Public

Code Change and Development Group

Meeting 8

18 August 2020 ELEXON



Introduction, apologies & meeting objectives

Kathryn Coffin



Housekeeping

- Apologies from Dan, Derek, Dom and Paul
- Welcome to Fungai Madzivadondo from the ENA, replacing David Lane
- Quick introductions
- During meeting, remember to mute unless speaking



Meeting objectives

- Understand revised CCDG milestone timings / dependencies and where this fits with Ofgem's SCR plan
- Understand progress of other related work streams
- Approve latest outputs from the joint CCDG/AWG subgroup
- Continue progressing & agreeing outstanding areas of the detailed TOM design (including sign-off of Working Document B)
- Remember that the Headline Reports & actions log record the CCDG's decisions and reasoning



Re-planned milestone timings/dependencies

Kathryn Coffin



Key messages from re-planning exercise

- We've re-planned our CCDG and AWG deliverables to take account of the impact of:
 - COVID (all remaining CCDG meetings in 2020 will be held remotely)
 - Cyber-attack on Elexon in May, which constrained our ability to progress work
 - Interaction with joint CCDG/AWG subgroup (not part of original work plan)
 - Additional TOM design areas raised during CCDG discussions (not part of original work plan)
 - Dependencies on other Ofgem work streams / SCRs (which have also been re-planned)
 - Ofgem's re-planned Business Case milestones
- Sequencing of CCDG and AWG deliverables hasn't changed
- But all consultations/reports have moved back by 5 months (see next slide)
- Doesn't impact Ofgem's Business Case milestones, which have moved back by 6 months
- We're drafting an updated work plan and RAID log for review, approval and publication
- Slide 7 shows our latest Plan On A Page (POAP)
- Delay to joint subgroup outputs has potential to add a further month to this plan



Revised CCDG milestone dates

Milestone	Original date*	Revised date
Agree detailed TOM design areas	April 2020	September 2020
Agree Code Change Matrices	April 2020	October 2020
Consultation on TOM design & matrices	June 2020	November 2020
Consultation on legal drafting	February 2021	July 2021
Final report to Ofgem	May 2021	October 2021

* As per work plan agreed at CCDG01: <u>https://www.elexon.co.uk/documents/groups/ccdg/ccdg-work-plan/</u>

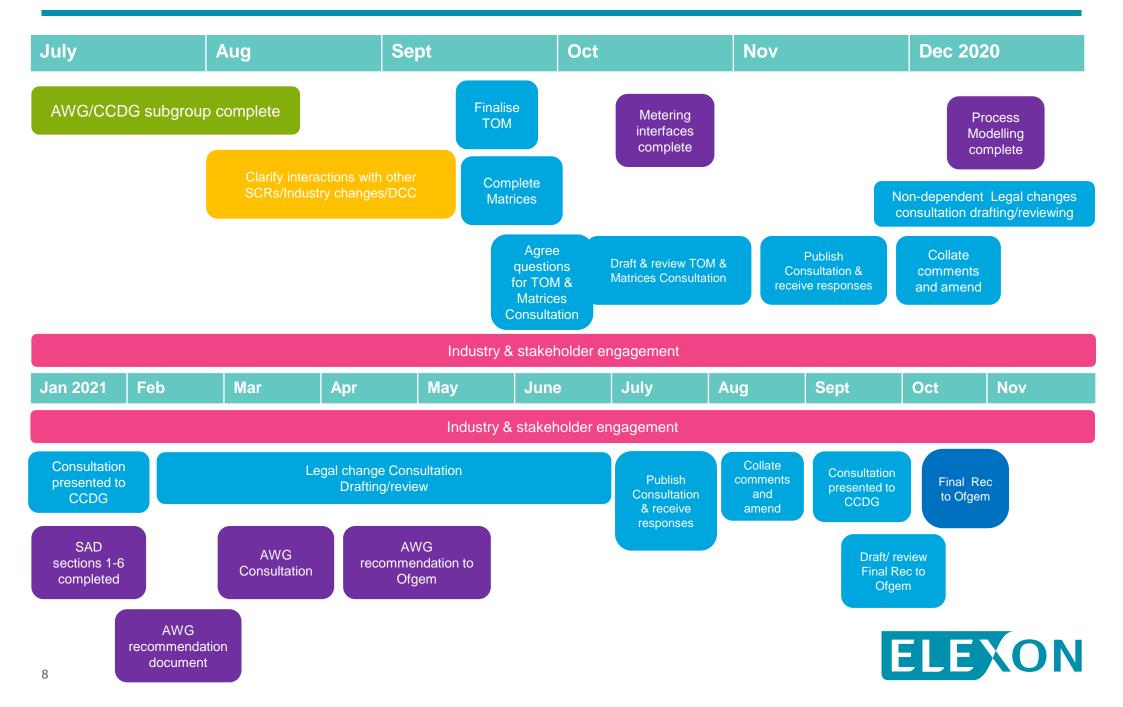


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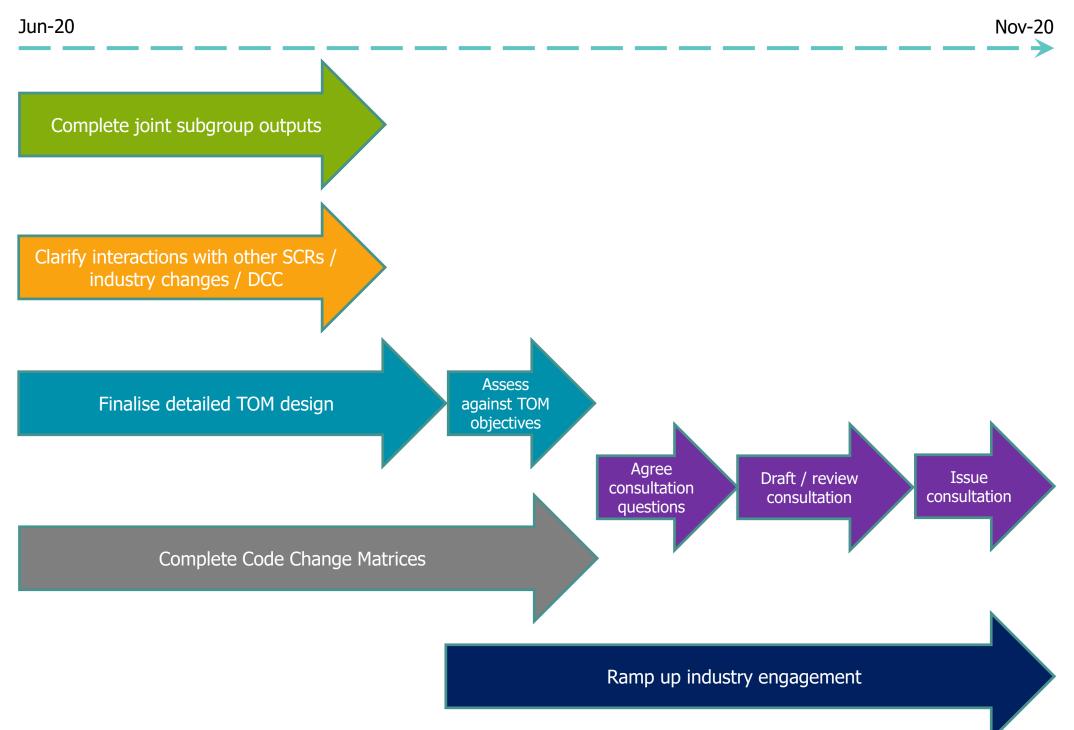
Updated POAP

CCDG Deliverables

AWG Deliverables



CCDG pre-consultation milestones & dependencies



Update on other Ofgem work streams/actions

Saskia Barker



CCDG/AWG subgroup outputs for agreement

Tom Chevalier

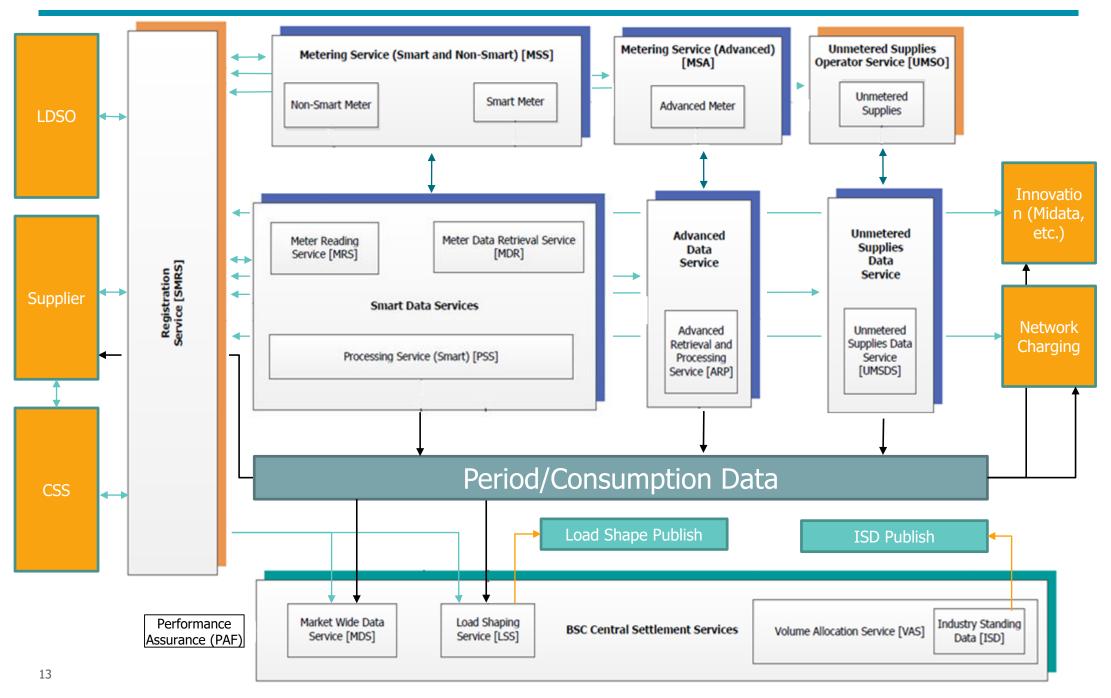


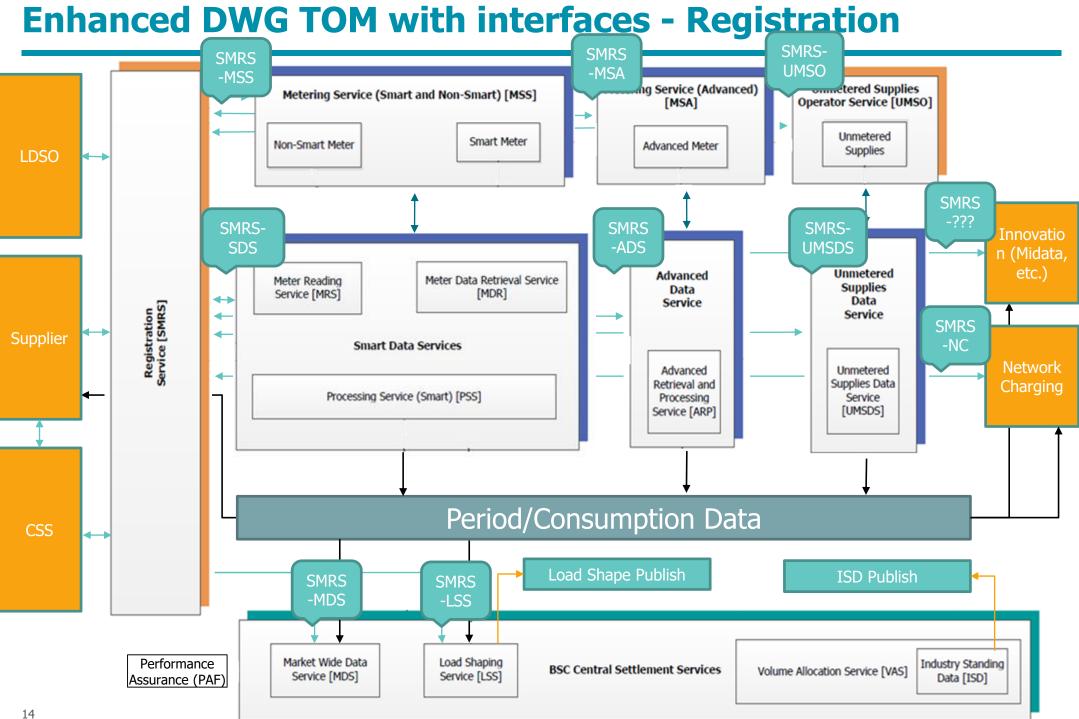
Scope

- Registration Service Metering Services
- Registration Service Data Services
- New and Changed Interfaces to support the MHHS TOM not 'boil the ocean'
- For example:
 - Metering Service flows continue to use 20+ DTC data flows to multiple stakeholders for non-settlement related activities, e.g. faults processes
 - Proposing a new smart meter MTD data flow
 - -Service to communicate data from/to Registration Service
- Subgroup workshop on 13 July agreed some aspects, agreed further work on some, and some brought to CCDG for debate

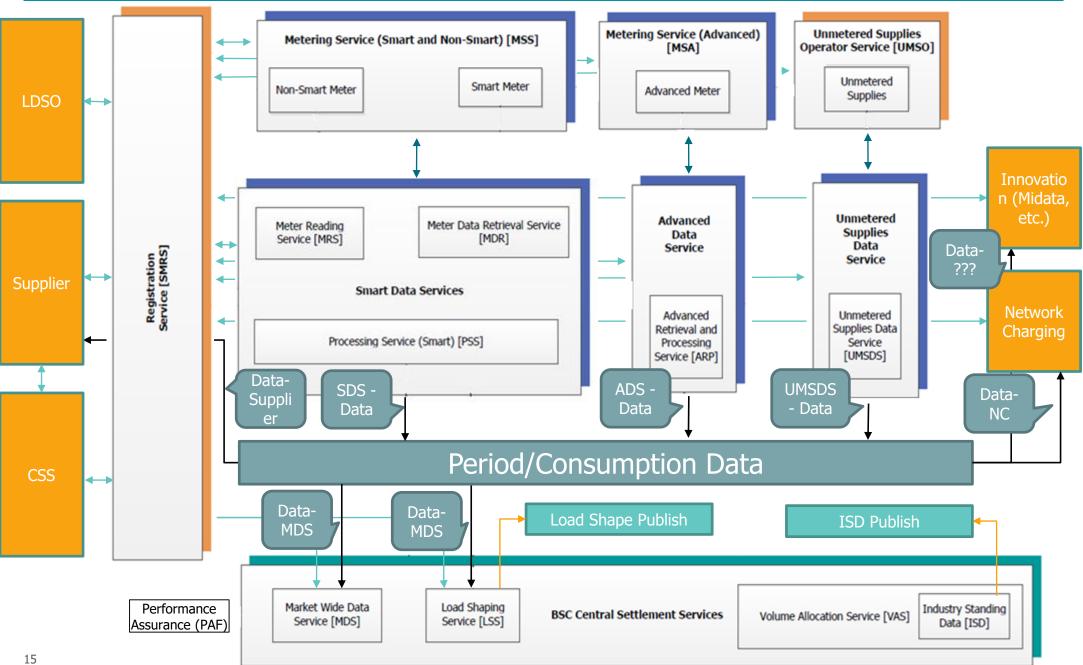


Enhanced DWG TOM with interfaces

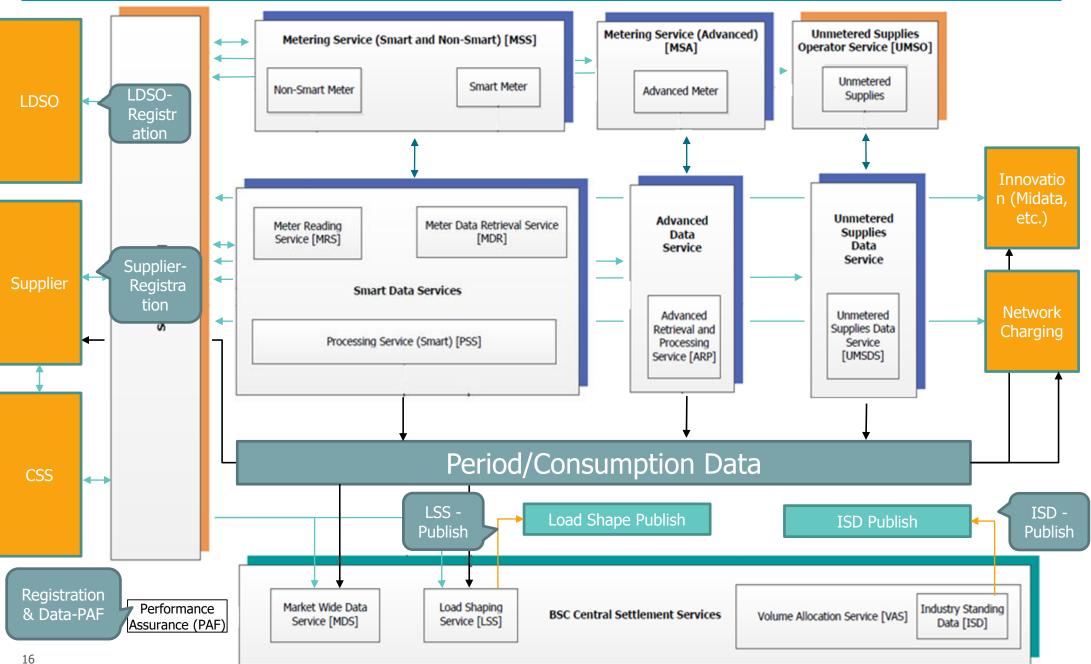




Enhanced DWG TOM with interfaces - Data



Enhanced DWG TOM with interfaces - Other



Aspects considered

- Aspects sufficiently considered/agreed need to document:
 - De-energised sites calculate zero with a specific flag
 - MDD maintain until end of transition and then review/purge
 - Network charges engage with Networks to discuss requirements
 - Performance Assurance wait until later, requirements uncertain
 - Continued use of role codes, MPIDs, etc. to support DTN & other systems
 - Inclusion of 'opt out' identifier (and EFD) in Registration Service
 - Use of GSP Group EFD
 - Transitional data flows
- Aspects for further consideration by subgroup:
 - MTD dataflow from Metering Service for smart meters paper drafted
 - LSS data publish drafted
 - ISD data publish outstanding
 - Business rules for Date-time outstanding



Settlement Period Data

- Representation of the 'Period/Consumption data'
- Period/Consumption data depicted as:
 - -MPAN
 - Period Value
 - Period Effective to end date/time (UTC)
 - -Period Duration
 - -Period Unit of Measure kWh, kVArh (lag), kVArh (lead)
 - Period Quality Indicator actual, estimation codes
- Data updated continuously



Retrospective change of Data Service

- What happens to the data already provided when the Data Service appointment data is retrospectively changed? Overlap with technical solution. Implication for liability/responsibly.
- Option 1:
 - -Any data submitted by the previous Data Service is no longer usable
 - -New appointed Data Service provides [same] data as the 'current view' of data
 - -Old Data Service can no longer submit/change data
 - Data is only provided during the period of the DS appointment
- Option 2:
 - -The submitted data from the [superseded DS] remains in use
 - New appointed Data Service can change consumption data, incl. overwrite with same values
 - -Old Data Service can no longer submit/change data

Discuss?

Service appointments process

Mark De Souza-Wilson



Actions

06/04:

ELEXON to speak to a CCDG member further offline about the idea of Suppliers preauthorising appointments against set criteria, before discussing this with the joint CCDG/AWG subgroup.

Update:

Appointments process diagram is now more generic to allow for different rules – eg. where an appointed service does not respond within x days, or where a default acceptance had been agreed between service and Supplier.



Actions

06/05:

ELEXON to check whether, in the appointments process diagram, the box 'CSS notify existing service pre-switch' is duplicated in the follow-on box 'Request existing service details'.

Update:

 Diagram has been updated to clarify the interaction of the Central Switching Service (more specifically the Energy Retail Data Service) in the Change of Supplier process.



Registration data items

Matt McKeon



Actions 07/02 and 06/10 – recap and ways forward

- Action 07/02: How/where to define and explain the new data items created for the TOM, including the reasons why these are needed?
 - AWG's outputs will list the new data items with their *architectural attributes*, for a *technology audience*
 - CCDG's consultation will need to list the new data items with an explanation of why they are needed to support the requirements, for a *business process* audience
- **Action 06/10**: Update on LLFCs/LLFs and the Targeted Charging Review
 - -ELEXON will bring forward proposals for creating `LLF Groups' as a possible solution to mitigating the impact of the TCR, which will be implemented before MHHS
 - DUoS charging reporting requirements post-MHHS implementation will be developed under the <u>Network Access and Forward-Looking Charging SCR</u>
 - ELEXON will engage with and support this SCR to ensure the reporting possibilities under the MHHS TOM are understood



Action 04/17 – Association of Import and Export MPANs

- Action 04/17: ELEXON to look into whether the Switching Programme considered any ways of linking Import and Export MPANs to a single property
 - -Associated MPANs on ECOES show MPANs with the same MSN as the queried MPAN.
 - Where the same HH meter is being used to measure import and export, those MPANs are 'linked' because they share the same MSN. Where there is a stand-alone export meter with a different MSN, these would show as associated MPANs on ECOES.
 - The Associated MPANs function applies to all MPANs that share the same MSN, including related twin-element meters and crossed meters. There is currently no link between Import and Export MPANs in ECOES or MPRS, and there are no plans to introduce a link between the two in the Switching Programme design.
- CCDG to introduce new association for import and export MPANs irrespective of MSN
 - Is Meter Point Address a reliable source for inferring these relationships? (No)
 - -Who should maintain/master this association following initial population? (LDSO)



Exception reporting

Mark De Souza-Wilson / George Player



Why validate data entering BSC Central Services?

- There are already systems and processes to ensure that Suppliers, their agents and ECOES have a consistent view of registration data however erroneous data is still entering central systems.
- Can only identify potential issues if validation is taking place.
- Validation is a simple and straightforward process. Needs to be built into systems but doesn't cost any significant time or resources on an ongoing basis.
- The risk team are currently doing work on regular reporting against risks like this. Shouldn't take a step backwards.



Validation/exception reporting straw man (1/3)

- Registration Service ensures that its data is consistent with ISD potentially by maintaining a synchronised copy of ISD.
- MDS checks the incoming data for inconsistencies. Any error should result in data being rejected and an exception report.



Validation/exception reporting straw man (2/3)

- Alongside MPAN and SP-level data, the Data Service should send the following items to the MDS for validation purposes – Energisation Status, domestic/non-domestic, GSP Group, LLF, Supplier, Import/Export.
- Where there is a mismatch on GSP Group, Import/Export or Energisation Status there is a material risk to Settlement so the data should be rejected and an exception report sent.
- Where the only errors are with originating Data Service, Supplier, domestic/nondomestic, LLF then the data should be processed on the basis of Registration Service data and an exception report sent. (This data is potentially erroneous)



Validation/exception reporting straw man (3/3)

- Where data for an MPAN has been re-submitted by the Data Service, if the data has changed from Actual to Estimate an exception report will be sent but the data will be processed.
- At II and subsequent Settlement runs exception reports should note estimated/missing data as well as instances where potentially erroneous data is present.

Settlement run-off arrangements

Matt McKeon

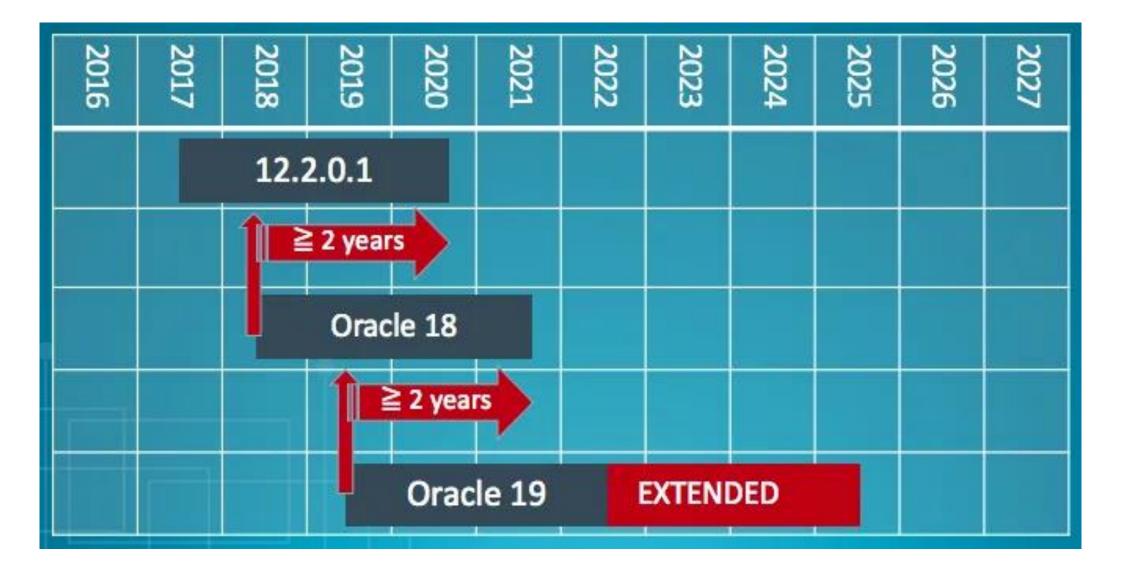


Settlement run-off (Actions 06/01, 06/02 and 06/03)

- Action 06/01: ELEXON to update the CCDG on the interactions between MHHS and the work being undertaken by the Trading Disputes Expert Group (TDEG)
 - -<u>Minutes</u> circulated from 2 July TDEG meeting
 - -TDEG discussed straw man proposal for dealing with long-run cumulative error
 - -LDSO concern that DUoS is currently calculated using uncorrected data
- Action 06/02: ELEXON to confirm the end date for Oracle's extended support for the NHH software and discuss this with the STAG
 - -Oracle has withdrawn Extended support for current NHH software OS version
 - -ELEXON and CGI are planning an upgrade to target version Oracle 19c
 - Ongoing discussion with CGI and STAG, next STAG meeting on 3 September
 AMD support arrangements post-November 2020 to be clarified



Settlement run-off (Actions 06/01, 06/02 and 06/03)





Settlement run-off arrangements (Action 06/03)

- Action 06/03: ELEXON to discuss the results of Actions 06/01 and 06/02 with the relevant CCDG member volunteers, before bringing the final run-off straw man to CCDG09 for agreement
 - -Oracle upgrade to 19c will *reduce* risk to run-off of software support ending
 - –Oracle 19c Extended Support is shown as ending in March 2025
 - -This will require flexibility in the post-RF 'tail' but should be manageable
 - Therefore straw man unchanged ELEXON to document in a draft Working Document C and circulate in advance of CCDG09 on 15 September for sign-off at that meeting



Erroneous Transfers

Kevin Spencer



Action 05/11 - The issue (1)

 ELEXON to consider the potential for, and process to correct, Erroneous Transfers (ETs) under the TOM.

The actual essay question is:

- What process, if any, should be used to correct Settlement Data following the completion of the Erroneous Transfer process?
- The REC resolution process is set out here: <u>https://www.ofgem.gov.uk/system/files/docs/2019/06/rec_resolution_of_cfsb_proble_ms_schedule_0.pdf</u>
- 3.9 suggests that there should be a process for correcting Settlement Data:

Energy Suppliers shall ensure that any incorrect data associated with the Consumer and/other premises (including incorrect settlement data) is corrected and updated on the relevant central systems in a timely manner to ensure that these do not cause any detriment to the Consumer in the future.

So it looks like a process will be required



Action 05/11 - The issue (2)

- The CCDG has considered that the SMRS data should be the 'single view of the truth'
- However, SMRS data is not retrospectively corrected following resolution of the ET
- In fact no backdated changes to registration data are allowed by the CSS. The 'incorrect' Supplier will remain as the registered Supplier in the CSS (and therefore the Settlement registration systems) for the period of the ET
- Billing data is amended by the two Suppliers, so the customer is billed continuously by their original Supplier as if the switch never happened, but the ET period will remain in the registration systems against the 'wrong' Supplier
- This means that if the erroneous Supplier's Data Service has not provided data for a smart Meter there will be no data in Settlement to correctly allocate for the duration of the ET process
- On regaining the MPAN the Supplier's SDS cannot get the Meter data since it would not be deemed to be appointed for that period



Action 05/11 – Retrospective amendments (1 of 2)

- Although Settlement data can be retrospectively amended in SMRS (such as energisation status), registration data sourced from the CSS (Supplier ID, EFD/ETD) can't be as the CSS does not allow for retrospective amendments
- The below is taken from the amendments to MAP04 for switching go live, which shows those two items in MPAD being removed from the process. This will be what is reflected in the new BSCP603 when CSS goes live

•‡•

MPAD Item No.	Data Item	Responsibility for provision and maintenance
4	Profile Class Id	Supplier
4A	Effective from Settlement Date (MSPC)	Supplier
5	Meter Timeswitch Code	Supplier
5A	Meter Timeswitch Code Effective Erom Date	Supplier
6	Line Loss factor Class Id	Distribution Business
6A	Effective from Settlement Date (MSLLFC)	Distribution Business
8	Supplier Id ^e	Supplier
10	Effective from Settlement Date (REGI) ^a	Supplier
11	Meter Operator Id	Supplier
11A	Meter Operator Type	Supplier
11B	Effective Erom Date (MOA)	Supplier
12	Data Collector Id	Supplier
12A	Data Collector Type	Supplier
12B	Effective Erom Date (DCA)	Supplier
13	Data Aggregator Id	Supplier
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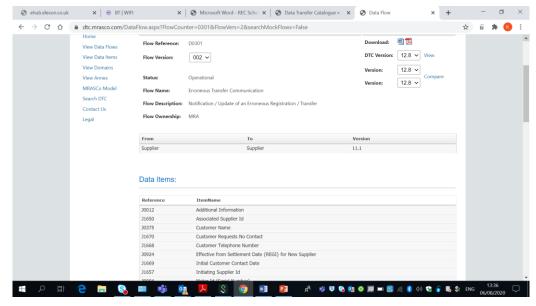
Action 05/11 – Retrospective amendments (2 of 2)

- The BSCP603 change will impact the ability to use retrospective amendments for ETs, correcting erroneous registrations for new connections and correcting invalid de-registrations
- The latter is the only case that presents a risk to Settlement, as it can create a period with no Supplier, and no way to settle consumption that occurred during that period



Action 05/11 - Options

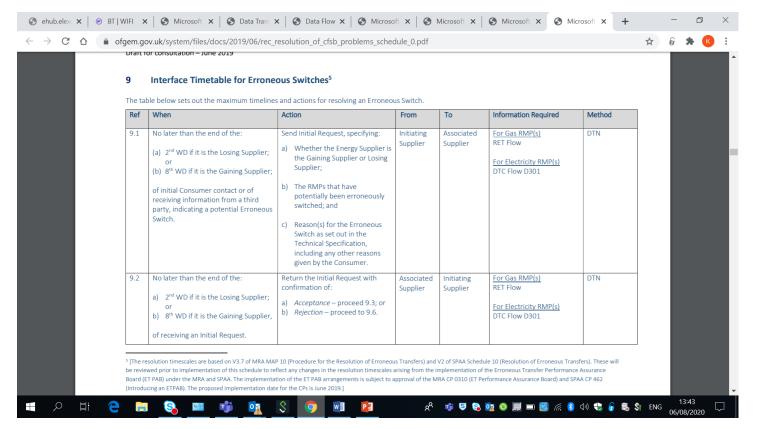
- Provided the BSC Central System view of the Supplier and its EFD is correct, and there is consumption or export data for the period, it will be settled correctly regardless of which party provided data to Settlement during the ET resolution period
- So ideally some Pseudo Registration data needs to be provided to BSC Central Systems in the scenarios identified
- This raises the questions of who, how and when this data is provided
- The D0301 is used to communicate the ET between Suppliers:





Action 05/11 - Options

The ET resolution processes are set out in Sections 8 and 9 of the resolution document:



The outcome is agreed between the Initiating Supplier and the Associated Supplier



Action 05/11 - Options

- Any solution will need to be proportionate in cost v accuracy terms
- So, the Pseudo registration data could be provided by the Initiating Supplier or the Associated Supplier, or both, following resolution of the ET (potentially using a cutdown version of the D0301?). This would require the Supplier to interface with BSC Central Systems for this purpose (is this proportionate?)
- The CSS Provider will be informed by the losing Supplier and is therefore a candidate to provide the Pseudo registration data (but CSS changes and new interfaces do not seem proportionate to resolution of this issue either)
- The Registration Service (SMRS) will not be aware of the issue other than the switch back to the losing Supplier at a later EFD from the CSS. SMRS could be informed by the losing Supplier but it would not have any incentive to do so! The erroneously gaining Supplier potentially would though to avoid being allocated the Settlement data. In either scenario the data would need to be passed through SMRS to BSC Central Services, but not updated in SMRS
- Are there any options not considered (other than do nothing)?



Action 05/11 - Timescales

- The ET process can work up to 24 months and there will only be a 4 month Settlement window
- So any Settlement resolution will need to be time-limited
- After 4 months the data could only be corrected by a Trading Dispute but is unlikely to reach the new Materiality Thresholds (and may not meet the BSC's definition of Settlement Error)
- Is there a way of correcting this financially without changing Settlement data? E.g. outside the BSC?



Change of Meter / Market Segment

Mark De Souza-Wilson

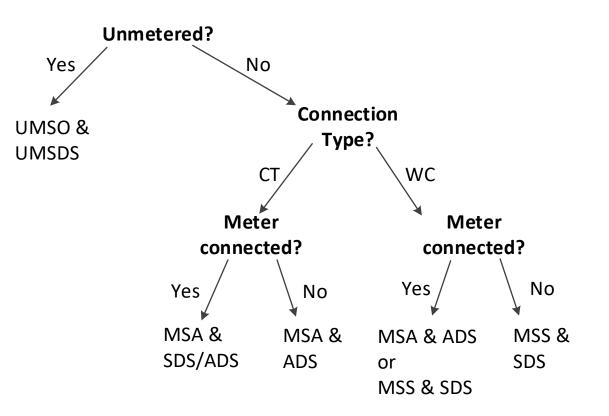


Action 06/06

ELEXON to ask the joint CCDG/AWG subgroup to consider how to handle a change of Meter that results in a change of TOM market segment.



Which Services should be appointed?



- Meter Type determines Market
 Segment
- Data Service depends on Market Segment
- Metering Service depends on Market Segment and Connection Type

...Need to appoint new Services before Market Segment changes



Scenarios

CT site

- Metering Service is always MSA.
- Appoint SDS or ADS depending on meter type being installed.

WC site

Scenario	Appointments
Install new smart meter	MSS appointed for meter installation and SDS appointed.
Install new advanced meter	MSA appointed for meter installation and ADS appointed.
Change non-smart to smart	No change of Service. MSS and SDS appointed throughout.
Change non-smart to advanced	MSA appointed for change of meter and ADS appointed.
Change advanced to smart	MSA changes meter then MSS and SDS appointed.



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Example 1

WC site with a non-smart Meter being replaced by an Advanced Meter:

- 1. Initially MSS and SDS. Segment is `S'.
- 2. Supplier tells SMRS that Meter Type (hence Market Segment) is due to change on x date. Also that MSA and ADS are to be appointed (effective x date).
- 3. Supplier tells MSA to install Advanced Meter as soon on appointment.
- 4. MSA installs Meter and updates details in SMRS confirming change of segment.
- 5. From x date forwards, MSA and ADS are appointed, and segment is 'A'.



Example 2

WC site with an Advanced Meter being replaced by a smart Meter:

- 1. Initially MSA and ADS. Segment is 'A'.
- 2. Supplier tells SMRS of pending Segment change and that MSS and SDS are to be appointed (effective x date).
- 3. Supplier tells MSA to remove Advanced Meter on de-appointment (x date)*
- 4. MSS install Meter and updates details in SMRS triggering change of segment.
- 5. From x date forwards, MSS and ADS are appointed, and segment is 'S'.

*Metering Service might not actually change - just start operating under MSS qualification rather than MSA qualification.



Validation by Registration Service (1/2)

Supplier appoints Metering Service and Data Service to an MPAN and notifies pending segment change

Validation fails if:

 Appointing Metering Service and/or Data Service inconsistent with Market Segment and connection type – unless there's a pending Segment change

This requires SMRS to hold extra data item

If SMRS can't use notification of pending segment change...



Validation by Registration Service (2/2)

- Validation fails if:
 - -Appointing MSS/MSA to an unmetered supply
 - -Appointing SDS/ADS to an unmetered supply
 - -Appointing UMSO/UMSDS to a metered connection
 - -Appointing MSS to a CT connection
 - -[WC sites only] Changing SDS/ADS without changing MSS/MSA
- Can send alerts/warnings where there is a potential error eg.
 - -Appointing SDS to a CT site
 - -Appointing MSA/ADS to a Smart segment WC site



Demand Control Events

Kevin Spencer



Action 05/15 says:

ELEXON to keep a watching brief on Issue 89 and flag where there are dependencies with the MHHS TOM.

Issue 89 is looking at when adjustments should be made and simplifying the processes so they are less onerous and costly including:

- By not making changes for NHH Metering Systems i.e. not adjusting NHH Annualised Advances and not estimating disconnection volumes for NHH Metering Systems
- By using a simpler method for estimating disconnection volumes. For example, rather than estimating disconnected volumes based on individual Metering Systems' metered data, a 'top down' method might use NETSO's Demand Control Instructions to apportion the total requested disconnected energy between Parties based on each Parties' relative Credited Energy or Market Share.



More interestingly for the CCDG:

Centralise the process – for example, the roll-out of Smart Meters and the implementation of the MHHS Target Operating Model may mean individual Metering Systems' metered data is provided directly into central systems where estimates of disconnection volumes can be calculated thereby relieving Party Agents from their roles in the current process.

The Issue Group will discuss the solutions and are meeting next week.

- A central solution for MHHS seems appropriate but presents a number of challenges
- The current HH process requires the HHDC to estimate what the energy consumption might have been if the disconnection event had not occurred
- The actual volume (less and Non BM STOR volume) is differenced from the estimate to get a disconnection volume per MPAN
- The HHDA adds up the disconnection volumes by Supplier/ GSP group and CCCiD
- This data is then added back into Supplier's BM volume by the SVAA to prevent any windfall payments associated with the event

Demand Control Events (3)

- The challenge for a central solution would be how to estimate the consumption per MPAN that would have occurred if the disconnection event had not occurred
- Data could be obtained from the ADS as per the current process but this would not:

"relieve Party Agents from their roles in the current process."

- A similar process would also be onerous for Smart Data Services to estimate on a per MPAN basis
- The solution may be to use the proposed top down method being discussed under Issue 89:
- By using a simpler method for estimating disconnection volumes. For example, rather than estimating disconnected volumes based on individual Metering Systems' metered data, a 'top down' method might use NETSO's Demand Control Instructions to apportion the total requested disconnected energy between Parties based on each Parties' relative Credited Energy or Market Share.



Demand Control Events (4)

- The CCDG will need to await the conclusions of the Issue 89 group before an understanding of the potential MHHS solution can be identified
- However, we may wish to feed into the Issue 89 discussion
- What are the CCDG's views on the proposed solutions?



GSP Group Correction

Kevin Spencer



GCF revised Scaling Weights

- At CCDG04A ELEXON took an action to update the Scaling Weights for losses as follows:
 - ELEXON to update the Scaling Weights spreadsheet and recirculate to the CCDG, so that all losses calculated against actuals incur an additional 0.4 (i.e. have a value of 1.4 rather than 1.2 as originally proposed)
- After the meeting and following a review comment, we realised that we needed to also apply the same logic to losses calculated against estimates – since some of those were set to 0.2 or 0.8 (plus the network quality rating)
- Hence, we reset all Scaling Weights for losses to 0.4 plus the network quality rating
- This also impacted the revised Scaling Weights for losses on the existing CCCiDs, which we reset to 0.8 for Measurement Class C and 1.4 for the other Measurement Classes
- We circulated the updated values to the CCDG on 9 July



GCF Transition (1)

After discussions at CCDG06 and CCDG07, we updated Working Document B to say:

- An approach to introducing the new GSPGCF calculation and new and revised Scaling Weights is required. The CCDG agreed an approach which seeks to incentivise the migration of Metering Systems into the new TOM. The agreed approach is as follows:
 - The new calculation, CCC ID table and new Scaling Weights table in ISD are implemented on deployment of the BSC Central Settlement Services;
 - -The existing CCC ID Scaling Weights will be revised at the same time;
 - -Scaling Weights for the new CCC IDs are initially set to zero; and
 - When [X%] of energy (consumption and export) has migrated to the TOM, then the new Scaling Weights for the new CCC IDs are then implemented.
 - The percentage of energy which will trigger the update of the Scaling Weights will be set at a later date. The CCDG agreed that this threshold should be set by the Panel or directed by Ofgem.

We circulated the updated wording to the CCDG on 2 July



GCF Transition (2)

- The intent of setting the GCF for the new CCCids to zero was to incentivise larger HH MPANs to move to the TOM, as there would be a period where they were not subject to GCF correction
- In reviewing the document, two CCDG members questioned the rationale
- One member considered that it would potentially be a disincentive since MPANs migrating would not get the benefit of reduction in allocated consumption due to export spill
- All MPANs with non-zero Scaling Weights would get this benefit in the future model not just domestic MPANs
- Do we want to introduce the new Scaling Weights on deployment of the new CCCids?



Update on MRA Issues relating to MHHS

Matt McKeon



Update on MRA Issues relating to MHHS

- MIF327 Review of obligations in respect of the Supply Number Format set out in Schedule 5 of the MRA
 - Presented for initial review at the IREG on 12 August
 - IREG agreed that there is an opportunity to make a change ahead of REC V3
 - -Suggested raising this with Switching Programme to include in consultation
 - -Supply Licence change not essential, but could be addressed under the SCR

MIF328 - Future SMRS reporting requirements for BSC purposes in MRA Clause 27 and Schedule 13

- Presented for initial review at the IREG on 12 August
- IREG agreed that SMRS reporting for BSC purposes no longer falls under the remit of the MRA, even though the changes to BSCP501 won't take effect until Q3 2021
- Agreement that ELEXON holds a meeting or convenes a workgroup with SMRAs to discuss future reporting requirements and capability. MIF to be withdrawn



CCDG07 Headline Report & actions

Kathryn Coffin





Summary & next steps

Kathryn Coffin



