



# **Extraordinary DSG CSS Consequential Change**

7<sup>th</sup> March 2019

# Agenda

- High Level Design Overview / Playback
  - Revised Heat Map
  - Updated External BRD Overview
- 630R Update
  - Opening Meter Readings
- Detailed Design Overview and Next Steps



# **High Level Design Consequential Change Overview**

# Heat Map Assessment – High Level Design Analysis

## UK Link

- Disable switching functionality for sites in scope of CSS
- Retention of switching functionality for sites out of scope of CSS (e.g. NTS)
- Include new data items & interfaces
- Modification & decommissioning of existing interface files to Shippers

## DES & BW

- Real time replication of data into BW
- Inclusion of new data items (REL, Switch Status)
- Inclusion of new interfaces, screens & access controls
- Definition of solution options to meet NFRs

## Data

- **Cleansing**
- Shipper-Supplier relationship
- Address Data
- Supplier ID association
- **Build of new data items**
- MAP ID, REL, Switch Status
- **Migration to CSS Provider**
- Impacts to Transformation & Validation to be assessed when solution known

## Comms Networks

- IX install required should electricity Suppliers chose IX
- IX installs required for CSS Provider
- Message Routing

## Gemini

- Modification of processes from D-2 to ~D-7 hrs and their impacts
- Engagement with stakeholders on impacts to their processes and subsequent impact to Gemini

## MIS

- Real time replication to MIS database from DES/UK Link
- Inclusion of new data items (REL, Switch Status)
- Inclusion of new APIs

## NFRs

- Infrastructure /architectural changes (1 hr RTO requirement)
- Realignment of batch processing timelines
- Current requirements have perceived gaps/inconsistencies

## Processes

- Maintain Gas Industry Stakeholders
- Maintain Supply Point Meter Register
- Predict, Allocate & Balance Daily Energy
- Settle Meter Point Consumption
- Invoice & Collect Charges



## CMS

- High Level Design continues to hold the position that CMS is not impacted

## Operation

- Business Change – Process changes, new exceptions
- Transitional arrangements – Process Definition
- Service Management – scope impacts

### Complexity Levels:

-  Not Impacted
-  Low
-  Medium
-  High

# Stakeholder Management

- The CDSP will master the gas market participant data, details of which are defined within the new Retail Energy Code, and will be responsible for the provision and maintenance of the gas stakeholder data to the new CSS service provider and REC code manager. This will continue to include the following role types that are required to support the new switching processes:
  - Gas Shippers
  - Gas Suppliers
  - Gas Transporters (including gas distribution network operators, independent gas transporters, etc.)
  - Meter Asset Managers (MAMs)
  - Meter Asset Providers (MAPs)
- The CDSP shall be responsible for maintaining the MDD Market Participant List.

# Supply Meter Point Creation

- The Supply Meter Point creation process will continue to operate within UK Link as per the current processes.
- The CDSP will be responsible for the synchronisation of all required Supply Meter Point data elements to the new CSS provider for all meter points that are within scope of the Central Registration Service.
- The synchronisation will be over a new Supply Meter Point Sync interface message between UK Link and CSS.

# Nomination Enquiries

- A proposing Shipper may continue to submit a Nomination Enquiry Request, as per the current process and file, independently to a CSS registration to enable them to obtain information for a Supply Meter Point.
- In addition to the current file based process the data will be made available via an alternative technologies allowing for quickly access to the meter point data (e.g. via an API service).

## 2. Nomination Enquiry Process via new API service or existing File

Shippers can send the enquiry file via API or can send the same way as they are doing today. UK Link will allow the proposing Shipper to submit S47 segment to obtain the Supply Meter Point details. All the current validations will be applied on S47 segment.

Impacted Systems
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- |                |
|----------------|
| Overall Impact |
| Medium         |



# Nomination Process

- An equivalent of the current Nomination process will continue to be utilised to support requests for Network Assessment (i.e. Referrals) for large supply points. Network Assessment is required for changes/requests for the following example scenarios:
  - Capacity changes (SOQ and SHQ)
  - Seasonal capacity requests
  - Supply Meter Points requesting the Optional Commodity Tariff (Shorthaul)
  - Network Exit Agreements (NExAs)
- Changes to the NOM file format will be required and will be finalised during detailed design.
- The nomination process will no longer be a mandatory requirement for large supply points and this process will operate independently to a CSS registration.

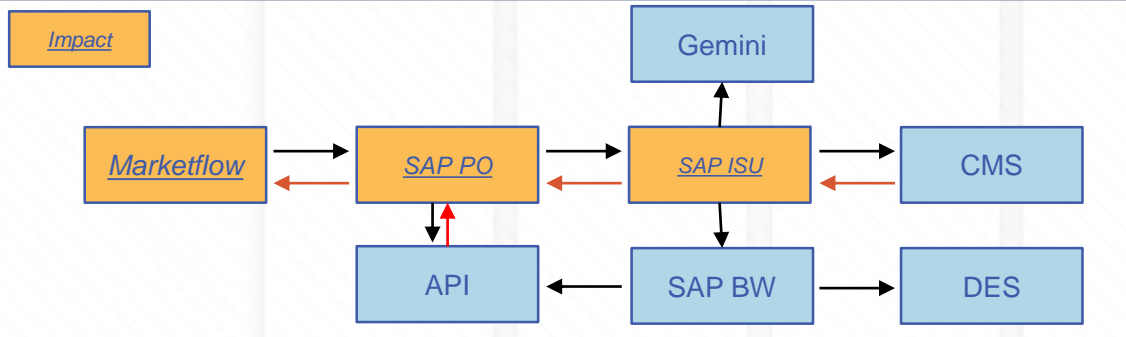
# Nomination Process - High Level Change Overview

## 1. Nomination Process

UK Link will still need to allow for a proposing (or current registered) Shipper to submit a Nomination Request (NOM) independent of a switch request to enable the transporter to assess the impact on the changes where necessary.

Potential changes to File format with respect to withdrawal flag sent in the Nomination offer (S64 segment) are anticipated.

## Impacted Systems



## Assumptions

- No Impacts to Nomination cancellation process
- UK Link will send the relevant notifications to the DMSPs(GCC file) that is currently issued at Nomination.
- A Shipper can still send multiple Nomination request.
- All Nomination validations will continue to be As Is.
- Batch processing schedule might change

## Overall Impact

Low

# Initial Registration

- The initial registration of a meter point will be undertaken by the relevant gas Supplier via the new CSS process.
- CSS will provide synchronisation messages to UK Link to advise of the incoming initial registration.
- This will follow the same logical process as the Change of Supplier process.

# Change of Supplier and Shipper

- The registration of a meter point will be undertaken by the relevant gas Supplier via the new CSS process.
- CSS will provide synchronisation messages to UK Link to advise of the incoming registration, and will provide status updates through the registration lifecycle.
- All change of Supplier notifications from CSS will be treated in a similar way to a current confirmation / re-confirmation process.
- A unique confirmation reference number will continue to be maintained within UK Link for each Shipper confirmation period, this will be generated for each change of Supplier and/or Shipper event.

# Change of Supplier and Shipper Notifications

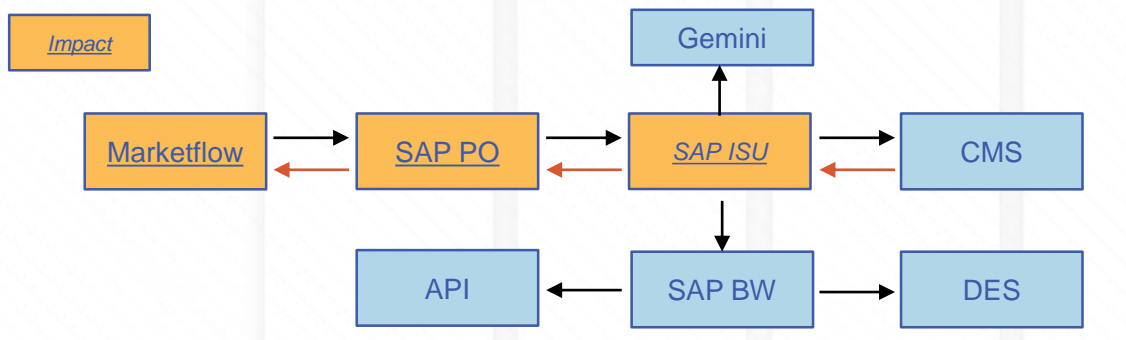
- Following the receipt of a registration sync message with a “validated” registration status from the CSS, a new notification will be issued to the incoming / proposing Shipper. This is expected to be similar to the current CFR file format
- Following the receipt of a registration sync message with a “secured” registration status from CSS, post 5pm on D-1, a new notification will be issued to the incoming / proposing Shipper. The notification issued is expected to be a consolidation of the current TRF, MRI and PAC file formats.
- Following the receipt of a registration sync message with a “secured” registration status the CDSP will continue to issue a file to the outgoing / losing Shipper, this is expected to be similar to the current TRF file.
- The actual content of these notifications will be finalised during detailed design.

# Validate Notification - High Level Change Overview

## 2. Registration Sync for VL Status - New interface for Gaining Shipper notification

New Registration Sync interface will be build to notify any switching triggers from CSS system to ISU via Marketflow  
Marketflow is expected to generate a delivery receipt acknowledgment to CSS on receipt of these sync messages  
Once received at ISU, validations will be performed to verify the Registration sync messages and in case of failures, rejection response will be sent via new interface to notify CSS  
If Validation is successful, switch will be created with VL status in ISU and gaining Shipper will be notified in new file format which will include settlement details if received or default values that will be applied.

### Impacted Systems



### Assumptions

- CNF will no longer be used to receive a switch request except for NTS sites. If received will be rejected
- Supplier sync without Shipper change will be treated as reconfirmation process
- If no settlement details received, new interface will be sent based on agreed default values
- Registration sync will be validated at ISU, if failed, rejection will be notified to CSS (VL)
- Losing Shipper will not be notified on validated sync
- Objection/Annulment window will be managed by CSS

### Overall Impact

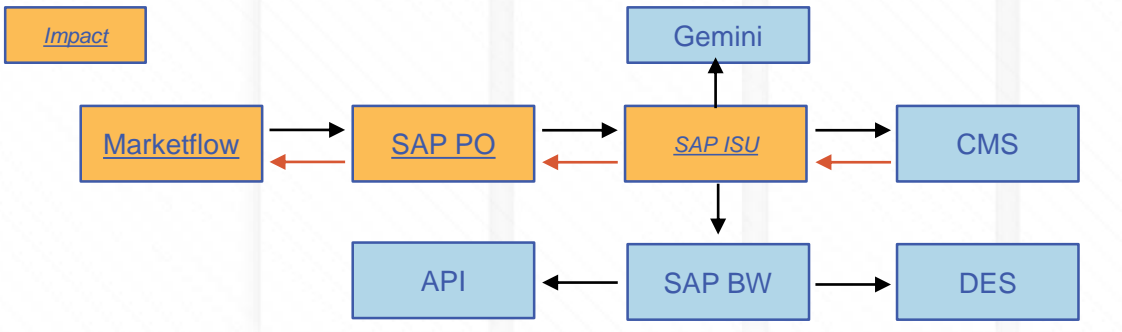
High

# Secured Notification - High Level Change Overview

## 2. Registration Sync for SC Status - New Interface to combine existing files and remove redundant information

Registration Sync interface will be built to notify any switching triggers from CSS system to ISU via Marketflow. Marketflow is expected to generate a delivery receipt acknowledgment to CSS on receipt of these sync messages. Once received at ISU, validations will be performed to verify the Registration sync messages and in case of failures, rejection response will be sent via new interface to notify CSS. Irrespective of warning notification, switch document will be updated to Secured status in ISU and New File format will be developed to combine the notifications sent to gaining Shipper for TRF/MRI/PAC files along with details for settlement details and losing Shipper will be notified in TRF file with ceased responsibility.

### Impacted Systems



### Overall Impact

High

### Assumptions

- Last sync message from CSS will be received no later than 18:00 hrs
- Registration sync will be validated at ISU, if failed, warning will be issued to CSS (SC) with rejection but switch will go live
- UKLink will receive the sync messages in sequence and processes these in batches
- Batch schedule need to be reviewed
- Transportation rates will be derived based on default values if settlement details are not received by Shipper or rejected on re-validation at the time of secured

# Change of Shipper Only

- The Shipper registration process will transfer to CSS for meter points managed by the new Central Registration Service, and will no longer follow the current confirmation process.
- The process followed will align to the change of Supplier and Shipper process.
- Following the receipt of a registration sync message for a change of Shipper registration event from the CSS, a new notification to the incoming Shipper in line with the validate registration sync notification for a Change of Supplier.
- Post 5pm on D-1, the CDSP will issue a new notification to the incoming Shipper in line with the secured registration sync notification for a Change of Supplier.

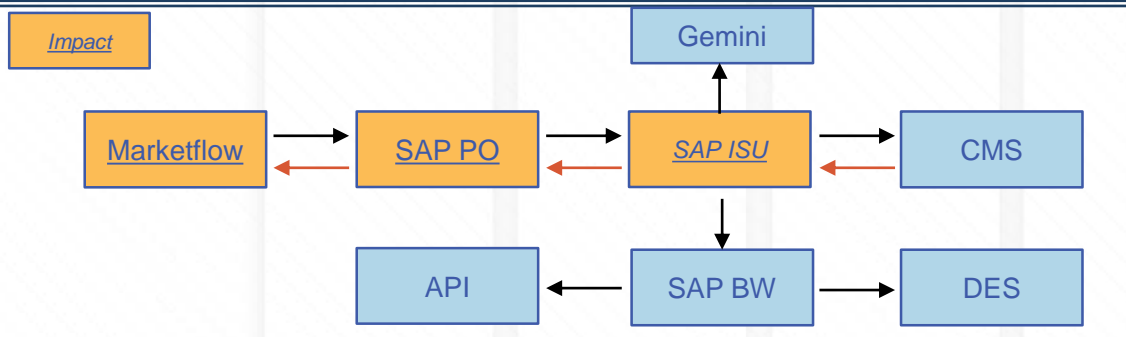


# Initial Change of Shipper Notification - High Level Change Overview

## 2. Notifications on Receipt of Change of Shipper Event Sync - New interface for Gaining Shipper notification

New Registration Sync interface will be build to notify any switching triggers from CSS system to ISU via Marketflow  
Marketflow is expected to generate a delivery receipt acknowledgment to CSS on receipt of these sync messages  
Once received at ISU, validations will be performed to verify the Registration sync messages and in case of failures, rejection response will be sent via new interface to notify CSS  
If Validation is successful, switch will be created with effective date in ISU and gaining Shipper will be notified in new file format inline to the CSS switching requirements which will include settlement details if received or default details that will be applied.

### Impacted Systems



### Assumptions

- CNF will no longer be used to receive a switch request except for NTS sites. If received will be rejected
- Offer will not be mandatory for LSP sites
- If no settlement data received, CFR will be sent with transportation rates derived based on default values
- Registration sync will be validated at ISU, if failed, rejection will be notified to CSS
- Losing Shipper will not be notified on receipt of change of Shipper sync
- Change of Shipper cancellation sync will be received before gate closure

### Overall Impact

High

# Confirmed Change of Shipper Notification - High Level Change Overview

## 2, Notifications post Gate Closure on D-1 - New Interface to combine existing files and remove redundant information

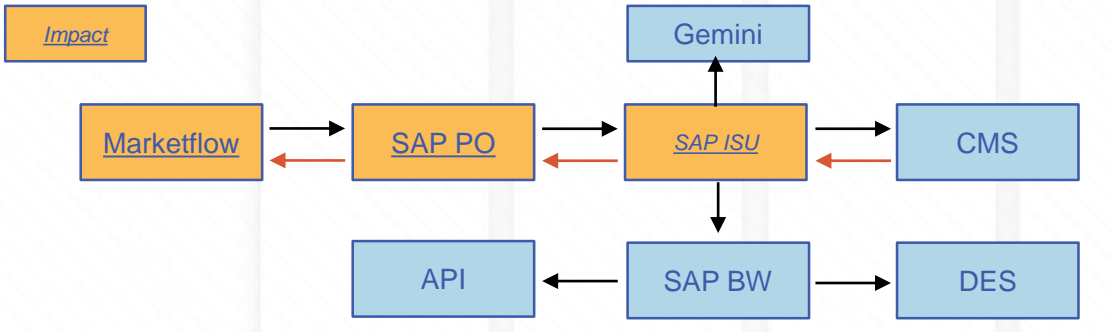
On D-1 post gate closure, gaining Shipper will be notified with New File format which will be developed to combine TRF/MRI files along with any details for settlement data.

Losing Shippers will be notified in TRF file with ceased responsibility.

CSS will not send any Change of Shipper sync messages post receipt of request, except for Shipper cancellation sync.

Change of Shipper will go effective from the date provided on Change of Shipper Event Sync.

### Impacted Systems



### Assumptions

- DMSPs will be notified for DM switch via GCC inline to existing business rules
- UKLink will not receive any sync messages on Gate closure
- Batch schedule will be changed to manage the smooth file flows post gate closure
- Settlement details are not mandatory
- Transportation rates derived based on default values will be sent if settlement details are not received by Shipper or rejected on re-validation at the time of gate closure
- No change anticipated for Losing Shipper notification

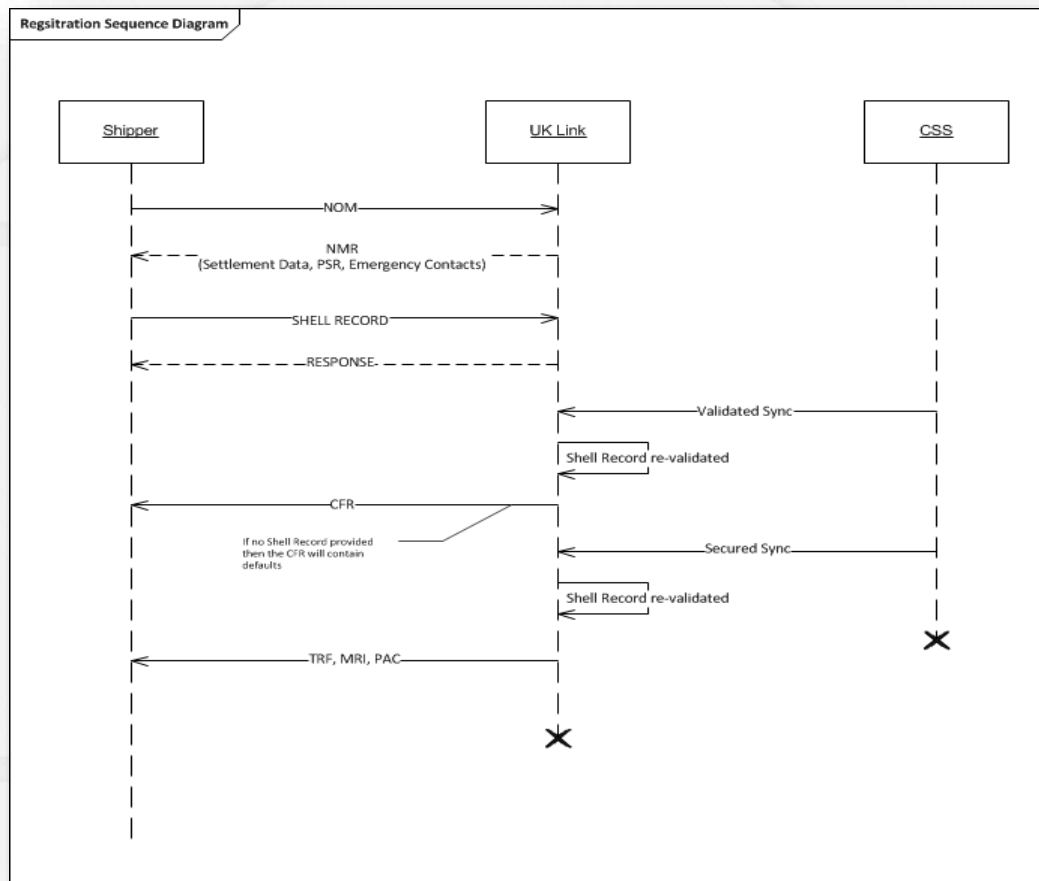
### Overall Impact

High

# Change of Supplier Only

- The Change of Supplier only process will follow the same process as the Change of Supplier and Shipper process.
- All Change of Supplier notifications from CSS we be treated in a similar way to a current re-confirmation process.

# Registration Process – Sequence Diagram



# Provision of Settlement Details

- The CSS registration process does not include all of the information that is required by UK Link (and currently provided as part of the current Nomination and Confirmation processes, for example Settlement Class, MRF, SOQ and SHQ), as a result the gaining Shipper will still have the responsibility to provide all required Settlement Details for their registration period.
- The settlement details will be provided via a new interface / file format to UK Link. The finalisation of the data items will be completed during the detailed design phase of the project.
- The Settlement Detail Notification may be submitted by a Shipper in advance of the Supplier submission of the Registration Request to CSS, but should be submitted prior to the registration becoming secured.

# Default Settlement Values

- Where the Settlement Details are not provided by the gaining Shipper, or the CDSP has been unable to create this association, a set of default values will be applied. The proposed business rules for default are defined below:
- **Settlement Class** – If currently Class 1 and AQ is above 58,600,000 kWh then the meter point would remain as Class 1 else it will be defaulted to Class 4.
- **DM SOQ / DM SHQ** – The previous Shipper's values will be carried forward.
- **Meter Read Frequency** – This will be derived based on the prevailing AQ value in line with existing UNC rules.
- **Seasonal LSP Data** – Will be carried forward if registration is effective prior to the anniversary of SLSP being effective.
- **Optional Transportation Rates** – This will not be carried forward and will cease to be applied.
- **PSR / End Consumer Details** – This will not be carried forward to the new registration period.
- **LSP Emergency Contact Details** – These will continue to be provided to the Transporter in relation to the new registration, but will not be visible to the incoming Shipper.

# Settlement Data Provision - High Level Change Overview

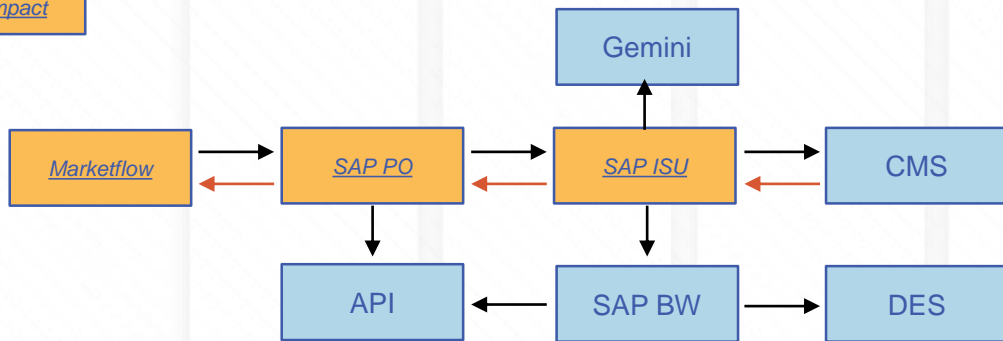
## 1- New Batch interface for Settlement details (AKA Shell record)

As part of the solution, two new file based interfaces will be built Interface 1: to receive the settlement details from shippers via Marketflow and Interface 2: to send the responses back to shippers via Marketflow. In case of multiple settlement details being sent the latest valid data will be applied when the secured sync message is received from CSS. In case of no settlement details received from shipper when the secured sync is received, default settlement details will be applied based on the rules defined. Settlement details will be validated on receipt and re-validated when switch is secured; response will be sent to shipper only if validation fails (Rejection).

Matching / linking will be based on MPRN, Shipper and Supplier, and if provided the CSS Registration Identifier.

### Impacted Systems

Impact



### Overall Impact

Medium

### Assumptions

- If settlement details has transporter Nomination reference, offer data will take precedence in calculation of transportation rates.
- If no settlement details are received by UK Link from shipper, offer details will not be applied.
- Proposal for 3:00 PM cut off to receive settlement details.
- Rules for the application of settlement details will be defined for all the possible switching scenarios and site types.
- Settlement details may be received after switch Validation (VL), hence the notification will have rates calculated based on default values which are subjected to change till the status is changed to Secured (SC).
- Latest Valid settlement details received will be applied when switch is secured.
- File Formats and Validity Period of Settlement details will be received before DD Phase.

# Transporter Forced Registrations

- The CDSP will continue to monitor both iGT and GT Supply Meter Points under the current rules to ensure that where required a Shipper Confirmation is in place. This includes, for example, the initial Shipper registration on iGT sites following the first meter installation, and forced confirmations following a gas safety regulations visit undertaken by gas transporters.
- The current processes will change to remove the automatic Shipper confirmation of these sites, and will be updated to trigger a Supplier registration within the new Central Registration Service, as per the rules defined in REC.

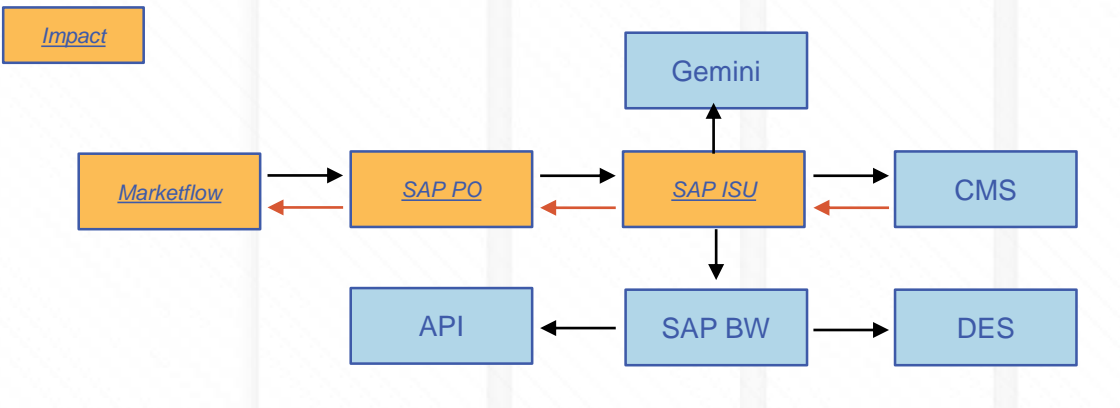


# Force Registration - High Level Change Overview

## 1. Forced / auto confirmation update sync to CSS and response from CSS

Any forced/Auto confirmation updates will be notified from UK Link to CSS via new interface and CSS will then initiate Registration Sync request to UKLINK. This will be a cyclic update from UK Link to CSS

### Impacted Systems



### Overall Impact

Medium

### Assumptions

- Forced Confirmation will be handled by CSS for any sites in scope based on existing UKLink business process
- LPG registration will be done via CSS
- Confirmation effective dates will be inline to faster switching timelines for domestic and non-domestic sites
- UKLink will continue sending SWN files for unregistered iGT sites
- If rejected, response is expected from CSS on back of these new interfaces and detailed validations will be defined before detail design phase
- This is not a real time update to CSS from UKLink

# Opening Meter Reading Provision

- A gaining Shipper will continue to provide opening reading data on the back of a secured switch or change of Shipper event, and where not provided UK Link shall continue to generate an estimated reading.
- No changes are expected in relation to the provision of opening readings for Settlement Class 1 and Class 2 meter points, and the existing rules will prevail.
- For Settlement Class 3 and Class 4 meter points the rules agreed within the 630R Workgroup will be applied (see later slides)

# SPA Updates

- Shippers will continue to provide the relevant SPA updates into UK Link as per the current obligations, with the exception of the Market Sector Code which will be maintained via CSS
- The key change will be around the validation that is provided in when updates are provided by an incoming shipper
  - Current rules that utilise a Confirmation Status of RQ or CO will need to be updated to align to the new CSS switch statuses:
    - RQ = Validated or Confirmed
    - CO = Secured

# SPA Updates - High Level Change Overview

## SPA Updates

**Capacity Referrals** - A process to support capacity referrals through to networks via SPC file will continue as is for shippers to request change in the capacity values outside the defined ratio.

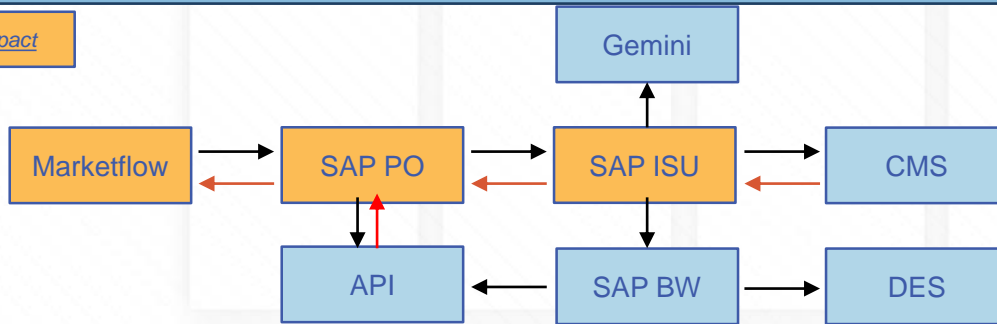
**Emergency Contact Details** - Shippers will be able to send the emergency contact details to UK Link outside of the switch event via EMC files as per current process.

**Priority Service Details** - Shippers will be able to send the priority service register details to UK Link outside of the switch event via CNC files as per current process.

**MAM updates** – MAM file received from an incoming shipper in relation to their pending registration prior to the switch status being updated to 'secured' (equivalent of current world 'CO') should be rejected and not applied in UK Link.

## Impacted Systems

*Impact*



## Assumptions

- SPA amendments can be received as part of the switching process
- Existing MAM stakeholder process will remain as is in UK Link
- No file format changes to CNC, CNR, EMC, MAM, MAS, NOM, SPC & SCR files
- Batch processing schedule will change

## Overall Impact

Low

# Market Sector Code Updates

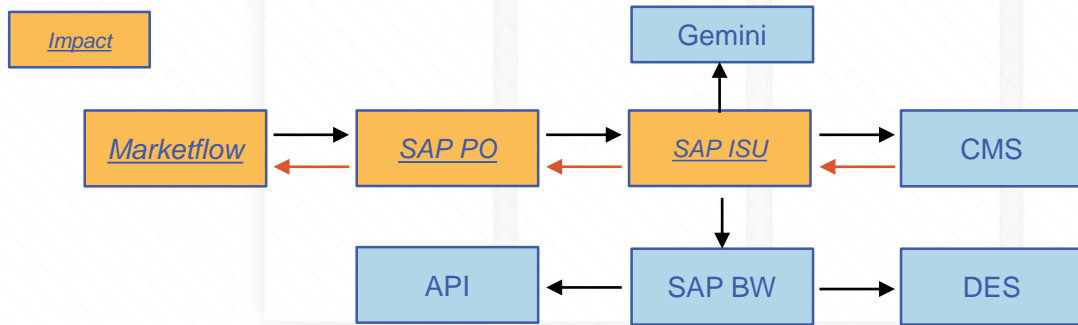
- Where this is a change to the Market Sector Code outside of the switching process then an outbound MSO file will be issued to the registered Shipper when the new Market Sector Code become effective (based on the effective date provided by on the CSS registration event sync message).
- Where there is a change to the Market Sector Code as part of the switching process no outbound MSO notifications will be issue to Shippers and the update will be provided directly by CSS as part of their registration notification messages.
- For all sites out of scope of the new CSS switching process (currently limited to NTS sites) the Market Sector Code will be defaulted to I – Industrial and therefore the existing MSI file will be decommissioned.

# Market Sector Code (MSI) - High Level Change Overview

## 2a. Decommissioning of Current Market Sector Code Updates - MSI file to be decommissioned for NTS sites

Given the sites which are out of scope of CSS are NTS only which are very high consumption class 1 sites, its unlikely that market sector code will be changed to Domestic and hence, following the implementation of the CSS, proposal is to decommission MSI files for market sector code updates from shippers.

### Impacted Systems



### Overall Impact

Low

### Assumptions

- MSI file received after CSS implementation will be rejected
- Batch jobs for processing of MSI files will be decommissioned
- Interface in PO will be disabled
- For all sites out of scope of CSS, market sector code will defaulted to 'I' (Industrial) during creation or registration process

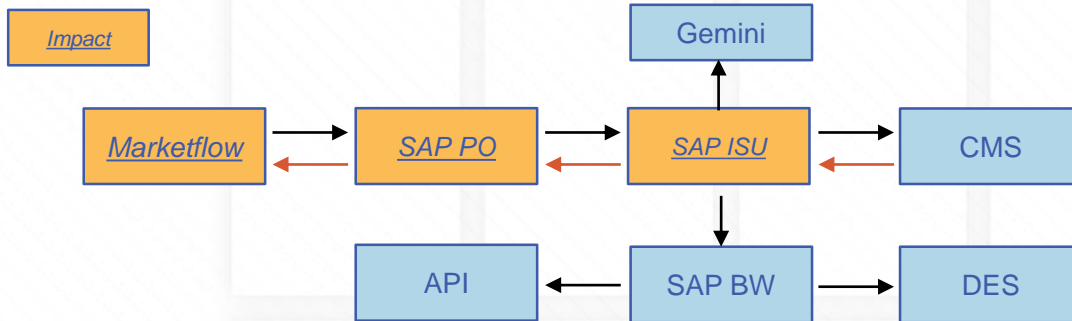
# Market Sector Code (MSO) - High Level Change Overview

## 1b. Change of Domestic Indicator event Notification to Shippers - MSO change effective date (No change in File Format)

UK Link system must allow for an update to the Domestic Indicator with an effective date within the current shipper ownership period. Retrospective updates can only be received as part of Change of domestic indicator event through Registration sync message and not via Registration sync for supplier switching.

On successful validation of the event message, no response will be sent to the shippers immediately but MSO file will be sent to the existing shippers on change effective date to notify them of the domestic indicator change. If the requested date is retrospective, effective date will be defaulted to system date and MSO will be sent immediately.

### Impacted Systems



### Overall Impact

Low

### Assumptions

- Retrospective updates will be effective immediately from system date and cannot be cancelled
- MSO files will only be sent once the domestic indicator change is effective in ISU system
- Future effective change of domestic indicator requests can only be cancelled with subsequent sync message from CSS
- ISU system will maintain a log of all cancelled requests
- Portfolio files will be sent on the next day of effective date of domestic indicator change
- CFR equivalent or TRF equivalent will not be sent as part of this update request
- Complexity to design Registration event sync interface is excluded from overall impact

# RMP Status Mapping

- As part of the synchronisation of Supply Meter Point data to CSS UK Link is expected to provide the details of the RMP Status.
- The RMP Status will be derived from a combination of the Supply Meter Point status and Meter Isolation status.
- Where there is a change in the RMP status UK Link will notify CSS of the updates



# Mapping of UK Link RMP Status to CSS RMP Status

Meter Point Status (status of the service pipe)	Isolation status (the ability of meter to pass gas)	RMP status (as held by CSS)
LI	N (or blank)	Operational
LI	Y	Dormant
CA or CL	N (or blank)	Operational
CA or CL	Y	Dormant
DE	N (or blank)	Terminated
DE	Y	Terminated
EX	Y	Terminated
EX	Nil value	Terminated

# RGMA Updates

- Any RGMA updates received from a gaining Shipper in relation to their pending CSS initial registration prior to it having a “Validated” status (as notified by CSS to UK Link) will be rejected and therefore not applied in UK Link as per the current process. The current rules for sites not being in-scope of the central switching service will remain unchanged.
- Any RGMA updates received from a gaining Shipper in relation to their pending registration (switch) request prior to it having a “Secured” (as notified by CSS to UK Link) will be rejected and therefore not applied in UK Link as per the current process. The current rules for sites not being in-scope of the central switching service will remain unchanged.

# RGMA Updates - High Level Change Overview

## RGMA Updates

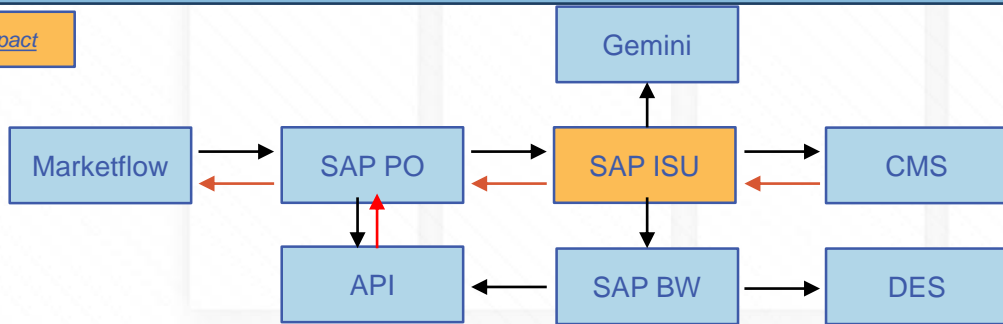
Post CSS implementation, there is no change anticipated in any of the RGMA flows or business processes except for aligning the inbound files (ONJOB/ONUPD) validations with respect to new supplier switching statuses e.g. Validated, Confirmed and Secured received as part of Registration sync message from CSS.

**RGMA Updates for Initial Registration** – RGMA flow received from an incoming shipper in relation to their pending initial registration request prior to switch status updated to validated should be rejected and not applied in UK Link

**RGMA Updates for Switch** – RGMA flow received from an incoming shipper in relation to their pending registration (switch) prior to the switch status updated to secured should be rejected and not applied in UK Link

## Impacted Systems

### Impact



## Assumptions

- The RGMA update will be accepted for current Shipper ownership period
- CSS will not be notified in case of any changes to the Meter install date from that of switching effective date
- No changes to the current back billing rules, they will be applied as current BAU rules
- No file format changes to ONJOB, ONUPD , CDN DRS or PAC files
- Change of market sector code received as part of RGMA flow will not applied in the system

## Overall Impact

Low

# Shipper Withdrawal Process

- For meter points managed by CSS, the Shipper withdrawal process will cease and a deactivation of the registration will need to be requested by the registered gas Supplier via the new CSS processes. These updates will then be synchronised to UK Link by CSS.
- Following the receipt of a synchronisation message from CSS, the Shipper and Supplier registration updated will be processed as per the current Shipper withdrawal process.
- The Losing Shipper will continue to be notified of their ceased responsibility as per the current process.

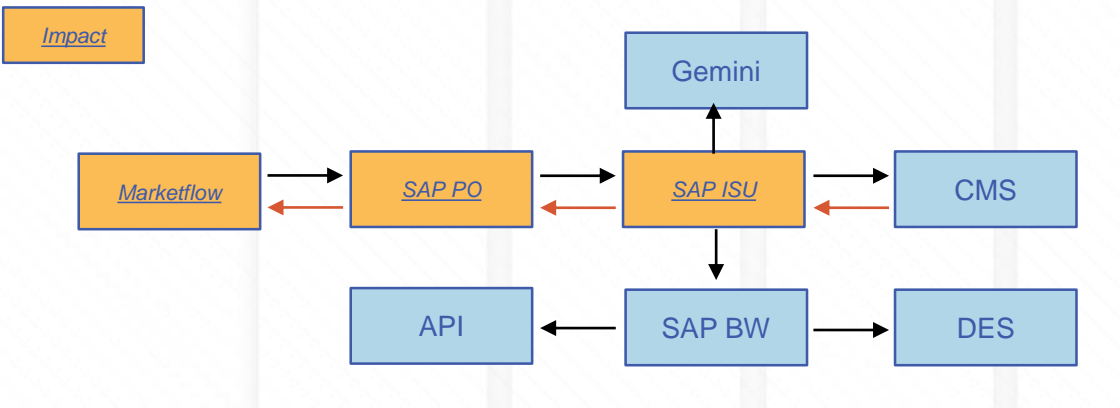
# Shipper Withdrawals - High Level Change Overview

## 1. Shipper Withdrawal Process

On change of any RMP Status (to Dormant or Terminated), UK Link will notify CSS via new interface 'SupplyMeterPointSync'.

The energy supplier can then initiate the deactivation of their registration via the CSS process, this will trigger the registration sync message to update the status of the current supplier (and shipper) registration to "Inactive".

## Impacted Systems



## Assumptions

- WAO files will no longer be used to trigger Voluntary Withdrawal except for NTS sites
- WOR will not be triggered as part of CSS inactive registration sync
- Losing shipper will be notified for ceased responsibility
- CSS RMP statuses will be derived at run time based on the mapping structure defined within UK Link
- If Rejected, response is expected from CSS on back of these new interfaces and detailed validations will be defined before detail design phase

## Overall Impact

Medium

# Address Updates

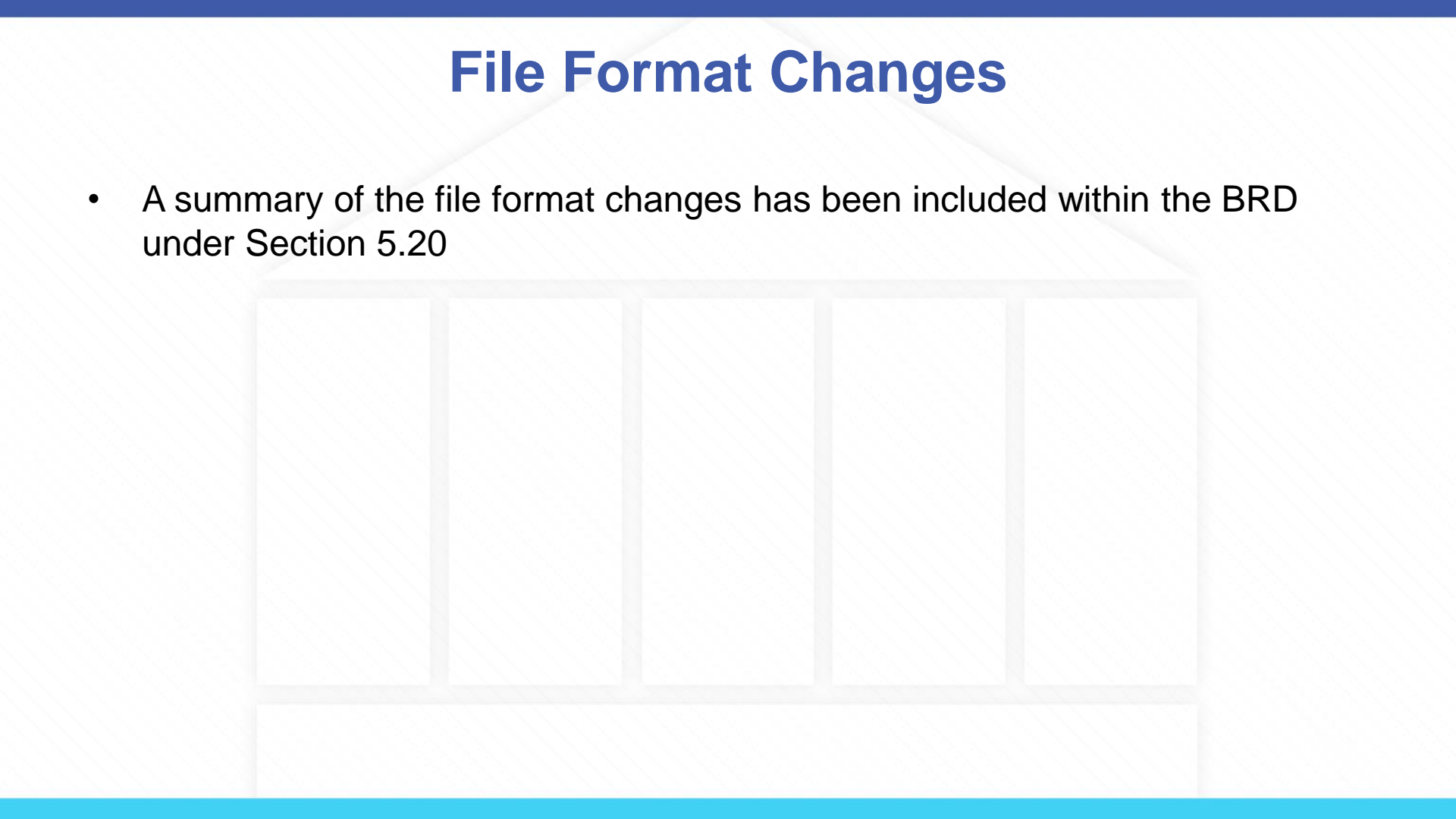
- No changes will be made to the current meter point address update process.
- Where there is a change to the meter point address held for a meter point in UK Link the changes will be synchronised to CSS.

# Data Provision

- Where there is opportunity to provide an API alternative to a file format this is being considered and will be finalised during detailed design.
- An API data structure should be based on reusable data objects representing business recognisable entities.
- Where appropriate data structures sent through will be self validating reducing delays in processing data due to rejections.
- Where possible and beneficial API messages may be processed near real time.

# File Format Changes

- A summary of the file format changes has been included within the BRD under Section 5.20








# **630R Workgroup Update**

## **6<sup>th</sup> March 2019**

# Content of the Presentation

- Update to RDUG – For Information
  - Progress / High Level Overview of Impacted Areas
- Conclusion of Topics
  - Opening Meter Readings
  - Treatment of Change of Supplier Only Switch Requests
  - Receipt of Data by Shippers in advance of being the Registered User
  - Treatment of Large Site Contact Details
- For Information
  - MAP Id - Update
  - Market Domain Market Participant Identity Process migration to UNC – Impacts to UNC
  - REC Enquiry Schedule
- Topics previously Concluded – Not included in this Slide Deck
  - UNC Transactions Removed
  - Changes to SPA Amendment functionality
  - Default Settlement Values

# **Energy Networks Association**

## **Overview of Amendments to the UNC as part of the 'Faster Switching' SCR**

25th February, 2019

# Introduction

- On target for completion by end March 2019.
- Legal resource provided by Dentons.
- Information provided to industry parties through UNC 0630R Review Workgroup (UNC governance).
- Limited consultation with Shipper Users through 0630R.
- Informed (limited) by discussion in DSG extraordinary sub-group of the DSC.
- Regular (monthly) inter GT/Xoserve Workshops.

# Overview of Amendments to UNC Drafting

- Registration for Supply Meter Points in scope of CSS will be mastered in CSS, the new drafting reflecting that the Registration Events will occur based upon transactions initiated in CSS (CSS Supply Points).
  - Some Supply Meter Points remain out of scope of CSS, UNC drafting retained for registration for these Supply Points (Non CSS Supply Points) – i.e. Nomination / Confirmation processes.
- Changes therefore primarily to the following Sections:
  - TPD Section G – Supply Points.
    - Section G has been restructured due to changes necessary for Supply Point Registration via CSS for majority of Supply Meter Points.
- Other changes are necessary to other sections, for example
  - TPD Section B – System Use and Capacity.
    - Supply Point Nomination and Capacity changes, including incorporation of existing Capacity processes (from Section G).
    - Amendments to reflect changes for CSS Supply Points being initiated by CSS.
  - TPD Section M – Opening Meter Readings.
    - Changes are being defined to the rules for obtaining and submitting Opening Meter Readings at transfer
  - Others – under review.

## TPD Section G

- Amendments to the structure:
  - G4 - Supply Point Registration – Generic Rules.
  - G5 – Supply Point Registration - CSS Supply Points.
  - G6 – Supply Point Registration - Non CSS Supply Points.
- For CSS Supply Points UNC therefore needs to consider:
  - Creation of the Registered User, based upon transactions initiated in CSS.
  - Association of Shipper 'Settlement Details' to the Registration – 'Shell Record' - [Base Registration Nomination].
    - Creation of a time by which Shipper Settlement Details must be received in order to be applied.
  - Treatment of Capacity Referrals to Networks – how Shippers can select DM Capacity and other specific products – e.g. Seasonal – [Referable Registration Nomination].
  - Settlement Data Defaults to apply in the event that CDSP doesn't receive Settlement Details from a party.
  - Removal of specific UNC processes for CSS Supply Meter Points where this is redundant due to CSS:
    - Withdrawal – Replaced by Supplier led 'Deregistration' process in CSS and Retail Energy Code (REC).
    - Objection – Replaced by Supplier led 'Switch Request Objections' process in CSS and REC.
    - Confirmation Cancellation – Replaced by Supplier led 'Withdrawal' process in CSS and REC.

## TPD Section G (continued)

- Release of data to Prospective Shippers – including where the Shipper has not provided a transaction under UNC.
  - Dealt with in Annexes to define which aspects of the Supply Point Register that the CDSP can make available in relation to receipt of either:
    - Synchronisation Messages from CSS identifying the Prospective Shipper.
    - Receipt of Valid [Base Registration Nomination] – Shell Record – from a Prospective Shipper.
  - Other Annexes consider default values / existing Supply Point Amendment functions.
- Since registration is initiated under CSS by the Supplier, the Shipper provides to the CDSP the Suppliers which may initiate registration (Supplier-Shipper Association Data).
  - UNC considers the receipt of data from Shippers to CDSP.
  - REC places the obligation on the CDSP to pass this to the CSS Service Provider.
- An equivalent obligation will exist for CDSP to pass Shipper-Transporter Association Data.

## TPD Section M

- Discounted changes to RGMA processes.
- Necessary changes to Opening Meter Reading – changes under consideration to reduce impacts of Faster (and more frequent) Switching timescales.
  - Window within which a Reading can be obtained will be reduced from D-5 to D+5, so it is obtained on D.
  - Changes to Read Submission Deadline for Opening Reading (or an Actual to prompt the Estimated Opening Meter Reading).
  - When an Estimated Opening Meter Reading is generated.





**Topic for Conclusion - Opening Meter Readings**

# Business Rules – Opening Readings

- We are seeking to avoid instances of negative consumptions
  - Specifically the existing Opening Reading Window of D-5 to D+5 creates this risk for Actual Meter Readings generating negative consumptions
- Class 1 and 2 are not impacted.
- Class 3 and 4 impacted – since it is expected that there is [increased] commonality between Opening Meter Reading principles for these Classes.

# Existing Business Rules – Reading Window – (Unchanged 06/02)

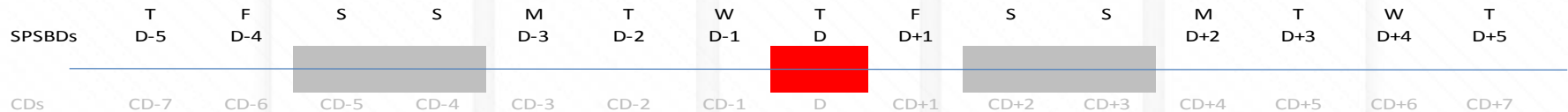
- Existing treatment of Meter Readings at Transfer (no Class Change)

Reading Class	OPNT Read Date	Read Provision Window Deadline	Replacement Reading
1	D	GFD+1	GFD+5
2	D	GFD+1	GFD+5
3	D	D+10	As needed
4	D+/-5	D+10	As needed

- Note, readings received / required with a read date subsequent to the Opening Meter Reading having been loaded will fulfil the Opening Reading or prompt the estimation of Opening Reading
  - Cyclic Readings from incoming Shipper between D+6 and D+10
  - RGMA Transactions (NB: Received with / without Meter Readings) with an effective date on or after D (received prior to D+10)
  - [Others]

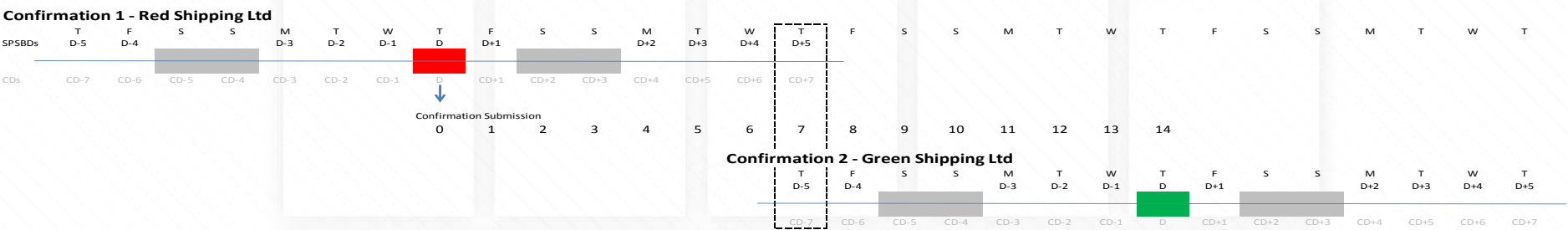
# OPNT Reading (Class 4 example) – (Unchanged 06/02)

- Current Opening Meter Reading window is D+/- 5 Supply Point System Business Days
  - Consistent with electricity
  - Assume that this is a legacy from use of an MRA to obtain readings



# Quickest Switching Currently – (Unchanged 06/02)

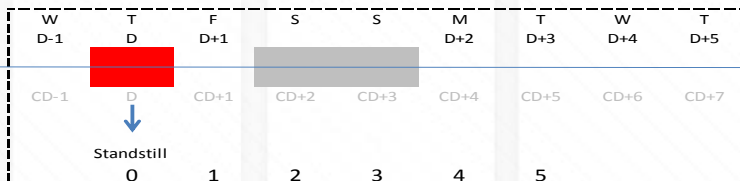
- Minimum confirmation lead time is 14 calendar days
- A subsequent confirmation cannot be accepted while another Confirmation is RQ or CO
- Consider the minimum lead times against Opening Read Window
  - 1 day overlap in Meter Reading Window
  - NB: Overlap will be greater with Bank Holidays in period
  - Assumes Red has withdrawn



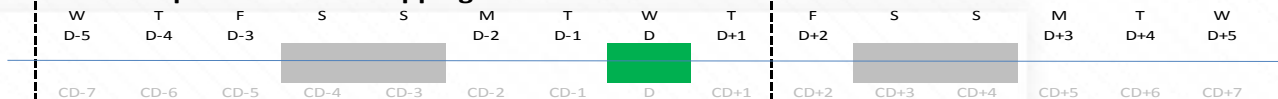
# Quickest Switching OSP Day 1- (Unchanged 06/02)

- A Switch Request will be subject to Standstill
- A parameterised 'Standstill' period will apply.
  - Example – Standstill = 5 calendar days.
- Consider the minimum lead times against Opening Read Window
  - 9 day overlap in Meter Reading Window
  - NB: Overlap will be greater with Bank Holidays in period
- **Expected that the solution will need to take account of reduced Standstill period to future proof**

Switch Request 1 - Red Shipping Ltd



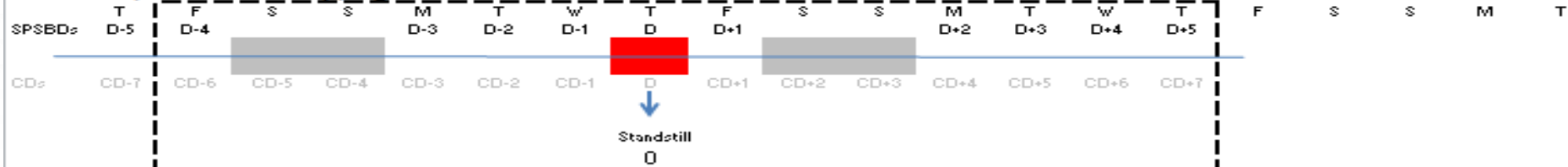
Switch Request 2 - Green Shipping Ltd



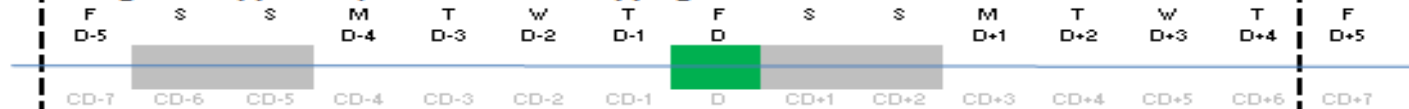
# Change of Shipper – Day 1 – (Unchanged 06/02)

- Change of Shipper Request is not subject to a standstill period
- But will require a Change of Shipper Settlement Reading

## Switch Request 1 - Red Shipping Ltd



## Change of Shipper Request 1 - Green Shipping Ltd



## Change of Shipper Request 2 - Blue Shipping Ltd



# Business Rules – Opening Reading for D

- Opening Readings are to be obtained for D
- Where a Reading is provided prior to the Read Submission Deadline that is Valid but not for D, then the CDSP shall estimate a Reading for D. e.g. if the Shipper provides a Reading for D+2, then that will be recorded and used to derive the D estimate
- As such all Classes of Meter Readings will be obtained for D



# Business Rules – Opening Reading Window

- Currently the Incoming Shipper can obtain an Opening Meter Reading at D-5 to D+5
- **Question:** Due to the risk of proximity of Transfers, does the opportunity to obtain an Opening Meter Reading start at:
  - D
  - D-5, or
  - An Alternative Date prior to D – i.e. D-X
  - Observation: limiting it to D or later will probably reduce the risk of complex business rules / scenarios
  - Note: DSG expressed a preference for limiting to D or later.
  - At this group previously, discussions had indicated that D-5 was too early, and that this should be reduced. 630R Members agreed to consider options and report back to this group.
    - **Views?**

# Business Rules – Which User?

- The responsibility for providing the Opening Reading rests with the Incoming Shipper in UNC
  - In UK Link, currently where an Opening Read Request is outstanding any Reading loaded will fulfil the Opening Reading
- **Question:** Do you want Xoserve to consider ANY Subsequent Valid Readings – even if from the Subsequent Registered User
  - Observation: allowing Readings from a Subsequent Shipper will reduce the risk of negative consumptions between Estimates and an Actual provided by a Subsequent User.
  - Note: DSG expressed a preference for allowing Subsequent Shipper Readings to inform outstanding Opening Meter Read Requests.
  - At this group previously, discussions had indicated that the preference was NOT allowing Subsequent Shipper Readings would be used. 630R Members agreed to consider options and report back to this group.
    - **Views?**

# Business Rules – Read Submission Window

- The Read Submission Window will be defined by:
  - Events
  - The Read Submission Deadline – currently at D+10
  - Read Submission Deadline
    - Largely conclusions to date seem to consider that the existing deadline can remain as is, but events need to be considered.
    - 630R was asked to consider whether the Read Submission Deadline be brought forward from D+10.
  - Views?
- Events considered:
  - Receipt of Reading
  - Whether a Subsequent Shipper can provide a Reading that will inform the Opening Reading
  - Whether this is at the Confirmation Effective Date of a Subsequent Shipper

# Business Rules – Read Submission Window

- Reading Submission Window will remain open until the earliest of:
  - An Opening Reading is received from the Incoming Shipper A
  - A Valid Reading is received from the Incoming Shipper, at which point the Opening Reading will be derived for D
  - *A Valid Reading is received from the Incoming Shipper, at which point the Opening Reading will be derived for D - Depending on the answer from the previous slide*
  - A valid transaction is received with an effective date after D that requires a Reading (e.g. RGMA transaction) from the Incoming Shipper, at which point the Opening Reading will be derived for D
  - *[A valid transaction is received with an effective date after D that requires a Reading (e.g. RGMA transaction) from a Subsequent Shipper, at which point the Opening Reading will be derived for D]*
  - If a further transfer happens, then the Estimated Opening Meter Reading will be loaded on the subsequent Shippers Confirmation Effective Date
  - Creation of the Estimated Opening Meter Reading at Read Submission Deadline

# Business Rules – Replacement

- Once an Opening Meter Reading has been loaded this must be submitted with an Agreed Reading (as currently)
- And only Replaced by the Incoming Shipper (as currently)

# Business Rules – Other Considerations

- Loading an Opening Reading on D if an Actual hasn't been received
  - Disregarded as the Read Submission Window cater for subsequent Switch prior to RSW
- Two stage process – Smart / Traditional
  - Disregarded as the Read Submission Window rules allow for Traditional, and can work effectively with Smart



**Topic for Conclusion - Treatment of Change of Supplier Only  
Switch Requests**

# Registration Variants

- Registration Requests can be:
  - Switch Request – Change of Supplier and Change of Shipper
  - Switch Request – Change of Supplier only
  - Registration Request – Change of Shipper
  - Initial Registration Request – First association of Supplier and Shipper
  - Transporter Initiated Registration – CDSP / Transporter initiated first association of Supplier and Shipper
  - Deregistration Request – End association of Supplier and Shipper
- Where there is a Change of Shipper this will obviously result in a new Confirmation (or equivalent) – e.g.
  - New Confirmation Reference Number,
  - Derivation of an Opening Meter Reading,
  - Requirement to define Settlement Details
    - Default of values if not provided.
- Where there is a Switch Request that changes the Supplier only (and the Shipper remains the same), the current assumption is that this will result in a new Confirmation. **Is this correct?**
  - **630R were asked to consider this. Views?**





**Topic for Conclusion: Receipt of Data by Shipper Users in advance of being the Registered User**

# Release of Data – Summary of Approach

- Release of data will need to rely upon:
  - CSS Prompts
    - Registration Request Statuses – Change of Supplier (incl Change of Supplier and Shipper)
    - CSS Registration Event – Change of Shipper
  - Response to UNC transactions
    - [Nomination Response] and [Settlement Detail Response]
    - Time triggers in relation to D (as per D-2)
- It is expected that this will be a mixture of traditional responses – e.g. file traffic, and also APIs (and potentially DES) to Prospective Users

# Release of Data

- Logical groupings will be identified
  - Proposed to Release Data in line with the Logical Groupings
  - Note: Changes to are likely due to the vagaries of the UK Link Formats
    - E.g. Converter Serial Number is not released until the Meter Reading Instructions (MRI) is provided at D-2 (CO Status), whereas Meter Serial Number is released in Enquiry / Nomination / Confirmation Responses and MRI
  - ‘Logical Groupings’ may be easier to release via API / DES, may be constrained by design principles in file formats
    - Although there seems to be support for assessing changes, rather than least change approach instructed at Nexus - TBC

## Analysis / Approach – (Unchanged 06/02)

- Assessed the output records in the files available to Shipper Users around Change of Shipper
  - Nomination Response (incl Enquiry)
  - Referral Response
  - Confirmation Response
  - Transfer of Ownership (at D-2 SPSBDs)
  - Meter Reading Instructions / Pre Asset Transfer File (at D-2 SPSBDs)
- Assessed source of data within the records
  - Reflecting the data received in the input record – e.g. Contact Details
  - Response to the data received in the input record – e.g. Confirmation Reference Number
  - Derived from UK Link systems (Supply Point Register) – e.g. Consumption Details

# Logical Data Groupings – (Unchanged 06/02)

- Categorised the data against 'logical' data groupings

Consumption Detail
Contact - Large Site Contact Details
Contact - Large Site Contact Details / Priority Contact
Contact - Priority Service Contact Details
CSO Contact Details
Customer Detail
Interruption Detail
Meter Point Detail
Meter Point Location Address
Meter Reading Detail
Metering Details
Offer Detail
Optional Commodity Charge
Referral Response Detail
Seasonal Contract Detail
Settlement Rate
Special Metering Detail
Supply Point Detail
Supply Point Detail - Previous

# Logical Data Groupings – (Unchanged 06/02)

- Categorised the data against 'logical' data groupings
  - More may be required, since design may identify reasons to release data within a logical data grouping at different timescales (e.g. Previous Supply Identity (logically 'Supply Point Detail – Previous')

Supply Point Detail - Previous		CURRENT_DM_SHQ	DERIVED FROM SAP	/S59
Supply Point Detail - Previous		CURRENT_SMP_SOQ	DERIVED FROM SAP	/S59
Supply Point Detail - Previous		PREVIOUS_SUPPLIER_SHORT_CODE	DERIVED FROM SAP	
Supply Point Detail - Previous		WITHDRAWAL_STATUS	DERIVED FROM SAP	/S59
Supply Point Detail - Previous		PRVAL_METER_READ_BATCH_FREQ	DERIVED FROM SAP	/S59

- Or the content source may be different – would expect logical source groupings
  - 'Derived from SAP' (as above), or
  - 'Response' and 'From File' (e.g. Supply Point Detail)

Supply Point Detail		SUPPLIER_ORGANISATION_ID	FROM FILE
Supply Point Detail		CONFIRMATION_EFFECTIVE_DATE	FROM FILE
Supply Point Detail		GAS_NOMINATION_ID	RESPONSE
Supply Point Detail	Sourced from	MARKET_SECTOR_CODE	FROM FILE
Supply Point Detail		METER_READ_BATCH_FREQUENCY	FROM FILE
Supply Point Detail		MRF_TYPE_CODE	FROM FILE
Supply Point Detail		NOMINATION_SHIPPER_REF	FROM FILE
Supply Point Detail		SUPPLY_METER_POINT_CLASS	FROM FILE
Supply Point Detail		SUPPLY_POINT_CATEGORY	RESPONSE
Supply Point Detail		SUPPLY_POINT_CONFIRMATION_REF	RESPONSE

# Data Groupings Identified: Sample Extract

- Logical groupings of data released at key stages, for example:
  - Contact Details – in Confirmation Response (Input records provided in Confirmation File); and TRF
- Although some logical groupings are not released discretely:
  - Meter Point Detail

Metering Details		From File or SAP?	Candidate for Def	NMR (S59 & S64)	NRF (S64)	CFR
Consumption Detail	CONSUMPTION_END_DATE	DERIVED FROM SAP	From File	/S59/S70/S75/Q51		
Contact - Large Site Contact Details	CONT_ELECTRONIC_COMM_TYPE	FROM FILE	Null			/S07/S66/S
Contact - Large Site Contact Details	CONTACT_EFFECTIVE_DATE	FROM FILE	Null			/S07/S66
Contact - Priority Service Contact Details	CONTACT_GENERAL_PRTY_SVC_NOTES	FROM FILE	Null			/S07/S66/S
CSO Contact Details	CSO_NAME	DERIVED FROM SAP		/S64/S70/S75/U74		/S07/S70/S
Customer Detail	PREMISES_CUSTOMER_NAME	FROM FILE	Null			/S07
Interruption Detail	BID_NUMBER	DERIVED FROM SAP				/S07/S70/S
Meter Point Detail	EFFECTIVE_DATE (ASP Id EFD)	DERIVED FROM SAP		/S64/S70/S75/K85		/S07/S70/S
Meter Point Detail	CORRECTION_FACTOR	DERIVED FROM SAP		/S59/S70/S75	/S64/S70/S75	/S07/S70/S
Meter Point Detail	LAST_INSPECTION_DATE	DERIVED FROM SAP				
Meter Point Location Address	BUILDING_NAME	DERIVED FROM SAP		/S59/S70	/S64/S70	/S07/S70
Meter Reading Detail	LAST_READ	DERIVED FROM SAP				
Metering Details	CONVERTOR_SERIAL_NUMBER	DERIVED FROM SAP				
Metering Details	METER_SERIAL_NUMBER	DERIVED FROM SAP		/S59/S70/S75	/S64/S70/S75	/S07/S70/S
Offer Detail	OFFERED_DM_SHQ	RESPONSE		/S64	/S64	/S07
Optional Commodity Charge	SITE_COMPONENT_SOQ	DERIVED FROM SAP	Null	/S64/S70/S75/U71		/S07/S70/S
Referral Response Detail	REFERRAL_COMMENTS	RESPONSE		/S64	/S21/S69/Q46	
Seasonal Contract Detail	SEAS_LSP_PERIOD_END_MONTH	FROM FILE	Existing SEAS_LSP	/S64	/S64	/S07
Settlement Rate	LDZ_CAPACITY_CHARGE_RATE	DERIVED FROM SAP		/S64	/S64	/S07
Special Metering Detail	CAC_CORRECTOR_ASSET_CHARGE_I	DERIVED FROM SAP		/S64/S70/S75/U75		/S07/S70/S
Supply Point Detail	CONFIRMATION_EFFECTIVE_DATE	FROM FILE	Sourced from CSS			/S07
Supply Point Detail - Previous	CURRENT_SMP_SOQ	DERIVED FROM SAP		/S59		
Supply Point Detail - Previous	PREVIOUS_SUPPLIER_SHORT_CODE	DERIVED FROM SAP				

KEY	
NMR	
NRF	
CFR	
TRF	
MRI	
PAC	

# Data Groupings Identified: Summary – (Unchanged 06/02)

- Further detail required, but logical groupings suggest release of data in response to progression of Nomination / Confirmation / Transfer of Ownership

	Existing Source	Future Source	Availability of Data					
			Enquiry (NMR)	Nomination (NMR)	Referral Response (NRF)	Confirmation Response (CFR)	Transfer of Ownership (TRF)	Meter Reading Instructions File (MRI / PAC)
Consumption Detail	DERIVED FROM UKL	DERIVED FROM UKL	X					
Contact - Large Site Contact Details	FROM FILE	FROM FILE / DEFAULT				X	X	
Contact - Large Site Contact Details / Priority Contact D	FROM FILE	FROM FILE / DEFAULT				X	X	
Contact - Priority Service Contact Details	FROM FILE	FROM FILE / DEFAULT				X	X	
CSO Contact Details	DERIVED FROM UKL	DERIVED FROM UKL		X		X	X	
Customer Detail	FROM FILE	FROM FILE / DEFAULT				X	X	
Interruption Detail	DERIVED FROM UKL	DERIVED FROM UKL				X	X	
Meter Point Detail	DERIVED FROM UKL	DERIVED FROM UKL	?	?	?	?	?	?
Meter Point Location Address	DERIVED FROM UKL	DERIVED FROM UKL	X	X	X	X	X	X
Meter Reading Detail	DERIVED FROM UKL	DERIVED FROM UKL						X
Metering Details	DERIVED FROM UKL	DERIVED FROM UKL	?	?	?	?	?	?
Offer Detail	FROM FILE / RESPONSE	FROM FILE / DEFAULT / RESPONSE		X	X	X	X	
Optional Commodity Charge	DERIVED FROM UKL	DERIVED FROM UKL		X	X	X	X	
Referral Response Detail	RESPONSE	RESPONSE			X	X		
Seasonal Contract Detail	FROM FILE	FROM FILE / DEFAULT		X	X	X	X	
Settlement Rate	DERIVED FROM UKL	DERIVED FROM UKL		X	?	X	X	
Special Metering Detail	DERIVED FROM UKL	DERIVED FROM UKL		X	?	X	X	
Supply Point Detail	FROM FILE / RESPONSE	FROM FILE / DEFAULT / RESPONSE		X	X	X	X	?
Supply Point Detail - Previous	DERIVED FROM UKL	DERIVED FROM UKL		?		?	?	





**Topic for Conclusion: Large Site Contact Details**

# Large Site Contact Details

- Currently, Confirmations for Large Sites will not be accepted without Contact Details being provided
- Proposal to retain this conditionality as part of the [Base Registration Nomination] – aka Shell Record
- Where a Base Registration Nomination is not received, default rules will be required
  - Default is proposed to RETAIN Large Site Contact Details (not Null them as previously)
  - Controls will be required
    - So as not to release Contact Details to Supplier / Shipper who did not provide (or at all)
    - Controls to highlight data not updated
- Note: Default rule for Priority Services Register is still Null details at Registration Event

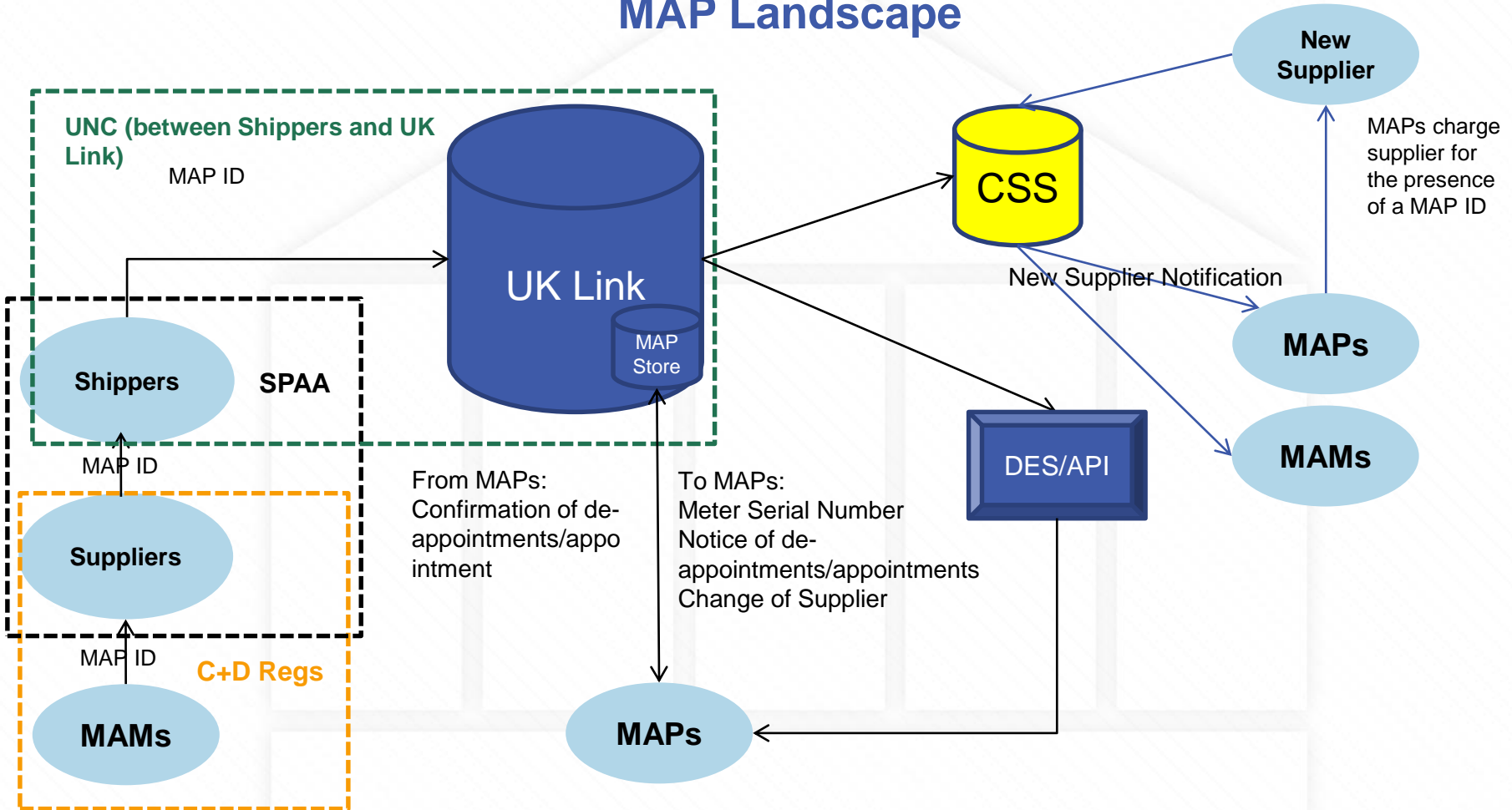


**For Information - MAP Id - Update**

# MAPs

- **First population – expected that this will be provided by MAP themselves**
- **Enduring**
- CDSP have a responsibility in REC to provide the MAP Id to CSS as part of the MeterPointSync flow
- Feedback from 630R is that they do not expect to be responsible for mastering MAP Id
  - JOB flows should provide the Asset Provider as a Mandatory dataset where the JOB relates to an install / exchange
  - But other instances of MAP Id update are expected – e.g. Asset Transfer
- Plans to route and receive data from MAPs
- Separate Modification has been identified following identification of use case at Joint MIS Devt Group to provide MAPs with API Service
  - Mod will add MAPs to DPM as recognised recipient
  - Potential to extend access once MAP Id is recorded – e.g. via DES to 'Portfolio View'

# MAP Landscape





**For Information - REC Enquiry Schedule – Impacts to UNC**

# Enquiry Schedule

- First draft of Enquiry Schedule has been made available to RDUG
- Comments invited from RDUG
  - Any observations?
- Expected that the Data Items listed here will include Retail and Wholesale data
  - Are there any remedies that you would want to consider? E.g. Mastering of data in UNC
- Expected that the Schedule will indicate that the REC will grant access to parties
  - If there is data mastered in UNC, what would you expect to see prior to a party being granted access?
- Expected to be consulted on in next REC consultation – [April 2019]



**For Information - Market Participant Identity Process –  
Migration to UNC**



# Governance Approach

- A separate UNC Modification (not in the SCR) as the migration is planned in advance of REC v2.0 go live
- Guidance Document developed as part of the UNC / SPAA Joint Working Group
  - Will be included in the Modification, subject to WG development?
  - Guidance Document describes:
    - Verification Checks – against data sources
    - Business Rules – against considerations for CDSP to assess Market Participant Applications
    - Obligation to follow a predefined review cycle
    - Approval – Group and Approach
      - Appeals
- Proposed that the Guidance Document is managed within DSC Contract Management Committee – not a UNCC document
- CDSP will report to DSC Committees (noting that additional parties may be impacted beyond Core DSC parties)