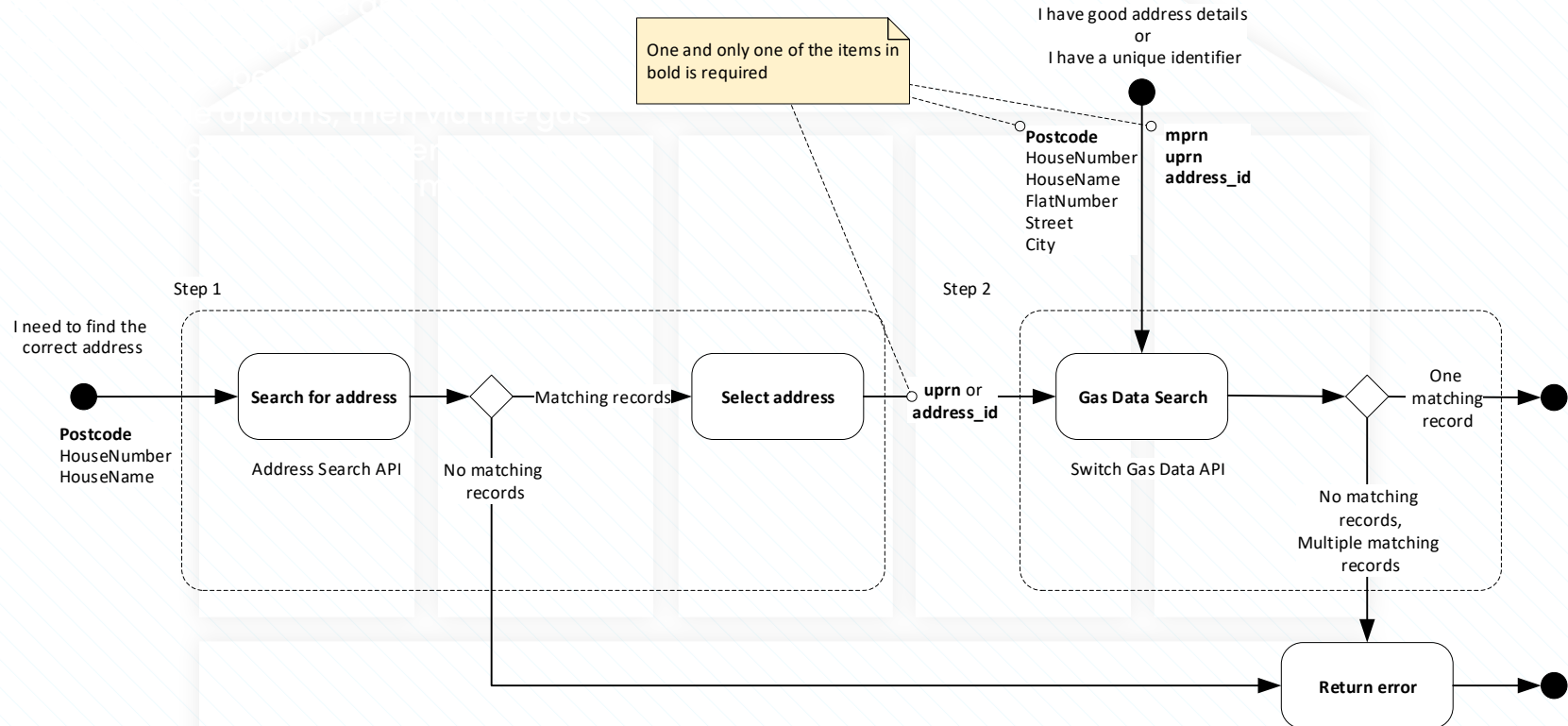


Supply Point Switching API

- Process Overview
- Supply Point Switching Address Search API
- Supply Point Switching Switch Gas Data API

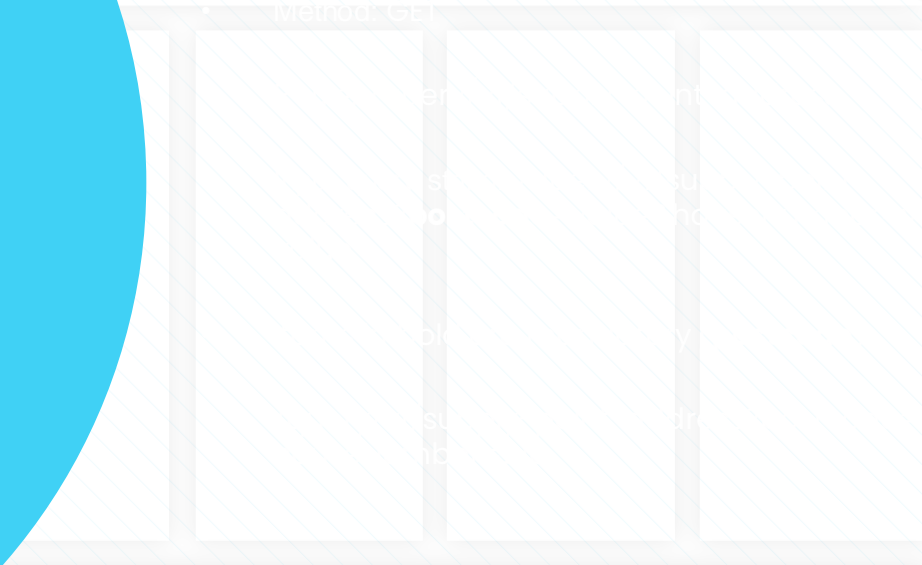


- Supply Point Switching API Process Overview



- Address Search API Input Data Items

- The address search API allows for user to search for address details based on a limited set of data to enable multiple address records to be returned to enable easy identification of an address.
- The search request for the Switching API is a URL encoded query string such as you would see in the internet browser address bar.



Address Search API Response

- The address search will use the input values provided to identify the all matching address records across both the Meter Point Location and Retail Energy Location data sets and will provide full address details as shown in the example.
- The Address ID will only be provided where a MPL match has been found for the input, and the UPRN where a REL address is found.

/query/v1/supply-point-address?postcode=AB11%20XX& houseNumber=001

Match found in MPL
and REL records

Match found in REL
records

- Address Search
API Error
Response

- If there is a problem processing the request then the relevant error details will be returned

```
• {  
•   "fault": [{  
•     "faultString": "Request cannot be processed because invalid  
query parameter(s) supplied.",  
•     "detail": {  
•       "errorCode": "XSCH6003",  
•       "item": "houseNumber"  
•     }  
•   }  
• }  
• }
```


• Gas Data Search API Input Data Items

- The gas data search API allows for users to search for details of a single meter point based on either the Address Search output (via the Address ID or UPRN), through an expanded address data set or directly via the MPRN.
- The search request for the Switching API is a URL encoded query string such as you would see in the internet browser address bar.

- **Method:** GET
- **Route:** /query/v1/switch
- **Input query string:**
/query/v1/switch?**addressId**=value&**meterPointReferenceNumber**=value
uprn=value&**postcode**=value&houseNumber=value&houseName=value
e&flatNumber=value&street=value&city=value
- One and only one of the items in bold is required (**addressId**, **uprn**, **meterPointReferenceNumber**, **postcode**)

• Gas Data API Response

- The gas data API will use the input values provided to identify the single matching Meter Point record, where address data was used the search will be undertaken against address records in both the Meter Point Location and Retail Energy Location data sets.
- The full set / array of REL address details for the MPRN will be provided as per the information received from CSS.

```
{ "switchGasData": [{
  "addressId": "XXXXXXX",
  "houseName": "",
  "houenum": "X",
  "country": "GB",
  "county": "",
  "currentSupplierId": "ABC",
  "currentSupplierRegEffectiveDate": "2019-08-07T00:00:00.000Z",
  "pendingSupplierRegEffectiveDate": "",
  "deliveryPointAlias": "",
  "dependentStreet": "",
  "dmq": "17799",
  "doubleDependentLocality": "",
  "gasTransportId": "Sample Gas Networks Plc.",
  "ldz_id": "SE",
  "meter_capacity": "1",
  "meter_mechanism_code": "NS",
  "meter_serial_number": "XXXXXXXXXX",
  "mpaq": "17799",
  "meterPointReferenceNumber": "XXXXXXXXXX",
  "ndmq": "18467",
  "poBoxNumber": "",
  "postTown": "LONDON",
  "postcode": "XXX XXX",

  "smartEquipmentTechnicalCode": "BRG",
  "street": "NUTHURST AVENUE",
  "subBuildingName": "",
  "addressSource": "Match",
  "uprn": "100023336956",
  "relAddress": [{
    "primaryName": "4",
    "secondaryName": "",
    "street1": "Sample Terrace",
    "street2": "",
    "locality1": "Inverbervie",
    "locality2": "",
    "town": "Montrose",
    "postcode": "AA10 0BC",
    "logicalStatus": "1",
    "language": "ENG",
    "organisation": "",
    "addressType": "LPI",
    "confidenceScore": "1",
    "classification": "",
    "latitude": "52.411800000000",
    "longitude": "1.777600000000"
  ]
}]
}
```

- Gas Data Search API Error Response

- If there is a problem processing the request then the relevant error details will be returned.
- If multiple MPRN records are identified for the input data provide then an error response will be returned.



"detail":	
"code":	60
"message":	De
"error":	

- Supply Point Switching Address Search API Error Codes

Validation	HTTP Code	Rejection Code	Description
Twinstream	422 – Unprocessable Entity	e002	“Requested address has twin stream meter device. You are not authorised to view this data.”
Shared Supply	422 – Unprocessable Entity	e003	“Requested address has shared supply meter device. You are not authorised to view this data.”
Twinstream and Shared Supply	422 – Unprocessable Entity	e004	“Requested address has twin stream and shared supply meter device. You are not authorised to view this data.”
Extinct meter point status.	422 – Unprocessable Entity	e005	“Requested address has extinct meter point status. You are not authorised to view this data”
MPRN not found	404 – Not Found	e007	“Requested meter reference number is not found”
MPRN has more than one matching records	422 – Unprocessable Entity	e008	“Requested meter reference number has more than one matching records; data can only be provided for unique match”
Multiple records at address	422 – Unprocessable Entity	e009	Submitted address details has multiple records; data is only provided for unique number”
No matching record for address	404 - Not Found	e011	“Requested address has no matching record. This may be because, there is no gas meter at this property (or) full postcode with a space is not entered (or) the entered details are incorrect ”.

• Useful Links

- For more information on Xoserve's Data Enquiry Service and the consequential changes that are being made to DES and APIs for the inclusion of Retail Energy Data can be accessed via the following links:

- Data Enquiry Service Overview / User Guides
- <https://www.xoserve.com/systems/data-enquiry-service/>
- UK Link and DES Business Requirements Documents
- <https://www.xoserve.com/change/switching-programme/>
- API Change Documentation
- <https://xoserve.sharepoint.com/:f:/r/sites/UKLink/Shared%20Documents/3.%20UK%20Link%20Interface%20Documents/3c.%20For%20Approval/CSSC%20API%20Documentation?csf=1&web=1&e=mXC9q7>

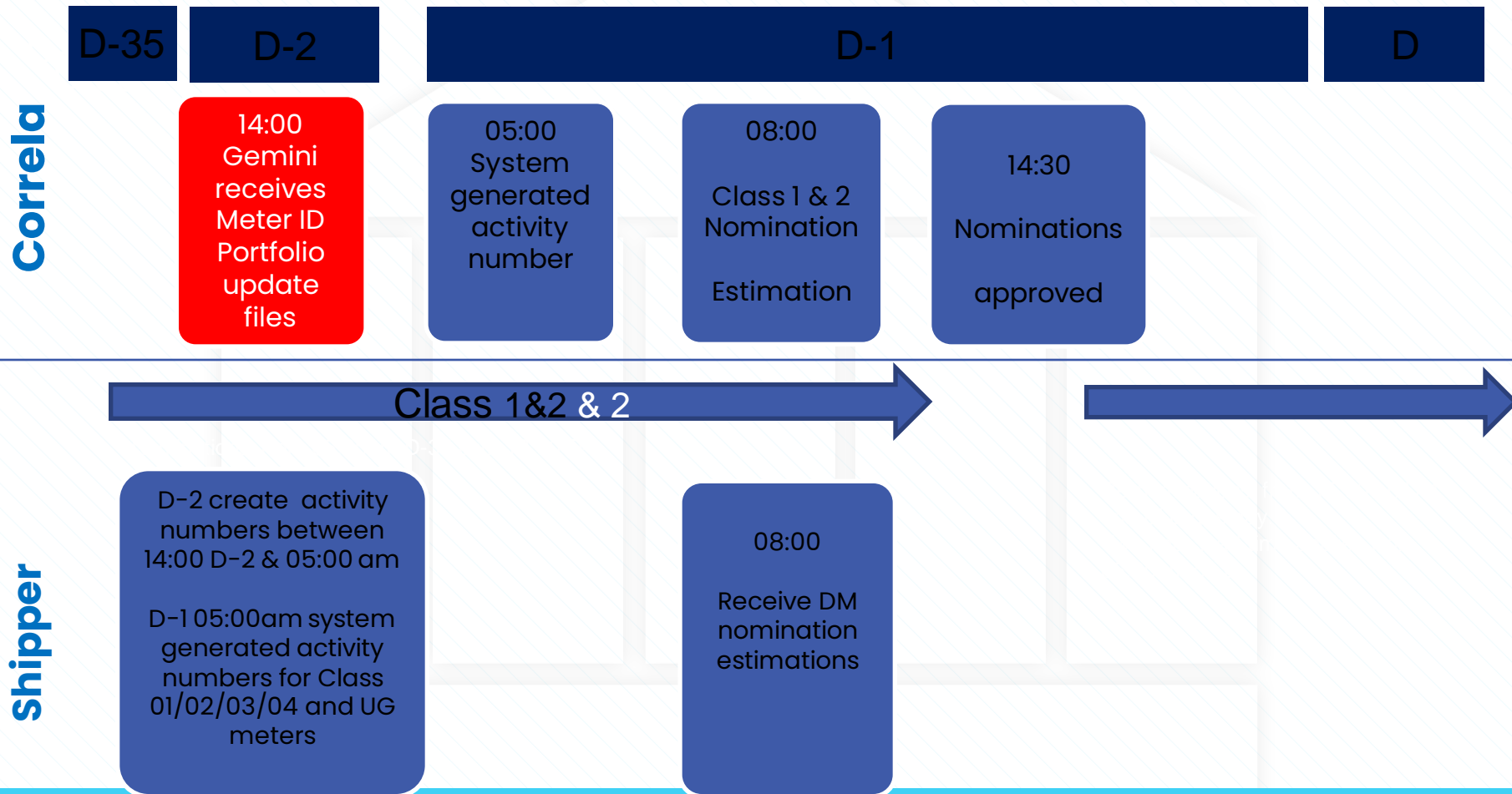
- Thank you

- CSS Consequential :
Gemini Solution

- 09/06/21



• Current Gemini Nomination Position



• Nomination/Re-nomination timeline Post CSS

D-1 post 17:00

D

Correla

- **17:00** CSS sends message to UK Link
- **17:30** UK Link receives sync message from CSS

**21:00
Gemini
receives AQ
and Portfolio
update files**

- **22:00** Approved nom/re-nom cancellation
- **22:30** Activity number generated new ACT file issued
- **22:45** DM Nomination Estimation runs

Class 1 & 2 re-noms D-1 22:45 onwards

Shipper

- **22:30** Shippers receive Activity number via ACT File
- **22:45** Shippers receive Class 1 & 2 Nomination Estimation
- **22:45** Shippers able to re-nom from this point on D-1
- The D-1 23:59 NDM/UG nominations will reflect the updated portfolio and AQ values
- All APIs containing nomination data for effective gas day D will only reflect updated portfolio and AQ values after 22:45 D-1

• End to End testing

- Please provide production login details to enable us to recreate in the Gemini test environment as soon as possible.
- The project team will provide details of the DNS mapping and host entry changes required for Citrix and the Gemini test environment URL to enable you to access the CSSC Gemini environment
- Four test cases relate to Gemini:
 - E2E027 - Forced Registrations
 - E2E058 - Supplier Switching and Change of Shipper
 - E2E059 - Manage Supply Meter Point Updates
 - E2E064 – Deactivation
- Please confirm when you are planning to complete the above test cases so we can ensure the data is set up in the test environment



ON BEHALF OF **xoserve**

Gemini

- To enable the appropriate Gemini set up for those taking part in E2E, we require the following :
 - Gemini Online user IDs
 - API user IDs, if Shippers wish to access from API
 - Required by **Monday 7th June 2021**
 - **Although the date has past, IDs can still be sent in but there are no guarantees for 12th July start**
 - Confirmation required that these can be shared with 3rd party providers
 - Please send into the box : xoserve.CSS.STS@xoserve.com with Gemini ID in the subject header
 - This will enable a test instance to be set up prior to the start of E2E testing
 - Details will also be shared to enable access and testing of Test ID

IX set up Update

- IX connectivity testing has been taking place since 18th May 2021
- After a few issues, the majority of shippers have now connected successfully
 - Work continues with the outstanding shippers to ensure successful connectivity
- Channels will now remain open until the end of E2E, however, gateway into UK Link will remain closed until 9th July
- Once all tests have been completed, DEL receipts will be turned off and all E2E participants will receive response files as normal during E2E testing
 - Please note that test files should continue to be sent using the 5.8.3. format : UKL01.TNXXXXXX.XXX during E2E
 - Use UKL01 and not short code

UEPT/E2E File Management

- For all shippers connected to suppliers taking part in UEPT ONLY , files will be deleted by Xoserve at our gateway
- With E2E due to start on 12th July , shipper activity will start and ports will be open, therefore, it is important that we understand the action you wish us to take regarding any files which may held at the Xoserve Gateway following UEPT activity.
-
- There may be different requirements dependent on your own systems and testing regimes, therefore , please advise which of the following options you want to take :
- 1. Xoserve to delete all files generated up to 9th July 2021
 2. Xoserve to release all files to you from 9th July 2021
 1. If this is the case do you want these all together or phased ?
 3. If there is only specific files types you want to receive
 1. If this becomes too complicated with a variety of different requests, Xoserve reserves the right to default to option 2 and release all files.
- —
- When providing your response please ensure that you confirm the shipper short code(s) you are managing.
-
- Once E2E starts, all files will flow in the normal manner and any files generated by continued UEPT activity will also be sent to you.
-
- To ensure that we are able to carry out the required activity please advise of your option by no later than :
Friday 25th June 2021.
-
- **Please note : If we do not receive any response , we will release all files for management within your estate .**

Shipper Testing

- This would be voluntary
- Utilisation of the UIT environment , therefore, no additional data requirement or environment set up
- Participants would utilise the UEPT tests carried out by their related suppliers and this co-ordination would be their responsibility
 - This would mean any testing would have to line up with the UEPT Tranche
- Earliest Start from 12th July when all batch runs would be initiated for E2E, however, it is anticipated that this would predominantly taken up by shippers not participating in E2E and , therefore, would be later in the test phases
- Xoserve will co-ordinate the testing and dates with each organisation
- Support would be on a best endeavours basis , however, E2E and UEPT would be priority basis
- If there are issues with the CSS programme, the voluntary testing would be halted
- API testing would not be included
- IX will be opened and available for volunteer parties
 - Connectivity test would need to take place before actual testing starts
- An indication of interest (and potential start time) would be appreciated by 25th June
 - This is only a expression of interest and is not a commitment
 - Discussions would need to take place regarding UEPT file management as some of the information may be required
 - Current stance is that all UEPT only participant files will be deleted

AOB & Close

- Next Session on Friday 25th June 2021 1.00–2.00
- Plan to cover :
 - Shipper testing in more detail
 - Additional processes
- Please advise of anything you would like covered in the next session