Public

Design Working Group

Meeting 14

15 January 2019
ELEXON

Health & Safety

In case of an emergency

An alarm will sound to alert you. The alarm is tested for fifteen seconds every Wednesday at 9.20am

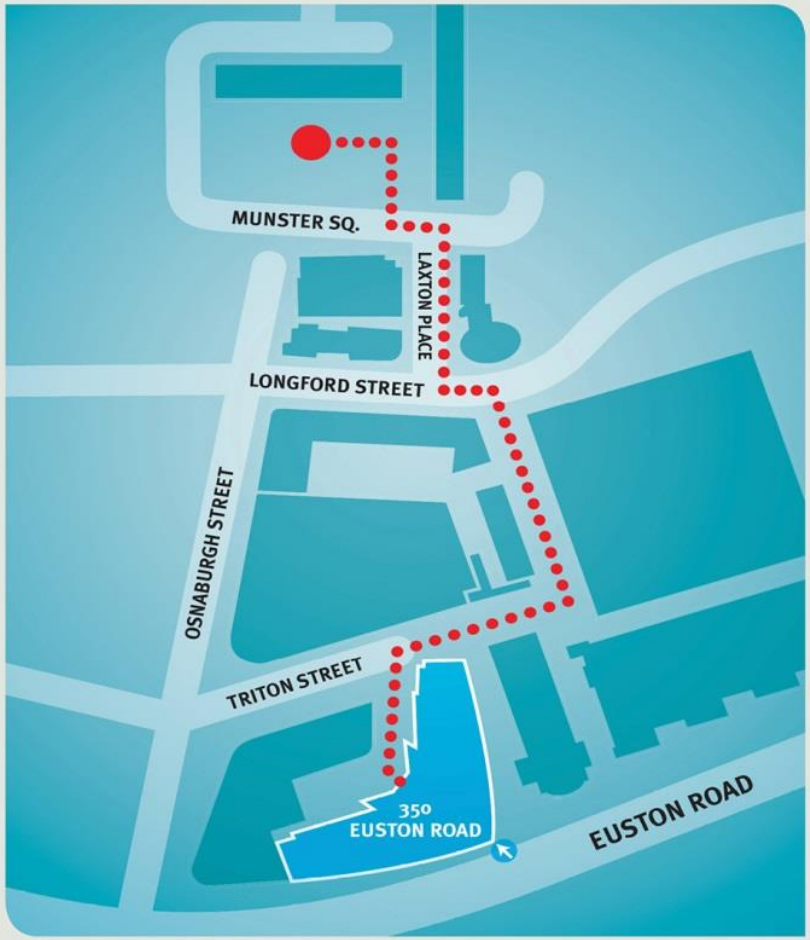
Evacuating 350 Euston Road

- If you discover a fire, operate one of the fire alarms next to the four emergency exits.
- Please do not tackle a fire yourself.
- If you hear the alarm, please leave the building immediately.
- Evacuate by the nearest signposted fire exit and walk to the assembly point.
- Please remain with a member of ELEXON staff and await further instructions from a Fire Warden.
- For visitors unable to use stairs, a Fire Warden will guide you to a refuge point and let the fire brigade know where you are.

When evacuating please remember

- Do not use the lifts.
- Do not re-enter the building until the all clear has been given by the Fire Warden or ground floor security.

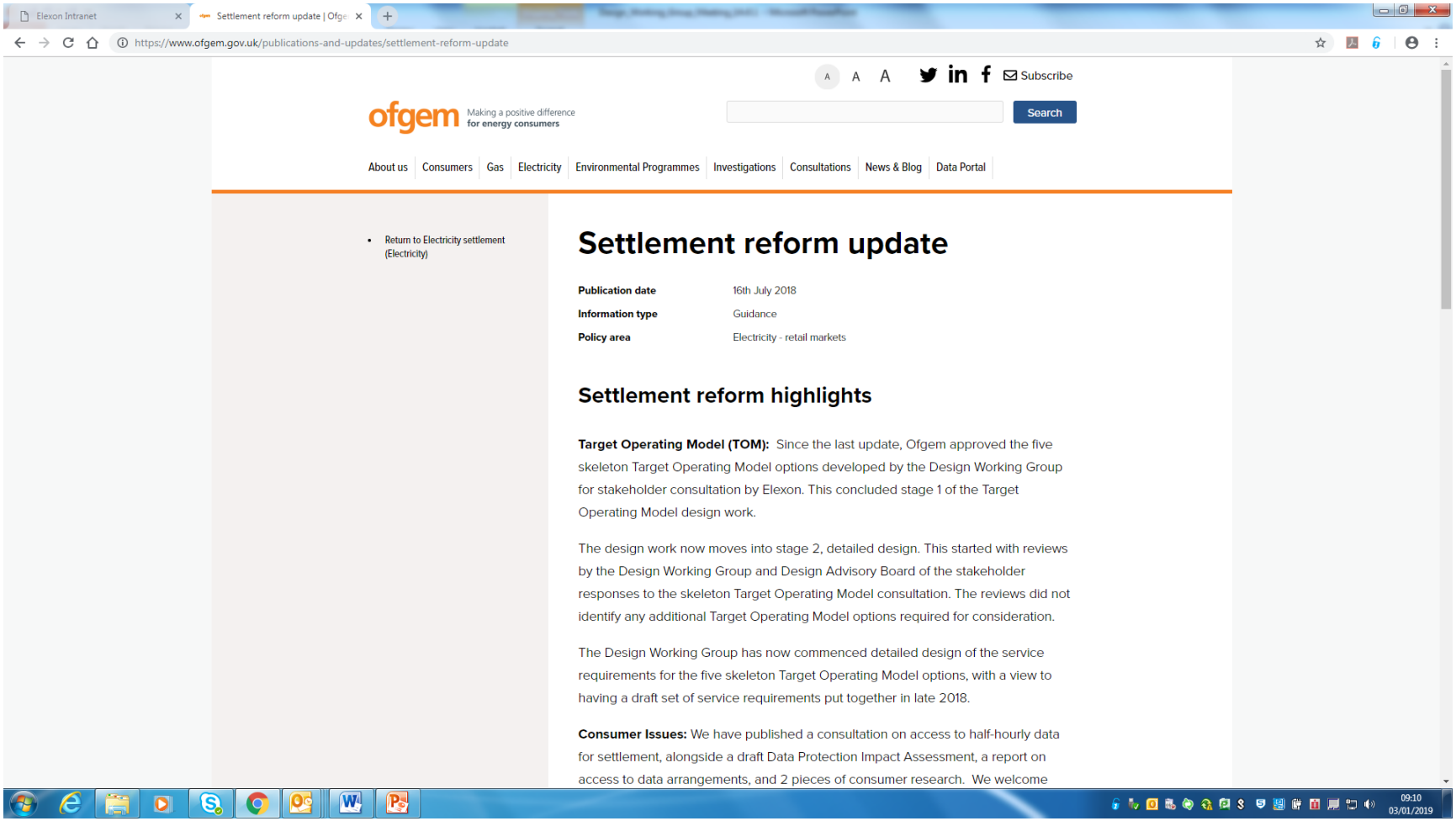
Our team on reception is here to help you, if you have any questions, please do ask them.



Agenda

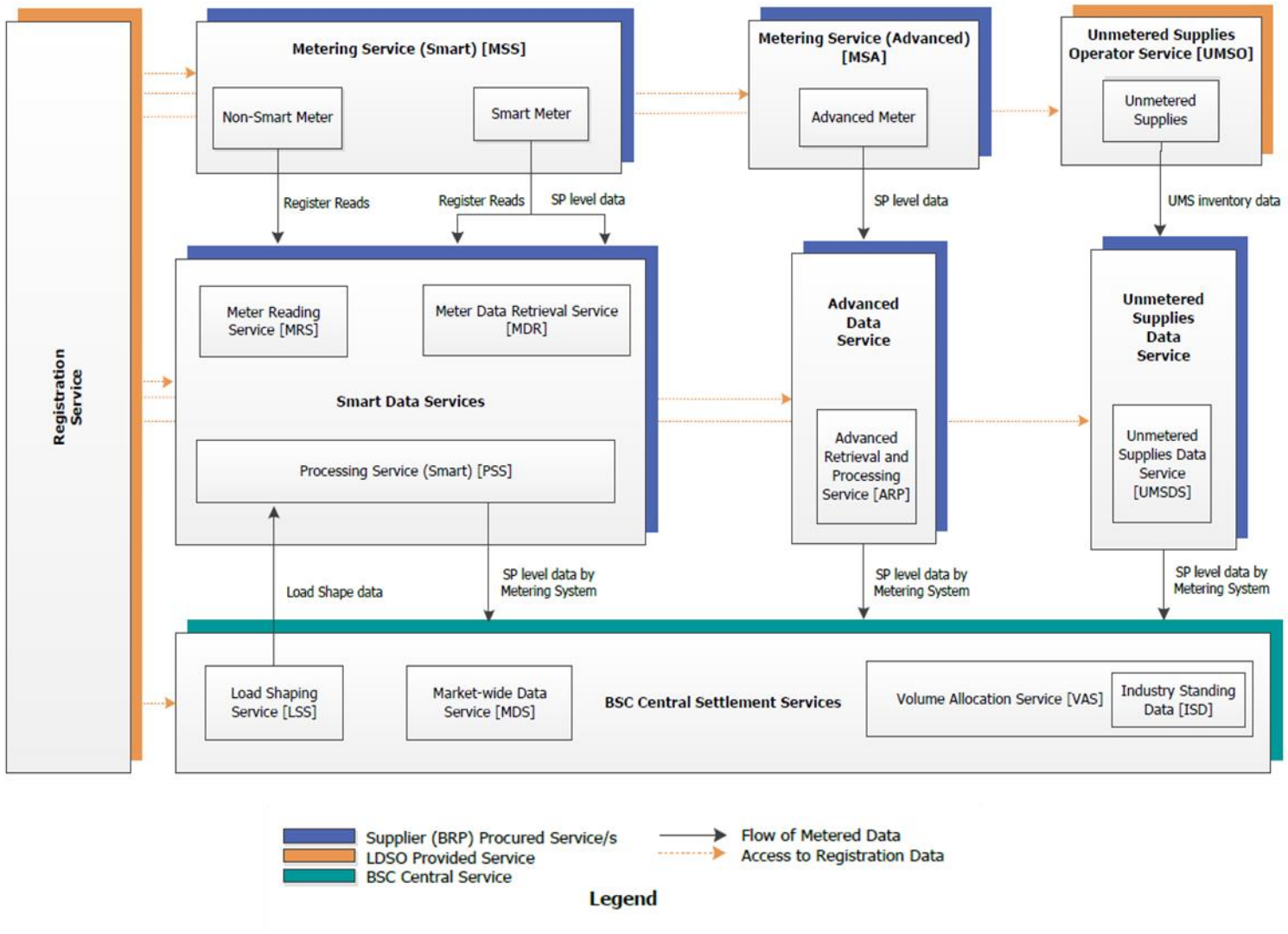
Agenda item	Paper no.	Lead
1. Introduction, apologies and meeting objectives	Verbal	Justin Andrews
2. Ofgem SCR update	Verbal	Anna Stacey
3. DWG Review of Stage 2 Report on recommended TOM: • Overview of the DWG recommended TOM (page 14) • The TOM Services (pages 15-26) • Detailed Service Requirements (Appendix A)	Slides/ Section by section review	Kevin Spencer
4. DWG Review of Stage 2 Report on recommended TOM: • Settlement Timetable (pages 28-40)	Slides	Matt McKeon
5. DWG Review of Stage 2 Report on recommended TOM: • RAID Log (pages 41-44)	Slides	Mark De Souza-Wilson
6. Lunch		
7. DWG Review of Stage 2 Report on recommended TOM: • Meter Data Requirements • Industry Standing Data	Report review	Kevin Spencer
8. Conceptual System Architecture – proposed revisions	Slides	Matt McKeon
9. Development of Transitional Approach • Stage 2 Report (Appendix D)	Slides and report review	Kevin Spencer
10. Other comments on the Report	Report review	Mark De Souza-Wilson
11. Consultation Questions	Slides	Kevin Spencer
12. Summary, actions and next steps	Verbal	Justin Andrews

Ofgem Update



DWG Review of Stage 2 Report on recommended TOM

Page 14:



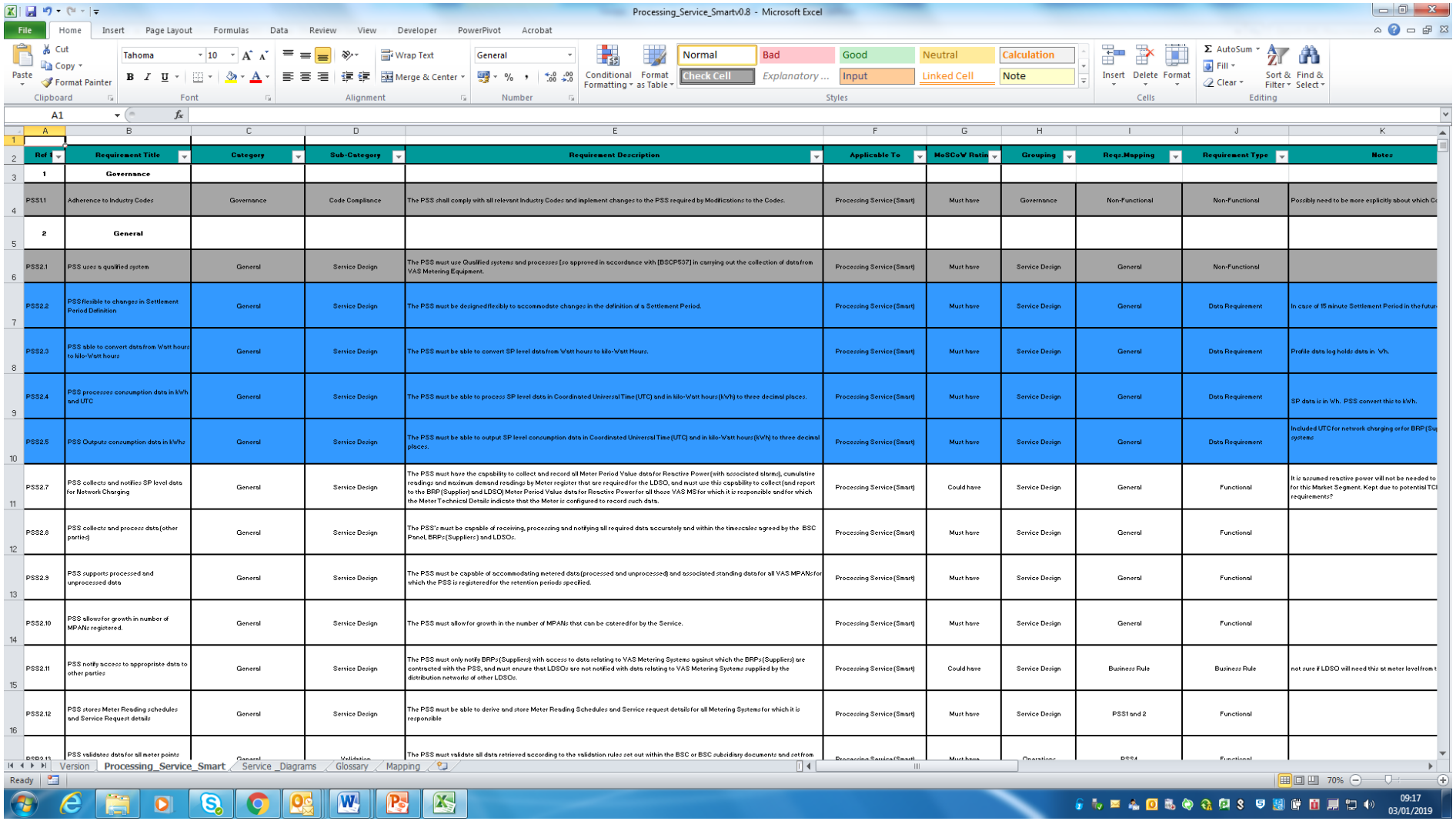
DWG Review of Stage 2 Report on recommended TOM

Pages 15 to 26 – The TOM Services

Market Segment/Service	Service Id	Service Name
Advanced Market Segment and Advanced Data Service	MSA	Metering Service (Advanced)
	ARP	Advanced Retrieval and Processing Service
Smart and non-smart Market Segments and Smart Data Services (SDS)	MDR	Meter Data Retrieval Service
	MRS	Meter Reading Service
	MSS	Metering Service (smart)
	PSS	Processing Service (smart)
Unmetered Supplies Market Segment and Unmetered Data Service	UMSDS	Unmetered Supplies Data Service
	UMSO	Unmetered Supplies Operator Service
BSC Central Settlement Services	LSS	Load Shaping Service
	MDS	Market-wide Data Service
	VAS	Volume Allocation Service

DWG Review of Stage 2 Report on recommended TOM

Detailed Service Requirements (Appendix A):



DWG Review of Stage 2 Report on recommended TOM: Settlement Timetable

Matt McKeon

DWG Review of Stage 2 Report on recommended TOM

Settlement Timetable (Pages 28 to 32):

Run	Timing
Interim Information (II) Run	4 WD
Initial Settlement (SF) Run	5-7 WD (depending on DCC read capability)
Interim Reconciliation Run	33 WD
Final Reconciliation (RF) Run	4 months
Disputes Final (DF) Run	12 months or longer

DWG Review of Stage 2 Report on recommended TOM: RAID Log

Mark De Souza-Wilson

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DWG Review of Stage 2 Report on recommended TOM

Risks (Page 41):

No.	Risk	Notes	Mitigation in place
R01	That changes de-stabilise the existing Half Hourly (HH) Settlement.	The existing HH market of some 260k Metering Systems accounts for around 50% of the energy Settlement. Changes to the Settlement arrangements for smart Metering Systems should not disturb the established activity.	By defining a separate service for the existing HH market, the TOM design does not materially impact the existing arrangements for advanced Meters.
R02	That European legislation requires a move to 15-minute ('quarter-hour') Settlement.		The TOM design refers to 'Settlement Period' and not 'half hour' or '30 minutes'.
R03	That Ofgem's work on charging reform develops requirements, late in the DWG process, that affect the TOM design.		There is close contact between Ofgem's MHHS and charging reform teams. The TOM design has flexibility to support network charging in different ways, depending on the requirements.

DWG Review of Stage 2 Report on recommended TOM

Assumptions (Pages 41-43):

No.	Assumption	Notes	How/when to validate during Stage 2
A01	That Suppliers will remain the Registrants of Metering Systems.	If not the Supplier, the Registrant may be part of a bundled service provider of which the Supplier role is a part. A less likely possibility is that the Distribution Business becomes the Registrant.	By keeping a watching brief on Ofgem's review of the future market supply arrangements – however, this review will not conclude during Stage 2 timescales.
A02	That the communication networks (specifically the Data and Communications Company (DCC)) will be able to handle the amount of data that will be required for MHHS arrangements – either through its current system or by making changes to that system.	DCC will need to look at all the capacity considerations.	By confirming the assumptions behind the DCC's existing capacity, and thereby if/what additional capacity is required. ELEXON and Ofgem are currently discussing this with the DCC. The DCC will also provide an impact assessment during Stage 2, to support Ofgem's MHHS Business Case.
A03	That the DCC is able to meet its SLAs in terms of maintaining successful communication links with Meters.	Assumed that BEIS will ensure this under the DCC licence.	Cannot be validated during Stage 2 timescales.

DWG Review of Stage 2 Report on recommended TOM

Issues (Page 43):

No.	Issue	Notes	How to progress
I02	Related Meters	There are issues with losing identification of the related Metering System when transitioning Sites between HH and Non Half Hourly (NHH) Settlement.	By keeping a watching brief on the resolution of this issue under the Faster Switching SCR, where the registration system will need to hold Related Meter as a data item. The DWG also believes that this is not an issue once a smart Meter is installed.
I03	Identifying types of customers and metering at point of sale	There is an issue with identifying what type of metering and type of data can be accessed from customers at point of sale. E.g. legacy NHH, Smart HH/NHH.	By keeping a watching brief on the resolution of this issue under the Faster Switching SCR, where the proposal is that Meter Technical Details are moved to the Supplier Meter Registration Service (SMRS). The expectation is that SMRS will be notified when a smart Meter is installed (both SMETS1 and SMETS2). The DWG also notes that this is a point of sale, not a Settlement, issue. However, if there is a Settlement requirement for customer type to be recorded, it would be possible to repurpose another 'retired' data item such as Profile Class.

DWG Review of Stage 2 Report on recommended TOM

Dependencies (Page 44):

No.	Dependency	Notes	Status of dependency
D03	SCR Policy Decision: Data Access	The TOMs will need to reflect Ofgem's policy decision on access to HH data for Settlement purposes.	The TOM design is consistent with Ofgem's 'least-regrets' steer. If the final policy decision differs from this steer, then the DWG may need to revisit the TOM design and timetable of work.
D04	SCR Policy Decision: Centralisation	The TOMs will need to reflect Ofgem's policy decision on Supplier Agent functions under market-wide Settlement reform.	The TOM design is consistent with Ofgem's 'least-regrets' steer. If the final policy decision differs from this steer, then the DWG may need to revisit the TOM design and timetable of work.

DWG Review of Stage 2 Report on recommended TOM: Data Requirements

Kevin Spencer

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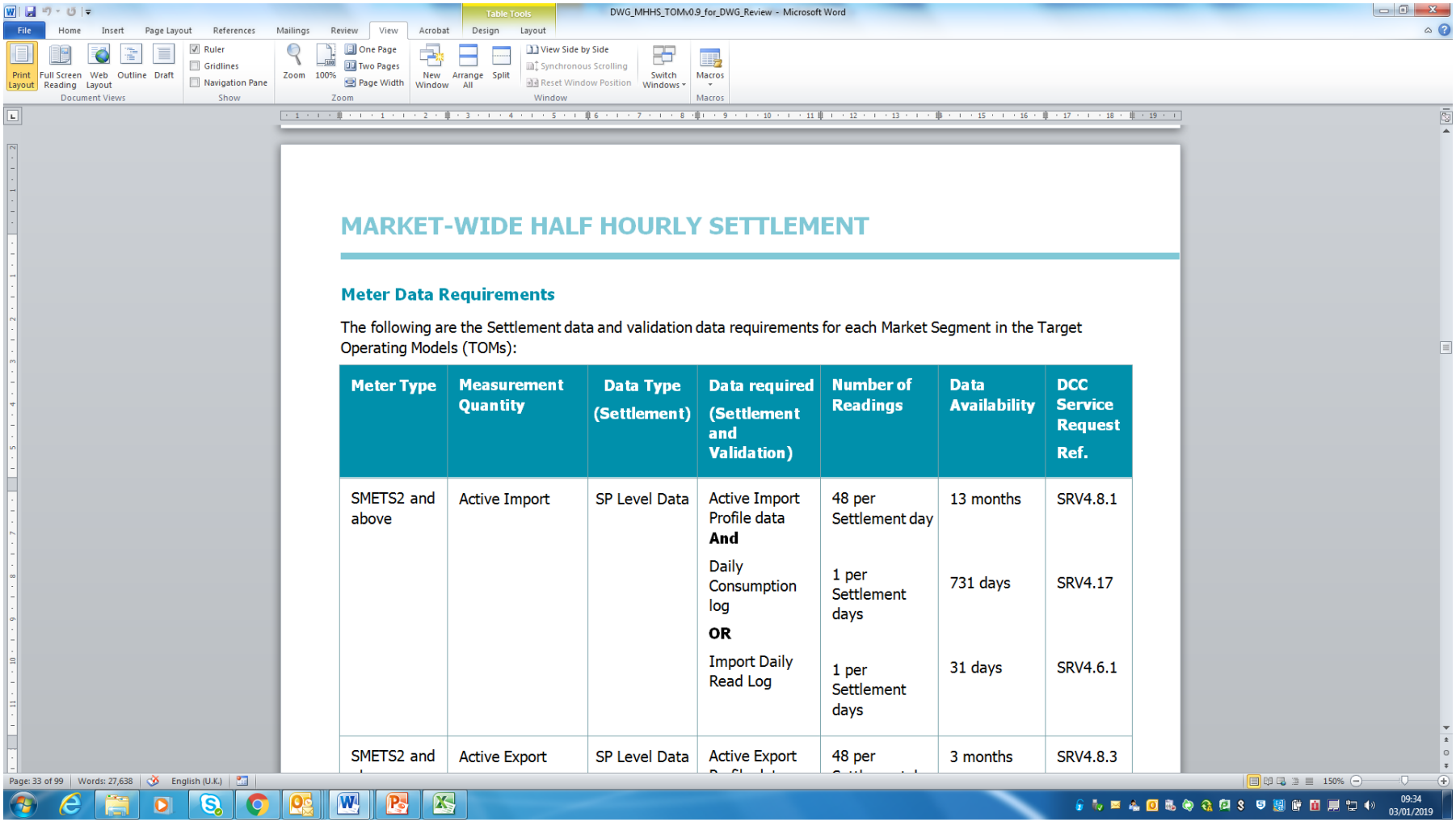
Meter Data Requirements

Pages 33 to 35



MARKET-WIDE HALF HOURLY SETTLEMENT

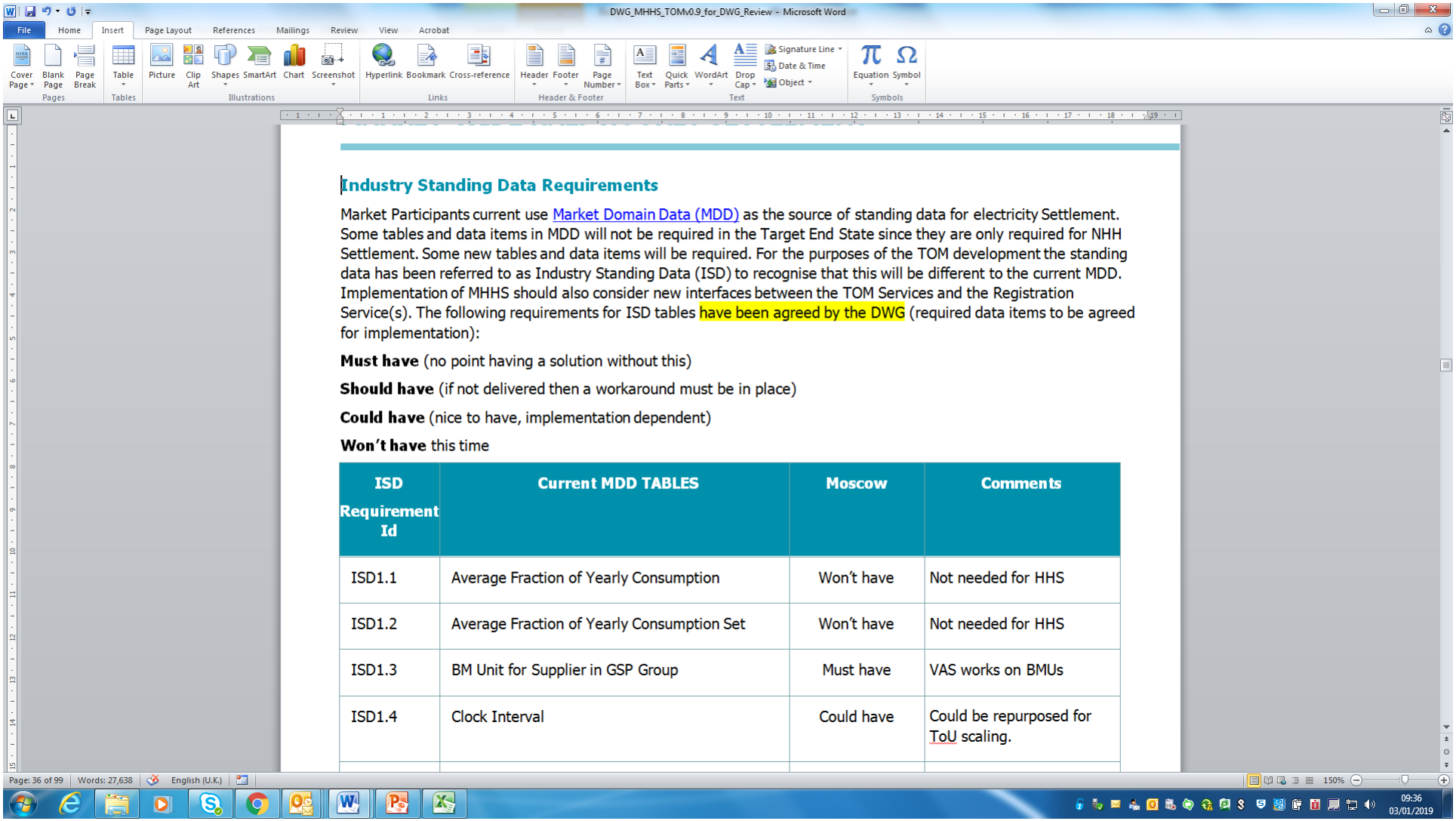
Meter Data Requirements

The following are the Settlement data and validation data requirements for each Market Segment in the Target Operating Models (TOMs):

Meter Type	Measurement Quantity	Data Type (Settlement)	Data required (Settlement and Validation)	Number of Readings	Data Availability	DCC Service Request Ref.
SMETS2 and above	Active Import	SP Level Data	Active Import Profile data **And** Daily Consumption log **OR** Import Daily Read Log	48 per Settlement day 1 per Settlement days 1 per Settlement days	13 months 731 days 31 days	SRV4.8.1 SRV4.17 SRV4.6.1
SMETS2 and	Active Export	SP Level Data	Active Export	48 per	3 months	SRV4.8.3

Industry Standing Data Requirements

Pages 36 to 40:



Industry Standing Data Requirements

Market Participants current use Market Domain Data (MDD) as the source of standing data for electricity Settlement. Some tables and data items in MDD will not be required in the Target End State since they are only required for NHH Settlement. Some new tables and data items will be required. For the purposes of the TOM development the standing data has been referred to as Industry Standing Data (ISD) to recognise that this will be different to the current MDD. Implementation of MHHS should also consider new interfaces between the TOM Services and the Registration Service(s). The following requirements for ISD tables have been agreed by the DWG (required data items to be agreed for implementation):

Must have (no point having a solution without this)

Should have (if not delivered then a workaround must be in place)

Could have (nice to have, implementation dependent)

Won't have this time

ISD Requirement Id	Current MDD TABLES	Moscow	Comments
ISD1.1	Average Fraction of Yearly Consumption	Won't have	Not needed for HHS
ISD1.2	Average Fraction of Yearly Consumption Set	Won't have	Not needed for HHS
ISD1.3	BM Unit for Supplier in GSP Group	Must have	VAS works on BMUs
ISD1.4	Clock Interval	Could have	Could be repurposed for ToU scaling.

Conceptual System Architecture – proposed revisions

Matt McKeon

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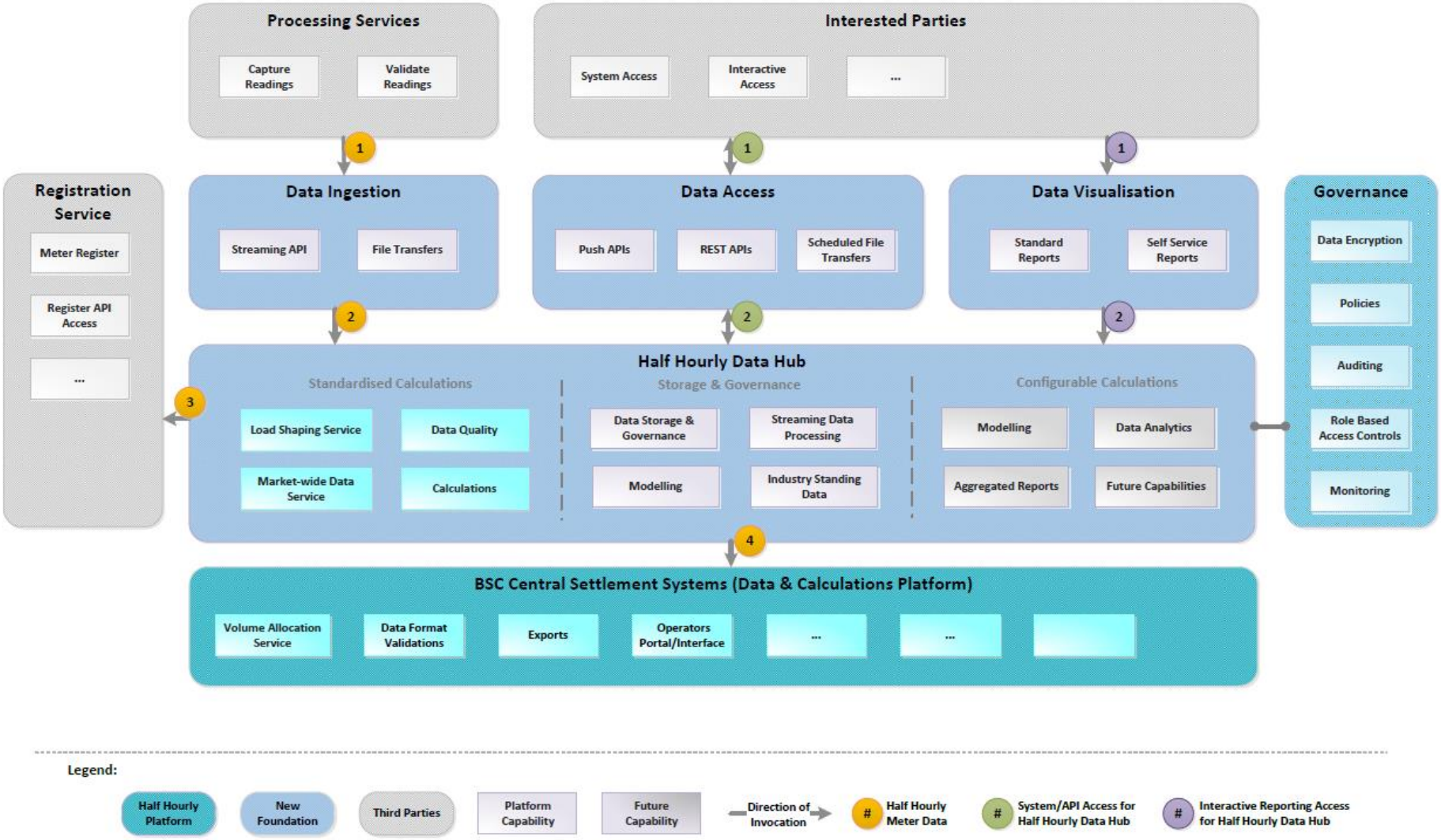
Conceptual System Architecture – proposed revisions



Development of Transitional Approach

Kevin Spencer

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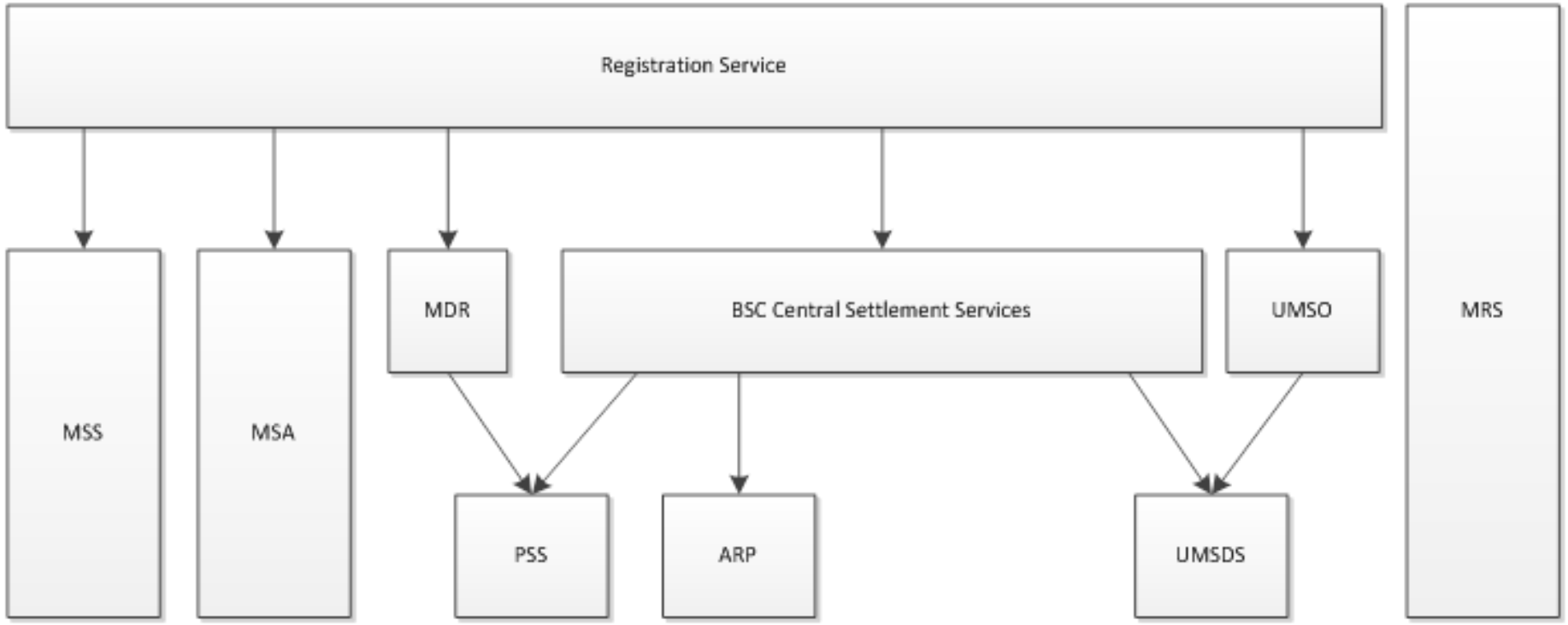
Development of Transitional Approach

Appendix D:



Other comments on the Report

Mark De Souza Wilson

Other comments

CONTENTS

Consultation Questions

Kevin Spencer

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Consultation Questions?

- No more that 10 questions?
  - Opinion on proposed TOM
  - Agree Rationale used by the DWG given 'Least Regrets' steer
  - Any Missing requirements
  - Opinion of the proposed Settlement timetable
  - Are Data requirements correct
  - Anything missing from RAID log
  - Comments on transitional approach
  - Are there any specific aspects of TOM design that would present a barrier to new market entrants, technologies or innovations
  - Any other comments

Summary, actions and next steps

Summary, actions and next steps