



EPCL Report

EPCL Report 30 - DMCT Tranches 76 & 77

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Contents

1. Context of EPCL Request	3
2. Live Service Criteria Assessment	6
3. EPCL Reports Risk Register.....	7
4. Confirmation of DCC Information	7
Annex A – EPCL entries Requested for Eligible Product Combination List.....	9
Annex B – Final DMCT Testing Reports for proposed EPCL entries	10
Annex C – Latest DCC Pacing Strategy	11
Annex D – Mapping to Clause 20 of the SMETS1 SVTAD.....	13
Annex E – DCC Guidance Notes – Substantive Equivalence	14

1. Context of EPCL Request

Annex A to this EPCL Report sets out the specific details of 389 entries that DCC is proposing to add to the Eligible Products Combination List (EPCL), subject to approval from the Secretary of State to do so.

These entries represent DMCs in the FOC cohort that were originally included in EPCL Report 23, which DCC sent for approval to the Department for Business, Energy, and Industrial Strategy (BEIS) in December 2021.¹ BEIS' decision at the time was to not approve adding the DMCs to the EPCL recommending instead that their firmware (FW) be uplifted to the latest version (v2.2.10) present on the EPCL already.

For the dormant installations DCC has since attempted to update their FW version and has experienced operational challenges in uplifting the FW to enable migration of some of the installations matching those DMCs using v2.2.10 of the FW.

DCC is now requesting to add FOC BG DMCs which have SMETS1 Installations that are Active, Dormant and Mixed to the EPCL. DCC aims to migrate these DMCs using the latest FW version and/or their existing FW version if migrating the DMC using the latest FW version was not possible.

The MR01 – Installation Details Report, which details SMSO's full portfolio of installations that they believe meets the criteria for SMETS1 Enrolment and Adoption onto Smart DCC Network, shows the current volume on or below the requested DMCs:

MR01 Volume	Installs			Meters		
	Active	Mixed	Dormant	Active	Mixed	Dormant
Requested EPCL entries	57,270	1,192	42,313	103,288	2,384	68,695
Potential FW upgrades to requested EPCL entries	21,551	516	43,347	39,066	1,032	67,930
Total by Installation Status	78,821	1,708	85,660	142,354	3,416	136,625
Totals	166,189			282,395		

DCCs Migration Control Centre (MCC) who manage the migration of dormant installations provided the following failure to upgrade volume:

MCC Known failure volume	Installs			Meters		
	Active	Mixed	Dormant	Active	Mixed	Dormant
Requested EPCL entries	0	747	39,728	-	-	-
Potential FW upgrades to requested EPCL entries	0	485	43,211	-	-	-
Total by Installation Status	0	1,232	82,939	-	-	-
Totals	84,171			-		

¹ <https://smartenergycodecompany.co.uk/latest-news/beis-decision-on-smets1-eligible-products-combination-list-epcl-report-23/>

Notes for volume tables

- MR01 Volume represents any DMCs that match one of the requested DMCs in this report or DMCs that could be FW upgraded to one of the requested DMCs in this report (i.e., DMCs with the CH FW on or below v2.2.7 or v2.2.8).
- MCC Known failure volume represents DMCs that match one of the requested DMCs but are currently failing either FW upgrade of CH, ESME, GSME or a combination of these devices to an existing EPCL entry.
- MCC Known failure volume only represents Dormant and Mixed installations, Meter breakdown of figures is not available.
- MR01 Volume has 87,368 Dormant & Mixed installations, MCC Known failure volume has 84,171 Dormant & Mixed installations, MR01 Volume has 3,197 more installations that may successfully migrate by uplifting to an existing EPCL entry, or they may fail FW upgrade and be unable to migrate and therefore be added to the MCC known failure volume.
- Dormant & Mixed volume represented by this report is likely between 87,368 and 84,171. Installations.
- Active volume represented by this report is unknown as MCC have no sight of Active FW upgrade failures but may be up to 78,821 installations.

DCC is requesting to add additional FOC BG entries onto the EPCL based on "Substantive Equivalence" (see Annex E) to EPCL entries 00558,000565,000566,000567,000569,000574,000585,000586,000593,000594,000612,000613,000614,000615,000619,000810,000811,000813,000814,000817,000818,000819,000820,000822,000823,000825,000827,000828,000829,000830,000832,000833,000834,000835,000836,000837,000838,000839,000840,000842,000843,000844,000845,000847,000848,000850,000852,000853,000854,000855,000857,000858,000859,001121,001197,001546,001547,001548,001549,001550,001551,001552,001553,001554,001555,001556,001557,001558,001559,001560,001561,001562,001563,001564,001565,001566,001567,001568,001569,001570,001571,001572,001573,001574,001575,001576,001577,001578,001579,001580,001581,001582,001583,001584,001585,001586,001587,001588,001590,001591,001592,001593,001594,001595,001596,001597,001598,001601,001602,001603,001604,001605,001608,001609,001610,001611,001612,001613,001615,001616,001618,001620,001621,001622,001623,001624,001626,001627,001629,001631,001633,001637,001641,001643,001645,001647,001651,001652,001657,001658,001659,001660,001661,001662,001663,001664,001665,001666,001667,001668,001669,001672,001675,001677,001679,001680,001682,001683,001690,001691,001692,001693,001694,001695,001696,001697,001698,001700,001702,001704,001705,001706,001708,001709,001710,001711,001712,001713,001714,001715,001717,001718,001719,001720,001721,001722,001723,001725,001726,001727,001728,001729,001730,001733,001734,001736,001737,001738,001739,001740,001741,001742,001743,001744,001747,001748,001749,001750,001751,001754,001755,001756,001757,001758,001759,001761,001762,001764,001766,001767,001768,001769,001770,001772,001773,001775,001777,001779,001783,001787,001789,001791,001793,001797,001798,001803,001804,001805,001806,001807,001808,001809,001810,001811,001812,001813,001814,001815,001818,001821,001823,001825,001826,001828,001829,001836,001837,001838,001841,001842,001843,001854,001855,001864,001865,001866,001867,001868,001869,001870,001871,001872,001873,001874,001875,001876,001877,001879,001881,001883,001885,001886,001887,001890,001891,001892,001893,001894,001895,001929,001930,001931,001932,001933,001934,001935,001936,001937,001938,001939,001940,001942,001943,001944,001946,001947,001948,002725,002726,002728,002731,002732,002733,002734,002736,002737,002738,002739,002740,002741,002742,002743,002744,002745,002747,002748,002749,002752,002753,002756,002758,002760,002762,002763,002764,002768,002775,002776,002778,002780,002784,002789,002790,002791,002792,002793,002794,002795,002796,002797,002798,002799,002800,002801,002804,002807,002809,002811,002812,002814,002815,002822,004856,004857,004858,004859,004860,004861,004862,

004863,004864,004865,004866,004867,004868,004869,004870,004871,004872,004873,004874,004875,004876,004877,004878,004879,004880,004881,004886.

DCC proposes that each of the EPCL entries contained within this report are Substantively Equivalent to one of the entries above, DCC therefore proposes that the entries do not require testing for the DCC to satisfy itself that it will be able to Migrate them and successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of enrolled SMETS1 Smart Metering Systems comprising all or part of the DMC.

For the requested EPCL entries in this report, the migration of SMETS1 installations and enrolment of Smart Metering Systems specified by these DMCs will not have an adverse impact on the delivery of DCC Services and DCC does not consider there to be any regression risk.

DCC has confirmed to the Security Sub-Committee (SSC) that the DCC does not consider there to be any unmanageable security risks associated with adding the requested EPCL entries to the EPCL. On 12 July 2023 SSC confirmed there are no apparent new security risks to prevent the requested EPCL entries being added to the EPCL.

DCC accordingly recommends that the Department for Energy Security & Net Zero (the Department) approves the requested new entries for the EPCL set out in Annex A.

DCC considers that the aforementioned entries should be made to the EPCL because:

- (i) The DCC has followed the process required of it in respect of them as set out in Clause 20 of the SMETS1 SVTAD, and as further set out in Annex D; and
- (ii) DCC does not consider that testing is required in the case of the requested EPCL entries listed in Annex A as, given the test reports referenced in Annex A each such entry is considered to be substantively equivalent to entries that have been tested:

The rationale for treating the requested EPCL entries as substantively equivalent is set out in 'Excluded from DMCT Schedule', published on the DCC Website ([here](#)), and described in Annex E; and

- (iii) The DCC is ready to support the Migration of SMETS1 Installations comprised of the requested EPCL entries and the subsequent operation of the associated Enrolled Smart Metering Systems in accordance with the assessment set out in the Live Service Criteria Assessment.

If a Supplier Party has any objections to the DCC's request that the Department approves the addition of the entries listed in this report onto the EPCL their concerns should be sent to the Department (SMETS1_appeals@beis.gov.uk), within 5 working days of a notification being issued by SECAS of the publication of this report.

2. Live Service Criteria Assessment

#	Live Service Criteria	RAG Status	Commentary
1	SMETS1 Migration Services ready including early migration support for relevant EPCL entry(ies)	G	DCC is ready to carry out migration of the DMCs that are included in Annex A, which DCC is proposing to add to the EPCL.
2	Service Operations capability ready	G	DCC's core Service Operations Capabilities are in place and ready to support the migration and operation of the DMCs set out in Annex A. These include dedicated SMETS1 resources across the MCC, Early Life Support (ELS) and co-located support functions.
3	SMETS1 Service and Migration can operate at the requisite volumes to support migration and operation of the relevant EPCL entry(ies) and operating capability, in parallel with all SMETS2 activity	G	DCC is of the opinion that the addition of the proposed DMCs will not impact service or migration performance. DCC will pace migrations in order to prove stability before increasing volume. This will be phased according to DCC's normal pacing strategy and will be managed using the current processes and mechanisms available to it.
4	Regression Testing has completed successfully for SMETS1 and SMETS2 Live Systems	N/A	There will be no SMETS1 or SMETS2 regression testing conducted as part of DMCT for any tranche, as DMCT is focused on devices rather than code.
5	Relevant testing for relevant EPCL entry(ies) has completed.	G	Annex A sets out the relevant testing for the requested EPCL entries.
6	Pre-existing services remain stable for SMETS2 and SMETS1 prior operating capabilities	G	DCC has in excess of 20 million meters on the DCC Systems, which includes both migrated SMETS1 devices and SMETS2 installations. DCC is successfully operating all these devices whilst continuing to migrate SMETS1 installations and commissioning new SMETS2 installations onto the DCC System.
7	Any lessons learnt from prior operating capabilities are incorporated in to live process	G	Having successfully migrated devices into the DCC System, DCC has learnt valuable lessons that it will apply when migrating the new DMCs. This includes migrating DMCs using their existing FW versions if challenges in migrating these DMCs arise after attempting to update the DMCs to a more recent FW version.
8	No detrimental impact to consumers experience expected	G	Based on the experience of live migrations and early life support to date, DCC does not consider that there is a material risk of negative impact to consumers' experience.
9	Assurance of required Business Continuity/Disaster Recovery	G	DCC Business Continuity and Disaster Recovery (BCDR) consulted on its annual testing programme for April 2023 – March 2024 and is included in the Annual Outage Plan along with Tech Refresh Programme which was endorsed by SECOPS in March 2023. DCC is satisfied with the resilient solution implemented across its ecosystem and with the results of testing completed in Quarter 1 2023 with all Service Providers.
10	Completion of relevant security testing and approval of security architecture	G	The EPCL entries in this submission were given approval from SSC on 12 July 2023. SSC confirmed that there are no apparent new security risks to prevent these devices being added to the EPCL.

3. EPCL Reports Risk Register

The EPCL Reports Risk Register, which contains risks relevant to EPCL reports that DCC has published on the DCC website and is seeking the Department's approval of, can be found here:

<https://www.smartdcc.co.uk/media/6598/epcl-reports-risk-register.xlsx>

4. Confirmation of DCC Information

Gav Parrott

Director of Products & Logistics

List of Annexes

Annex A – EPCL entries Requested for Eligible Product Combination List

Annex B – Final DMCT Testing Reports EPCL entries

Annex C – Latest DCC Pacing Strategy

Annex D – Mapping to Clause 20 of the SMETS1 SVTAD

Annex E – DCC Guidance Notes - Substantive Equivalence

Annex A – EPCL entries Requested for Eligible Product Combination List

The file 'Annex A Report 30' details the entries that the DCC is requesting to make to the list of Eligible Product Combinations.

The file can be found on the DCC Website, [here](#).

Annex B – Final DMCT Testing Reports for proposed EPCL entries

Titles and dates of Testing reports are listed with each requested EPCL entry in Annex A.

Link to Reports:

This report is available on the DCC external SharePoint, accessible to SEC Parties who have requested access. To request access please contact DCC Enrolment and Adoption Enrolment.adoption@smartdcc.co.uk.

Annex C – Latest DCC Pacing Strategy

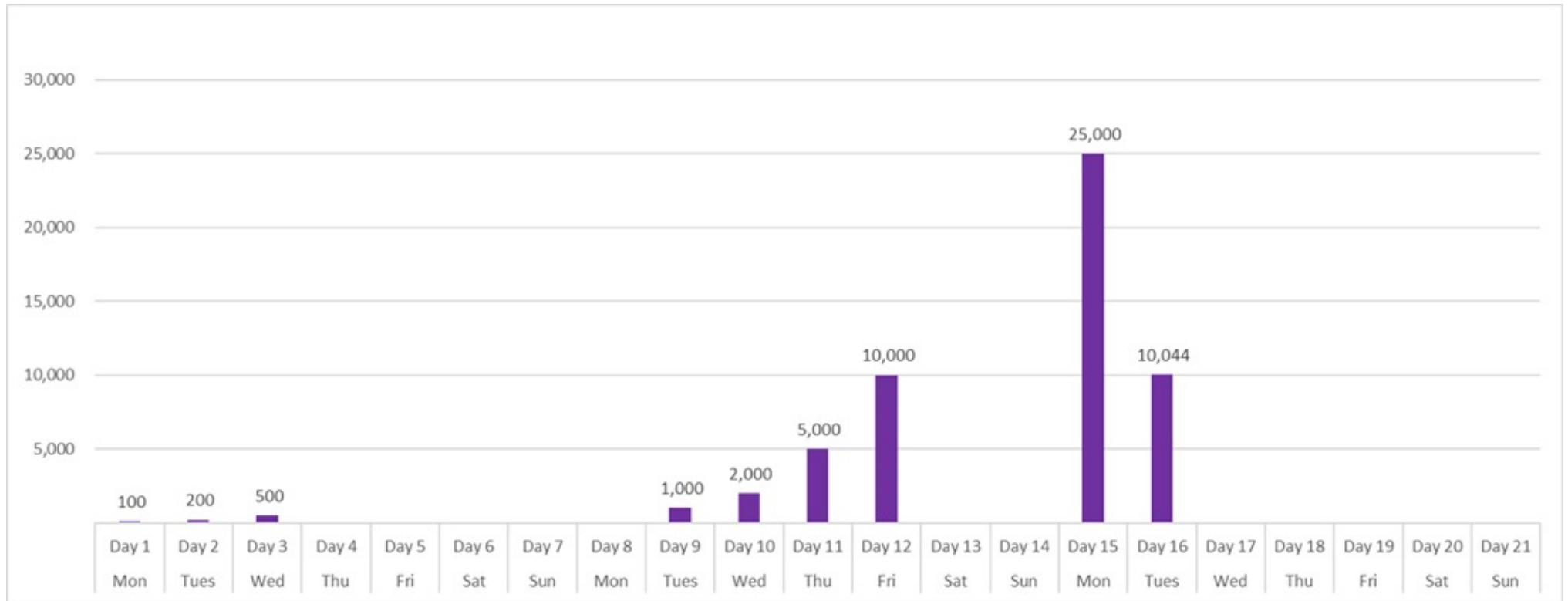
This pacing strategy will be followed by DCC unless there is significant business impact or a business requirement to change it. It is prudent to state this strategy is our intent, but this could change where agreed, and it is in the best interest of the migration solution or the business requirements. Any agreed alternate strategy would be tailored to the change impacting migrations.

Where possible DCC will seek to select dormant DMCs which will be made active immediately following migration, to ensure that DCC can confirm devices are operational at the earliest possible opportunity following migration completion.

To support the below migration pacing strategy the MCC will:

- Hold a daily Go / No-go to review progress of previous migrations and approve the progress of the proposed migrations for that day, this process helps to mitigate any issues during migration. This is attended by all service providers within the migration process and Operational DCC functions.
- Monitor the new EPCL entries migration progress using the current tools available to it. If any anomalous behaviour is detected these DMCs will be throttled or halted in day until diagnosis can be made using the normal resolution process and future migrations will be paused. The pacing graph below shows the pacing strategy across a 3-week timeframe which allows for any such behaviour to be identified and dealt with by slowly increasing the number of migrations passing through the system.
- As frequently as deemed necessary, but no less than weekly, review the pacing strategy against Supplier forecasts (for active migrations) and available dormant volumes. As a result, MCC may:
 - Scale volumes to optimise daily migration performance and/or ensure appropriate supplier allocation and active/dormant mix.
 - Increase volumes if deemed appropriate due to the results of previous migrations.
 - Decrease volumes if previous migrations have not resulted in expected results.
 - Which includes but not exclusive to;
 - Higher than expected failure rates for that DMC.
 - Higher than expected failure rates for that cohort.
 - New or unknown error that was not expected as part of the migration process.
 - Pause if there is cause for concern by carrying on migration.
 - Which includes but not exclusive to;
 - Higher than expected failure rates for that DMC.
 - Higher than expected failure rates for that cohort.
 - New or unknown error that was not expected as part of the migration process.

Pacing Graph



Annex D – Mapping to Clause 20 of the SMETS1 SVTAD

DCC is required to publish the DMCT Status List and the DMCT Schedule in terms of Clause 20.8 and Clause 20.10 of SEC Appendix AK 'SEC Variation Testing Approach Document for SMETS1 Services' (SMETS1 SVTAD) on the DCC website. DCC is further required to publish a list of exclusions from the DMCT Schedule in terms of Clause 20.11 of the SMETS1 SVTAD.

Pursuant to these obligations, DCC has published the associated Schedule and List [here](#) and provided to SECAS for publication on the SEC website [here](#) for:

- FOC on the following date 28 July 2023.

Relevant Suppliers who included in their RFI submissions the DMCs, which are included within this report, were notified that the DMCs are requested to be added to EPCL under SMETS1 SVTAD Appendix AK, Clause 20.6 (d) (i).

Notification was as follows:

- FOC notification was via DCC Mass Comms email on 03 August 2023 titled 'SMETS1 FOC v9.0 - DMCT Status List and DMCT Schedule published on DCC Website - 28th July 2023 - REQ000000221943'.

The comms notified those relevant Suppliers of the publication on the DCC Website of the FOC version of 'DMCT Status List & Excluded from DMCT Schedule'. The Schedule includes entries for the DMCs included in this report and specifies the rationale for excluding the DMCs from the DMCT Schedule on the basis of Substantive Equivalence (see Annex E).

DCC contacted the relevant Suppliers that included the DMCS in their RFI submissions to confirm that the Suppliers would raise no objection to these DMCs being added to EPCL. Confirmation of this was received from all impacted Suppliers.

Pursuant to the DCC's obligations set out under SMETS1 SVTAD Appendix AK, Clause 20.43, the DCC has published this DMCT EPCL Report on the DCC Website ([here](#)) and has notified the Panel, the Secretary of State, the Authority and SEC Parties of the publication of the report.

Annex E – DCC Guidance Notes – Substantive Equivalence

(Full Guidance Note is published on DCC Website, [here](#))