SECTION P: PRODUCTION PROVING

P1 PRODUCTION PROVING

Purpose

P1.1 The purpose of Production Proving is to provide assurance on the operation of the DCC Total System.

Overview

P1.2 The DCC may, in its capacity as the Production Proving Function and subject to this Section P, to the extent reasonably necessary for the purposes of Production Proving:

(a) act as if it is a User (in different User Roles) to send Service Requests;

(b) act as if it is a User (in different User Roles) to receive Service Responses and Alerts in relation to Production Proving Devices (as if it was an Eligible User);

(c) act as if it is a User (in different User Roles) to access the Self Service Interface; and

(d) act as if it is a Registration Data Provider in respect of Production Proving Registration Data.

Production Proving Devices

P1.3 The Production Proving Function is only entitled to send a Service Request or Signed Pre-Command to the DCC that will result in communication with a Device where that Device is a Production Proving Device.

P1.4 A "**Production Proving Device**" is a (real) Device of a Device Model identified in the Certified Products List, but one that has been procured by the DCC for the purposes of Production Proving.

P1.5 The Production Proving Function may send a Service Request requesting that the DCC adds a Production Proving Device to the Smart Metering Inventory (to be listed with an SMI Status of 'pending'), and the DCC shall add the Production Proving Device to the Smart Metering Inventory provided that the Production Proving Device

is of a Device Model that is identified in the Certified Products List.

P1.6 The Production Proving Function may install and Commission Production Proving Devices in order to create Smart Metering Systems, but those Production Proving Devices (and Smart Metering Systems) cannot be ones that record the supply of gas, or import or export of electricity, to or from a Premises for the purposes of settlement under the Energy Codes.

P1.7 The DCC shall not allow Production Proving Devices to be linked in the Smart Metering Inventory to (real) MPANs or MPRNs.

Production Proving MPXNs

P1.8 Given the limitation set out in Section P1.7, the Production Proving Function is entitled to generate dummy MPANs and dummy MPRNs (collectively, "**Production Proving MPXNs**") for the purposes of Production Proving. The DCC may record these Production Proving MPXNs in the Smart Metering Inventory and link them to Production Proving Devices for the purposes of recording the Commissioning of Production Proving Devices. The DCC shall publish on the DCC Website the range of values which the DCC uses for Production Proving MPXNs.

P1.9 The Production Proving Function shall ensure that the Production Proving MPXNs are different from any and all MPANs and MPRNs, including that the data values of each Production Proving MPXN are outside the range that may in the future be used in an MPAN or MPRN.

P1.10 The DCC shall ensure that each Production Proving MPXN is only linked in the Smart Metering Inventory to a Production Proving Device (and not any other Device).

Production Proving Registration Data

P1.11 The Production Proving Function may generate dummy Registration Data ("**Production Proving Registration Data**") for the purposes of Production Proving.

P1.12 The Production Proving Function shall ensure that the data fields in the Production Proving Registration Data by which Parties and other market participants are identified all contain data values which are different from the values used in the Registration Data to identify Parties and other market participants, including that the

data values are outside the range that may in the future be used to identify Parties and other market participants.

P1.13 The Production Proving Function shall be entitled to send the Production Proving Registration Data to the DCC in accordance with Section E (Registration Data) acting as if the Production Proving Function was a Registration Data Provider.

Excluded Service Requests

P1.14 The Production Proving Function may not submit the following Service Requests (or send Signed Pre-Commands that relate to the following Service Requests):

(a) Update Security Credentials (KRP) (SRV 6.15);

(b) Request Handover Of DCC Controlled Device (SRV 6.21); or

(c) Update Security Credentials (CoS) (SRV 6.23).

Testing

P1.15 The DCC shall, before it undertakes any or all of the activities set out in Section P1.2, successfully complete reasonable and appropriate testing of the Systems to be used as the Production Proving System.

P1.16 Prior to sending a Service Request to the DCC, the Production Proving Function must have successfully completed testing equivalent to User Entry Process Tests in the relevant User Role in which it wishes to act in sending that Service Request.

P1.17 Prior to sending Production Proving Registration Data to the DCC, the Production Proving Function must have successfully completed testing equivalent to RDP Entry Process Tests.

General Standards

P1.18 Where the DCC undertakes Production Proving, it shall do so in accordance with Good Industry Practice, and in a manner that does not adversely affect the provision of the Services.

Production Proving IDs

P1.19 The Panel shall, where requested by the DCC, issue one or more Party Signifiers and/or RDP Signifier to the DCC for the purposes of identifying the DCC when acting as if it was a User or an RDP in its capacity as the Production Proving Function, and the Production Proving Function shall use these signifiers for such purpose.

P1.20 The Panel shall, where requested by the DCC, issue a new range of EUI-64 Compliant identifiers for use as DCC IDs by the DCC when acting as the Production Proving Function. This range must be outside the range of identifiers used by DCC as DCC IDs for any other DCC purpose under this Code.

P1.21 The DCC shall assign one or more DCC IDs for use only by the Production Proving Function.

P1.22 The DCC shall notify the Panel which DCC IDs are associated with which Production Proving Function Party Signifier, and which DCC IDs are associated with which Production Proving Function RDP Signifier.

P1.23 The Production Proving Function shall not use User IDs for the purpose of Production Proving.

Security

P1.24 As the Production Proving Systems form part of the DCC Live Systems and the DCC Total System, the DCC shall ensure that it complies with the relevant requirements of Section G (Security) which apply as a consequence.

P1.25 The Production Proving Systems do not need to comply with the requirements of Section G (Security) which apply to User Systems or which apply to RDP Systems (via Section E (Registration Data)); save that Section G6 (Anomaly Detection Thresholds: Obligations on the DCC and Users) shall apply to the Production Proving Function as if it was a User.

P1.26 For such purposes of Section G6 (Anomaly Detection Thresholds: Obligations on the DCC and Users), the Production Proving Function shall set Anomaly Detection Thresholds that have been approved by the Security Sub-Committee (and the DCC shall not process any communication from the Production Proving Function until such

threshold values have been approved and set).

P1.27 In respect of the DCC's obligations under Section G6 (Anomaly Detection Thresholds: Obligations on the DCC and Users), not acting in the capacity of the Production Proving Function, the DCC shall set the Anomaly Detection Thresholds for the following Service Requests from the Production Proving Function to zero:

(a) Update Security Credentials (KRP) (SRV 6.15);

(b) Request Handover Of DCC Controlled Device (SRV 6.21); and

(c) Update Security Credentials (CoS) (SRV 6.23).

Records and Reporting to the Security Sub-Committee

P1.28 The DCC shall:

(a) retain an audit log of the activities undertaken by the Production Proving Function for at least 6 years from the date on which the activity was undertaken;

(b) carry out post-event checks to confirm that no Service Requests or Signed Pre-Commands sent by the Production Proving Function resulted in communication with a Device which is not a Production Proving Device (or would have resulted in such communication had the DCC not rejected the message); and

(c) carry out post-event checks to ensure that the Production Proving Registration Data did not contain any (real) MPANs or MPRNs and did not use identifiers that are (or have been) used in the Registration Data to identify Parties and other market participants.

P1.29 The DCC shall, within 5 Working Days following the end of each month, provide a report to the Security Sub-Committee which summarises in respect of that month the matters referred to in Section P1.28.

SMKI Services and DCCKI Services

P1.30 The Production Proving Function shall be entitled to receive SMKI Services and

DCCKI Services under and in accordance with the relevant provisions of Section L (Smart Metering Key Infrastructure and DCC Key Infrastructure) and the SEC Subsidiary Documents applying pursuant to Section L:

(a) as if it was a Party other than the DCC; and

(b) as if it was an RDP.

P1.31 The effect of Section P1.30 is to entitle the Production Proving Function to become an Authorised Subscriber, and to be an Eligible Subscriber in respect of those Device Certificates and Organisation Certificates for which the Production Proving Function is expressly stated to be eligible in Section L (Smart Metering Key Infrastructure and DCC Key Infrastructure).

P1.32 Before the Production Proving Function can apply to become an Authorised Subscriber or access the SMKI Repository, the Production Proving Function must have successfully completed testing equivalent to the SMKI and Repository Entry Process Tests.

P1.33 The Production Proving Function shall not submit any Certificate Signing Requests for a Device Certificate other than in relation to a Production Proving Device.

P1.34 The Production Proving Function shall not submit any Certificate Signing Request for an Organisation Certificate other than the one in relation to which it is identified as an Eligible Subscriber in Section L3 (The SMKI Services).

P1.35 The DCC is not required to implement controls within the DCA, an Issuing DCA or within the Registration Authority that limit the issuing of Device Certificates to the Production Proving Function in relation Production Proving Devices.

P1.36 The DCC shall ensure that no Public Key that is used by a Production Proving Device in relation to the Remote Party Role of either supplier or networkOperator is contained within any Certificate or other public key infrastructure certificate.