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MP138 ‘DCC Service Testing in ETAD’

Legal text – version 0.1

About this document

This document contains the redlined changes to the SEC that would be required to deliver this Modification Proposal.

Section H 'DCC Services'

These changes have been redlined against Section H version 10.0.

Amend Section H as follows:

H14. TESTING SERVICES

General Testing Requirements

H14.1 The DCC shall provide the following testing services (the "Testing Services"):

- (a) User Entry Process Tests;
- (b) SMKI and Repository Entry Process Tests;
- (c) Device and User System Tests;
- (d) Modification Proposal implementation testing (as described in Section H14.34);
- (e) DCC Internal Systems change testing (as described in Section H14.36);
- (f) RDP Entry Process Tests; ~~and~~
- (g) SMETS1 Pending Product Combinations Tests;
- ~~(h) RF Noise Testing;~~
- ~~(i) Interoperability and Innovation Events;~~
- ~~(j) GFI Testing; and~~
- ~~(k) Wired Instrumented Test Communications Hubs.~~

H14.2 The DCC shall make the Testing Services available, and shall provide the Testing Services:

- (a) in accordance with the Enduring Testing Approach Document and Good Industry Practice;
and

- (b) between 08:00 hours and 18.00 hours Monday to Friday, and at any other time that it is reasonably practicable to do so (including where any DCC Service Provider has agreed to provide services at such time).

H14.3 The DCC shall act reasonably in relation to its provision of the Testing Services and shall facilitate the completion (in a timely manner) of tests pursuant to the Testing Services by each such person which is entitled to do so in accordance with this Section H14. Each Testing Participant shall comply with the Enduring Testing Approach Document with respect to the relevant Testing Services. The DCC shall publish on the DCC Website a guide for Testing Participants describing which persons are eligible for which Testing Services, and on what basis (including any applicable Charges).

H14.4 To the extent it is reasonably practicable to do so, the DCC shall allow persons who are eligible to undertake tests pursuant to the Testing Services to undertake those tests concurrently, or shall (otherwise) determine, in a non-discriminatory manner, the order in which such persons will be allowed to undertake such tests. Where any Testing Participant disputes the order in which persons are allowed to undertake tests pursuant to this Section H14.4, then the Testing Participant may refer the matter to the Panel. Where the DCC or any Testing Participant wishes to do so, it may refer the Panel's decision on such matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.5 Each Party which undertakes tests pursuant to the Testing Services shall do so in accordance with Good Industry Practice. To the extent that such tests involve a Party accessing the DCC's premises, the Party shall do so in compliance with the site rules and reasonable instructions of the DCC.

H14.6 The DCC shall be liable for any loss of or damage to the equipment of Testing Participants (fair wear and tear excepted) that occurs while such equipment is within the DCC's possession or control pursuant to the Testing Services; save to the extent that such loss or damage is caused by a breach of this Code (or the equivalent agreement under Section H14.7) by the Testing Participant.

H14.7 Where (in accordance with this Section H14) a person that is not a Party is eligible to undertake a category of Testing Services as a Testing Participant, the DCC shall not provide those Testing Services to that person unless it is bound by an agreement entered into with the DCC pursuant to this Section H14.7. Where a person who is a Testing Participant (but not a Party) requests a Testing Service, the DCC shall offer terms upon which such Testing Service will be provided. Such offer shall be provided as soon as reasonably practicable after receipt of the request, and shall be based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances).

General: Forecasting

H14.8 Each Testing Participant shall provide the DCC with as much prior notice as is reasonably practicable of that Testing Participant's intention to use any of the following Testing Services: User Entry Process Tests, SMKI and Repository Entry Process Tests, Device and User System Tests and SMETS1 Pending Product Combinations Tests and RF Noise Testing.

General: Systems and Devices

H14.9 The DCC shall provide such facilities as are reasonably required in relation to the Testing Services, including providing:

- (a) for access to the Testing Services either at physical test laboratories and/or remotely;
- (b) a reasonable number of Test Communications Hubs for use by Testing Participants at the DCC's physical test laboratories which represent each and every combination of HAN Variant and WAN Variant; and
- (c) a reasonable number of Devices (other than SMETS2+ Communications Hubs) for use by Testing Participants at the DCC's physical test laboratories, which Devices are to be:
 - (i) in the case of SMETS1 Devices as further described or set out in the Enduring Testing Approach Document; or
 - (ii) except for SMETS1 Devices, of the same Device Models as those selected pursuant to the Device Selection Methodology and/or such other Device Models as the Panel approves from time to time (provided that, where Test Stubs (or other alternative arrangements) were used then such Tests Stubs (or other alternative arrangements) will be used in place of Devices until the DCC agrees with the Panel which Device Models to use).

H14.10 Without prejudice to Sections H14.9(b) and (c), the DCC shall allow Testing Participants to use Devices they have procured themselves when using the Testing Services. The DCC shall make storage facilities available at the DCC's physical test laboratories for the temporary storage by Testing Participants of such Devices (for no more than 30 days before and no more than 30 days after completion of the Testing Service for which such Devices may be expected to be used). The DCC shall ensure that such storage facilities are secure and only capable of access by persons authorised by the relevant Testing Participant.

H14.10A The DCC may require a Testing Participant to remove its Devices from a DCC physical test laboratory in accordance with the requirements set out in the Enduring Testing Approach Document. Any dispute between the DCC and a Testing Participant regarding the removal of such Devices (or the right to re-commence testing) may be referred to the Panel for its determination (which determination shall be final and binding for the purposes of this Code).

General: SMKI Test Certificates

H14.11 The following shall apply in relation to Test Certificates:

- (a) the DCC shall, in accordance with the Enduring Testing Approach Document, issue and make available to Testing Participants copies of such Test Certificates as are reasonably necessary for the purposes of the Testing Participants undertaking Testing Services and testing pursuant to Section T (Testing During Transition);

- (b) the DCC shall only use Test Certificates for the purposes envisaged by this Section H14.11 (and shall not use actual Certificates when providing the Testing Services or undertaking tests pursuant to Section T (Testing During Transition), except to such extent as is approved, and subject to any conditions imposed, by the SMKI PMA);
- (c) each Testing Participant to which Test Certificates are made available pursuant to this Section H14.11 shall only use those Test Certificates for the purposes for which such Test Certificates are made available (and shall not use actual Certificates when undertaking the tests referred to in this Section H14.11);
- (d) each Testing Participant to which Test Certificates are made available pursuant to this Section H14.11 shall be entitled to make those certificates available to others provided that such others only use them for the purposes for which such certificates were made available to the Testing Participant;
- (e) DCC shall ensure that the Test Certificates are clearly distinguishable from actual Certificates;
- (f) the DCC shall act in accordance with Good Industry Practice in providing the Test Certificates;
- (g) each Testing Participant shall act in accordance with Good Industry Practice in using the Test Certificates; and
- (h) each Testing Participant hereby, subject to Section M2.1 (Unlimited Liabilities):
 - (i) waives all rights, remedies and claims it would otherwise have (whether for breach of contract, in tort or delict or otherwise) against the DCC in respect of the Test Certificates;
 - (ii) undertakes not to bring any claim against the DCC in respect of the Test Certificates; and
 - (iii) where it makes the Test Certificates available to others, undertakes to ensure that no such others bring any claim against the DCC in respect of such Test Certificates.

User Entry Process Tests

H14.12 Parties seeking to become Users in accordance with Section H1 (User Entry Process) are entitled to undertake User Entry Process Tests.

H14.13 In respect of a Party seeking to become eligible as a User in a particular User Role, the purpose of the User Entry Process Tests is to test the capability of that Party and the Party's Systems to interoperate with the DCC and the DCC System, to the extent necessary in order that the Party:

- (a) has established a connection to the DCC User Interface via the Party's chosen DCC Gateway Connection;

- (b) can use the DCC User Interface for the purposes set out in Section H3.3 (Communications to be sent via DCC User Interface) in respect of the Services for which Users in that User Role are eligible; and
- (c) can use the Self-Service Interface for the purposes set out in Section H8 (Service Management, Self-Service Interface and Service Desk).

H14.14 The User Entry Process Tests will:

- (a) test the sending of communications from the proposed User System via the DCC System to be received by Devices and from Devices via the DCC System to be received by the proposed User System, recognising that such tests may involve a simulation of those Systems rather than the actual Systems;
- (b) be undertaken in accordance with the Common Test Scenarios Document; and
- (c) be undertaken using Devices selected and provided by the DCC as referred to in Sections H14.9(b) and (c).

H14.15 Only Parties who the DCC considers meet any entry requirements (for a particular User Role) set out in the Common Test Scenarios Document shall be entitled to undertake the User Entry Process Tests for that User Role.

H14.16 Where the DCC is not satisfied that a Party meets such entry requirements (for a particular User Role), that Party may refer the matter to the Panel for its determination. Where the Party disagrees with any such determination of the Panel, then the Party may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.17 Each Party seeking to undertake the User Entry Process Tests shall develop its own test scripts and demonstrate how those test scripts meet the requirements of the relevant scenarios set out in the Common Test Scenarios Document. Each Party shall obtain the DCC's approval that such test scripts meet those requirements before the User Entry Process Tests can commence. Any disputes regarding the approval of such test scripts may be referred to the Panel for determination (which determination shall be final and binding for the purposes of this Code).

H14.18 Each Party will have the right to determine the sequencing of the tests that comprise the User Entry Process Tests; save to the extent that a particular sequence is mandated in the Common Test Scenarios Document.

H14.18A The DCC or the Party undertaking the User Entry Process Tests may suspend testing in accordance with the requirements set out in the Common Test Scenarios Document. Any dispute between the DCC and a Party regarding the suspension (or consequent resumption) of such testing may be referred to the Panel for its determination. Where the DCC or the Party disagrees with any such determination of the Panel, then the DCC or the Party may refer the matter to the Authority for its determination (which determination shall be final and binding for the purposes of this Code).

H14.19A Party will have successfully completed the User Entry Process Tests (for a particular User Role), once the DCC considers that the Party has demonstrated that it has satisfied the requirements set out in the Common Test Scenarios Document for that User Role. Where requested by a Party, the DCC shall provide written confirmation to the Party confirming whether or not the DCC considers that the Party has successfully completed the User Entry Process Tests (for a particular User Role).

H14.20 Where Systems have been proven to meet the requirements of this Code as part of one Party's successful completion of the User Entry Process Tests or tests under Section H14.32 that are equivalent to all or part of the User Entry Process Tests (and where the substance of the relevant part of the User Entry Process Tests have not changed in the interim), then:

- (a) any Party that has use of those Systems shall be entitled to submit proof to the DCC that this is the case when seeking to meet any applicable entry and/or exit requirements set out in the Common Test Scenarios Document; and
- (b) the DCC shall take into account such proof when considering whether such Party meets such entry and/or exit requirements.

H14.21 Where the DCC is not satisfied that a Party has successfully completed the User Entry Process Tests (for a particular User Role), that Party may refer the matter to the Panel for its determination. Where the Party disagrees with any such determination of the Panel, then the Party may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

SMKI and Repository Entry Process Tests

H14.22 Each Party or Registration Data Provider seeking to complete the entry process described in Section L7 (SMKI and Repository Entry Process Tests) is entitled to undertake the SMKI and Repository Entry Process Tests to become either or both of:

- (a) an Authorised Subscriber under either or both of the Organisation Certificate Policy and/or the Device Certificate Policy; and/or
- (b) eligible to access the SMKI Repository.

H14.23 The SMKI and Repository Entry Process Tests will be undertaken in accordance with the SMKI and Repository Test Scenarios Document.

H14.24A Testing Participant seeking to undertake the SMKI and Repository Entry Process Tests for the purposes of either or both of Section H14.22(a) and/or (b) shall notify the DCC of the purposes for which it is undertaking those tests. Only Testing Participants that meet any applicable entry requirements set out in the SMKI and Repository Tests Scenarios Document shall be entitled to undertake those SMKI and Repository Entry Process Tests for the purposes described in Section H14.22(a) and/or (b).

H14.25 Where the DCC is not satisfied that a Testing Participant meets such entry requirements, that Testing Participant may refer the matter to the Panel for its determination. Where the Testing Participant disagrees with any such determination of the Panel, then the Testing Participant may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.26 Each Testing Participant seeking to undertake the SMKI and Repository Entry Process Tests shall develop its own test scripts and demonstrate how those test scripts meet the requirements of the relevant scenarios set out in the SMKI and Repository Tests Scenarios Document (for the purposes described in Section H14.22(a) and/or (b), as applicable). Each Testing Participant shall obtain the DCC's approval that such test scripts meet those requirements before the SMKI and Repository Entry Process Tests can commence. Any disputes regarding the approval of such test scripts may be referred to the Panel for determination (which determination shall be final and binding for the purposes of this Code).

H14.27 Each Testing Participant seeking to undertake the tests will have the right to determine the sequencing of the tests that comprise the SMKI and Repository Entry Process Tests; save to the extent that a particular sequence is mandated in the SMKI and Repository Tests Scenarios Document.

H14.27A The DCC or the Testing Participant undertaking the SMKI and Repository Entry Process Tests may suspend testing in accordance with the requirements set out in the SMKI and Repository Test Scenarios Document. Any dispute between the DCC and a Testing Participant regarding the suspension (or consequent resumption) of such testing may be referred to the Panel for its determination. Where the DCC or the Testing Participant disagrees with any such determination of the Panel, then the DCC or the Testing Participant may refer the matter to the Authority for its determination (which determination shall be final and binding for the purposes of this Code).

H14.28A Testing Participant will have successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable), once the DCC considers that the Testing Participant has demonstrated that it has satisfied the requirements set out in the SMKI and Repository Tests Scenarios Document for those purposes. Where requested by a Testing Participant, the DCC shall provide written confirmation to the Testing Participant confirming whether or not the DCC considers that the Testing Participant has successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable).

H14.29 Where Systems have been proven to meet the requirements of this Code as part of one Testing Participant's successful completion of the SMKI and Repository Entry Process Tests or tests under Section H14.32 that are equivalent to all or part of the SMKI and Repository Entry Process Tests (and where the substance of the relevant part of the SMKI and Repository Entry Process Tests have not changed in the interim), then:

- (a) any Testing Participant that has use of those Systems shall be entitled to submit proof to the DCC that this is the case when seeking to meet any applicable entry and/or exit requirements set out in the SMKI and Repository Tests Scenarios Document; and

- (b) the DCC shall take into account such proof when considering whether such Testing Participant meets such entry and/or exit requirements.

H14.30 Where the DCC is not satisfied that a Testing Participant has successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable), that Testing Participant may refer the matter to the Panel for its determination. Where the Testing Participant disagrees with any such determination of the Panel, then the Testing Participant may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

Device and User System Tests

H14.31 This Section H14.31 shall only apply in respect of SMETS1 Devices from 31 August 2018 or any such later date as the Secretary of State may direct further to a recommendation from the DCC to the Secretary of State following a consultation on a proposed date by the DCC with all SEC Parties and the SEC Panel. The DCC shall provide a service to enable Testing Participants:

- (a) to test the interoperability of SMETS2+ Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Test Communications Hubs provided as part of the Testing Services, such that those Devices are able to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification;
- (b) to test the interoperability of SMETS1 Devices with the DCC Systems, such that those Devices are able to respond to Instructions received from or via the DCC such that the necessary Equivalent Steps are taken (provided that such service need only be provided by the DCC in respect of combinations of SMETS1 Device Models that are listed on the SMETS1 Eligible Product Combinations);
- (c) to test the interoperability of User Systems with the DCC Systems, including via the DCC User Interface and the Self-Service Interface;
- (d) to test simultaneously the interoperability of User Systems and SMETS2+ Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Test Communications Hubs provided as part of the Testing Services; and
- (e) to test simultaneously the interoperability of User Systems and SMETS1 Devices (excluding combinations of SMETS1 Devices that are not listed on the SMETS1 Eligible Product Combinations) with the DCC Systems,

which Testing Services, except in respect of (c) above, shall (subject to the Testing Participant agreeing to pay any applicable Charges, as further described in the Enduring Testing Approach Document) include the provision of a connection to a simulation of the SMETS2+ SM WAN for the purpose of such tests as further described in the Enduring Testing Approach Document (save to the extent the connection is required where the DCC is relieved from its obligation to provide Communication Services pursuant to the Statement of Service Exemptions). For the avoidance of doubt, the DCC shall not be obliged by this Section H14.31 to provide a connection to a simulation of the SMETS1 SM WAN.

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References to particular Systems in this Section H14.31 may include a simulation of those Systems (rather than the actual Systems).

H14.32 Each Party is eligible to undertake Device and User System Tests. Any Manufacturer (whether or not a Party) is eligible to undertake those Device and User System Tests described in Section H14.31(a) and (b); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the Manufacturer must be a Party. Any person providing (or seeking to provide) goods or services to Parties or Manufacturers in respect of Devices is eligible to undertake those Device and User System Tests described in Section H14.31(a) and (b); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the person must be a Party. A Party undertaking the Device and User System Tests described in Section H14.31(c) is entitled to undertake tests equivalent to any or all of the User Entry Process Tests and SMKI and Repository Entry Process Tests, in respect of which:

- (a) the DCC shall, at the Party's request, assess whether the test results would meet the requirements of all or part of the applicable User Entry Process Tests and/or SMKI and Repository Entry Process Tests;
- (b) the DCC shall, at the Party's request, provide a written statement confirming the DCC's assessment of whether the test results would meet the requirements of all or part of the applicable tests; and
- (c) the Party may, where it disputes the DCC's assessment, refer the matter to the Panel for its determination (which shall be final and binding for the purposes of this Code).

H14.33 The DCC shall, on request by a Testing Participant, take all reasonable steps to offer additional support to that Testing Participant (subject to such Testing Participant agreeing to pay any applicable Charges) in understanding and resolving issues associated with:

- (a) the DCC Total System and the results of such Testing Participant's Device and User System Tests;
- (b) where the Testing Participant is a Party, the Systems of the Testing Participant that are (or are intended to be) User Systems; and/or
- (c) communications between the DCC and any Device or between Devices which comprise (or which the Testing Participant intends will comprise) a Smart Metering System.

H14.33A The additional Testing Services provided for in Section H14.33 are without prejudice to the DCC's obligations in respect of Testing Issues, Incidents and Problems.

Modification Implementation Testing

H14.34 Where an approved Modification Proposal provides for the DCC to provide testing services as part of the Modification Proposal's implementation, then such testing shall be undertaken as a Testing Service pursuant to this Section H14.34.

H14.35 The Parties which are eligible, or obliged, to participate in such testing shall be determined in accordance with Section D (Modification Process), and either set out in this Code or established via a process set out in this Code.

DCC Internal System Change Testing

H14.36 Where, pursuant to Section H8.8 (DCC Internal Systems Changes), a Party or an RDP is involved in testing of changes to the DCC Internal Systems, then such testing shall not be subject to the requirements of Section H14.3, Section H14.4 and Sections H14.6 to H14.11 (inclusive), but such Party or RDP may nevertheless raise a Testing Issue in respect of the tests (and the references to Testing Participant in Sections H14.37 to H14.44 shall be interpreted accordingly).

SMETS1 Pending Product Combinations Tests

H14.36A This Section H14.36A shall only apply in respect of SMETS1 Devices from 31 August 2018 or any such later date as the Secretary of State may direct further to a recommendation from the DCC to the Secretary of State following a consultation on a proposed date by the DCC with all SEC Parties and the SEC Panel. The DCC shall provide services (the "**SMETS1 Pending Product Combinations Tests**") whereby a Party or a Manufacturer (being the relevant Testing Participant) can from time to time request that the DCC determines whether or not testing is required and, where it determines that testing is required, tests one or more combinations of SMETS1 Device Models and communication services provider that are not at that time listed on the SMETS1 Eligible Product Combinations in order to demonstrate whether the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of them (subject to Section H14.36C(c)).

H14.36B Where requested in accordance with Section H14.36A, the DCC shall undertake, and facilitate the Testing Participant's participation in, the SMETS1 Pending Product Combinations Tests in respect of the requested combination(s) of SMETS1 Device Models as soon as reasonably practicable. The DCC shall then notify the relevant Testing Participant whether the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of them, without needing to make material changes to the DCC Systems and/or modifications to this Code.

H14.36C Where the DCC notifies a Testing Participant that the DCC is not able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of a combination of SMETS1 Device Models without needing to make material changes to the DCC Systems and/or modifications to this Code, then the DCC shall:

- (a) provide the relevant Testing Participant with reasonable details of the reasons why the DCC is not able to do so, and of the changes to the DCC Systems and/or modifications to this Code which would be required in order to enable the DCC to do so (in each case, to the extent that

the DCC has been able to identify such reasons and changes and/or modifications, having taken reasonable steps to identify them);

- (b) provide the relevant Testing Participant with such reasonable support as they may request in understanding the issues identified by the DCC;
- (c) not be obliged to provide SMETS1 Pending Product Combinations Tests to the same Testing Participant in respect of the same combination of SMETS1 Device Models unless and until the relevant changes have been made to the DCC System and/or the relevant modifications have been made to this Code; and
- (d) make available in accordance with the Enduring Testing Approach Document such details regarding the relevant combination of SMETS1 Device Models as is required in accordance with the Enduring Testing Approach Document.

H14.36D Where the DCC is able to successfully process SMETS1 Service Requests and relevant SMETS1 Alerts in respect of a combination of SMETS1 Device Models without needing to make material changes to the DCC Systems and/or modifications to this Code, then the DCC shall add that combination of Device Models to the SMETS1 Eligible Product Combinations.

H14.36E The DCC and the relevant Testing Participant in respect of the SMETS1 Pending Product Combinations Tests shall comply with any and all additional obligations concerning SMETS1 Pending Product Combinations Tests set out in the Enduring Testing Approach Document.

Radio Frequency Noise Testing

H14.37 The DCC shall provide a Testing Service (referred to as RF Noise Testing) to enable Testing Participants to test ESME or a Communication Hub Hot Shoe to ensure it meets the requirements of the current Intimate Communications Hub Interface Specification (ICHIS) published on the DCC Website in accordance with SEC Section H12.

H14.38 The following shall apply in respect of RF Noise Testing:

- (a) the following persons shall be eligible to undertake RF Noise Testing: Parties and persons that have signed agreements based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances, including so as to require compliance with this Section H14);
- (b) Testing Participants undertaking RF Noise Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time (provided that such obligations are not inconsistent with the provisions of the Code that are in effect at that time); and

(c) the Testing Issue Resolution Process in Section H14.47 to H14.55 (General: Testing Issue Resolution Process) shall not apply to RF Noise Testing, but DCC must take reasonable steps to provide support and assistance to a person undertaking RF Noise Testing in order to assist that person in resolving Testing Issues encountered when undertaking RF Noise Testing.

H14.39 The DCC and the relevant Testing Participant in respect of the RF Noise Testing shall comply with any and all additional obligations concerning RF Noise Testing set out in the Enduring Testing Approach Document.

Interoperability and Innovation Events

H14.40 The DCC shall provide a Testing Service (referred to as Interoperability and Innovation Events) that provides a platform for Device Manufacturers to test connectivity, interoperability, interchangeability and functionality between SMETS2+ Home Area Network (HAN) Devices.

H14.41 The DCC and the relevant Testing Participants in respect of Interoperability and Innovation Events shall comply with any and all additional obligations concerning Interoperability and Innovation Events set out in the Enduring Testing Approach Document.

GFI Testing

H14.42 The DCC shall provide types of Testing Tools (referred to as GBCS for Industry (GFI)) to enable Testing Participants to test their products against an interpretation of DCC Total Systems, including an interpretation of the GBCS standard, such that those Devices are able to respond to Commands received in accordance with the requirements defined in the GB Companion Specification.

H14.43 The following shall apply in respect of GFI Testing:

- (a) the following persons shall be eligible to undertake GFI Testing: Parties and persons that have signed agreements based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances, including so as to require compliance with this Section H14);
- (b) the references in H14.42 to “Communications Hubs”, “DCC Systems” and “Devices” shall be interpreted as including references to prototypes of simulations of those things (and GFI Testing shall not include communication via the SM WAN, or a simulation of the SM WAN);
- (c) Testing Participants undertaking GFI Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time (provided that such

obligations are not inconsistent with the provisions of the Code that are in effect at that time);
and

- (d) the Testing Issue Resolution Process in Section H14.47 to H14.55 (General: Testing Issue Resolution Process) shall not apply to GFI Testing, but DCC must take reasonable steps to provide support and assistance to a person undertaking GFI Testing in order to assist that person in resolving Testing Issues encountered when undertaking GFI Testing.

H14.44 The DCC and the relevant Testing Participant in respect of the GFI Testing shall comply with any and all additional obligations concerning GFI Testing set out in the Enduring Testing Approach Document.

Wired Instrumented Test Communications Hubs

H14.45 The DCC shall provide a Testing Service (referred to as Wired ITCH) to enable Testing Participants to perform interoperability testing with SMETS2+ Test Communications Hub that will facilitate the sending of DUIS Commands to HAN Devices.

H14.46 The DCC and the relevant Testing Participant in respect of the Wired ITCH shall comply with any and all additional obligations concerning Wired ITCH set out in the Enduring Testing Approach Document.

Section K 'Charging Methodology'

These changes have been redlined against Section K version 10.0.

Amend Section K as follows:

K7.5 The Explicit Charging Metrics for each Party and the Charging Period for each month are as follows:

- (a) (*'security assessments'*) an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section G8.51 (Users: Obligation to Pay Charges) in relation to User Security Assessments, Follow-up Security Assessments, User Security Assessment Reports or the activities of the Independent Security Assurance Service Provider;
- (b) (*'privacy assessments'*) an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section I2.40 (Users: Obligation to Pay Charges) in relation to Full Privacy Assessments, Random Sample Privacy Assessments, Privacy Assessment Reports or the activities of the Independent Privacy Auditor;
- (c) (*'LV gateway connection'*) an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway LV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (d) (*'HV gateway connection'*) an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway HV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (e) (*'gateway equipment relocation'*) an obligation to pay arising during that Charging Period as a result of a request by that Party to relocate DCC Gateway Equipment under Section H15.27 (DCCGateway Equipment);
- (f) (*'elective service evaluations'*) an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party for a Detailed Evaluation in respect of potential Elective Communication Services pursuant to Section H7.8 (Detailed Evaluations of Elective Communication Services);

- (g) ('P&C support') an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party in relation to that Party's use or implementation of the Parse and Correlate Software pursuant to Section H11.12 (Provision of Support & Assistance to Users);
- (h) ('SM WAN for testing') an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide a connection to a simulation of the SM WAN pursuant to Section H14.31 (Device and User System Testing);
- (i) ('additional testing support') an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide additional testing support to that Party pursuant to Section H14.33 (Device and User System Testing);
- (j) ('communication services') the number of each of the Services identified in the DCC User Interface Services Schedule which have been provided to that Party during that Charging Period;
- (k) ('CH non-standard delivery') an obligation to pay arising during that Charging Period as a result of the request by that Party for non-standard Communications Hub Product delivery requirements pursuant to Section F6.17 (Non-Standard Delivery Options);
- (l) ('CH stock level charge') the number (to be measured at the end of that Charging Period) of Communications Hubs that have been delivered to that Party under Section F6 (Delivery and Acceptance of Communications Hubs) and for which none of the following has yet occurred: (i) identification on the Smart Metering Inventory as 'installed not commissioned' or 'commissioned'; (ii) rejection in accordance with Section F6.10 (Confirmation of Delivery); (iii) delivery to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs); or (iv) notification to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs) that the Communications Hub has been lost or destroyed;
- (m) ('GFI Testing') the number of each of the types of GFI Testing tools which have been delivered to that Party during that Charging Period under Section H14 (Testing Services) and in accordance with Section 15 of Appendix I (Enduring Testing Approach Document);
- (n) ('CH auxiliary equipment') the number of each of the types of Communications Hub Auxiliary Equipment which have been delivered to that Party during that Charging Period under Section F6 (Delivery and Acceptance of Communications Hubs), and which have not been (and are not) rejected in accordance with Section F6.10 (Rejected Communications Hub Products) or (in the case of the Communications Hub

- Auxiliary Equipment to which Section 7.8 applies (Ownership of and Responsibility for Communications Hub Auxiliary Equipment)) returned, or notified as lost or destroyed, for a reason which is a CH Pre-Installation DCC Responsibility;
- (o) ('CH returned and redeployed') the number of Communications Hubs which have been returned by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have been (or are intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);
 - (p) ('CH returned not redeployed') the number of Communications Hubs which have been returned, or notified as lost or destroyed, by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have not been (and are not intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);
 - (q) ('CH wrong returns location') an obligation to pay arising during that Charging Period as a result of the return by that Party of Communications Hubs to the wrong returns location as referred to in Section F8.9 (Return of Communications Hubs);
 - (r) ('test comms hubs') the number of Test Communications Hubs delivered to that Party during that Charging Period, and which have not been (and are not) returned to the DCC in accordance with Section F10.8 (Ordering, Delivery, Rejection and Returns);
 - (s) ('additional CH Order Management System accounts') the number of additional CH Order Management System accounts made available to that Party during that Charging Period in accordance with Section F5.23 (CH Order Management System Accounts);
 - (t) ('shared solution Alt HAN Equipment') the number (as measured at the end of that Charging Period) of MPANs associated with premises supplied with electricity by that Party and of MPRNs associated with premises supplied with gas by that Party, in respect of each of which premises (except where the Alt HAN Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) Central Shared Solution Alt HAN Equipment is installed;
 - (u) ('point-to-point Alt HAN Equipment') the number (as measured at the end of that Charging Period) of MPANs associated with premises supplied with electricity by that Party and of MPRNs associated with premises supplied with gas by that Party, in respect of each of which premises (except where the Alt HAN Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) Central Point-to-Point Alt HAN Equipment is installed; and
 - (v) ('stock level point-to-point Alt HAN Equipment') the number of items of Central Point-to-Point Alt HAN Equipment (as measured at the end of that Charging Period)

delivered to that Party but not installed.

(w) ('RF Noise Testing') an obligation to pay arising during that Charing Period from the acceptance by that Party of the charges offered by the DCC to provide RF Noise Testing pursuant to Section H14.37 (Radio Frequency Noise Testing).

Schedule 7 ‘Specimen Enabling Services Agreement’

These changes have been redlined against Schedule 7 version 7.1.

Amend Schedule 1 as follows:

Schedule 1 – Enabling Services

[The Enabling Services shall comprise the provision of Test Communications Hubs in accordance with Section F10 (Test Communications Hubs). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section F10 (the Participant complying with those obligations assigned to TCH Participants).]

[The Enabling Services shall comprise the provision of either or both those Device and User System Tests described in Section H14.31(a) and (b) (Device and User System Tests) in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of SMETS1 Pending Product Combinations Tests in accordance with Section H14 (Testing Services). The DCC and the Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of RF Noise Testing in accordance with Section H14 (Testing Services). The DCC and Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of Interoperability and Innovation Events in accordance with Section H14 (Testing Services). The DCC and Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

[The Enabling Services shall comprise the provision of GFI Testing in accordance with Section H14 (Testing Services). The DCC and Participant shall each comply with their respective obligations set out or referred to in that Section H14 (the Participant complying with those obligations assigned to Testing Participants).]

Appendix J 'Enduring Testing Approach Document'

These changes have been redlined against Appendix J version 2.0.

Amend Appendix J as follows:

6 Requirements for Use of DCC Test Labs

- 6.1 Pursuant to Section H14.9(a), the DCC shall make available the DCC's physical test laboratories to Testing Participants to conduct User Entry Process Tests, Device and User System Tests, Modification Proposal implementation testing, ~~and~~ DCC Internal Systems change testing, Interoperability and Innovation Events and RF Noise.
- 6.2 Where a Testing Participant is performing tests in a DCC physical test laboratory, it must comply with any reasonable supplemental terms and conditions that are required by the DCC and notified prior to testing which may include:
- a) identification and authorisation of the individual(s) requiring access to the DCC physical test laboratory;
 - b) requirements to maintain confidentiality of information;
 - c) policies relating to the acceptable use of the laboratory and equipment; and
 - d) requirements to follow:
 - (i) health and safety guidance for test laboratories;
 - (ii) security guidance; and
 - (iii) training on use of test laboratories and installation of Devices in the spaces provided.
- 6.3 Where DCC considers that the Testing Participant has breached any SEC obligations relating to the use of a Testing Service at the physical test laboratory it shall notify the Testing Participant to that effect. The DCC and Testing Participant shall use reasonable steps to rectify the situation. Where DCC considers that the situation has not been rectified the DCC may request that the Testing Participant shall immediately remove its Devices from the Test Lab and the Testing Participant shall comply with such a request. DCC will provide the Testing Participant with:

- a) the reason(s) for this instruction; and
- b) the steps that must be taken and the evidence required, in order for the Participant to re-commence testing.

6.4 A Testing Participant may dispute the reasons for the instruction in clause a) or b) to the Panel and the DCC and Testing Participant shall comply with any determination.

6.5 Where a Testing Participant wishes to install their own devices in a DCC physical test laboratory, the Testing Participant must provide the following to the DCC prior to installing a device in a DCC physical test laboratory:

- a) in the case of SMETS2+ Devices only, where a Testing Participant reasonably believes that devices do not conform to SMETS2+ that any non-compliant aspects are notified to, and agreed with, the DCC (such agreement not to be unreasonably withheld). Supporting information should be provided, including evidence of testing that has been undertaken, which could include the use of GIT for Industry;
- b) evidence that all the supplied devices are safe to store, install, operate and decommission. This may be in the form of a statement of compliance with the relevant parts of the CE marking or equivalent; and
- c) confirmation that the devices have been produced in accordance with a recognised quality assurance process and a defined testing issue management and configuration management process.

6.6 Where a Testing Participant wishes to install their own Devices in a DCC physical test laboratory, the Testing Participant must:

- a) remove devices from the DCC physical test laboratory by 17:00 on the last day of the allocated test slot; and
- b) comply with any other reasonable restrictions notified by the DCC, which the DCC shall notify to a Testing Participant when informing them that their requested test slot is available.

6.7 For the purpose of Section H14.10, storage space requirements for equipment shall be arranged between the DCC and the Testing Participant when making application to use the physical test laboratory. Pursuant to Section H14.10, the DCC will store at its physical test laboratories any number of Devices that a Testing Participant has procured itself that the DCC can reasonably

accommodate.

6.8 In relation to testing being undertaken in a DCC physical test laboratory:

- a) without prejudice to the DCC's obligations under Section M4 (Confidentiality), each Testing Participant shall take reasonable steps to preserve the confidentiality of the Testing Participant's Confidential Information;
- b) no Testing Participant shall attempt to discover, overhear or obtain Data regarding testing being conducted by other Testing Participants in the DCC physical test laboratory; and
- c) (without prejudice to (b) above) no Testing Participant shall disclose or use any Data of the DCC or any other Testing Participant that the first Testing Participant discovers, overhears or obtains in the course of using the DCC's physical test laboratory.

7 User Entry Process Tests

7.1 In accordance with Section H14.9, DCC physical test laboratories will house sets of Devices or the DCC shall provide test stubs for SMETS2+ Devices, with a set consisting of:

- a) For tests in respect of SMETS2+ Devices:
 - (i) one Test Communications Hub;
 - (ii) one Electricity Smart Meter; and
 - (iii) one Gas Smart Meter.
- b) For tests in respect of SMETS1 Devices, two sets of Devices comprising Device Model Combinations that are on the list of Eligible Product Combinations, comprising one of ~~each of~~ the following:
 - (i) a Communications Hub, an Electricity Smart Meter, a Gas Smart Meter and an IHD; ~~or and~~
 - (ii) a Communications Hub, an Electricity Smart Meter, a Gas Smart Meter and a SMETS1 PPMID.

7.2 DCC shall allocate a number of spaces in the DCC physical test laboratory, together with Device sets to the Testing Participant, as agreed at the User Entry Process Tests initiation meeting, according to the following allocation schedule:

- a) Parties that are Affiliates undertaking UEPT in the User Roles of Import Supplier and / or Gas Supplier will collectively be allocated a total of two SMET2+ Device sets and two SMETS1 Device sets to undertake UEPT in those User Roles;
- b) Parties that are Affiliates undertaking UEPT in the User Role of Export Supplier will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets to undertake UEPT in that User Role;
- c) Parties that are Affiliates undertaking UEPT in the User Roles of Electricity Distributor and / or Gas Transporter will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets to undertake UEPT in those User Roles. Where Parties that are Affiliates hold Electricity Distribution Licences and/or Gas Transportation Licences in different Regions, in the case of SMETS2+ Device sets, such Affiliates shall be offered on request two Device sets collectively in relation to each Region; and
- d) Parties that are Affiliates undertaking UEPT in the User Role of Other User will collectively be allocated a total of two SMETS2+ Device sets and two SMETS1 Device sets to undertake UEPT in that User Role.

7.3 The Device sets allocated for the conduct of User Entry Process Tests shall not be used for other testing without the agreement of DCC, such agreement not to be unreasonably withheld.

8

14 Radio Frequency Noise Testing

14.1 RF Noise Testing shall be undertaken to the requirements as set out in the current Intimate Communications Hub Interface Specification (ICHIS) and the associated ICHIS Test Specification published on the DCC Website.

14.2 DCC shall provide a reasonable number of each Communications Hub Antenna Structure (CHAS) test device listed in the current ICHIS to Testing Participants for the purposes of RF Noise Testing.

14.3 RF Noise Testing shall also provide the ability for DCC to test new CHAS test devices not yet listed in the current ICHIS with SMETS2+ ESME and Communications Hub Hot Shoe Devices upon agreement with the relevant Testing Participant.

14.4 Where a Testing Participant requests RF Noise Testing, the DCC shall provide confirmation that

it can accommodate the request and a quotation for the Charges associated with the service.

14.5 Where a Testing Participant wishes to accept the quotation for RF Noise Testing, the Testing Participant shall notify the DCC.

14.6 Where RF Noise Testing is undertaken at the DCC Test Labs then Section 6 will apply.

15 Interoperability and Innovation Events

15.1 Testing Participants will be notified of the schedule of events and issued invitations to attend by DCC. Invitations to attend shall be issued via e-mail at least one month prior to the event.

15.2 The DCC shall notify any terms relating to the attendance of Interoperability and Innovation Events to each Testing Participant prior to the attendance of such an event.

15.3 Where an Interoperability and Innovation Event is held at the DCC Test Labs then Section 6 will apply.

15.4 No certification or accreditation is provided by attending these events.

16 GFI Testing

16.1 DCC shall develop and make available via the DCC Website a policy describing the provisions and allocation requirements for types of GFI Testing.

16.2 Testing Participant shall request GFI Testing Tools in accordance with the GFI Testing Policy.

16.3 Where a Testing Participant requests GFI Testing outside of the provisions and allocation requirements set out in the GFI Testing Policy, DCC shall provide confirmation that it can accommodate the request and a quotation for the Charges of the service.

16.4 Where a Testing Participant wishes to accept the quotation for GFI Testing, the Testing Participant shall notify the DCC.

17 Wired Instrumented Test Communications Hub (ITCH)

17.1 The DCC shall make available to Testing Participants Dual Band SMETS2+ Instrumented Test Communication Hubs (ITCHs) which are a Communications Hub (CH) variant in which the SM-WAN interface is disabled. The Wired ITCH will contain the capability to be connected to a test

environment Personal Computer (PC) via a wired interface. This will enable a Testing Participants to exchange messages, responses and alerts between the PC and the CH without the use of a WAN network.

17.2 Testing Participants may order Wired ITCHs in accordance with SEC Section F10.

Definitions & Interpretation	
<u>Communications Hub Antenna Structure (CHAS)</u>	<u>means a unit which is used for testing against the Intimate Communications Hub Interface Specification (ICHIS) Test Specification.</u>
GIT for Industry	means a test tool provided by DCC to validate implementation of GBCS by a Device.
Quality Gate Checklist	means a checklist document used to support assessment whether criteria have been met.
Testing Issue Management Tool	means a test management tool that has the ability to log and track Testing Issues.
<u>Testing Participants</u>	<u>means, in respect of each Testing Service, the persons (whether or not they are Parties) who are entitled to undertake such tests, as described in Section H14 (Testing Services).</u>