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Code Change and Development Group

Meeting 05 – Part A (by Skype)

21 April 2020
ELEXON

Introduction, apologies & meeting objectives

Kathryn Coffin

ELEXON

Meeting objectives – CCDG05 Part A

Agenda item	Materials	Lead
2. Updates from other work streams	Verbal	Saskia & Kevin
3. Load shaping methodology for Register Read Meters with switched load	These slides / estimation method analysis	Kevin
4. Action 04/07 (UTC/GMT & Supplier/agent appointments)	These slides	Kevin
5. Action 04/06 (Use of partial data)	These slides	Kevin
6. Review status of straw men & outstanding areas for discussion	These slides / Scaling Weights spreadsheet	Matt, Mark & Kevin
7. CCDG04 Part B Headline Report and actions	These slides/ Draft headlines / Actions log	Kathryn
8. Summary, next steps and plan for CCDG05 Part B	These slides	Kathryn

Significant Code Review update

Saskia Barker

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CCDG resourcing and planning

Kathryn Coffin

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CCDG resourcing and planning

- Has your resourcing situation changed since CCDG04 Part B?
- CCDG05 Part B on 1 May will cover:
  - Reviewing Code Change Matrices across impacted Industry Codes
  - Answering ELEXON's BSC legal drafting questions
- CCDG06 on 19 May could cover:
  - Agreeing remaining detail of Registration and Run-off straw men
  - Capturing any extra transitional requirements
- CCDG07 on 16 June could cover:
  - Agreeing Working Documents A, B and C
  - Assessing straw men against TOM Design/Development Principles
  - Agreeing key messages and questions for industry on the CCDG's work so far
- If the consultation's pushed back, ELEXON could use the rest of June and July to:
  - Finesse Code Change Matrices (with other code bodies)
  - Publish updates and/or recorded presentations on the CCDG's work to date
  - Start work on structure of consultation document

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Updates from other work streams

CCDG05 Part A

21 April 2020

Other code bodies

Saskia Barker

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Architecture Working Group (and subgroup)

Kevin Spencer

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AWG and joint CCDG/AWG subgroup

Group	Last meeting	Next meeting
AWG	24 March (& 7 April checkpoint)	28 April
CCDG / AWG subgroup	1 April & 20 April	TBC

- Subgroup is identifying business requirements for data exchange between TOM services, so that AWG can complete interface specifications
- For the subgroup, Ofgem and ELEXON are:
  - Working on a plan/timeline of subgroup deliverables up to ~July 2020
  - Preparing to run this past subgroup members to see if it's feasible
  - Considering whether to invite a couple of extra members for specific deliverables (if so, we'll be in touch with those members)
  - Considering the best way to share outputs with CCDG and AWG (e.g. drip-feed or single joint meeting later in the summer)

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Action updates

CCDG05 Part A

21 April 2020

Load shaping methodology for Register Read Meters with switched load

Kevin Spencer

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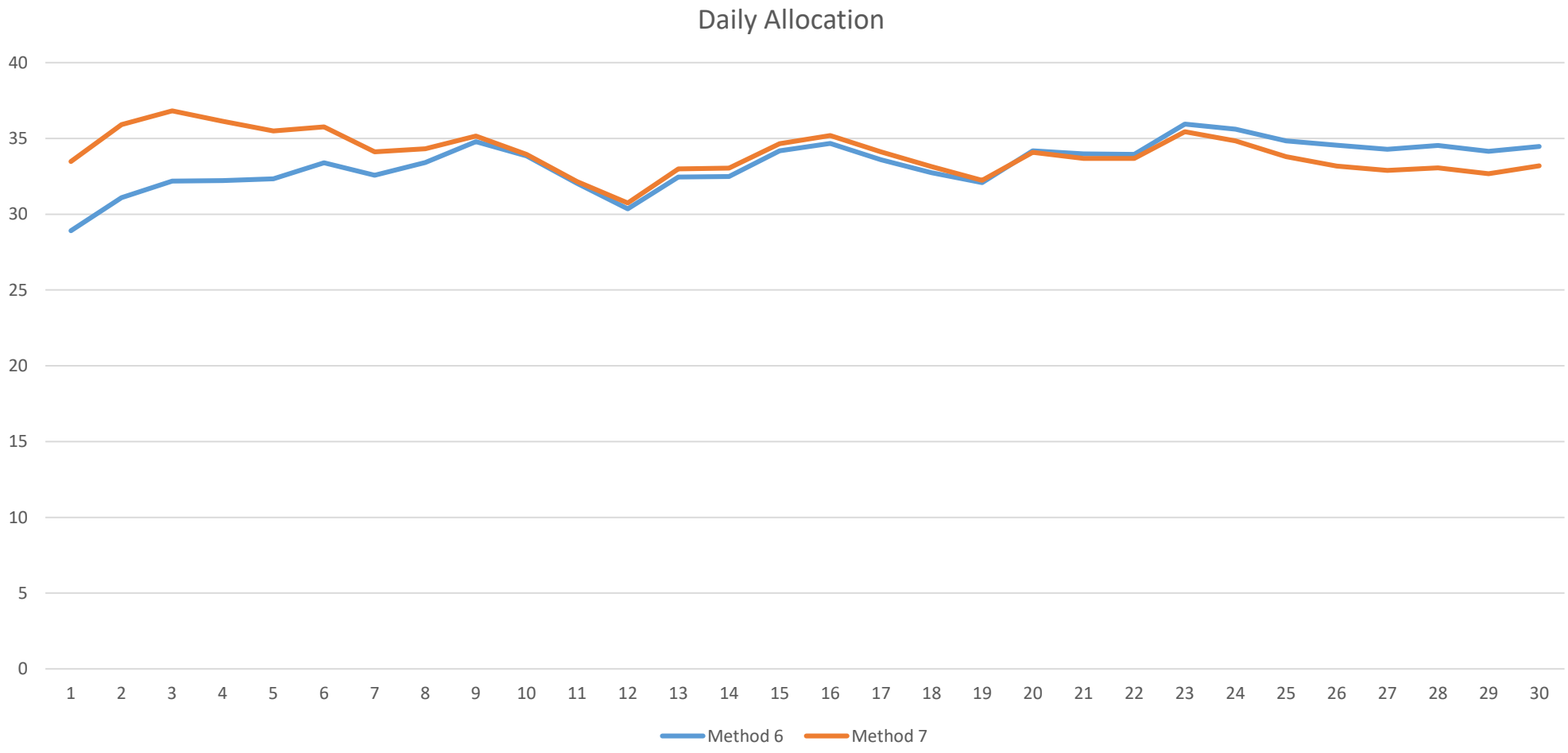
Actions from CCDG04 Part B

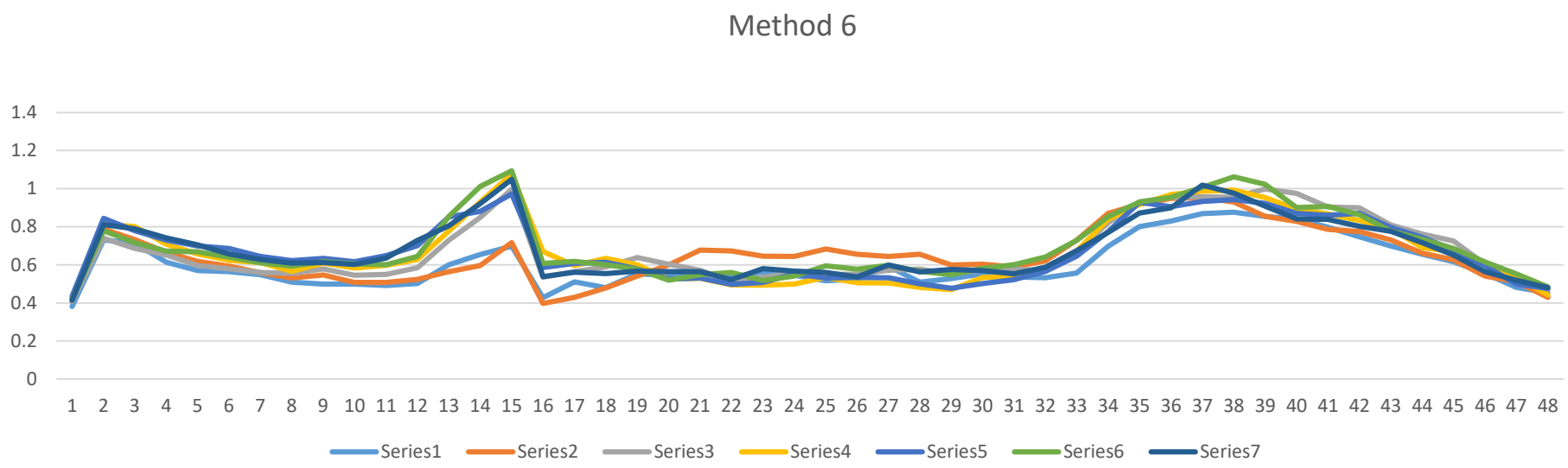
Action no.	Action	Owner	Due date	Action update
04/10	ELEXON to write up, in one of the Working Documents, the solution for adjusting Load Shapes for Register Read Meters with switched load. Write-up to clarify which types of switched load the solution covers.	Kevin Spencer	19/05/20	Ongoing.
04/09	ELEXON to use the SPM snapshots at the SF Run, and the counts by Profile Classes 2&4 and SSCs, to tabulate the split between customers on Midnight to 7 and 00:30 to 07:30 for each GSP Group.	Mark De Souza-Wilson	21/04/20	Completed. ELEXON circulated the tabulated counts to the CCDG on 7 April 2020. Agenda item at CCDG05 Part A.
04/08	ELEXON to produce a spreadsheet showing the difference between using Estimation Methods 6 or 7 to created adjusted Load Shapes for Register Read Meters with switched load.	Kevin Spencer	21/04/20	Completed. ELEXON circulated the spreadsheet to the CCDG on 7 April 2020. Agenda item at CCDG05 Part A.

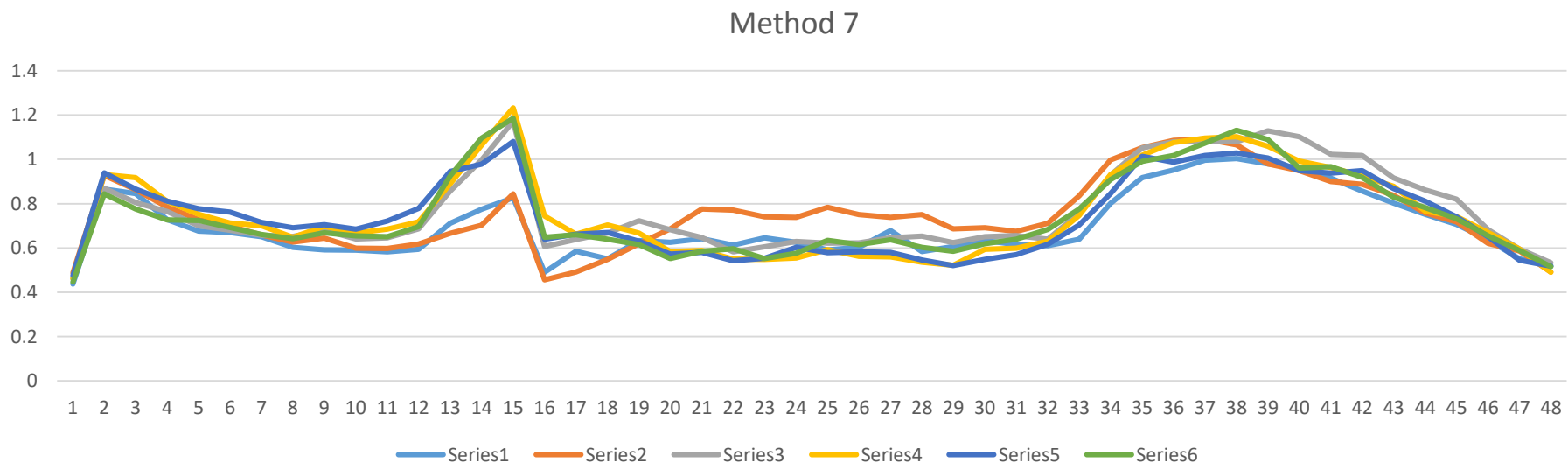
Comparison of Estimation Methods 6 and 7 (1 of 2)

- Model showed Method 6 was more accurate and should be used where actual advance available:



Comparison of Estimation Methods 6 and 7 (2 of 2)





Regimes by GSP Group (_A to _F)

	GSP Group	Profile Class	Standard Settlement Configuration	SumOfEAC Count	SumOfAA Count	Total MPANs	SSC Definition
SF	_A	2	151	284476	44433	328909	7-hour E7
SF	_A	2	244	315095	45913	361008	7-hour E7
SF	_A	4	151	24708	2589	27297	7-hour E7
SF	_A	4	244	27187	2063	29250	7-hour E7
SF	_B	2	151	427545	73779	501324	7-hour E7
SF	_B	2	244	13870	5585	19455	7-hour E7
SF	_B	4	151	49843	4130	53973	7-hour E7
SF	_B	4	244	226	20	246	7-hour E7
SF	_C	2	151	34725	3924	38649	7-hour E7
SF	_C	4	151	6086	748	6834	7-hour E7
SF	_C	4	244	13380	478	13858	7-hour E7
SF	_D	2	151	67518	6837	74355	7-hour E7
SF	_D	4	151	6428	550	6978	7-hour E7
SF	_E	2	151	199009	20508	219517	7-hour E7
SF	_E	2	244	3716	1613	5329	7-hour E7
SF	_E	4	151	32114	2385	34499	7-hour E7
SF	_E	4	244	38	3	41	7-hour E7
SF	_F	2	151	8084	1130	9214	7-hour E7
SF	_F	2	244	39121	4283	43404	7-hour E7
SF	_F	4	151	2075	100	2175	7-hour E7
SF	_F	4	244	9809	483	10292	7-hour E7

Regimes by GSP Group (_G to _M)

	GSP Group	Profile Class	Standard Settlement Configuration	SumOfEAC Count	SumOfAA Count	Total MPANs	SSC Definition
SF	_G	2	151	109601	14516	124117	7-hour E7
SF	_G	2	244	2460	966	3426	7-hour E7
SF	_G	4	151	20072	1848	21920	7-hour E7
SF	_G	4	244	713	28	741	7-hour E7
SF	_H	2	151	47190	5235	52425	7-hour E7
SF	_H	2	244	2185	879	3064	7-hour E7
SF	_H	4	151	16269	885	17154	7-hour E7
SF	_H	4	244	392	6	398	7-hour E7
SF	_J	2	151	154820	17626	172446	7-hour E7
SF	_J	4	151	25917	1687	27604	7-hour E7
SF	_K	2	151	19500	2201	21701	7-hour E7
SF	_K	2	244	3254	347	3601	7-hour E7
SF	_K	4	151	6550	292	6842	7-hour E7
SF	_K	4	244	1541	32	1573	7-hour E7
SF	_L	2	151	14197	1896	16093	7-hour E7
SF	_L	2	244	107240	12085	119325	7-hour E7
SF	_L	4	151	4559	466	5025	7-hour E7
SF	_L	4	244	13436	752	14188	7-hour E7
SF	_M	2	151	73567	7859	81426	7-hour E7
SF	_M	2	244	1874	633	2507	7-hour E7
SF	_M	4	151	16812	818	17630	7-hour E7
SF	_M	4	244	195	3	198	7-hour E7

Scottish Regimes

- Model does not fit well for Scottish GSP Groups
- More analysis required to understand best approach for these
- _ N does not have any MPANS in SSC0151 or SSC0244
- _P has a few with SSC 0151 with the most:

SF	_P	2	151	710	125	8357-hour E7
SF	_P	2	244	44	5	497-hour E7
SF	_P	4	151	195	11	2067-hour E7
SF	_P	4	244	19	1	207-hour E7

Actions 04/06 & 04/07 (Partial Data & GMT/ UTC): Straw man requirements for SDS (PSS) & MDS

Kevin Spencer

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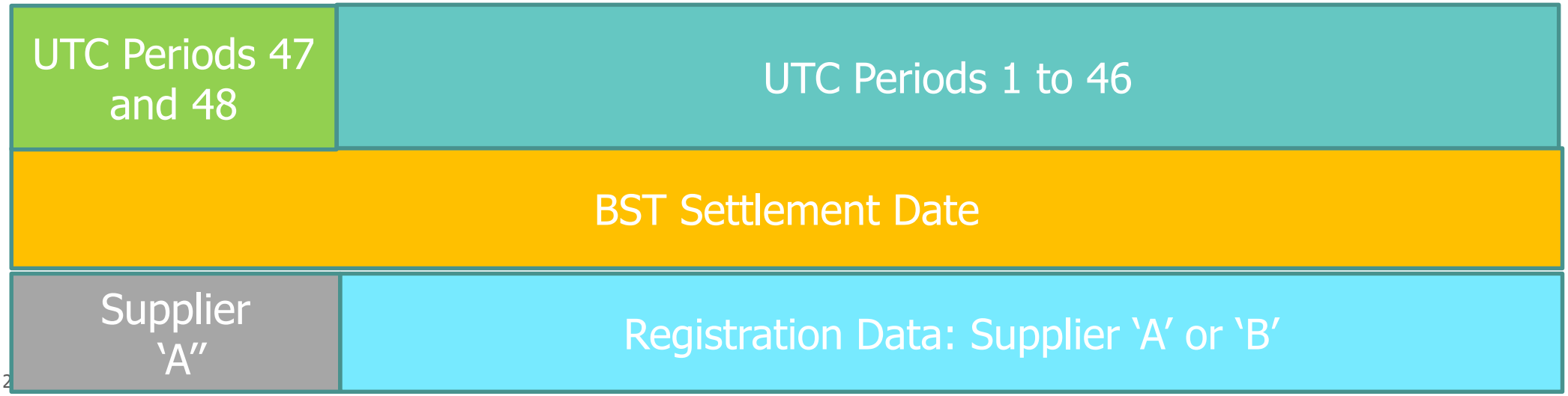
SDS (PSS) requirements

- The SDS shall be appointed on a UTC day basis according the 'effective from' date for the SDS set in the registration system
- The SDS shall collect data for each UTC day that it is appointed regardless of any change of Supplier event
- In processing the data the SDS shall ensure data is only processed for MPANs/ MSIDs that are identified as energised on each UTC day
- The SDS shall process and submit data for a full UTC day (48 periods) even if some periods need to be estimated

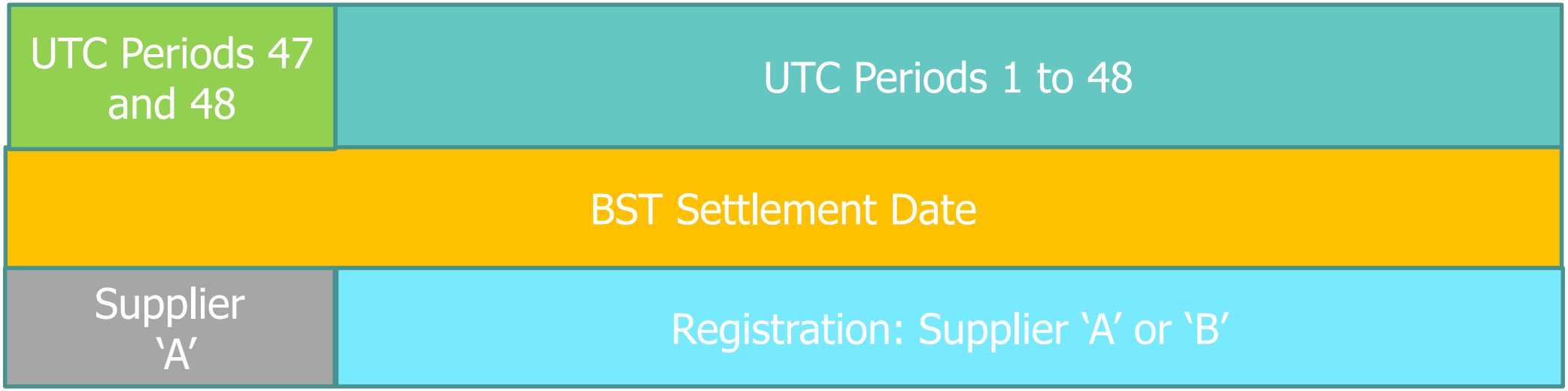
MDS Requirements (1)

- When processing data for a Settlement Day that is in the British Summer Time Period:
- For days not associated with a clock change event the MDS shall process UTC Period 1 to UTC Period 46 and allocate the SP level consumption data to the Supplier identified in the Registration system data using the 'effective from' date for the Supplier.
- The MDS shall process the data for UTC period 47 and UTC period 48 for the previous UTC day and allocate the SP level consumption data to the Supplier identified in the Registration system data using the 'effective from' date for the Supplier.



MDS Requirements (2)

- On the Autumn Clock change day the MDS shall process UTC periods 1 to 48 and allocate to the Supplier identified in the Registration System with the 'effective from' date associated with the UTC day and the MDS shall process the data for UTC period 47 and UTC period 48 for the previous UTC day and allocate to the Supplier identified in the Registration System data using the 'effective from' date associated with the UTC day being processed.



MDS Requirements (3)

- When processing data for the Spring Clock change date the MDS shall process and allocate data for UTC Period 1 to UTC Period 46 to the Supplier identified in the Registration System data using the 'effective from' date for the Supplier associated with the UTC day being processed.

UTC Periods 1 to 46

BST Settlement Date

Registration: Supplier 'A'

Questions

- How do we currently treat Settlement day / UTC day mapping on UTC data flows during the BST period?
- Is the Settlement date for BST dates set on the basis of the UTC period covered by UTC period 3 to 46 and includes the first two periods for the previous Settlement date?
- How do smart meters identify the date associated with the UTC day which maps to two calendar dates?

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Review status of straw men and outstanding areas for discussion

CCDG05 Part A

21 April 2020

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Settlement ‘run-off’ arrangements

Matt McKeon

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Exception reporting

Mark De Souza-Wilson

ELEXON

Exception reporting: From CCDG04 (Part A)

- Registration Service will be responsible for ensuring Registration Data is valid against ISD
- Need to consider what data items are required in the data flow from Data Service to MDS for validation purposes
- Data Services will have responsibilities and actions to maintain data integrity so some validation/exception reporting is perhaps unnecessary

Exception reporting: Meeting 2

Main items:

- Validation of data flow from Registration Service to MDS.
- How to deal with energisation status getting out-of-sync.
- Validation of meter data on ingestion to MDS.
- Incomplete days of data being sent to MDS.
- Exception reporting at II and each settlement run.

Exception reporting: 1

- Registration Service will constantly ensure data consistent with ISD.
  So MDS should perform a simple check for inconsistencies/obvious errors within the data received.

- Can we ensure that Data Services are accurately using registration data and resolving inconsistencies?
  If so, Data Services need not provide the MDS with additional meta data.
  Validation would become a simple check of obvious errors and completeness. In this scenario any error would result in the data being rejected.
  Question for AWG?

Assuming uncertainty about Data Service consistency with Registration Data…

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Exception reporting: 2

- The following data items should to be included in dataflow to MDS, for validation purposes:
  Energisation Status, domestic/non-domestic indicator, GSP Group, LLF, Supplier, Import/Export

- Mismatch on GSP Group, Import/Export, Energisation Status
  - Data rejection and exception report (material risk to settlement)
- Only mismatches with Supplier, domestic/non-domestic, LLF
  - Data processed and exception report

- Data resubmitted for an MPAN, Actual to Estimate
  - Data processed and exception report

- At II and settlement runs exception reports should note estimated/missing data as well as potentially erroneous data

GSPGCF and Scaling Weights / CCCs

Kevin Spencer

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GSPGCF Scaling Weights

- The new Scaling Weights have been mapped to the existing SSCs
- An average was taken of the mapped weights
- So for Measurement Class E on actuals:

CCC	Segment Indicator	Measurement Quantity	Consumption/ line loss	Connection Type Indicator	Estimate / Actual	Quality Rating (Actuals & estimates)	Network Quality Rating	Scaling Weight (Total)
25	A	AI	C	C	A	**0**	**0.8**	**0.8**
27	A	AE	C	C	A	**0**	**0.8**	**0.8**

- 0.8 is used to set the scaling weights for existing CCCids:

Consumption Component Class ID	Measurement Quantity ID	Data Aggregation Type	Metered/ Unmetered Indicator	Consumption Component Indicator	Actual / Estimated Indicator	AA/EAC Indicator			Current Weight	Measurement Class	Proposed Weights
23	AI	H	M	C	A	23	AI	20/08/2014	0	E	0.8
36	AE	H	M	C	A	36	AE	29/10/1999	0	E	0.8

Industry Standing Data

Kevin Spencer

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ISD table: New items

- New CCCids and Scaling Weights added
- New proposal on Advanced Load Shapes to be made at meeting

Potential new ISD			
ISD1.57	ToU GCF Scaling Weights	Won't have	Is this agreed?
ISD1.58	ToU Clock Intervals	Won't have	Is this agreed?
ISD1.59	Market Segment (U/S/A)	Must Have	Part of agreed CCCids
ISD1.60	Whole Current or Current Transformer	Must Have	As per Table 1 above
ISD1.61	Line Loss Factor Identifier	Must Have	To replace LLFCid for identification of LLFs
ISD1.62	Advanced Market Segment Default Load Shapes	Must Have	To be based on data collected from the ADS
ISD1.63	Valid Set of Load Shape Categories	Must Have	
ISD1.64	MHHS Consumption Component Classes	Must Have	As Agreed
ISD1.64	MHHS GSPG Scaling Weights	Must Have	As Agreed

Registration – Data items, appointments & confirmations

Matt McKeon

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CCDG04 Part B Headlines & actions

CCDG05 Part A

21 April 2020

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CCDG04 Part B

- No comments received so far on Headline Report
- Matt's actions all have due date of 19 May because of leave
- Actions to document discussions in Working Documents also have 19 May due date
- All other actions discussed today and/or being progressed through subgroups

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Summary and next steps

CCDG05 Part A

21 April 2020

Next steps

- ELEXON will continue:
  - Working with other code bodies and Ofgem on preparing Code Change Matrices for review at CCDG05 Part B on 1 May 2020 (aiming to circulate matrices on 23 April)
  - Refining Registration and Run-off straw men with comments from CCDG04 Parts A and B, using CCDG member volunteers as needed/available
  - Documenting the other agreed straw men in Working Documents A & B
  - Working with combined CCDG/AWG subgroup on interface requirements
  - Planning approach to CCDG06 on 19 May 2020 (assumed to be by Skype)
  - Discussing work plan with Ofgem in light of prioritisation exercise / ongoing events
- Members to:
  - Let ELEXON know of any changes to your availability / resourcing for CCDG work