DCC SMETS1 SERVICES
SEC PANEL GOVERNANCE

14 December 2018

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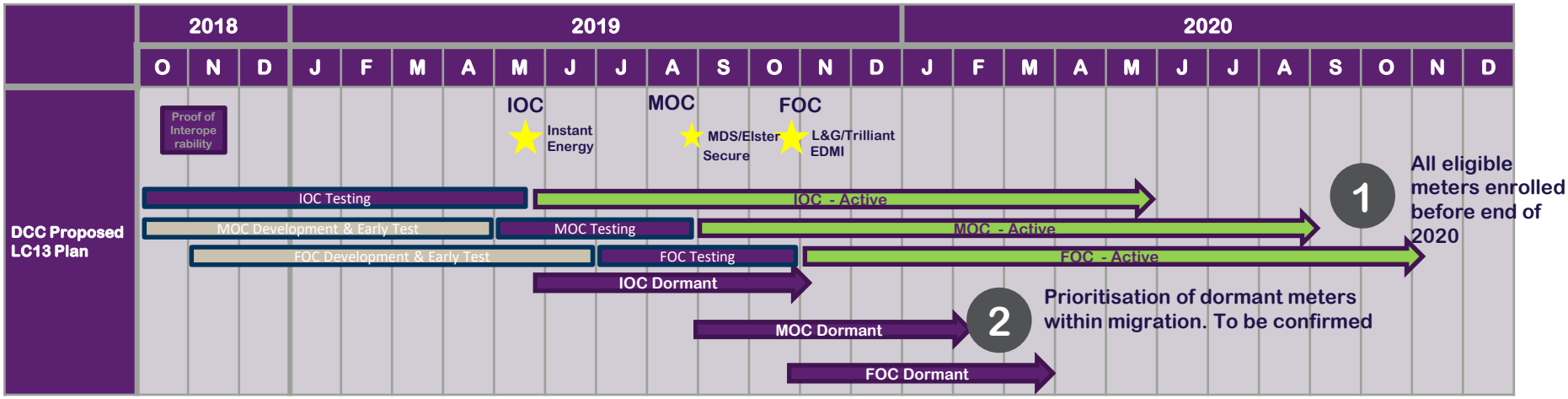
1. Context & Introduction

Across 2019 DCC plans to make available the capability to operate SMETS1 Smart Metering Systems through the DCC Total System.

In order to assure the solution being delivered SEC Panel will be asked to support the governance required prior to go-live at each operating capability

Governance requirements are set out in testing approach documents (SVTAD, UTSAD, MTAD, SCTAD) and as per previous releases in a separate BEIS request for SEC Panel support to review the Live Services Criteria (planned for Q1 2019)



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2. Definition of Live for SMETS1 Services

Prior to live at each operating capability the required SEC updates and other changes to legal framework will be brought into effect by BEIS.

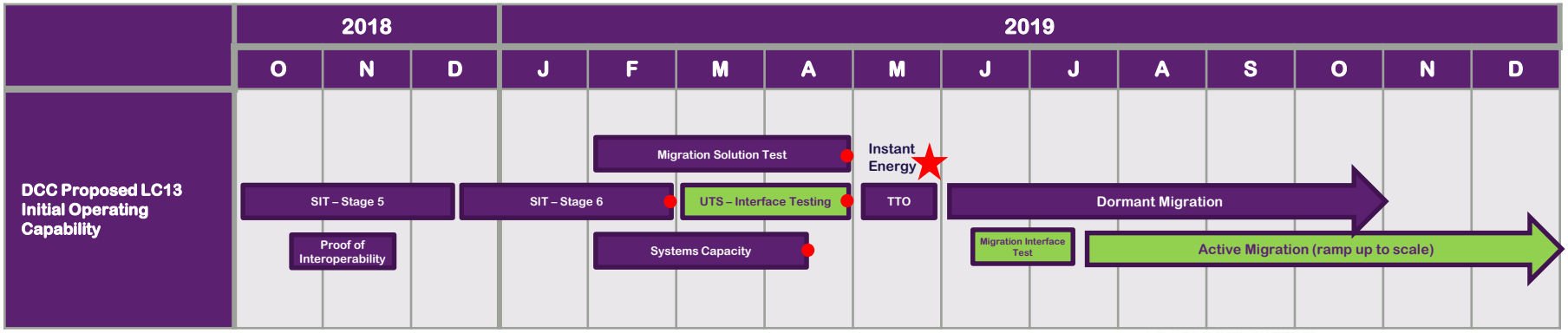
In order to make an operating capability live BEIS will need to approve the addition of at least one Device Model Combination (DMC) on to the Eligible Product Combinations list (EPCL). At IOC this is planned to be the addition of 4 DMCs to the EPCL.

Prior to making the decision at each operating capability, BEIS will ask for support from SEC Panel to review both completion of testing phases and Live Services Criteria.

3. SEC Panel Governance Steps – per OC

- **Governance over testing:** SEC Panel through Testing Advisory Group will **approve** relevant exit gates for key test phases. It is expected that DCC provide the relevant assurance reports and/or independent audit (where applicable) for TAG to review

★ **Live Services Criteria:** DCC will be asked by BEIS to provide detail and assurance on their readiness to SEC Panel in order to **support the BEIS decisions** to add a DMC to the EPCL. This Live Services Criteria document would be shared with TAG and SEC Panel Operations Group in order to help inform the SEC Panel recommendation to BEIS.



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3. SEC Panel Governance Steps – per OC

Stage	Evidence	TAG	Ops Group	SEC Panel
SIT Exit	Outline in SVTAD: • SIT Completion Report • SIT Auditor Report	✓	X	✓
UTS Interface Test Exit	Outline in SVTAD & UTSAD: • Interface Test Completion Report	✓	X	✓
Migration Solution Test Exit*	To be outline in MTAD: • Migration Solution Test Completion Report • Migration Solution Test Auditor Report	✓	X	✓
System Capacity Test Exit*	To be outlined in SCTAD: • Systems Capacity Test Completion Report	✓	X	✓

* Note that MTAD and SCTAD have not been consulted upon and governance of these phases will be set out in these documents

3. SEC Panel Governance Steps – per OC

Stage	Evidence (DRAFT)	TAG	Ops Group	SEC Panel
Live Services Criteria*	DCC provision of test and confidence information as per process for previous releases high level outline below: 1. New SMETS1 Migration Services ready including early migration support 2. Service Management capability ready 3. SMETS1 Service and Migration is scalable to support migration and operation. In parallel with all SMETS2 activity. 4. Regression Testing has completed successfully for SMETS1 and SMETS2 5. Testing of SMETS1 Services for the relevant DMCs has completed successfully 6. Pre-existing services remain stable for SMETS2 and SMETS1 prior operating capabilities 7. Any lessons learnt from prior operating capabilities are incorporated in to live process 8. No detrimental impact to consumers experience expected. 9. Assurance of required Business Continuity/Disaster Recovery 10. Completion of relevant security testing and approval of security architecture	✓	✓	✓

* Note that Live Services Criteria will be set out in request to DCC in Q1 2019, similarly the formal request for SEC Panel to support the BEIS decision will be requested in Q1 2019.

4. Further Releases and Device Model Testing

Subsequent operating capabilities (MOC and FOC) will also require a similar level of SEC Panel governance including governance of test phases and Live Services Criteria review.

Any Device Model Combinations that are in scope and have not been tested through SIT (for any of the operating capabilities) will need to be tested through the Device Model Combination Testing process.

- This process will be set out in an update to SVTAD in Q1 2019
- BEIS approval for addition of DMCs on to the EPCL will be required
- BEIS will request a Live Services Criteria response for each DMC to be added with the assumption that this would focus on incremental changes and be proportionate to the decision being made
- For IOC there are 38 DMCs outside of SIT (1 DMC = 50k SMSs and remaining 37 total c.70k SMSs)

Subsequently any updates to devices being operating by the DCC to newer firmware models will be tested in Pending Product Combination Testing as set out in revised ETAD (recently consulted upon).

5. Further Controls in Migration

Following the approval of a DMC on to the EPCL Smart Metering Systems can then be migrated, there are continued controls of the migration process:

Individual migration testing:

- During migration process each SMETS1 SMS is taken through data validation and device testing and the SMSO confirms it has been recently communicated with, to increase chance of success

Dormant Migration:

- DCC will monitor and control rate of migration through their Migration Control Centre
- Once migrated users can choose to interact with the meter via DCC once they have completed any relevant testing (Eligibility Testing and Device and User System Testing).
- Suppliers will need to be mindful of operating licence conditions (OLC) to operate these meters via the DCC

Active Migration:

- Suppliers schedule migrations with DCC, and any limits due to DCC capacity are considered across all suppliers and schedules scaled back according to DCC Migration Scaling Methodology
- Supplier provide a signed Migration Authorisation and DCC will not undertake migration until this is received
- Once Migration Authorisation provided, Supplier can ask DCC not to start any Migrations for which the Migration Authorisation has been provided but the Migration hasn't yet started
- DCC will also monitor and control rate of migration through their Migration Control Centre and slow migration rate if required
- At the point of addition to the EPCL suppliers will have 12 months to migrate these meters in to DCC

BEIS will continue oversight of the programme and the migration process for each capability and where appropriate support DCC in understanding requirements to scale back migration across dormant and active meters.

APPENDIX

SMETS1 Testing Overview

Test Area
DCC Total System
User Systems & Eligibility
Migration/Live Proving

Test of upgrade path for dormant DMCs from as-is to version in EPCL

DORMANT METER READINESS TEST

MIGRATION SOLUTION PIT

Component testing of Migration required for each capability release

Testing to confirm that enrolment of meters for a given device model can be completed successfully (includes early integration testing)

MIGRATION SOLUTION TESTING

MIGRATION TESTING SERVICE

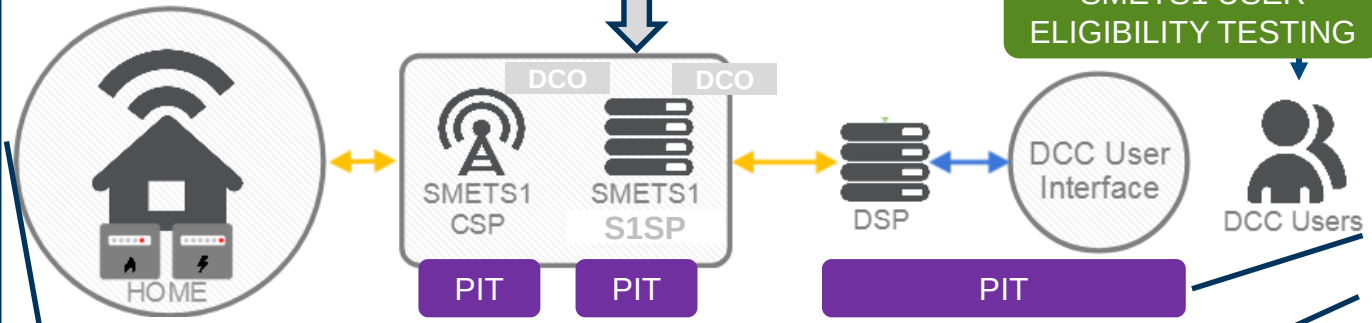
For users to test migration process and subsequently use these DMCs in DUST

Migration Commissioning Party

Test of users to confirm that they are not introducing risk to DCC Total System. The first two users will complete this to fulfil the SMETS1 Interface Testing

Testing with Users of DCC User Interface and DCC Total System. Testing will use devices but will focus on the user interface This is to be completed on Initial Operating Capability and any subsequent change to DCC User Interface

SMETS1 USER ELIGIBILITY TESTING



DCC Test of individual components within DCC Total System at each capability release

PIT

PIT

PIT

Testing of DCC Total System from Device to DCC User Interface for each capability release

SIT

Test of DCC to confirm business is able to accept live operations at volume

SMETS1 INTERFACE TESTING

SMETS1 INTERFACE TESTING

For users to test their own systems prior to and following release live, this will allow them to confirm readiness to operate meters

SMETS1 DEVICE AND USER SYSTEM TESTING (DUST)

SYSTEM CAPACITY TESTING

Test of new FW updates to existing EPCL items to create new EPCL entries

SMETS1 DEVICE MODEL COMBINATION TESTING (DMCT)

SMETS1 PENDING PRODUCT COMBINTATION TESTING (PPCT)

Test run by DCC of DMCs not taken through SIT for these to be added to EPCL