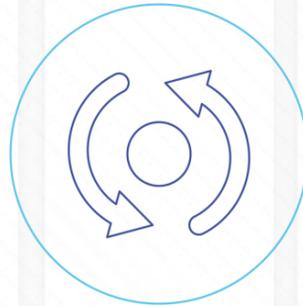




Extraordinary DSG Meeting CSS Consequential Change



16th August 2019

Agenda

- Welcome and introductions
- Action Review
- Detailed Design Solution Discussion
 - Shipper Withdrawals
 - Erroneous Confirmation (ECO) Process
 - Forced Registrations
 - Bulk Transfers
- Future Topic Design Questions
 - Data Enquiry
- 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	Meter read frequency change- check the status of this XRN and assess the impacts and our consequential design.	Xoserve	31/08/2019	Open	
26/06/2019	XDSG-130519-043	Agree preference for adding new records to the CNF record or amending the records within the CNF file rather than the new BRR/BRN files and new record formats.	All	30/07/2019	Open	
11/07/2019	XDSG-100619-051	Xoserve to look at bringing the K12 & K14 records into the nomination enquiry response file.	Xoserve	25/07/2019	Open	
11/07/2019	XDSG-100619-052	DA to review the impacts the RRN submission decision will have on the updated UNC	Xoserve	25/07/2019	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	25/07/2019	Open	
11/07/2019	XDSG-260619-054	Shippers to consider the opening reading proposal to start the Read Window at D, rather than D-5 for Class 4 Opening Meter Readings and provide feedback at the next meeting	Attendees	25/07/2019	Open	
11/07/2019	XDSG-260619-055	Xoserve to consider the inclusion of adding a delay into the process of sending an ASN file to enable the incoming shipper time to submit a BRN file, only for the registration effective date is more than one day in the future	Xoserve	25/07/2019	Open	

Action Review

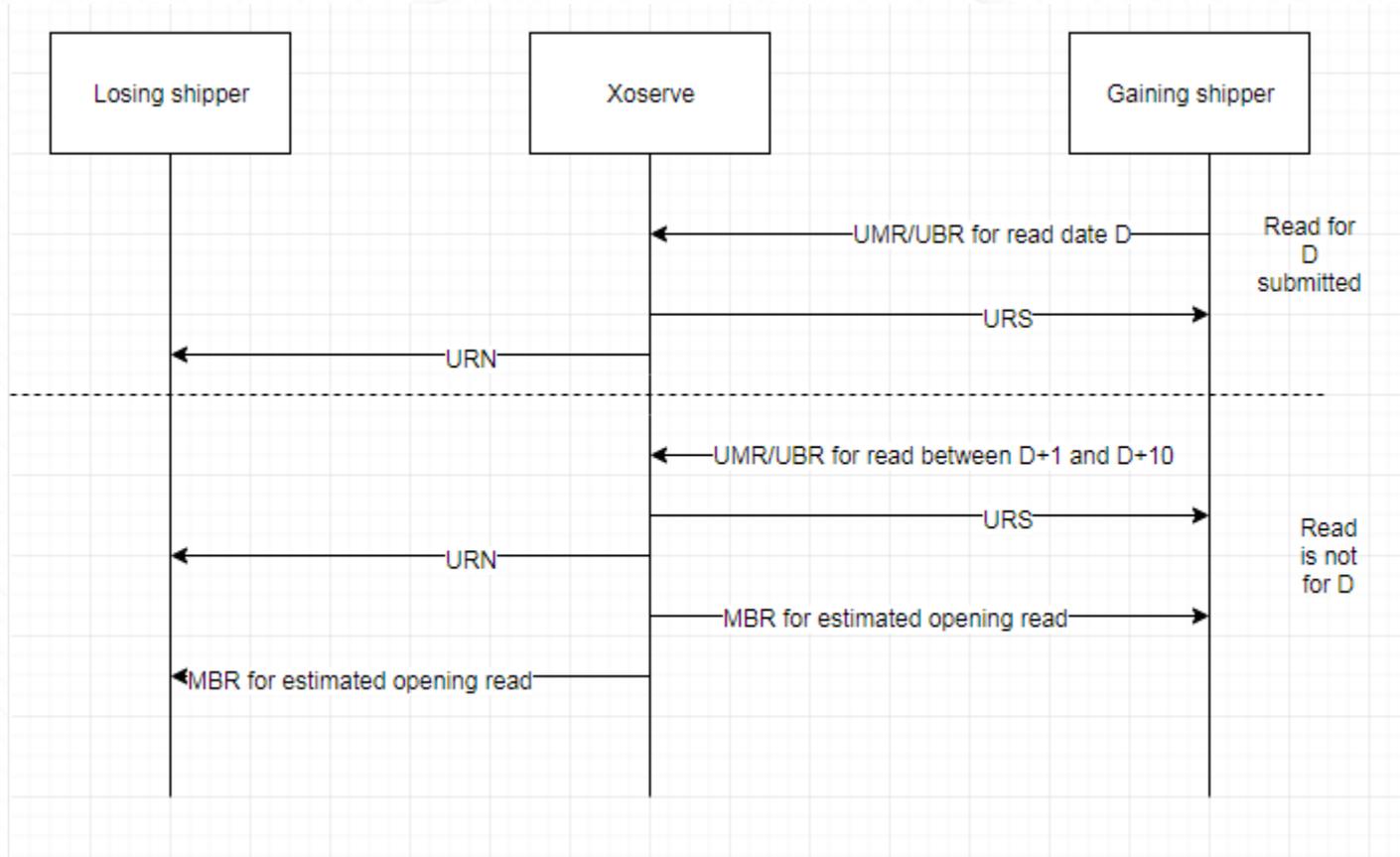
Date Raised	Reference	Action Description	Action Assigned To	Target Date	Open	Date Closed
11/07/2019	XDSG-260619-056	Xoserve to provide a view of the default rules that will be applied for a forced or initial registration where no BRN has been provided	Xoserve	25/07/2019	Open	
11/07/2019	XDSG-260619-057	Add timings onto the sequence maps for the change of shipper and supplier scenarios	Xoserve	25/07/2019	Open	
11/07/2019	XDSG-260619-058	Consider the 3 options discussed for the sending of the current TRF/MRI data and confirm preferred option at the meeting	Attendees	25/07/2019	Open	
11/07/2019	XDSG-100619-059	Shippers to think about who will have to attend the Market Trials session in August	Attendees	25/07/2019	Open	
11/07/2019	XDSG-100619-060	Confirm how Ofgem are engaging with the MAM's	Xoserve	25/07/2019	Open	
25/07/2019	XDSG-250719-061	Reach out to PWC and ask them to speak with the smaller asset managers to determine the appropriate engagement approach.	Xoserve	16/08/2019	Open	
25/07/2019	XDSG-250719-062	Issue slides to all internal and third party providers who may be impacted by the change of timings.	Attendees	16/08/2019	Open	
25/07/2019	XDSG-250719-063	Provide a sequence of meter read files that will be issued.	Xoserve	16/08/2019	Open	
25/07/2019	XDSG-250719-064	Set up a meeting for August to discuss market trial requirements with the industry.	Xoserve	16/08/2019	Closed	

TMC or TRF File Decision

Agreement required on which options will be progressed:

- **Option 1** – Introduce the new TMC file to incorporate the existing records TRF and MRI records into a new single file.
- **Option 2** – Introduce the new TMC file with a combination of new and existing records.
- **Option 3** – Retain the current TRF and MRI files.

Opening Meter Read File Timeline (Class 3/4)





Shipper Withdrawals (Supplier Registration Deactivation)



Change Overview

Supplier Registration Deactivation Event

Post CSS implementation, the shipper withdrawal process will cease to exist for sites under CSS. This will be replaced by Supplier Deactivation process which will be mastered by CSS.

Sequence of Events

- For CSS sites, supplier deactivation request will come from CSS through Registration Sync interface following a deactivation request from supplier
- UK Link will run standard validations in ISU when any RegistrationSync message comes. If there are any inconsistencies in the data, system will raise an exception.
- Supplier deactivation process will work in same way as the Withdrawal process currently works. The only difference being the effective date will be informed by CSS in the to-be world, whereas currently it is calculated by UK Link System.

Changes in Existing Interface:

- Withdrawal and Objection (WAO) interface needs to be changed. If WAO is received for any CSS sites an error response (WOR) should be sent back to shipper. A new error message will be introduced for it.

Solution Approach

Registration Sync received for Shipper Withdraw

New interface for Shipper Withdrawal notification through Central Services Registration Synchronisation

High Level Impact Assessment

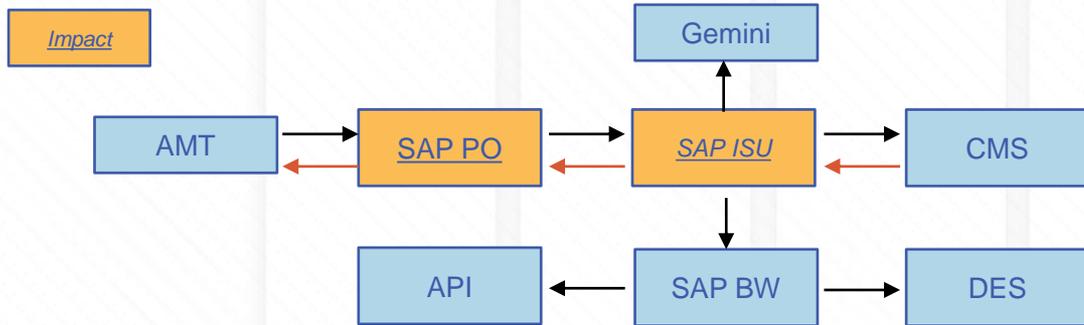
Registration Sync for Supplier Deactivation

Interfaces will be built based on CSS interface specification to accept the Registration Sync interface for Supplier Deactivation

SAP PO will process all the CSS incoming sync request and generate a delivery receipt acknowledgment to CSS on receipt of these sync messages

SAP ISU will carry out the business validations and verify the Registration sync messages and in case of failures, rejection response will be sent to notify CSS.

Impacted Systems



Overall Impact

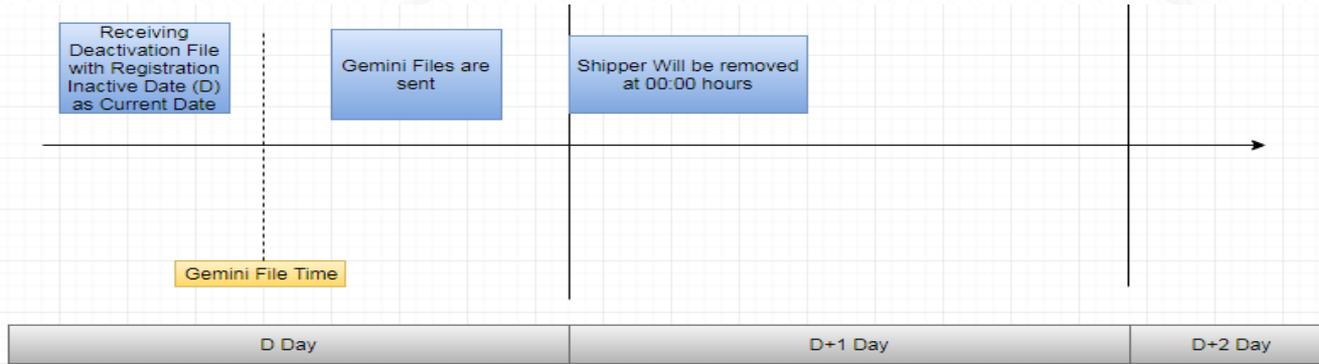
High

Design Considerations & Assumptions

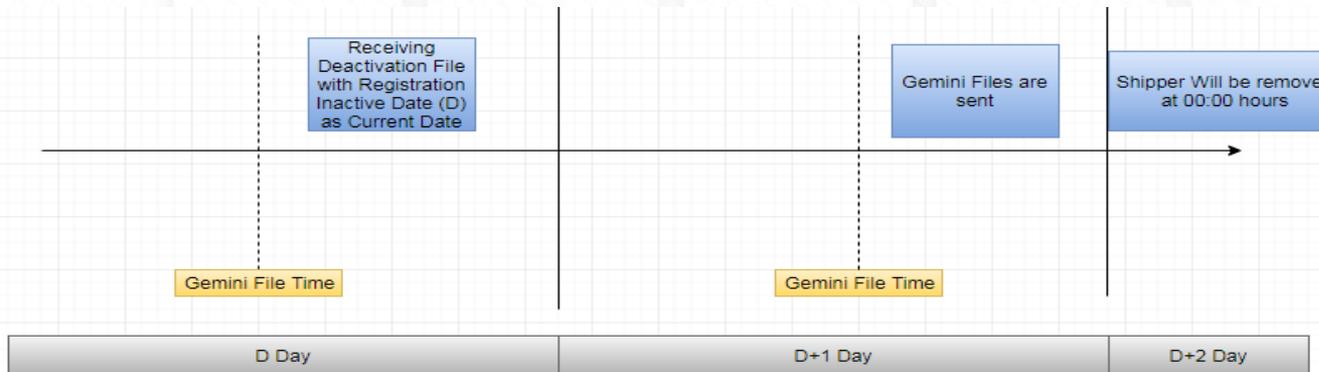
- WAO file will not be used to receive a withdrawal request except for non-CSS sites. If a withdrawal request is received for CSS specific sites the request will be rejected with valid rejection code through WOR
- If UK Link receives a deactivation request with registration inactive date as current date after the Gemini Batch execution time, it will consider the inactive date as current date+1. Supplier will be moved out at the end of the Inactive date. This is explained in the next slide.
- UK Link system is not expected to receive any cancellation message for supplier registration deactivation.
- If the site is not EXTINCT or DEAD or ISOLATED, then UK Link system will wait for the status to be changed and raise an exception

Time Diagram for Inactive Date

- When Deactivation file is received before Gemini File Execution time



- When Deactivation file is received after Gemini File Execution time



System Impact Assessment

	SAP ISU	SAP PO
System Component:	SPA	Configuration
Development Type:	Code Change	Configuration Change
Impacted User(s):	Shippers & CSS Provider	Shippers & CSS Provider
Build Type:	<p>1 <u>New Interface</u></p> <ul style="list-style-type: none"> CSS Webhook Interface – Receive Sync Notification 	<p>1 <u>New Interface</u></p> <ul style="list-style-type: none"> CSS Webhook Interface – Receive Sync Notification
Change Description:	<ol style="list-style-type: none"> New Webhook Interface to receive Sync messages and Event notification 	<ol style="list-style-type: none"> New Webhook Interface to receive Sync messages and Event notification

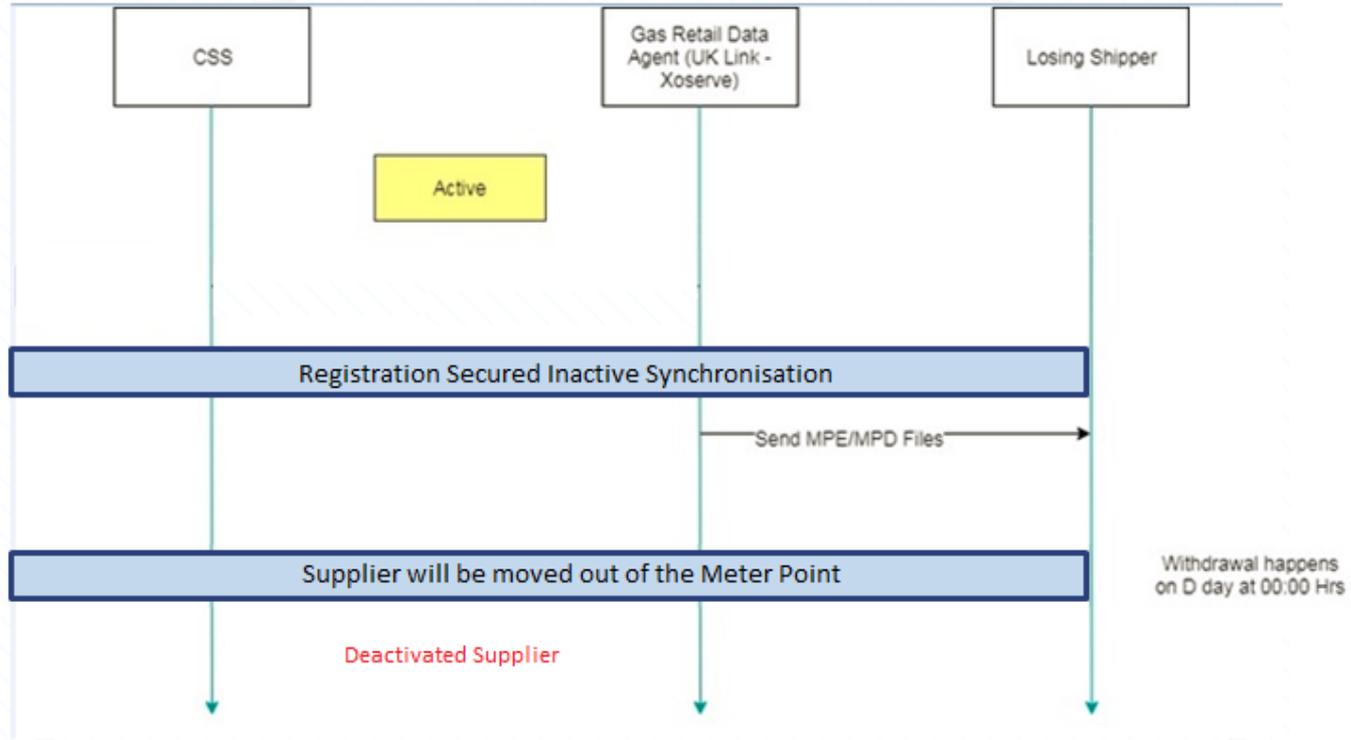
Requirement Clarity:	A	A
Change Complexity:	A	A
Integration Complexity:	A	A
Test Data Prep Complexity:	A	A
Test Execution:	A	A
Regression Testing Impact:	A	A
Performance Impact:	A	A

Validation on the CSS Shipper Withdrawal Message

Check done when the RegistrationSync message is received a response is required

Example Scenarios	Action	Outcome
Incorrect MPRN	Reject	Not OK , UKLink was not able to act on the withdrawal request
<ul style="list-style-type: none">• Incorrect Service provider details• Withdrawal received with Inactive date which is more than XX days in future	Accept & Raise Exception	OK , Acted on by UKLink but some issue was observed
The mandatory data items present and valid based on the data held UKLink	Accept	OK
Withdrawal receives for a request where meter point status is not EXTINCT or DEAD or ISOLATED	Raise Exception and wait for the status to be changed	Raise Exception and Wait

High Level Flow Diagram

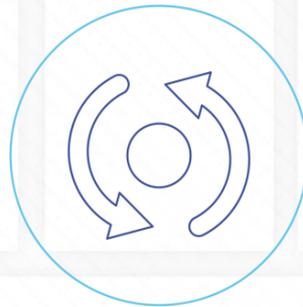


New Rejection Code

Rejection Code	Rejection Description	Check
CSS00003	Withdrawal request or objection cannot be submitted for CSS sites	If WAO interface is used to request for withdrawal for CSS sites



Erroneous Confirmation (ECO) Process



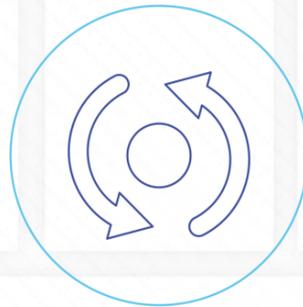
Deactivation Requests for Erroneous Confirmations

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.



Forced Registrations



Change Overview

Auto-Confirmation Event

Post CSS implementation, the forced confirmation request will go to CSS from Xoserve through new interface. The identification process of MPRN which will be subjected to forced confirmation process, will remain unchanged.

Sequence of Events

- UK Link will send initial registration request through new interface Initial Registration Request to CSS an Enforcing Gas Supplier
- CSS will issue Registration Synchronisation
- UK Link will run standard validations in ISU when any Registration Sync message comes. If there are any inconsistencies in the data system will raise an exception.
- When the Sync Messages from CSS arrives, an ASN with default values will be sent to Shipper if BRN is not present
- This will follow the same process of initial registration

Changes in Existing Interface:

- No existing interfaces will be changed

Solution Approach

Initial Registration Request for Auto-confirmation

This is a New interface for sending Registration request for sites eligible for auto-confirmation
The selection of site for auto-confirmation will remain the same as the current process

Registration Management Request Notification

This is a New interface for accepting request submission notification from CSS
UK Link, as Enforcing Gas Supplier, will receive this against each registration request sent

High Level Impact Assessment

Registration Management Request Notification and Registration Sync

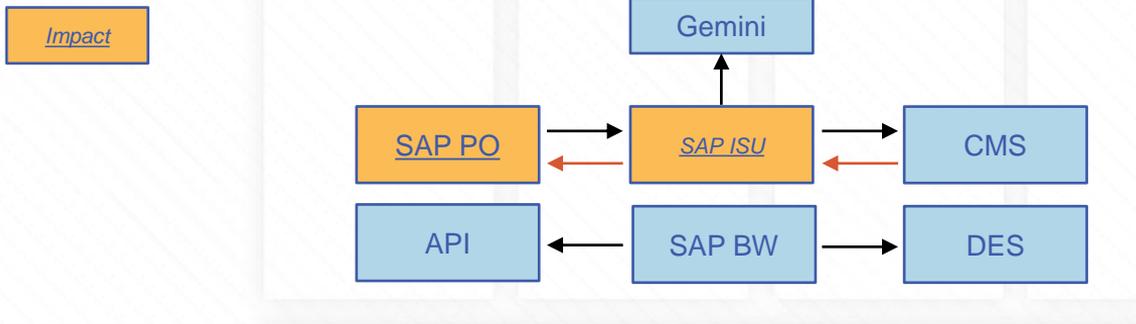
Interfaces will be built based on CSS interface specifications to send initial Registration Request to CSS and accept the Registration Sync and Registration Management Request Notification interface from CSS

SAP PO will process the outgoing and incoming requests. It will generate a delivery receipt acknowledgment to CSS on receipt of incoming sync messages. It will also accept acknowledgment from CSS for outgoing initial registration message.

SAP ISU will carry out the business validations and verify the Registration sync messages and in case of failures, rejection response will be sent to notify the CSS.

Gaining shipper will be notified in ASN (Association) file which will include settlement details if received.

Impacted Systems



Design Considerations & Assumptions

- Auto-confirmation process will follow the same process as confirmation
- All the auto-confirmation will have class4 as default value
- UK Link will send the initial registration message with effective date from D+2 days. Next slide will depict the timeline
- No nomination or confirmation will be sent for any CSS sites.
- Nomination shipper reference will start with 'Manual*' for identification

Overall Impact

High

Time Line Table

	Timeline		
	D	D+1	D+2
Activities	UK Link sends Initial registration request to CSS post Auto-Confirmation Job (After 10:30 pm) with effective date as D+2		
	CSS sends back Registration Request Notification and Registration Sync. Both are expected to come within few seconds of sending initial registration request		
	UK Link sends ASN with default values(if not BRN present) to shipper within 15 minutes of receiving Registration Sync		
		Shippers have time till 15:00 hrs to send a valid BRN if they wish to	
		UK Link will send back ASN based on any BRN shippers have sent	
			The switch will be live in CSS at 00:00 Hrs

D is the system date

Default Values for ASN

Following are some of the Key Fields that will be passed in default ASN

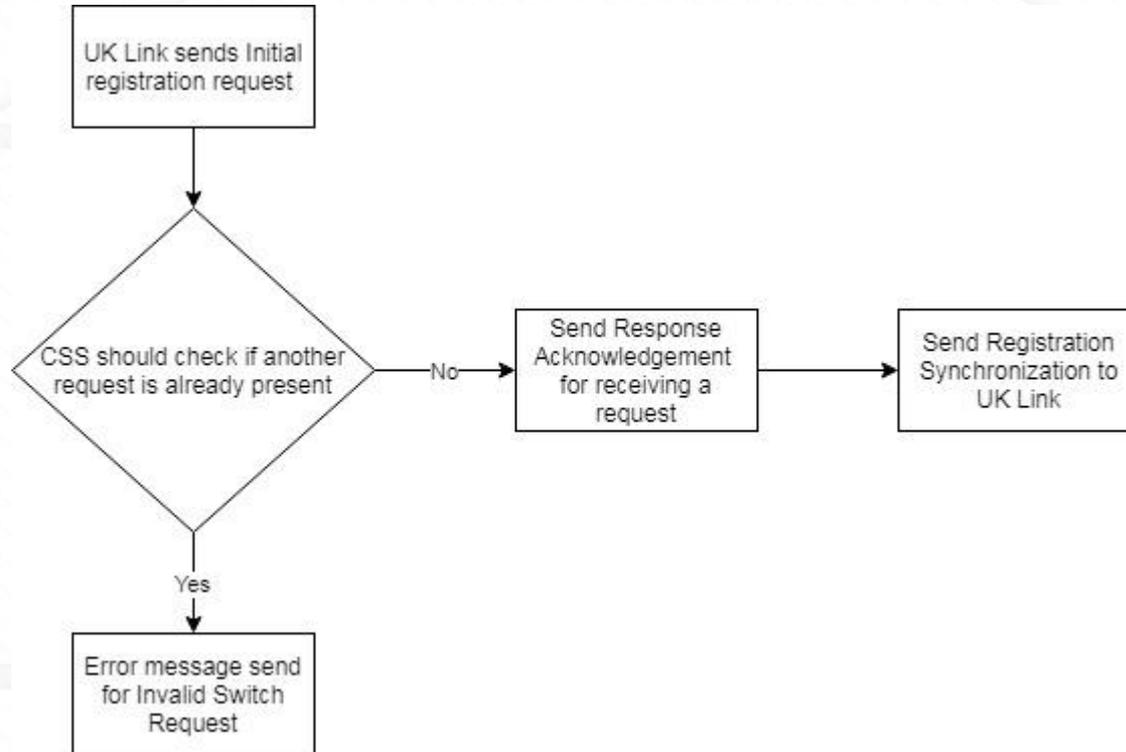
Segment	Content	Rule for Applying Default values
T99	MRF_TYPE_CODE	Use Monthly where AQ > 293000 kWh. Otherwise, Annual
T99	PREMISES_CUSTOMER_NAME	No default will be applied
T99	SHIPPERS_CUSTOMER_NAME	No default will be applied
T99	SUPPLIER_ORGANISATION_ID	For iGT sites this will be the value provided by the iGT at meter point creation. For GT sites this will be based on either the value provided via CMS or the previous recorded value will be used in line with the current process.
T99	MARKET_SECTOR_CODE	For iGT sites this will be the value provided by the iGT at meter point creation. For GT sites this will be based on the meter point AQ, D - Domestic where AQ < =73,200 and I – Industrial where AQ > 73,200 for new sites, else the previous recorded value will be used.
T99	SUPPLY_METER_POINT_CLASS	This will be defaulted to Class 4
T99	REQUESTED_DM_SOQ	N/A as will be defaulted to Class 4
T99	REQUESTED_DM_SHQ	N/A as will be defaulted to Class 4
T99	METER_READ_BATCH_FREQUENCY	N/A as will be defaulted to Class 4

System Impact Assessment

	SAP ISU	SAP PO
System Component:	SPA	Configuration
Development Type:	Code Change	Configuration Change
Impacted User(s):	Shippers & CSS Provider	Shippers & CSS Provider
Build Type:	<p><u>2 New Interface</u></p> <ul style="list-style-type: none"> CSS Webhook Interface – Registration Notification CSS Interface – To send initial registration request 	<p><u>4 New Interface</u></p> <ul style="list-style-type: none"> CSS Webhook Interface –Registration Request Notification CSS Interface – To send initial registration request
Change Description:	<ol style="list-style-type: none"> 1 New Webhook Interface to receive Registration notification New interface to send initial registration request 	<ol style="list-style-type: none"> 1 New Webhook Interface to receive Registration notification New interface to send initial registration request

Requirement Clarity:	A	A
Change Complexity:	A	A
Integration Complexity:	A	A
Test Data Prep Complexity:	A	A
Test Execution:	A	A
Regression Testing Impact:	A	A
Performance Impact:	A	A

High Level Flow Diagram





Bulk Transfers

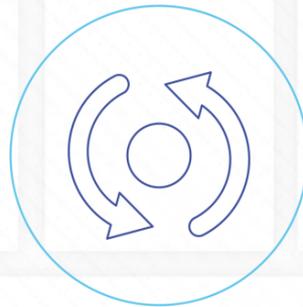


Bulk Transfers

- Any bulk transfers of a Shipper's and/or Supplier's portfolio (e.g. SoLR) will be managed by CSS.
- The standard interfaces will be used between CSS and UK Link to provide to relevant portfolio updates
- The standard switching and change of Shipper process will be followed by UK Link with all relevant files (ASN, TMC, etc.) being issued to Shippers



Future Topic Design Questions



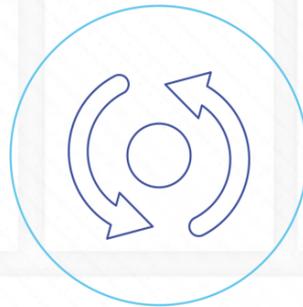
Data Enquiry

We are working on the following assumptions for DES changes:

- The REL data passed across the CSS interfaces may only be used for the permitted purpose under the licence with Ordnance Survey, which is defined as for the “purposes of enabling switching including (without limitation) for the purposes of design, development, testing, integration and live operational use”, therefore REL data is not planned to be included into the current DES screens.
- Different data access permissions will apply to switching data which may require new terms and conditions acknowledgment to be included.



Data Cleansing Update



Data Cleansing Update

Data Topic	Responsibility	Current Status (April)
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	First reports are due to be issued with your next plot to postal reports
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



Ofgem Programme Plan Roadshows

- Held on 8th & 9th August at Solihull & London respectively
- Wide range of industry attendees both electricity and gas; shippers, suppliers, 3rd party organisations
- The view was to share the overall programme plan and then have breakout areas ; one of which was for consequential change

Xoserve Consequential Change - Based on current planned activity

Aug 19 - Mar 20	Apr 20 - Sept 20	Sept 20 - Dec 20
Xoserve DBT	SIT	UEPT and E2E
<ul style="list-style-type: none"> Develop required changes Pre-integration testing 	<ul style="list-style-type: none"> Consequential change component testing for a volunteer group of Gas Licenced Parties in parallel to SIT Will require a quorum of organisations to be successful Work will continue to develop the detailed approach 	<ul style="list-style-type: none"> Parties to enter E2E and execute end to end scenarios
None	Medium - for volunteers None - for other parties	Medium

Anticipated Demand on Shippers, GTs, iGTs

Approach

- Xoserve will complete CSS SIT testing and consequential change (CC) testing in parallel with a select group of Participants to prove the UK Link CC changes

- Recommended that a minimum of 2 months CC testing would be required to enable 1 invoice run to occur. This could be front loaded

Outcome

- Full CC testing will take place in parallel to the SI led test phases of SIT and E2E (by virtue of the need to complete end to end scenarios e.g invoicing)
- Confirmation required as to how this will be coordinated

Key points

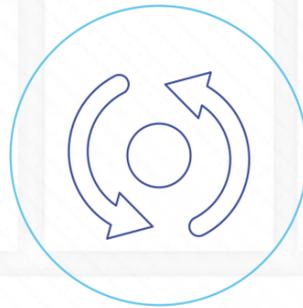
- Xoserve consequential change is the largest and, therefore, will be handled slightly differently to MPAS and ECOES to enable the industry the appropriate opportunity to test
- Potential for 2 phases of consequential change
 - Requirement for quorum of participants to take part prior to E2E
 - Protection of E2E
- Further discussions to take place on the best way forward with the industry, SI and Ofgem

Next steps

- First official Market Trials/Consequential change meeting arranged for 6th September 2019
 - Start collaborative discussions on consequential change
 - Alignment with the CSSIA through the SI and Ofgem
 - Invites to the members of the DSG initially, however, amending attendees as requested to ensure appropriate attendees
 - Future discussion will take place through the dedicated Market Trials Consequential Change meetings and not the DSG
 - Steps will be taken to ensure alignment across other Programme meetings such as the Testing Working Group and the Data Working Group and any required Programme governance is adhered to

xserve

A.O.B.



Future DSG CSSC Meetings and Proposed Topics

DSG Meeting		Provisional Agenda
7	04/09/2019	Data Enquiry
		Address Data
		Reporting
		File Formats and APIs
8	17/09/2019	<i>Contingency</i>