

Public

Code Change and Development Group

Meeting 9

15 September 2020
ELEXON





Introduction, apologies & meeting objectives

Kathryn Coffin

Housekeeping

- Welcome to Thomas Demetraides as CCDG Technical Secretary
- During meeting, remember to mute unless speaking
- Plan to start the 20 October CCDG meeting at 09:30 rather than 10:00
 - Would members prefer to start all future meetings at this time?
- Starting to think about 2021 meeting dates:
 - Is the third Tuesday of the month still the most convenient date?
- As soon as all CCDG members can access Teams, we'll move from Skype to Teams meetings

MS Teams area & etiquette

- Please let us know if you're unable to access Teams so that we can trouble-shoot
- MS Teams house rules when editing a document:
 - Use redlining and/or comment boxes so we know what you've edited
 - @ the document's owner (e.g. @Kevin Spencer) to let them know you've edited
 - Typing @CCDG tags everyone in the channel
- CCDG channel sits within a wider AWG Teams area:
 - Please keep CCDG-only chat in the CCDG channel and CCDG-only files in that channel's file store
 - Remember AWG members can still also see CCDG posts/files (and vice versa)
- <https://support.microsoft.com/en-us/office/microsoft-teams-video-training-4f108e54-240b-4351-8084-b1089f0d21d7>

Meeting objectives

- Sign off content of Working Documents B (GSPGCF) and C (Run-off), for inclusion in the consultation document
 - Consultation document wording won't be identical, so focus on accuracy of content
- Continue nailing-down content of Working Document A, for sign-off at Oct CCDG
- Discuss Elexon's suggested skeleton structure for consultation document



Scope of Oct-Dec CCDG meetings

Kathryn Coffin

Latest CCDG milestone dates

- After discussing further with Ofgem, we've agreed to push back the CCDG's consultation to give time to complete the outstanding design areas:

Milestone	Date
Agree detailed TOM design areas	Oct 2020 meeting
Agree Code Change Matrices	Nov 2020 meeting
Agree final consultation document	Dec 2020 meeting
Publish TOM design & matrices consultation	Mid-December 2020
Consultation closes (6 weeks' duration)	Late January 2021
CCDG discusses consultation responses	Feb 2021 meeting

- Ofgem's also asked us to consider a potential extra piece of CCDG work on transition, to fall between the TOM design consultation & legal drafting consultation
 - We're currently discussing what this could look like and how it fits into the plan

Scope of next three CCDG meetings

20 October 2020

- Sign-off Working Doc A (incl. outstanding areas)
- Review all TOM design areas against Ofgem's design & development principles
- Agree consultation questions
- Discuss SEC matrix & CUSC approach?

17 November 2020

- Review key messages and overall content in draft consultation document (followed by full correspondence review)
- Sign-off Code Change Matrices
- Begin transition deliverable? (time allowing)

15 December 2020

- Final sign-off of consultation document (to be issued after meeting)
- Begin/continue transition deliverable?



Updates on other SCR work streams

Saskia Barker



Agree Working Document B

Kevin Spencer

What's changed in v0.8?

GROUP CORRECTION TRANSITION APPROACH

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; and
- Both the new and existing CCC IDs Scaling Weights will be revised at the same time.

The Volume Allocation Run (VAR) will use the consumption and scaling weights associated with both existing and new CCC IDs to determine and apply the GSPGCFs to create corrected volumes for each Balancing Responsible Party (BRP). At the end of Settlement Run off the existing CCC IDs and associated GSPGCF Scaling weights will be removed from the ISD data.



Agree Working Document C

Matt McKeon

Recap of initial strawman and CCDG discussion

- These MHHS Settlement Runoff proposals were developed by the CCDG and the Software Technical Advisory Group (STAG), who provided input on the NHH software and operational impacts
- STAG drafted an initial strawman at its meeting in May 2020 and debated a number of possible options before making a recommendation of its preferred approach to the CCDG
- CCDG further developed the recommendation and added other elements such as ensuring that the approach for the existing HH market was consistent with the recommendation
- These recommendations and supporting information have been set out in Working Document C for CCDG agreement

What is Settlement Runoff and when does it start?

- **MPAN Runoff** (i.e. for a Metering System) commences once it has been successfully migrated to the TOM.
- **Participant Runoff** (e.g. for a Data Collector or Data Aggregator) commences once all MPANs to which it was previously appointed have been migrated to the TOM.
- **Market Runoff** covers the period from when the first MPAN for the first market participant enters its runoff phase to when the last Metering System for the last market participant has completed its runoff. Market runoff can therefore overlap with migration as early movers are starting runoff while later movers are still migrating.
- *Migration sets the last Settlement Date to be reconciled under the old arrangements (for a participant, the last day is the day on which the last Metering System has successfully migrated to the TOM). Participants who migrate earlier will be able to exit from runoff earlier, so the preferred approach is to set required 'bookend' dates and allow participants to manage their own migration and runoff timetable.*

Migration assumptions used in the MHHS runoff proposal

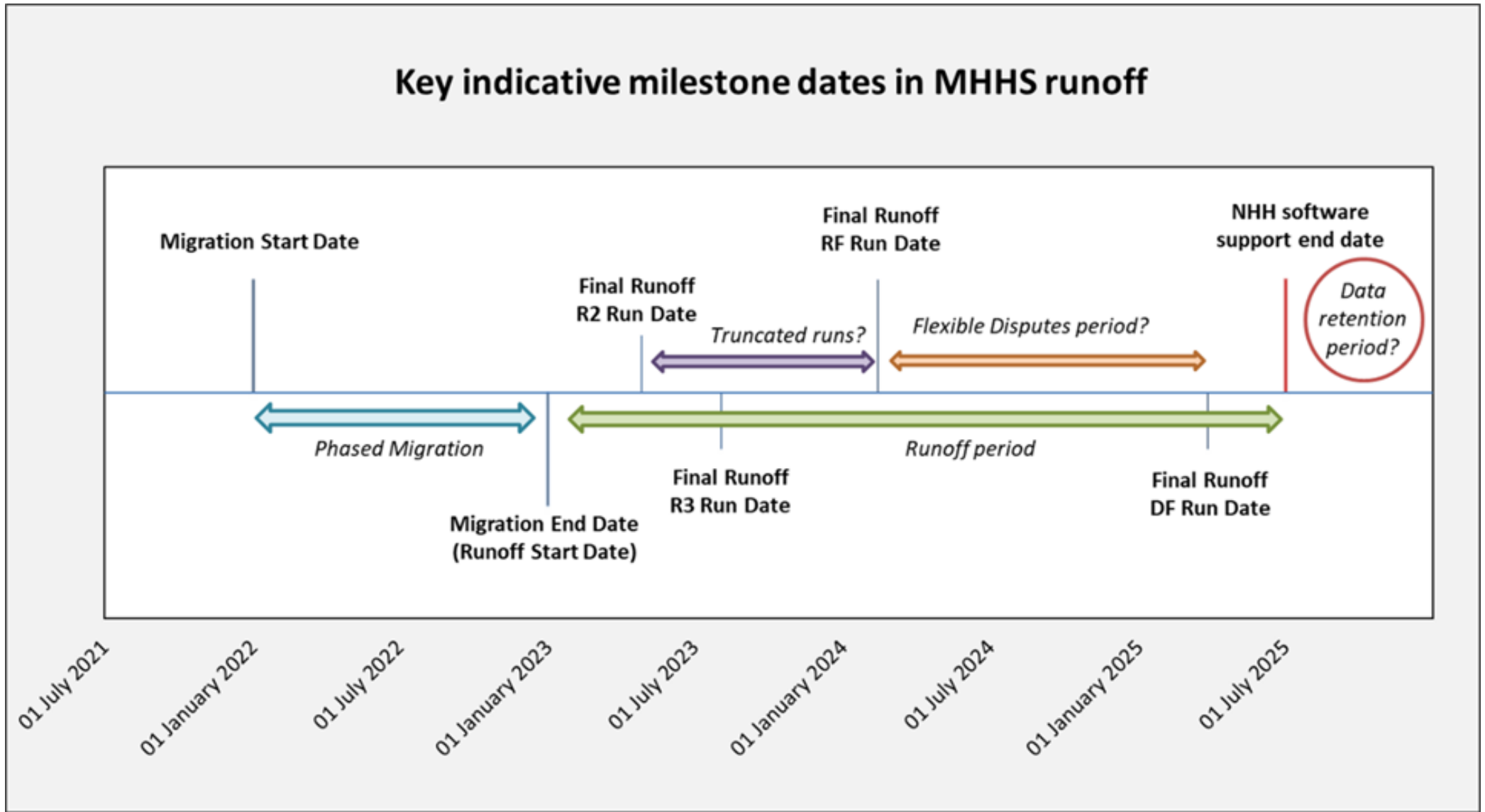
- Migration from old arrangements to the TOM will occur on a calendar day basis
- Once migrated, data for Settlement Dates prior to migration should change only for material error
- Migration end can be set as a 'hard' date because it only requires operational TOM services
- **Market migration** will have occurred when all MPANs have been successfully migrated to the TOM
- NHH Metering Systems can be settled up to a register reading at midnight on the cutover date

Settlement Runoff – software dependencies

Oracle Database Releases

Release	GA Date	Premier Support Ends	Extended Support Ends	Sustaining Support Ends
Enterprise Edition 12.1	Jun 2013	Jul 2018	Jul 2022	Indefinite
Standard Edition (SE) 12.1	Jun 2013	Aug 2016	Not Available	Indefinite
Standard Edition One (SE1) 12.1	Jun 2013	Aug 2016	Not Available	Indefinite
Standard Edition 2 (SE2) 12.1	Sep 2015	Jul 2018	Jul 2022	Indefinite
12.2.0.1	Mar 2017	Nov 30, 2020 (Limited Error Correction Period for 12.2.0.1 - Dec 1, 2020 – Mar 31, 2022) ¹	Not Available	Indefinite
18c	Jul 2018	Jun 2021	Not Available	Indefinite
19c (Long Term Release)	Apr 2019	Apr 2024	Apr 2027	Indefinite

Settlement Runoff - key milestone dates



CCDG's preferred option for running off NHH data

- **'Freeze' the NHH data in settlement for MPANs once they have been migrated to the TOM**
 - As far as is possible, data in legacy NHH systems is not amended except in the cases of material settlement error
 - A 'freeze' could be introduced for individual MPANs at the point they migrate, and to a NHHDC's portfolio once it falls below the critical level of appointments required to sustain that DC
 - This option would not prevent material corrections to data at later runs, but may entail doing so outside normal Volume Allocation processes such as through ESDs
 - Criteria for such corrections will be developed under the transitional assurance arrangements and as part of the Trading Disputes Technique Review

Considerations for HH runoff

- The runoff for HH should be simpler than for NHH, as the main element of migration is the transition from using HHDA to submitting disaggregated data to BSC Central systems, which requires HHDCs to apply any corrections.
- Once the appointed HHDA has been de-appointed, it should be straightforward for that HHDA to submit the necessary files. In HH, this data is typically based ~99% on actual metered consumption by the R1 run, and so the option to accelerate the runoff in HH may be more justifiable than for NHH.
- As with NHH, a mechanism for handling Trading Disputes will need to be retained.
- *HHDAs currently submit data at later reconciliation runs for other non-Settlement purposes. Any contraction of the Settlement timetable should consider the impact on these other requirements, as is being done for the new TOM Settlement timetable.*



Agree appointments diagram

Mark De Souza-Wilson

Action 08/05

- Elexon to address further offline comments from a CCDG member on the appointments process diagram and recirculate the diagram to the CCDG
- Updated diagram circulated with CCDG09 papers



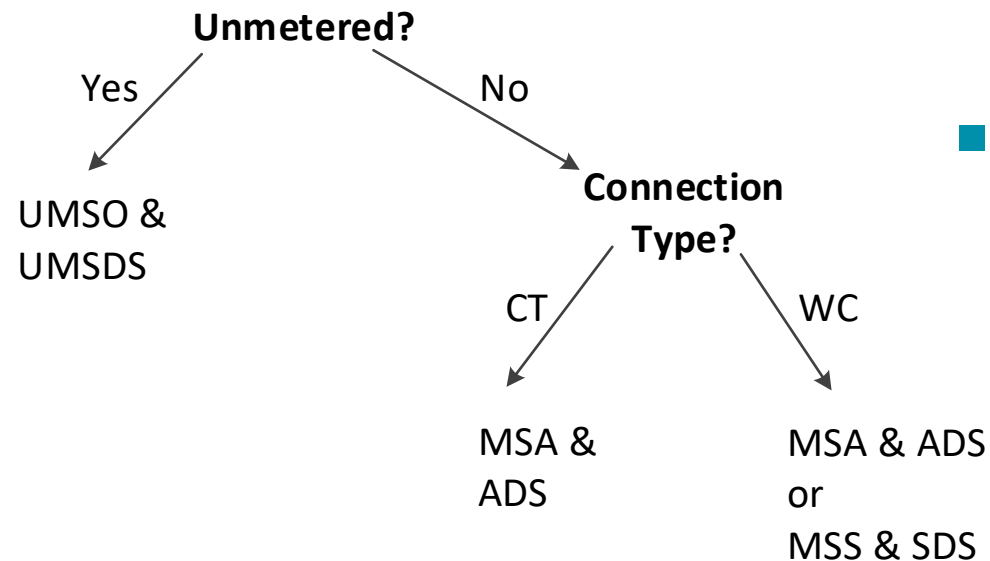
Change of Meter/Segment

Mark De Souza-Wilson

Action 08/11

- Elexon to collaborate with volunteer CCDG members to work up a Change of Meter / Market Segment solution further before bringing this back to the whole CCDG.

Which Services should be appointed? (revised)



- Metering Service and Data Service must be aligned to Market Segment
- Where no meter installed yet, Services should be appointed based on expectation of the site

How should we be dealing with a register read meter on a CT connection?

Change of Service process

Suppose Supplier wants to change the Meter type for a site:

1. Supplier provisionally appoints new Metering Service & Data Service and puts flag in SMRS (Change of Segment Indicator)
2. New Metering Service removes old Meter (any type) and installs their own Meter type
3. New Metering Service changes Meter Type in SMRS removing COSI flag
4. This confirms provisional Service appointments
5. If Meter Type in SMRS didn't change, the COSI and provisional appointments would continue for x days and then expire
6. If Segment doesn't change within those x days, provisional appointments are cancelled



Demand Control Events

Matt McKeon

Demand Control Events – Issue 89 recommendations

- Limit when the SAP is run?
 - **RECOMMENDATION - do nothing**
 - P397 presents a pragmatic solution - await Ofgem decision
 - If approved, Panel can consider alternative Cost/Benefit methods; If rejected – should we recommend an a new proposal?
 - Whilst excluding SO-flagged actions might be a simple option, it is contrary to EBSCR and System Prices during flagged DCE may still be high, therefore requiring SAP
- Limit the extent or method of adjustment?
 - **RECOMMENDATION – do nothing**
 - NHH system costs are largely sunk
- What about DG and LDSO disconnections?
 - **RECOMMENDATION – dedicated Issue Group(s)** for NETSO-led DG disconnection and LDSO-led disconnections
 - **RECOMMENDATION – liaise with Grid Code Manager** to raise concerns that Demand Control may disconnect DG

Demand Control Events – HH SAP overview

Recap of the current HH Settlement Adjustment Process:

- Once notified of the disconnected MSIDs, the HHDC estimates what the energy consumption *would have been* if the disconnection event had not occurred
- The actual volume (less any 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
- Disconnected volumes are submitted to SVAA as separate files (DPM) alongside the normal SPM files*, containing the aggregated disconnection volumes
- This volume is added back into Supplier's BM volume by the SVAA to prevent any windfall payments associated with the Demand Control Event.

**This is an important difference compared to the NHH process where the SPM data has to be adjusted because the profiles that would otherwise be used are wrong. The TOM design also fortuitously avoids this because load shapes will reflect the DCE profile.*

Demand Control Events – how could it work in the TOM?

- Using a '**bottom up**' (MSID-level) solution as applied in HH now:
 - MDS would need to hold reference consumption or 'additional consumption units' alongside the actual metered volumes from the DS – who would calculate it?
 - When the DCE-impacted Settlement Date is processed by the VAS (SVAA), a second aggregation would need to be run for the Disconnected Volume only
 - Disconnected Volume would be applied post-VAR to adjust Supplier imbalance
 - Main concern is scalability – is it proportionate to do this at MSID level for large numbers of Smart domestic customers? DCE00201 impacted ~4000 HH MSIDs but ~1.2 million NHH MSIDs.
- Using a '**top down**' solution to allocate the total disconnected volume to Parties:
 - Rather than estimate disconnected volumes based on MSID-level metered data, this method could use NETSO's Demand Control Instructions to apportion the total disconnected energy between Parties based on Credited Energy or Market Share.

Demand Control Events – how could it work in the TOM?

- Using an **intermediate solution** implemented in the VAS (SVAA):
 - *This is still a WiP. I have a few ideas that need to be sense-checked.*
 - MSID-level consumption is not actually needed to adjust each Supplier's imbalance position, only totals for each Supplier BM Unit in each Settlement Period.
 - Therefore, VAS could perform this calculation once supplied with the disconnected volume, whether at MSID level or at Supplier BM Unit level. MDS could provide the reference data sourced from other Settlement Dates to calculate the difference.
 - The basis of this process could already exist in the solutions implemented for Mods P344 (TERRE) and P354 (ABSVD), where SVAA is sent a list of MSIDs and metered volumes which it sums up and applies an adjustment to Supplier positions in SAA.
 - Solution could still use data from the Data Services, but the CCDG preference is to relieve Data Services from their role in the current process. Once MDS has access to disaggregated data for all Settlement Dates, suitable reference consumption data to work out disconnected volume would already be held centrally.

Demand Control Events – solutions discussion

- Comparison of pros and cons of each solution option:
 - **'top down'** approach – advantages and disadvantages
 - **'bottom up'** approach – advantages and disadvantages
 - **intermediate** approach – is this worth developing further?
- What should the role of Data Services be (if any) in quantifying and submitting the disconnected volumes, whether at MSID or Supplier BM Unit level?
- What is the most appropriate level to estimate the disconnected volume?
- Does the CCDG have enough information to recommend a preferred solution?



Documenting new registration data items

Matt McKeon

New data items captured by the CCDG-AWG subgroup (1)

Data Item	Definition	Source	Type	Size
Connection Type	A code to tell the Metering Service the type of connection arrangements at the metering point (WC, LVCT, HVCT, EHVCT).	DNO	String	10
Connection Type Effective From	The date and time from which the metering point Connection Type is in effect.	DNO	String	14
Customer Direct Contract Metering Service	An indicator to show if a direct customer contract exists between the customer at the metering service and the Metering Service provider.	Metering Service	String	1
Customer Direct Contract Data Service	An indicator to show if a direct customer contract exists between the customer at the metering service and the Data Service provider.	Data Service	String	1
Disconnection Date	Used when the metering point is being disconnected and a Metering Service is therefore no longer required (there will be no new Metering Service provider as a result).	Registration Service	String	8

New data items captured by the CCDG-AWG subgroup (2)

Data Item	Definition	Source	Type	Size
Domestic Premise Indicator	A flag that indicates if the MPAN of the registration appointment is used to identify a domestic premise.	Registration Service	String	1
Domestic Premise Indicator Effective From	The date from which the metering point Domestic Premise Indicator is in effect.	Registration Service	String	8
Import Export Relationship MPAN	When this metering point is part of an import/export pair, this identifies the related import or export metering point.	DNO	Integer	13
Market Segment	An enumeration of Smart/Advanced/Unmetered.	Registration Service	String	10
Market Segment Effective From	The date from which the metering point Market Segment is in effect.	Registration Service	String	8
Market Service Type	An enumeration of Metering Service/Data Service	Registration Service	String	20
Smart Device ID	The Smart Device ID for a smart meter. This is also known as the DCC GUID and is further defined within the DCC interface specifications.	Metering Service	String	23

Approach to document these in the CCDG consultation

- ELEXON and CCDG members on the subgroup do draft 'plain English' explanatory rationale and associated business rules for each of the new Registration data items
- Will also include new or TOM-critical rules based on existing registration data items
- After internal review, a draft will be circulated to CCDG members ahead of the next meeting for comment. This draft will be in the format to be used in the consultation
- Full table of registration data items to be shared as an Appendix to the consultation
- Presentation of Appendix and explanation of new items and rules to be agreed and signed off at the October CCDG meeting (CCDG10)



Skeleton consultation structure

Kevin Spencer

Skeleton structure

CONTENTS

EXECUTIVE SUMMARY.....	3
INTRODUCTION.....	3
HOW TO RESPOND TO THIS CONSULTATION	3
OVERVIEW OF THE MHHS TARGET OPERATING MODEL	3
MEASUREMENT CLASSES AND MARKET SEGMENTS.....	3
CONSUMPTION COMPONENT CLASSES	3
NON-SMART METERS WITH SWITCHED LOAD	3
INDUSTRY STANDING DATA	3
MARKET-WIDE DATA SERVICE DATA PROCESSING REQUIREMENTS.....	3
VOLUME ALLOCATION SERVICE TRANSITIONAL DATA PROCESSING REQUIREMENTS	3
REGISTRATION: DATA ITEMS, APPOINTMENTS AND CONFIRMATIONS	4
EXCEPTION REPORTING.....	4
GSP GROUP CORRECTION	4
SETTLEMENT RUN-OFF APPROACH	4
EVALUATION OF CCDG DESIGN AGAINST OFGEM DESIGN AND DEVELOPMENT PRINCIPLES.....	4
OUTSTANDING AREAS AND DEPENDANCIES ON OTHER AREAS OF INDUSTRY CHANGE.....	4
SUMMARY AND NEXT STEPS	4
APPENDIX A – DETAILED DESIGN INFORMATION (FROM WORKING DOCUMENTS A TO C)	4
APPENDIX B – CCDG DISCUSSION AND RATIONALES (FROM HEADLINE REPORTS).....	4
APPENDIX C – CONSOLIDATED LIST OF CONSULTATION QUESTIONS	4



CCDG08 Headline Report & actions

Kathryn Coffin



Summary & next steps

Kathryn Coffin

ELEXON

