

Briefing on SVTAD & MTAD changes regarding DMCs

Thursday 15 August 2019

9:00-11:00hrs



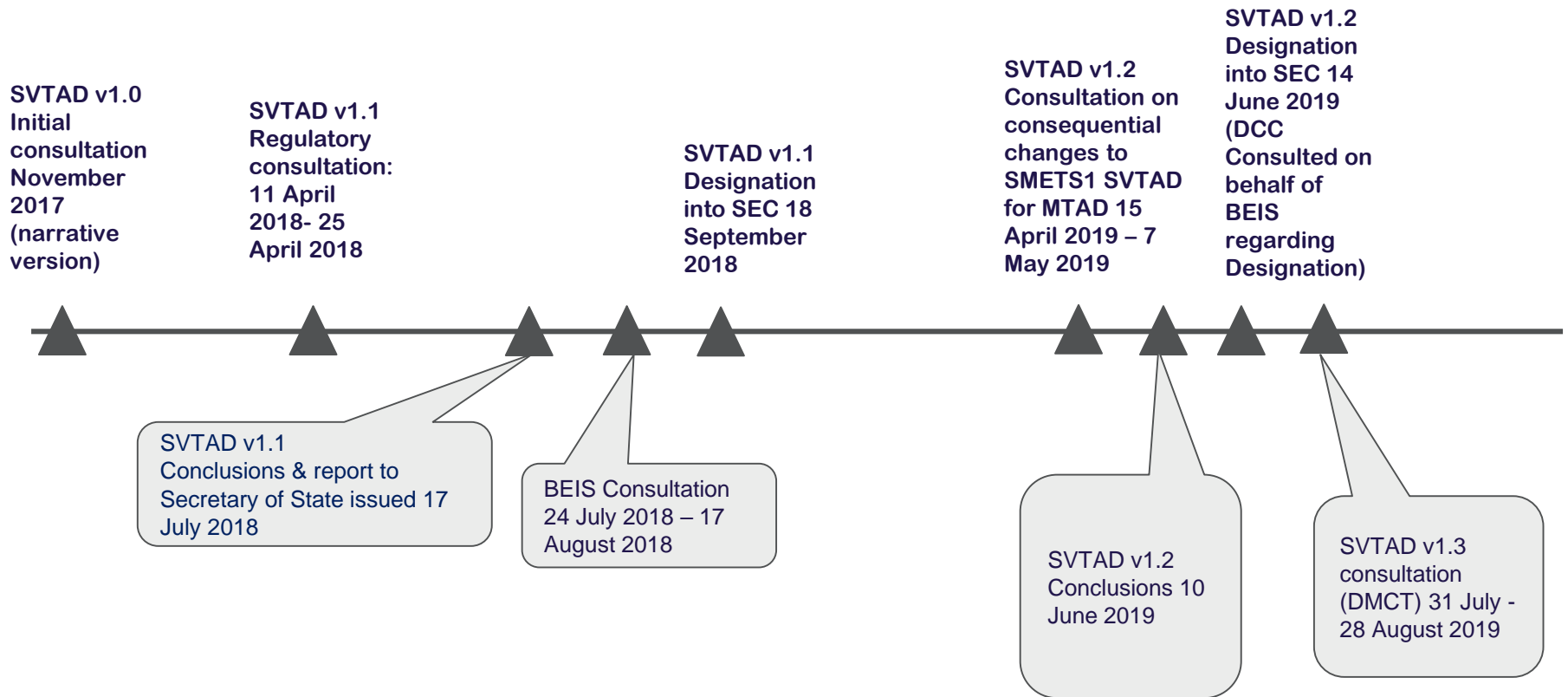
Agenda

1. Introduction
2. Objectives
3. DMCT Process
4. DMCT Process timeline
5. Questions

1. INTRODUCTION



SVTAD Timeline



DCC SMETS1 SVTAD and MTAD Consultation Briefing

- This briefing complements the SVTAD v1.3 and MTAD v1.1 which was issued for consultation on 31 July 2019;
- The changes are setting out DCC's proposal on how DCC look to achieve the testing of additional Device Model Combination (DMC) to the SMETS1 list of Eligible Product Combinations that have either been de-selected from Systems Integration Testing (SIT) or not-selected for SIT but are eligible to be tested. A number of consequential changes are required to the Migration Testing Approach Document for SMETS1 Services (MTAD) which are also set out in this consultation.
- The SVTAD v1.3 and MTAD v1.1 consultation closes at 17:00 on Wednesday 28 August 2019

2. OBJECTIVES



Objectives

- The purpose of this briefing is to highlight the;
 - The addition of Clause 20 to the SVTAD
 - The changes to existing clauses in the SVTAD and MTAD to support the DMCT Process;
- In doing so we will explain the rationale for the changes.
- We will not be presenting SVTAD and MTAD in its entirety;
- This is therefore to support the Industry in their understanding of the SVTAD v1.3 and MTAD v1.1 so that SEC parties can provide informed feedback by 28 August 2019

3. DMCT PROCESS



DMCT Process Overview

- Four key parts to the process:

1. Information Gathering

- Receipt and consolidation of lists of DMCs planned for enrolment from suppliers and dormant DMCs from SMSO

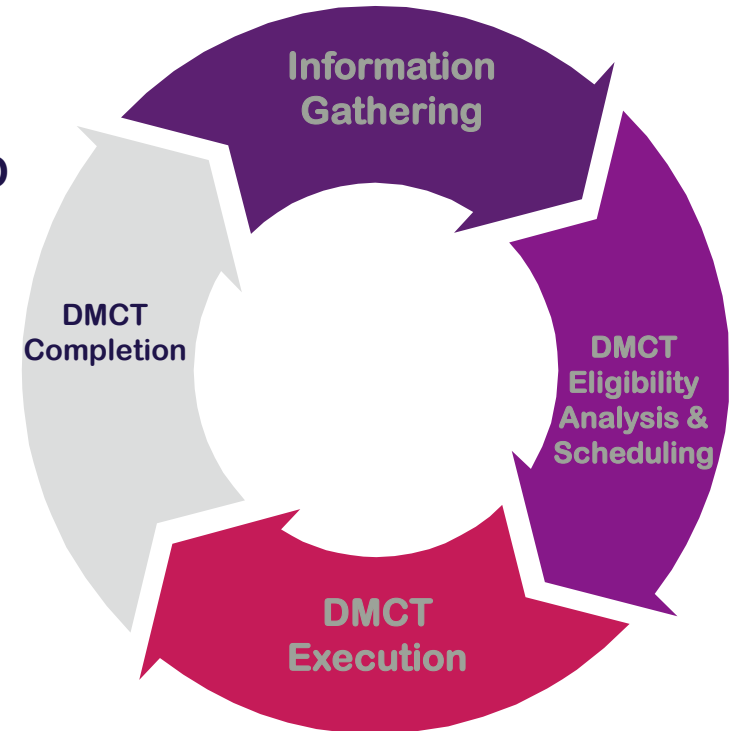
2. DMCT Eligibility Analysis & Scheduling

- Eligibility Analysis
- Scheduling of DMCs for DMCT

3. DMCT Execution

- DMCT Migration Testing
- DMCT Service Reference Variant Testing (DMCT SRVT)
- DMCT Testing Issues

4. DMCT Completion



3.1 Information Gathering



Information Gathering

- The DMCT Process begins with DCC issuing a Request For Information (RFI) to all Suppliers seeking to understand which Device Model Combinations (DMCs) Suppliers have planned for enrolment.
- DCC will issue an RFI template to all Suppliers 10 Working Days before the end of every 2 calendar months. The start of this formal sequence will begin in the month following the SVTAD changes coming into effect, however DCC have requested an early submission in advance of this event to enable DMCT to start as soon as reasonably practicable.
- Suppliers will have 5 working days from the start of every 2 calendar months to submit an RFI containing DMCs planned for enrolment to the DCC.

Information Gathering

SVTAD clauses relating to information gathering are as follows:

- Clause 20.1
- Clause 20.2
- Clause 20.3
- Clause 20.4
- Clause 20.5

3.2 DMCT Eligibility Analysis and Scheduling



DMCT Eligibility Analysis

Once RFIs have been returned DCC will consolidate the submissions, which represent the 'In Scope DMCs' and consider whether the DMCs submitted via the RFI process should be included in the DMCT Schedule. As part of this consideration, DCC will evaluate whether testing is required and if so, whether it can be reasonably confident of the planned date for testing to start. In doing so, DCC will consider whether the DMC is:

- Already on or proposed to be on the list of Eligible Product Combinations (EPCL);
- Substantively equivalent to another DMC on the EPCL;
- Already planned for testing in DMCT;
- Currently being tested in SIT or PPCT;
- Part of an Operating Capability which is unlikely to complete SIT or Migration Testing prior to the production of the next DMCT Schedule;
- Awaiting fixes to resolve defects found from previous iterations of DMCT;
- Economically viable to test;
- A DMC which has undergone some prior testing which means additional testing is not required in order to propose the DMC for addition to the EPCL;
- Available in sufficient quantities for executing DMCT.

DMCT Scheduling

- DCC will prioritise DMCs (for testing) based on the number of Smart Metering Systems forecasted to be enrolled that are associated with each DMC and the planned timing of enrolment. However, DCC also has a dependency on the availability of SMETS1 Devices for testing and therefore will take this into consideration when publishing the DMCT Schedule. The DMCT Schedule will contain all the DMCs that DCC is confident Devices can be sourced for testing and planned testing dates can be scheduled.
- The DMCT Schedule will contain the planned start and end dates for DMCT of each DMC. Additionally, the test pack which is planned to be executed. Where the standard test pack is not used, the rationale will also be provided. DCC will publish the DMCT Schedule on the DCC website and will notify Parties of this and will share the DMCT Schedule with SECAS for publication on their website.
- DCC plan to publish a draft DMCT Schedule, based upon information provided by Suppliers in August 2019, at the end of August 2019.

DMCT Eligibility Analysis & Scheduling

SVTAD clauses relating to DMCT Eligibility Analysis & Scheduling are as follows:

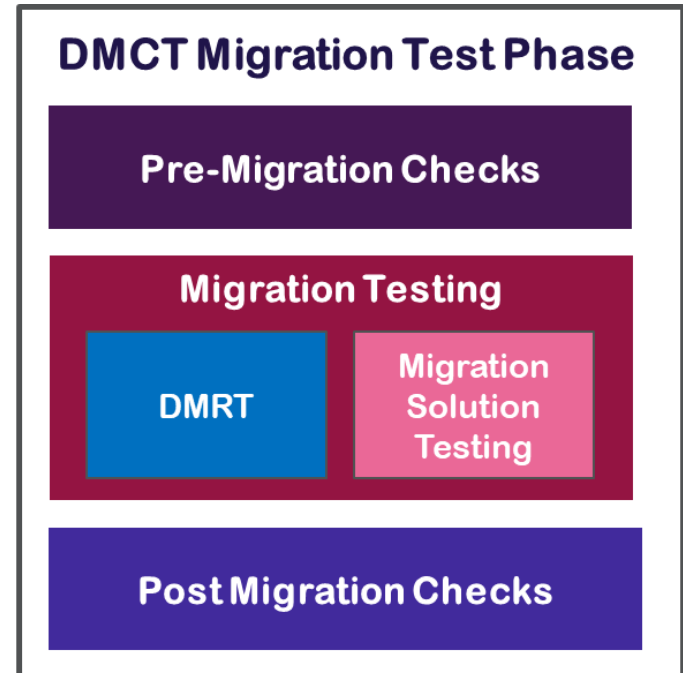
- Clause 20.6
- Clause 20.7
- Clause 20.8
- Clause 20.9
- Clause 20.10
- Clause 20.11
- Clause 20.12

3.3 DMCT Execution



DMCT Migration Testing (DMCT MT)

Where the Migration Solution has been tested previously for a meter manufacturer, DCC will execute the **Standard Dormant DMCT Migration Test Pack**, which comprises of Dormant Meter Readiness Testing (DMRT) and tests to confirm that the DMC can be successfully migrated as per the Transition and Migration Approach Document (TMAD), including that the DMC can be rolled back to original state in the SMSO.



DMCT Migration Testing (DMCT MT)

The **Standard Dormant DMCT Migration Test Pack** will contain a subset of the migration scenarios defined in the MTAD. These will include:

Active / Dormant	Credit / Prepayment	Enrolled By	CHF / GPF	ESME	GSME	CD
Dormant/Dormant	Prepayment	CP	1	1	1	1
Dormant/Dormant	Credit	CP	1	1	1	1

If the planned EPCL entry is a Mixed or an Active DMC, DCC will use evidence of testing Dormant entries which the Mixed or Active DMC comprises.

DCC consider this to be sufficient testing as there is no difference at a Device level between the handling of Active, Dormant and Mixed DMCs, and this functionality will have been proven in Migration Solution Testing for the Operating Capability.

DMCT Migration Testing (DMCT MT)

The processing element of the migration solution varies slightly for each meter manufacturer and therefore in the instance where the migration process has not yet been tested against the meter manufacturer of which an Operating Capability is comprised, DCC may be required to run a different set of tests to those in the Standard Dormant DMCT Migration Test Pack. This is otherwise known as a **DMCT Non-Standard Test Pack** and will be the approach undertaken for Honeywell and Aclara as a minimum.

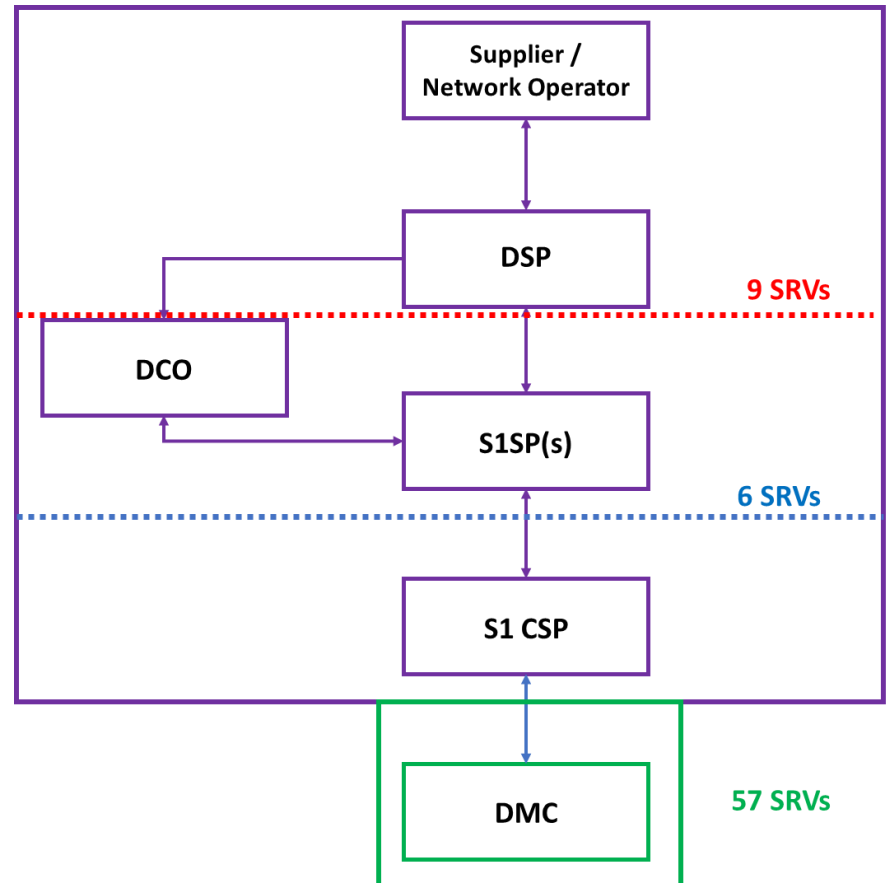
Where DCC believes that testing of the functional migration solution is required rather than running the Standard Dormant DMCT Migration Test Pack, the DCC may instead perform Migration Testing for that DMC. Accordingly, the Depth & Breadth of Migration Testing for that DMC would be agreed with TAG as provided for under the MTAD.

MTAD clauses covering this testing are:

- Clause 4.3
- Clause 5.1
- Clause 6.6

DMCT Service Reference Variant Testing

- Once tested against the migration solution, DCC will then undertake testing against Service Requests that can be sent in respect of enrolled SMETS1 Smart Metering Systems.
- DCC's proposed approach to DMCT SRVT will be to focus solely on testing of the device specific SRVs which are sent to the meter as no changes are required to the DCC Total System in order to support testing and operation of the DMCs. This will be the content of the **Standard DMCT Service Reference Variant Test Pack**.
- As much of this testing as possible will be automated. However, an element of manual testing will be required to test S1SR meter alerts and to ensure commands have been processed correctly on the meter.



DMCT Service Reference Variance Testing

The **Standard DMCT SRVT** test pack will be designed to cater for a Dual Fuel set. DCC's assumption is that this evidence could be used to propose the addition of the following permutations of the DMC under test to the EPCL:

- Single Fuel;
- Dual Fuel No PPMID/IHD; and
- Single Fuel No PPMID/IHD

The **Standard DMCT SRVT** test pack will be agreed with TAG for each Operability Capability and DCC will execute the test pack relevant to the Operating Capability of which the planned EPCL entry forms a part of. There will be a common set of tests across all Operating Capabilities to ensure consistency from an interoperability perspective, however additional tests may be added for specific functionality related to each Operating Capability.

DCC may propose to vary the **Standard DMCT SRVT** test pack where DCC believes the manufacturer specific S1SP code has not been sufficiently proven in Solution Test. This will be the approach for Honeywell and Aclara as a minimum.

DMCT Testing Issues

- **When testing a DMC, testing issues may arise which could be fixed in a number of ways:**
 - **via a change to the DCC Systems;**
 - **via a change to the DCC Systems and the Smart Energy Code;**
 - **via a change to a Device (e.g. a configuration change or new firmware);**
 - **via a change to the Smart Energy Code (but not DCC Systems).**

All testing issues must be resolved in order for a DMC to complete DMCT successfully.

DMCT Execution

SVTAD clauses relating to DMCT Migration Testing and Service Reference Variant Testing are as follows:

- **Clause 20.13**
- **Clause 20.14**
- **Clause 20.15**
- **Clause 20.16**
- **Clause 20.17**
- **Clause 20.18**

SVTAD clauses relating to DMCT Testing Issues are as follows:

- **Clause 20.19**
- **Clause 20.20**
- **Clause 20.21**
- **Clause 20.22**
- **Clause 20.23**
- **Clause 20.24**
- **Clause 20.25**

3.4 DMCT Completion



DMCT Completion

Following completion of DMCT DCC will produce a DMCT report, stating whether the DMCT has passed or failed - this will be published on the DCC website.

Once published, DCC will notify all affected parties. A DMC will have to successfully complete 100% of tests to pass DMCT because all testing issues would have been resolved in accordance with the process described in Clauses 20.19 - 20.25.

SVTAD clauses relating to DMCT Completion are:

- Clause 20.26
- Clause 20.27
- Clause 20.28
- Clause 20.29

4. DMCT PROCESS TIMELINE



DMCT Process timeline

	29/07/2019	05/08/2019	12/08/2019	19/08/2019	26/08/2019	02/09/2019	09/09/2019	16/09/2019	23/09/2019	30/09/2019	07/10/2019	14/10/2019	21/10/2019	28/10/2019	04/11/2019	11/11/2019	18/11/2019	25/11/2019	02/12/2019	09/12/2019	16/12/2019	23/12/2019	30/12/2019
Information Gathering - Supplier RFIs submitted	█	█																					
DMCT Eligibility Analysis & Scheduling			█	█																			
DCC publish (Draft) DMCT Schedule					█																		
Tranche 1 - Set Up Devices						█	█																
Tranche 1 - DMCT MT							█	█															
Tranche 1 - DMCT SRVT								█	█	█													
Tranche 1 - DMCT Report produced											█	█											
Tranche 1 DMCs available in DUST/MDUST on Test EPCL												█	█										
Tranche 1 DMCs EPCL Governance												█	█	█	█	█							
Tranche 1 DMCs on EPCL																	█						
Information Gathering - Supplier RFIs submitted										█	█												
DMCT Eligibility Analysis & Scheduling											█	█											
DCC publish DMCT Schedule												█	█										
Tranche 2 - Set Up Devices										█	█												
Tranche 2 - DMCT MT											█	█											
Tranche 2 - DMCT SRVT												█	█	█									
Tranche 2 - DMCT Report produced															█	█							
Tranche 2 DMCs available in DUST/MDUST on Test EPCL																	█	█					
Tranche 2 DMCs EPCL Governance																█	█	█	█	█			
Tranche 2 DMCs on EPCL																						█	
Tranche 3 - Set Up Devices													█	█									
Tranche 3 - DMCT MT															█	█							
Tranche 3 - DMCT SRVT																█	█	█					
Tranche 3 - DMCT Report produced																			█	█			
Information Gathering - Supplier RFIs submitted																			█	█			
DMCT Eligibility Analysis & Scheduling																				█	█		
DCC publish DMCT Schedule																					█	█	

5. QUESTIONS



HOW TO RESPOND



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17:00 on Wednesday 28 August 2019



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NOTE: Responses may be published – mark confidential aspects clearly – responses may be made available to BEIS & the Authority.

THANK YOU

