REC Assessment Criteria for MHHS Qualification

04/03/2025



RETAIL ENERGY CŮDE

CHANGE HISTORY

| Version | Status | Issue Date | Author | Comments |
|---------|--------|------------|------------------------|---|
| 1.0 | Final | 05/09/2023 | REC Code Manager | Approved by PAB |
| 1.1 | Draft | 19/03/2024 | REC Code Manager | Draft for PAB approval. Changes include: Addition of Non-Functional and Migration Requirements Updates to align with the latest version of the Qualification Approach and Plan General housekeeping changes |
| 2.0 | Final | 26/03/2024 | REC Code Manager | V1.1 approved by PAB for publication |
| 2.1 | Draft | 18/06/2024 | REC Code Manager | Draft for PAB approval. Changes include: Addition of Operational Testing Requirements Updates to align with the latest version of the Qualification Approach and Plan and its annexes General housekeeping changes |
| 3.0 | Final | 25/06/2024 | REC Code Manager | V2.1 approved by PAB for publication |
| 3.1 | Draft | 04/03/2025 | REC Code Manager | V3.1 shared with QWG for comment and PAB for approval |

Contents

1 TABLE OF CONTENTS

| 2 | Ir | ntrodu | ction4 |
|---|-----|--------|--|
| | 2.1 | MH | HS Qualification |
| | 2.2 | Role | e of the REC Performance Assurance Board (PAB)4 |
| | 2.3 | Арр | roach for MHHS Qualification4 |
| | 2.4 | High | n-level Requirements for Qualification5 |
| 3 | A | pproa | ch for Qualification Testing6 |
| | 3.1 | Purp | bose of Qualification Testing6 |
| | 3.2 | Ass | umptions6 |
| 4 | R | REC A | ssessment Criteria for MHHS Qualification9 |
| | 4.1 | Fun | ctional Requirements9 |
| | 4 | .1.1 | DNO (including Registration Service)9 |
| | 4 | .1.2 | Supplier |
| | 4 | .1.3 | MEM |
| | 4.2 | Mig | ration Requirements |
| | 4 | .2.1 | DNO (including Registration Service) |
| | 4 | .2.2 | SUPPLIER |
| | 4 | .2.3 | MEM |
| | 4.3 | Non | -Functional Requirements (NFR)79 |
| | 4.4 | Ope | erational Requirements |
| | 4 | .4.1 | All Roles – DNO (including Registration Service), Supplier and MEM80 |

2 INTRODUCTION

The Marketwide Half Hourly Settlement (MHHS) Programme is a major reform within the Electricity sector sponsored by Ofgem with the objective to develop and then implement an enduring process for MHHS that delivers benefits for consumers by maximising the opportunities provided by smart metering in enabling an intelligent, flexible electricity system. MHHS will change many processes that are governed under the Balancing and Settlement Code (BSC). However, it will also result in changes under the Retail Energy Code (REC), which will need changes to processes for electricity Suppliers, electricity Metering Equipment Managers (MEMs), Distribution Network Operators (DNOs, including the Registration Service operated by DNOs), Electricity Enquiry Service (EES) and Central Switching Service (CSS), with associated technology changes.

2.1 MHHS QUALIFICATION

The MHHS Programme does not deliver Qualification activities, with this responsibility remaining with the Balancing and Settlement Code Company (BSCCo) and the REC Code Manager. MHHS Qualification assesses whether Programme participants that plan to operate in MHHS arrangements, have the appropriate systems, processes and controls in place to undertake relevant BSC and REC processes.

To assess this, the REC Code Manager and BSCCo are jointly developing the Qualification process in consultation with Programme participants through the Qualification Working Group (QWG).

2.2 ROLE OF THE REC PERFORMANCE ASSURANCE BOARD (PAB)

The REC PAB's role within the MHHS Qualification process is to:

- Set the policy, approach, and risk appetite for MHHS Qualification under REC.
- Take key decisions on the nature, extent, and timing of assurance activities.
- Discharge the responsibility to make individual Qualification decisions to the REC Code Manager.

2.3 APPROACH FOR MHHS QUALIFICATION

The REC Code Manager, jointly with the BSCCo, is responsible for developing two key artefacts for Qualification – the Qualification Approach and Plan (QA&P) and the Qualification Assessment Document (QAD).

The QA&P sets out the purpose of Qualification during the MHHS Programme and the high-level plan and requirements for Programme participants in relation to the BSC and REC. The latest version (v4.0) of the QA&P was published in January 2025, following approval from the Qualification Advisory Group (QAG) of the MHHS Programme and the REC and BSC PABs. This is expected to be the final version of the document, however the Code Bodies (REC Code Manager and BSCCo) will continue to update this if necessary. The Code Bodies have developed the Qualification Assessment Document (QAD) that is based on the principles set within the QA&P and provides a detailed view on MHHS Qualification requirements for Programme participants by market roles they intend to operate in the new arrangements. To develop this, the REC Code Manager, along with RECCo, has reviewed the business, migration, non-functional, and operational requirements by role for DNOs, electricity Suppliers and electricity MEMs published by MHHS Programme to identify areas relevant for REC, assessed the associated retail risks, and developed the assessment criteria by role as outlined in this document and approved by REC PAB. This is based on the existing requirements within the current design baseline and SIT Test Cases. Some elements of the SIT Operational testing facilitated by MHHS Programme. These may also need to be tested during PIT and covered through questions within the QAD. Whilst the Code Manager has anticipated how these would be covered during Qualification, this document may require further updates once further clarity on the lower-level detail is available from the MHHS Programme.

2.4 HIGH-LEVEL REQUIREMENTS FOR QUALIFICATION

To complete MHHS Qualification, a Programme participant needs to complete the following:

- <u>Pre-Integration Testing (PIT)¹</u>: All participants will complete internal testing to evidence they have designed, built and tested their systems to operate within the MHHS arrangements. This evidence will be used to also cover risks where testing is not possible in the central integrated environment, as well as in cases where sufficient assurance can be gained from the review of PIT evidence, and further testing within the central integrated environment is not required.
- <u>System Integration Testing (SIT) or Qualification Testing (QT)</u>: Depending on the route to Qualification a participant opts for, they will need to complete end-to-end testing in an integrated environment either through SIT facilitated by the Programme, or through QT facilitated by the Code Bodies to prove interoperability with other Market Participants.
- <u>QAD:</u> All participants will complete the QAD, where they will provide details and evidence that their business solution – comprising business processes, local work instructions, management procedures and IT applications – meets their Code requirements that are changing.

¹ As per the E2E Testing and Integration Strategy published by MHHS Programme, Programme participants are expected to carry out a final test where all components are tested for business scenarios in an end-to-end manner which is often referenced as User Acceptance Testing (UAT). PIT refers to this UAT and not to any earlier tests carried out as part of development.

3 APPROACH FOR QUALIFICATION TESTING

3.1 PURPOSE OF QUALIFICATION TESTING

The REC Code Manager and BSCCo will use Qualification Testing to satisfy the following objectives:

- <u>Mitigating risk:</u> Testing beyond what has been tested by the Participant in PIT, allows us to cover high-risk interfaces and business processes.
- <u>Efficiency during QAD completion</u>: By conducting a test, we can reduce the amount of evidence required to demonstrate participant's ability to meet the requirements.
- <u>Efficiency during testing review</u>: To have a test conducted with defined scripts mitigates the risk of different parties operating the test differently.

3.2 ASSUMPTIONS

The REC Code Manager has made the following assumptions, which may be revised as further information is made available:

- No Qualification Testing will be required where MHHS requirements are entirely reflective of existing functionality. For example, existing Data Transfer Network (DTN) interfaces that will be retained under MHHS, Supplier interfaces with CSS, execution of on-site metering works by MEMs.
- The Data Interface Platform (DIP) Manager / MHHS Programme will support Programme participants' onboarding to the DIP, including appointment of security officers and provision of testing security certificates.
- Previously, we had assumed the DIP Manager / MHHS Programme will provide a minimum level of DIP Connectivity Testing, which covers testing the sending / receipt of each DIP Interface relevant to each market role the participant is applying to qualify for, and were intending to place reliance on this testing to support Qualification. However, the scope of testing completed as part of DIP onboarding has been clarified and is no longer expected to cover the sending / receipt of each DIP interface relevant to each market role the participant is applying to qualify for. Therefore, requirements previously marked as covered by DIP Connectivity Testing in version 1 of this document have been moved into the scope for Qualification Testing from version 2 onwards.
- No testing is required for the Unmetered Supplies Operator (UMSO) under the REC.
- Registration Service functionality relating to exchange and validation² of DIP Interfaces sits with the Supplier Meter Registration Service (SMRS) under the Balancing and Settlement Code (BSC)

- The DIP will check for errors within message structure and invalid values within fields (i.e.,
- character type and length, but not combination of values) at the following levels:
 - Level 1: Synchronous errors that are returned by the API.
 - \circ $\;$ Level 2: Asynchronous errors that are returned using a message status transaction.

• Level 3: Synchronous errors that are returned using a message status transaction.

² The IF/PUB messages sent over the DIP are subject to the following validation checks:

[•] The recipient will perform the following validation checks wherein the combination of values will be checked for errors:

governance. Therefore, REC will place reliance on BSC testing, provided this includes testing of all DIP interactions relevant to the Registration Service role using a version of the MPRS solution hosted by each DNO.

- The User Interface Testing (UIT) environment will include integration with DIP to cover level 1 and level 2 validation² of DIP interface flows during testing.
- The UIT environment will include integration with the Registration Service, or a Registration Service emulator will be available to support testing, to cover level 3 and level 4 validation² and business rule validation² completed by the Registration Service.
- Where Qualification Testing is required in the UIT environment, SIT test scenarios will cover the required scope of testing and will be adapted for use by the REC Code Manager and BSCCo.
 Where required, test scenarios may be combined to facilitate end-to-end scenarios which allow coverage of more requirements through fewer tests.
- Appointment of Data Service, Transfer of Reads, Data Collection, Data Processing, Annual Consumption and Consumption Amendment processes are not governed under the REC and therefore not captured in this document. The Code Manager will place reliance on BSC-led testing to mitigate any associated REC risks.
- MEMs will need to specify whether they wish to Qualify for Smart and / or Advanced Market Segments and their individual Qualification requirements will reflect this. This may require creation of additional test case variants to ensure each participant can demonstrate sufficient coverage of the Market Segment they intend to operate.
- At present, the Supplier role doesn't accommodate Qualification to be restricted to only Smart or only Advanced Market Segment. Therefore, all Suppliers will be required to demonstrate they have systems and processes in place to manage both Market Segments to gain MHHS Qualification. Whilst PAB are considering some exemption on this topic, until those are approved and implemented through the required governance routes, Suppliers are required to proceed with their MHHS Qualification on the basis that not exemptions are permitted from Smart and or Advanced Market Segment requirements.
- BSC PAB have however approved that Suppliers who do not operate or intend to operate Unmetered Supplies (UMS) can opt for an exemption from those requirements for MHHS Qualification. These are governed under the BSC only and therefore do not impact the Supplier's scope for MHHS Qualification under the REC.
- Migration Design will be tested through SIT. Qualification Testing will assure individual Participants' ability to complete Migration scenarios.

[•] Level 4: Asynchronous errors that are returned using a message status transaction.

[•] Level 5: Business Process Validation (e.g., the request date is on or after the MPAN creation date) returned using a defined IF/PUB message.

[•] Level 6: Third Party Request Outcome i.e. where the request is accepted or rejected using a defined IF/PUB message.

- Non-Functional Requirements will be assured in line with the approach proposed within MHHS-DEL2128 NFR Categorisation document produced by MHHS Programme through consultation with the Non-Functional Testing Working Group (NFTWG) and reviewed by BSC and REC.
- Operational Design will be tested through SIT. Code Bodies intend to use Qualification Testing to gain additional assurance on Participants' ability to meet key requirements such as Operational Choreography timescales. Testing of some of these requirements within Qualification Testing may be combined with Functional Test Scenarios to streamline testing execution.
- As the Central and Participant systems used in Qualification Testing are not expected to be scaled environments, Code Bodies will rely on PIT to assure Participants' ability to meet certain non-functional and operational requirements. This will also be supplemented with questions within the QAD where the Participant will be required to describe controls they will operate to ensure requirements are met along with an assertion from the Company Director that their systems are compliant and will meet Code requirements.

4 REC ASSESSMENT CRITERIA FOR MHHS QUALIFICATION

The following assessment criteria by role has been developed by the REC Code Manager and was initially approved by REC PAB on 05 September 2023; the document has been updated in-line with the change history noted at the front of the document.

4.1 FUNCTIONAL REQUIREMENTS

The following assessment criteria to cover MHHS Business Requirements (Functional) by role was initially developed by the REC Code Manager and approved by REC PAB on 05 September 2023; the document has been updated inline with the change history noted at the front of the document. The functional requirements are based on:

- MHHSP-BRS002 Metering Services Requirements v5.6
- MHHSP-BRS003 Registration Services Requirements v5.7
- MHHSP-BRS004 Supplier Overview Requirements v5.5
- MHHSP-BRS005 LDSO Overview Requirements v5.3

4.1.1 DNO (INCLUDING REGISTRATION SERVICE)

| Market | Area | MHHS R | lequirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualific | ation Approach |
|--------|----------------|--------|------------------------------------|----------------|---------------|-------------------------------------|--------------|--------------|-------------------|---|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| DNO | MEM | MHHS- | LDSO must obtain Metering | Retail Risk 7: | Low | Existing requirement – MHHS | \checkmark | \checkmark | \checkmark | QAD question to determine whether the |
| | Appointment – | BR- | Service de-appointments via the | Inaccurate | | change is limited to the use of the | | | | DNO is amending existing systems / |
| | DNO requires | LD-002 | appropriate interface on the Data | meter point | | DIP (IF036 / IF037) | | | | processes. |
| | MEM details to | | Integration Platform and maintain | master data | | | | | | |
| | support | | records accordingly. In the case | results in | | DNO can check MEM details via the | | | | PIT evidence demonstrating how the DNO |
| | metering | | where Related MPANs or | errors that | | EES. | | | | maintains MEM appointment data |
| | activities | | Import/Export linked meters exist, | impact | | | | | | |
| | | | LDSO should expect to receive | consumers. | | | | | | Where the DNO is using the DIP, the Code |
| | | | de-appointment notifications for | | | | | | | Manager will require evidence of coverage |
| | | | all the MPANs in the Related | | | | | | | of the DIP Interface within Qualification |
| | | | MPAN or Import/Export group. | | | | | | | Testing. |
| | | MHHS- | LDSO must obtain Metering | | | | | | | |
| | | BR- | Service notification updates via | | | | | | | |
| | | LD-003 | the appropriate interface on the | | | | | | | |
| | | | Data Integration Platform, | | | | | | | |
| | | | maintain records accordingly and | | | | | | | |
| | | | investigate any discrepancies | | | | | | | |
| | | | with data received from the | | | | | | | |
| | | | Metering Service via the DTN. In | | | | | | | |
| | | | the case where Related MPANs | | | | | | | |
| | | | or Import/Export linked meters | | | | | | | |
| | | | exist, LDSO should expect to | | | | | | | |

| Market | Area | | Requirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------------------|--------|-----------------------------------|----------------|---------------|-------------------------------------|--------------|--------------|----------|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | | receive appointment notifications | | | | | | |
| | | | for all the MPANs in the Related | | | | | | |
| | | | MPAN or Import/Export group. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | MHHS- | LDSO must obtain Service | | | | | | |
| | | BR- | Provider de-appointment | | | | | | |
| | | LD-021 | notifications via the appropriate | | | | | | |
| | | | interface on the Data Integration | | | | | | |
| | | | Platform and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| DNO | Energisation | MHHS- | LDSO must obtain updates on | Retail Risk 7: | Low | Existing requirement – MHHS | √ | √ | ✓ |
| | Status Details - | BR- | Change of Energisation status | Inaccurate | | change is limited to the use of the | | | |
| | DNOs requires | LD-024 | via the appropriate interface on | meter point | | DIP (IF008, IF041) and receipt of | | | |
| | details of | | the Data Integration Platform and | master data | | data from Data Service (D0010). | | | |
| | energisation | | maintain records accordingly. | results in | | | | | |
| | status change | MHHS- | LDSO must receive Change of | errors that | | DNO can check energisation status | | | |
| | and associated | BR- | Energisation cumulative reads | impact | | via the EES. | | | |
| | reads | LD-025 | sent by the Metering Service via | consumers. | | | | | |
| | | | the appropriate interface and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| | | MHHS- | LDSO must receive Change of | | | | | | |
| | | BR- | Energisation register reads from | | | | | | |
| | | LD-026 | the Data Service via the | | | | | | |
| | | | appropriate interface and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| DNO | DNO Change | MHHS- | LDSO must be able to receive a | Retail Risk 7: | Low | Existing requirement – MHHS | \checkmark | \checkmark | |
| | of Energisation | BR- | Change of Energisation status | Inaccurate | | change is limited to the new market | | | |
| | Status – DNO | LD-022 | request via the appropriate | meter point | | roles for MEM DTN messages | | | |
| | requirements | | interface. | master data | | (D0139 / D0179) | | | |
| | to take and | MHHS- | LDSO must be able to process a | results in | | | | | |
| | share reads | BR- | Change in Energisation status | errors that | | | | | |
| | when they | LD-023 | and provide the outcome and | impact | | | | | |
| | change the | | reads, where appropriate, to the | consumers. | | | | | |
| | | | | | | | | | |

| ed Qualifica | ation Approach |
|--------------|---|
| | Further comments on coverage during |
| ication | Qualification |
| cenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question to determine whether the |
| | DNO is amending existing systems / |
| | processes. |
| | |
| | PIT evidence demonstrating how the DNO |
| | maintains Energisation Status data. |
| | |
| | Where the DNO is using the DIP, the Code |
| | Manager will require evidence of coverage |
| | of the DIP Interface within Qualification |
| | Testing. |
| | |
| | |
| | |
| | |
| | QAD question regarding the change |
| | required to reflect the new MEM Market |
| | Roles within DTN messaging. |
| | |
| | PIT evidence demonstrating testing |
| | completed using the new DTN market roles. |
| | |
| | No Qualification Testing expected. |

| Market | Area | MHHS F | lequirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualific | cation Approach |
|--------|----------------|--------|-----------------------------------|----------------|---------------------------|-------------------------------------|-----------------|-----------------|---|--|
| Role | | | | Risks | for MHHS Qualification | | QAD Question | PIT evidence | SIT / Qualification Test Scenario | Further comments on coverage during Qualification |
| | energisation | | Metering Service via the | | | | | | | |
| | status | | appropriate interface. | | | | | | | |
| DNO | Maintenance of | MHHS- | LDSO must, for Advanced | Retail Risk 7: | Low | Existing requirement – MHHS | ✓ | √ | \checkmark | QAD question to determine whether the |
| | Meter | BR- | Meters, receive the Meter | Inaccurate | | change is limited to the use of the | | | | DNO is amending existing systems / |
| | Technical | LD-027 | Technical Details, | meter point | | DIP (IF006) and receipt of MTDs | | | | processes for interactions with the DIP. |
| | Details (MTDs) | | Commissioning Flows and Meter | master data | | from MEMs with new Market Roles | | | | |
| | | | Readings from the Metering | results in | | via the DTN (D0149 / 150 and | | | | QAD question regarding the change |
| | | | Service via the appropriate | errors that | | D0268). | | | | required to reflect the new MEM Market |
| | | | interfaces and maintain records | impact | | | | | | Roles within DTN messaging. |
| | | | accordingly. | consumers. | | DNO can check MTDs via the EES. | | | | |
| | | MHHS- | LDSO must, for Traditional | - | | | | | | PIT evidence demonstrating how the DNO |
| | | BR- | Meters, receive the new Meter | | | | | | | maintains MTDs, including tests completed |
| | | LD-028 | Technical Details & register | | | | | | | using the new DTN market roles and |
| | | | readings from the Metering | | | | | | | potentially the DIP Simulator. |
| | | | Service via the appropriate | | | | | | | |
| | | | interfaces and maintain records | | | | | | | Where the DNO is using the DIP, the Code |
| | | | accordingly. | | | | | | | Manager will require evidence of coverage |
| | | MHHS- | LDSO must obtain Change of | - | | | | | | of the DIP Interface within Qualification |
| | | BR- | Metering acceptances via the | | | | | | | Testing. |
| | | LD-030 | appropriate interface on the Data | | | | | | | |
| | | | Integration Platform and maintain | | | | | | | |
| | | | records accordingly | | | | | | | |
| | | MHHS- | LDSO must obtain Change of | - | | | | | | |
| | | BR- | Metering acceptances, following | | | | | | | |
| | | LD-054 | on site works by the prospective | | | | | | | |
| | | | Metering Service for a Change in | | | | | | | |
| | | | Market Segment, via the | | | | | | | |
| | | | appropriate interface on the Data | | | | | | | |
| | | | Integration Platform and maintain | | | | | | | |
| | | | records accordingly. | | | | | | | |
| DNO | Sharing Site | MHHS- | LDSO must, on receipt of a | Retail Risk 7: | Low | Existing requirement – MHHS | √ | √ | | QAD question regarding the change |
| | Technical | BR- | Metering Service request | Inaccurate | | change is limited to the new market | | | | required to reflect the new MEM Market |
| | Details – DNO | LD- | (D0170), send Site Technical | meter point | | roles for MEM DTN messages | | | | Roles within DTN messaging. |
| | required to | 012.1 | Details to the Metering Service | master data | | (D0170 / D0215) | | | | |
| | share details | | via the appropriate interface | results in | | | | | | PIT evidence demonstrating testing |

| Market | Area | MHHS R | Requirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualifie | cation Approach |
|--------|----------------|--------|--|----------------|---------------|-------------------------------------|----------|----------|-------------------|---|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | on request | | | errors that | | | | | | completed using the new DTN market roles. |
| | from the MEM. | | | impact | | | | | | |
| | | | | consumers. | | | | | | No Qualification Testing expected. |
| | | | | | | | | | | |
| DNO | Disconnection | MHHS- | LDSO must be able to receive a | Retail Risk 7: | Low | Existing requirement – MHHS | √ | √ | \checkmark | QAD question to determine whether the |
| | – DNO to | BR- | customer disconnection request | Inaccurate | | change is limited to receipt of | | | | DNO is amending existing systems / |
| | disconnect | LD-016 | and carry out the physical | meter point | | disconnection notification from the | | | | processes. |
| | metering point | | disconnection where the request | master data | | SMRS (IF-009) | | | | |
| | and send | | is valid. | results in | | | | | | PIT evidence demonstrating how the DNO |
| | notifications | MHHS- | LDSO must be able to receive a | errors that | | | | | | maintains connection status of metering |
| | | BR- | disconnection request from the | impact | | | | | | points. |
| | | LD-017 | Supplier via the appropriate flow | consumers. | | | | | | |
| | | | and carry out the physical | | | | | | | Where the DNO is using the DIP, the Code |
| | | | disconnection where the request | | | | | | | Manager will require evidence of coverage |
| | | | is valid. | | | | | | | of the DIP Interface within Qualification |
| | | MHHS- | LDSO must update records of | | | | | | | Testing. |
| | | BR- | any disconnected MPANs and | | | | | | | |
| | | LD-018 | notify the Registration Service on | | | | | | | |
| | | | completion of a physical | | | | | | | |
| | | | disconnection via an internal | | | | | | | |
| | | | flow. | | | | | | | |
| | | MHHS- | LDSO must be able to send a | 1 | | | | | | |
| | | BR- | rejection to the Supplier with a | | | | | | | |
| | | LD-019 | rejection reason, where the | | | | | | | |
| | | | disconnection request is not | | | | | | | |
| | | | valid, via the appropriate | | | | | | | |
| | | | interface. | | | | | | | |
| | | MHHS- | | | | | | | | |
| | | BR- | disconnections from the | | | | | | | |
| | | LD-020 | , Contraction of the second se | | | | | | | |
| | | | appropriate interface on the Data | | | | | | | |
| | | | Integration Platform. | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualifie | cation Approach |
|--------|----------------|--------|-----------------------------------|----------------|---------------------------|--------------------------------------|-----------------|-----------------|------------------------|---|
| Role | | | | Risks | for MHHS Qualification | | QAD Question | PIT evidence | SIT / Qualification | Further comments on coverage during Qualification |
| | | | | | | | | | Test Scenario | |
| DNO | Meter Removal | MHHS- | LDSO must follow existing | Retail Risk 7: | Low | Existing requirement – MHHS | √ | ✓ | | QAD question regarding the change |
| | – existing | BR- | processes for notifying Suppliers | Inaccurate | | change is limited to the new market | | | | required to reflect the new MEM Market |
| | requirements | LD-031 | and Metering Services of any | meter point | | roles for MEM DTN messages | | | | Roles within DTN messaging. |
| | to remove | | LDSO led removal of metering | master data | | (D0010) | | | | |
| | meters e.g. | | equipment (e.g. Emergencies). | results in | | | | | | PIT evidence demonstrating testing |
| | emergencies | | | errors that | | | | | | completed using the new DTN market roles. |
| | | | | impact | | | | | | |
| | | | | consumers. | | | | | | No Qualification Testing expected. |
| DNO | Address Data | MHHS- | LDSO must send notification to | Retail Risk 6: | Low | Existing requirement – no change for | \checkmark | | | QAD question to confirm whether any |
| | – DNOs | BR- | the Registration Service of any | Inaccurate | | MHHS | | | | changes have been made to existing |
| | required to | LD-033 | changes of MPL Address and/or | Address | | | | | | systems / processes. |
| | maintain MPL | | GSP Group ID via internal | Management | | | | | | |
| | Address | | interface. | data results | | | | | | No Qualification Testing expected. |
| | | | | in errors that | | | | | | |
| | | | | impact | | | | | | |
| | | | | consumers. | | | | | | |
| DNO | Domestic | MHHS- | Registration Service must check | Retail Risk 7: | Low | MHHS change is limited to the use of | \checkmark | \checkmark | \checkmark | QAD question to determine whether the |
| | Premise | BR- | for any linked Export MPANs | Inaccurate | | the DIP (IF018). | | | | DNO is amending existing systems / |
| | Indicator / | RS- | when a Metering Service | meter point | | | | | | processes. |
| | Energy | 034 | appointment has been confirmed. | master data | | DNO can check MTDs via the EES. | | | | |
| | Direction / | MHHS- | Registration Service must hold a | results in | | | | | | PIT evidence demonstrating how the DNO |
| | Metered Status | | history of Metering Service | errors that | | | | | | maintains Related Metering Point data. |
| | | RS- | customer direct contract flags | impact | | | | | | |
| | | 040 | against each MPAN. This must | consumers. | | | | | | Where the DNO is using the DIP, the Code |
| | | | consist of the following new data | | | | | | | Manager will require evidence of coverage |
| | | | items: | | | | | | | of the DIP Interface within Qualification |
| | | | Customer Direct Contract | | | | | | | Testing. |
| | | | Metering Service DIP ID | | | | | | | |
| | | | Customer Direct Contract | | | | | | | |
| | | | Metering Service Effective To | | | | | | | |
| | | | Date. | | | | | | | |
| | | MHHS- | , ° | | | | | | | |
| | | BR- | Supplier Service Appointment | | | | | | | |
| | | RS- | Requests for a proposed Data | | | | | | | |
| | | 043 | Service via the appropriate | | | | | | | |

| Market | Area | MHHS R | equirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualifie | cation Approach |
|--------|-----------------|--------|------------------------------------|----------------|---------------|--|-----------------------|--------------|-------------------|---|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | interface on the Data Integration | | | | | | | |
| | | | Platform. | | | | | | | |
| DNO | Related | MHHS- | LDSO must obtain successful | Retail Risk 7: | Low | Existing requirement - MHHS change | ✓ | ✓ | √ | QAD question to determine whether the |
| | Metering | BR- | Related MPAN updates, issued | Inaccurate | | is limited to the use of the DIP | | | | DNO is amending existing systems / |
| | Points – DNOs | LD-037 | by Registration Service on the | meter point | | (IF020). | | | | processes. |
| | required to | | Data Integration Platform, via the | master data | | | | | | |
| | maintain | | appropriate interface and | results in | | DNO can check MTDs via the EES. | | | | PIT evidence demonstrating how the DNO |
| | records | | maintain records accordingly. | errors that | | | | | | maintains Related Metering Point data. |
| | | | | impact | | | | | | |
| | | | | consumers. | | | | | | Where the DNO is using the DIP, the Code |
| | | | | | | | | | | Manager will require evidence of coverage |
| | | | | | | | | | | of the DIP Interface within Qualification |
| | | | | | | | | | | Testing. |
| DNO | Change of | MHHS- | LDSO must receive requests | Retail Risk 7: | Low | Existing provisions exist for changing | \checkmark | \checkmark | | QAD question to confirm that the DNO |
| | Connection | BR- | from the Supplier to change the | Inaccurate | | Connection Type – MHHS change | | | | understands the link between this process |
| | Type – limited | LD-047 | Connection Type via a bilaterally | meter point | | relates to operational choreography | | | | and wider MEM / Registration Service |
| | to coordination | | agreed communication method. | master data | | to ensure any associated change of | | | | activities. |
| | with MEM on | MHHS- | LDSO must liaise with the | results in | | market segment / change of meter is | | | | |
| | MTD updates | BR- | Supplier to agree and confirm a | errors that | | co-ordinated. | | | | QAD question requiring evidence that |
| | | LD-048 | target work date. | impact | | | | | | procedure documentation reflects the |
| | | MHHS- | LDSO must carry out the agreed | consumers. | | | | | | engagement with MEMs and updating |
| | | BR- | change of Connection Type site | | | | | | | SMRS within [2WDs]. |
| | | LD-049 | work in line with the Supplier | | | | | | | |
| | | | request and on the agreed date. | | | | | | | No Qualification Testing required for the |
| | | MHHS- | LDSO must notify the Supplier | | | | | | | REC but option to place reliance on BSC |
| | | BR- | via a bilaterally agreed | | | | | | | testing covering the end to end change of |
| | | LD-050 | mechanism, if the Connection | | | | | | | market segment process. |
| | | | Type site work cannot be | | | | | | | |
| | | | completed on the agreed date | | | | | | | |

| Market | Area | | Requirements | Retails | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|---------------|--------|-----------------------------------|----------------|---------------|---|--------------|--------------|----------|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test So |
| | | MHHS- | LDSO must notify the | | | | | | |
| | | BR- | Registration Service via internal | | | | | | |
| | | LD-051 | interface, when the Connection | | | | | | |
| | | | Type has been successfully | | | | | | |
| | | | updated. LDSO should provide | | | | | | |
| | | | the update as quickly as | | | | | | |
| | | | possible, but no later than 2 | | | | | | |
| | | | working days after completion of | | | | | | |
| | | | the work. In the case of Related | | | | | | |
| | | | MPANs the LDSO must update | | | | | | |
| | | | and notify changes for all | | | | | | |
| | | | Secondary MPANs in line with | | | | | | |
| | | | the Connection Type for the | | | | | | |
| | | | Primary MPAN. In the case of | | | | | | |
| | | | linked Import/Export MPANs, the | | | | | | |
| | | | LDSO must update and notify | | | | | | |
| | | | changes for all Export MPANs in | | | | | | |
| | | | line with the Connection Type for | | | | | | |
| | | | the linked Import MPAN. | | | | | | |
| DNO | Commissioning | MHHS- | LDSO must obtain Change of | Retail Risk 7: | Low | Existing requirement – MHHS | \checkmark | √ | |
| | – requirement | BR- | Metering acceptances, following | Inaccurate | | change is limited to the new market | | | |
| | on DNO to | LD-054 | on site works by the prospective | meter point | | roles for MEM DTN messages | | | |
| | share | | Metering Service for a Change in | master data | | (D0383 / D0384) | | | |
| | commissioning | | Market Segment, via the | results in | | | | | |
| | details | | appropriate interface on the Data | errors that | | | | | |
| | | | Integration Platform and maintain | impact | | | | | |
| | | | records accordingly. | consumers. | | | | | |
| DNO | ISD – DNOs | MHHS- | All Parties must obtain Industry | Various | Low | The majority of ISD data required to | \checkmark | \checkmark | ~ |
| | required to | BR- | Standing Data (ISD) update | | | support retail activities is available | | | |
| | receive ISD | LD-059 | notifications via the appropriate | | | within the EES. | | | |
| | updates | | interface, and if required take | | | | | | |
| | | | necessary steps to obtain | | | Potential duplication if this | | | |
| | | | refreshed ISD data, maintain | | | functionality is being tested under the | | | |
| | | | their records accordingly and | | | BSC. | | | |
| | | | reference/ utilise ISD as | | | | | | |
| | | | | | | | | | |

| osed Qualifica | ation Approach |
|----------------|---|
| 1 | Further comments on coverage during |
| alification | Qualification |
| t Scenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question regarding the change |
| | required to reflect the new MEM Market |
| | Roles within DTN messaging. |
| | |
| | PIT evidence demonstrating testing |
| | completed using the new DTN market roles. |
| | |
| | No Qualification Testing expected. |
| | QAD question to determine whether the |
| | DNO is amending existing systems / |
| | processes. |
| | PIT evidence demonstrating how the DNO |
| | PIT evidence demonstrating how the DNO maintains standing data. |
| | maintains standing data. |
| | Where the DNO is using the DIP, the Code |
| | |

| Market | Area | MHHS R | equirements | Retails | Risk Rating | Rationale of Risk Rating | | | Proposed Qualific | ation Approach |
|--------|-----------------|--------|------------------------------------|---------|---------------|---|--------------|--------------|-------------------|---|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | appropriate as part of the service | | | | | | | Manager will require evidence of coverage |
| | | | delivery. | | | | | | | of the DIP Interface within Qualification |
| | | | | | | | | | | Testing. |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| DNO | Generic | MHHS- | All Parties must publish data | Various | Low | The DNO requirements reference the | \checkmark | \checkmark | \checkmark | QAD question to determine whether the |
| | requirements | BR- | following ISO8601 format - | | | following DIP interfaces: | | | | DNO is utilising the DIP (NB: this is |
| | associated with | LD-058 | YYYY-MM- | | | - IF036 / IF037 - receipt of MEM | | | | dependent on outcome of Programme query |
| | DIP Interfaces | | DDTHH:MM:SS±TZH:TZM. | | | appointment / de-appointment | | | | on whether DIP interfaces are mandatory for |
| | | MHHS- | All Parties must utilise Industry | | | (expect this to be tested under the | | | | DNOs). |
| | | BR- | Standing Data to identify the | | | BSC in relation to Data Service | | | | |
| | | LD- | relevant DIP ID/Role or DTN | | | Appointment). Do not see the need to | | | | PIT evidence demonstrating interactions |
| | | 059.1 | Market Participant ID/Role, as | | | test receipt of the de-appointment | | | | using the DIP simulator. |
| | | | appropriate, to be used when | | | IF037. | | | | |
| | | | communicating over the | | | | | | | Where the DNO is using the DIP, the Code |
| | | | DIP/DTN. | | | - IF041 – receipt of read data | | | | Manager will require evidence of coverage |
| | | MHHS- | All Parties must derive and | | | (expect this to tested under the BSC | | | | of the DIP Interface within Qualification |
| | | BR- | populate the DIP addressing | | | in relation to Data Service sharing of | | | | Testing. |
| | | LD- | (primary recipients) for all | | | reads.) | | | | |
| | | 059.2 | outbound interfaces in line with | | | | | | | |
| | | | the rules described in the | | | - IF-009 – receipt of disconnection | | | | |
| | | | interface specification | | | data. Do not think there are any retail | | | | |
| | | MHHS- | All Parties must obtain Data | | | risks associated with the DNO not | | | | |
| | | BR- | Integration Platform error | | | receiving this data as long as the | | | | |
| | | LD-062 | messages in line with the End to | | | registration service has the correct | | | | |
| | | | End Solution Architecture | | | status | | | | |
| | | | Document, review the impacted | | | | | | | |
| | | | data and re-issue corrected | | | - IF008 – receipt of change of | | | | |
| | | | messages/transactions as | | | energisation status. Potential flow | | | | |
| | | | required | | | may be tested under the BSC. | | | | |
| | | MHHS- | All Parties must return Data | 1 | | | | | | |
| | | BR- | Integration Platform error | | | - IF006 – receipt of MTDs. To be | | | | |
| | | LD-063 | messages in line with the End to | | | tested. | | | | |

| Market | Area | | Requirements | Retails | Risk Rating | Rationale of Risk Rating | | Proposed | | |
|--------|----------------|--------|--------------------------------------|----------------|---------------|---|--------------|--------------|----------|--|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / | |
| | | | | | Qualification | | Question | evidence | Qualific | |
| | | | | | | | | | Test Sc | |
| | | | End Solution Architecture. | | | | | | | |
| | | | Unexpected and/or un- | | | - IF020 – receipt of metering point | | | | |
| | | | processable messages should be | | | relationships (expect this to be tested | | | | |
| | | | returned to the DIP/ originating | | | under the BSC in relation to import / | | | | |
| | | | party | | | export associations) | | | | |
| | | MHHS- | All Parties, when transacting via | | | | | | | |
| | | BR- | the DIP, must ensure that they | | | - IF018 / IF026 receipt of updates to | | | | |
| | | LD-064 | implement monitoring so as to | | | registration data. To be tested. | | | | |
| | | | identify where expected | | | | | | | |
| | | | responses are not received within | | | | | | | |
| | | | standard DIP SLAs, as outlined | | | | | | | |
| | | | in the Operational Choreography, | | | | | | | |
| | | | so that the appropriate | | | | | | | |
| | | | investigative/ resolution activity | | | | | | | |
| | | | can be undertaken. | | | | | | | |
| DNO | Meter Data | MHHS- | Registration Service must, on | Retail Risk 2: | Low | New process and amended interface | \checkmark | \checkmark | | |
| | Retriever | BR- | notification that a Meter Data | The privacy | | introduced via R0044. Inaccurate | | | | |
| | (MDR) | RS- | Retriever MDR appointment is | of consumer | | MDR data is not a retail risk but this | | | | |
| | Appointment | 078.1 | ending, send an update to | data is | | is a key process to support | | | | |
| | Update to CSS | | CSS/DCC to end date the MDR | compromised | | settlement activities. | | | | |
| | – new | | appointment using the existing | by | | | | | | |
| | requirement to | | Electricity Retail Data Service | inappropriate | | | | | | |
| | send MDR | | (ERDS) interface | use of | | | | | | |
| | data and | MHHS- | Registration Service must, on | Parties' | | | | | | |
| | receive | BR- | successful completion of a | processes | | | | | | |
| | response as | RS- | Change in Meter Data Retriever | and | | | | | | |
| | per R044 | 078 | (MDR), send an update to | protocols | | | | | | |
| | | | CSS/DCC of the new MDR using | | | | | | | |
| | | | the existing Electricity Retail Data | | | | | | | |
| | | | Service (ERDS) interface. | | | | | | | |

| ed Qualifica | ation Approach |
|--------------|---|
| | Further comments on coverage during |
| ication | Qualification |
| cenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question regarding implementation of |
| | the change to gain evidence from testing. |
| | |
| | PIT evidence demonstrating interactions |
| | using the CSS simulator. |
| | |
| | The Code Manager will place reliance on |
| | SIT evidence demonstrating end to end |
| | process within MPRS (the system used by |
| | the Registration Service). |
| | |
| | |
| | |
| | |
| | |
| | |

| Market | Area | MHHS Requirements | | Retails | Risk Rating | Rationale of Risk Rating | Proposed | | |
|--------|----------------|-------------------|-------------------------------------|---------------|---------------|---------------------------------------|----------|----------|----------|
| Role | | | | Risks | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Registration Service must | | | | | | |
| | | BR- | populate the ERDS interface | | | | | | |
| | | RS- | with: | | | | | | |
| | | 078.2 | 1. The four digit Market | | | | | | |
| | | | Participant Identifier derived from | | | | | | |
| | | | the DIP/DTN routing look-up list | | | | | | |
| l | | | in ISD, based on the DIP ID/ DIP | | | | | | |
| | | | Role code provided in the | | | | | | |
| | | | appointment | | | | | | |
| | | | 2. The Role Code for MDR | | | | | | |
| | | | should be set to "MDR" | | | | | | |
| | | | 3. The Effective From Date of the | | | | | | |
| | | | MDR | | | | | | |
| | | | 4. The Effective To Date of the | | | | | | |
| | | | MDR (Only expected when end | | | | | | |
| | | | dating following notification of | | | | | | |
| | | | "de-appointment") | | | | | | |
| | | | 5. CSS Registration ID | | | | | | |
| | | MHHS- | Registration Service must receive | - | | | | | |
| | | BR- | a response from CSS/DCC as to | | | | | | |
| | | RS- | whether the MDR details have | | | | | | |
| | | 079 | been updated, using the | | | | | | |
| | | | Electricity Retail Data Service | | | | | | |
| | | | (ERDS) interface. Registration | | | | | | |
| | | | Service should maintain a flag | | | | | | |
| | | | against the SDS/MDR | | | | | | |
| | | | appointment record to show the | | | | | | |
| | | | most recent CSS update | | | | | | |
| | | | outcome. | | | | | | |
| DNO | MEM | N/A | N/A | N/A – current | Low | Existing process. Only change is that | √ | √ | |
| | Appointment | | | process is | | the ERDS will need to take both | | | |
| | Update to CSS | | | monitored via | | Smart and Advanced MEM details | | | |
| | - existing | | | ERDA SLA | | and send with role code M. | | | |
| | requirement to | | | reporting, | | | | | |
| | | | | and this is | | | | | |

| ed Qualifica | ed Qualification Approach | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | | |
| ication | Qualification | | | | | | | |
| Scenario | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | QAD question regarding implementation of | | | | | | | |
| | the change to gain evidence from testing. | | | | | | | |
| | U | | | | | | | |
| | PIT evidence demonstrating interactions | | | | | | | |
| | using the CSS simulator. | | | | | | | |
| | | | | | | | | |

| | for MHHS Qualification | QAD | PIT | SIT / | Further comments on coverage during |
|-----------|---------------------------|----------|----------|---------------|--|
| | Qualification | | | | |
| | | Question | evidence | Qualification | Qualification |
| | | | | Test Scenario | |
| deemed as | | | | | SIT evidence demonstrating end to end |
| low risk. | | | | | process - reliance to be places on the |
| | | | | | testing conducted by St Clements and the |
| | | | | | SIT participants. |
| | | | | | |
| | | | | | |

4.1.2 SUPPLIER

| Market | Area | MHHS R | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed | | |
|----------|------------------|--------|--|----------------|---------------|---------------------------------------|--------------|--------------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| Supplier | New | MHHS- | Supplier must request LDSO to | Retail Risk 1: | Low | Existing business processes in | √ | √ | |
| | connection – | BR- | create a new MPAN when a new | Consumer | | terms of interaction with the DNO. | | | |
| | covering initial | SU- | Connection is required. Supplier | supply point | | Changes to reflect new data | | | |
| | establishment | 048.1 | will need to specify the | interruption | | required in the SDEP message. | | | |
| | of the metering | | anticipated: Connection Type, | due to a lack | | | | | |
| | point | | Energy Direction, Metered/Un- | of action or | | This scenario has not captured the | | | |
| | | | Metered Indicator & Market | incorrect | | Initial Registration with CSS, agent | | | |
| | | | Segment required for the new | action by REC | | appointment or meter installation | | | |
| | | | MPAN. | Parties. | | as they are reflected below | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Supplier | Initial | MHHS- | Supplier must be able to obtain | Retail Risk 8: | Low | DIP interfaces replace existing | \checkmark | \checkmark | √ |
| | Registration | BR- | registration details via the | Delayed | | DTN flows. Whilst the IF002 | | | |
| | and Switch – | SU- | appropriate interface on the Data | Switches | | notification of a Pending Switch | | | |
| | In addition to | 001 | Integration Platform and maintain | provides a | | triggers agent appointment, the | | | |
| | receiving the | | records accordingly. | negative | | Supplier triggered the Switch | | | |
| | existing CSS | MHHS- | Supplier must be able to obtain | customer | | request so should be expecting the | | | |
| | flows, a | BR- | registration details via the | experience of | | DIP message. Similarly, the IF001 | | | |
| | Supplier will | SU- | appropriate interface on the Data | the energy | | is received at Secured Active and | | | |
| | receive DIP | 004 | Integration Platform and maintain | market. | | should coincide with the notification | | | |
| | interfaces | | records accordingly. | | | from CSS. | | | |
| | which trigger | MHHS- | Supplier must be able to receive | | | | | | |
| | downstream | BR- | notification that initial registration | | | | | | |
| | activities | SU- | is secured from CSS. | | | | | | |
| | | 048 | | | | | | | |
| | | MHHS- | Supplier must be able to obtain | 1 | | | | | |
| | | BR- | registration details for an Initial | | | | | | |
| | | SU- | Registration via the appropriate | | | | | | |
| | | 049 | interface on the Data Integration | | | | | | |
| | | | Platform and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| Supplier | Metering | MHHS- | Supplier must determine when it | Retail Risk 1: | Medium | Significant change from existing | \checkmark | √ | ✓ |
| | Service | BR- | requires to appoint a new | Consumer | | appointment process. | | | |
| | Appointment / | | Metering Service as part of a | supply point | | | | | |

| ed Qualifi | ication Approach |
|------------|---|
| | Further comments on coverage during |
| ication | Qualification |
| Scenario | |
| | QAD question regarding the changes to the |
| | existing process in particular recognition of the |
| | new data items required within a request to the |
| | DNO for a new metering point to be |
| | established (see SDEP requirements). |
| | |
| | PIT evidence demonstrating how the Supplier |
| | has tested the changes to the request for new |
| | metering points solution. |
| | |
| | No Qualification Testing expected |
| | QAD question relating to controls in place to |
| | monitor for missing or erroneous DIP |
| | interfaces. |
| | |
| | PIT evidence demonstrating how the Supplier |
| | has tested the changes to the Switch process |
| | (including agent appointment). |
| | |
| | The Code Manager will require evidence of |
| | coverage of the DIP Interface within |
| | Qualification Testing. This will be covered as |
| | part of appointment scenarios – see below. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question(s) regarding the Supplier's |
| | implementation of the revised MEM (and Data |
| | Service for BSC) process. In particular this |

| arket | Area | | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | | |
|-------|----------------|-------|-----------------------------------|----------------|---------------|--------------------------------------|---------------------------------|----------|---------------|---|--|--|
| ole | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during | | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | | |
| | | | | | | | | | Test Scenario | | | |
| | De- | SU- | Change of Supplier, New | interruption | | New event driven architecture and | | | | should capture the distinction between new | | |
| | appointment | 005 | Connection, Change of Market | due to a lack | | reduced settlement timetable | | | | market segments and the need to appoint | | |
| | | | Segment or Change of Metering | of action or | | places onus on Supplier to ensure | | | | agents with appropriate qualification and the | | |
| | NB: This | | Service process. | incorrect | | activities are completed in a timely | | | | approach to design, build and test of the new | | |
| | includes | MHHS- | Supplier must publish a new | action by REC | | manner. | | | | end to end process. | | |
| | scenarios both | BR- | Metering Service appointment | Parties. | | | | | | | | |
| | with and | SU- | request using the appropriate | | | Includes sending and receiving DIP | | | | QAD question regarding the Supplier's cont | | |
| | without a | 006 | interface on the Data Integration | Retail Risk 8: | | interfaces (IF-031, IF-032. IF-035, | | | | in place to manage Supplier Agent activities | | |
| | Switch. | | Platform. | Delayed | | IF-036, IF-037, IF-039) and existing | | | | ensure the end to end process is carried out | | |
| | | MHHS- | Supplier should check that the | Switches | | process for notifying customer and | | | | within MHHS defined timescales. | | |
| | | BR- | request is in line with the | provides a | | PSR details. | | | | | | |
| | | SU- | validation rules outlined in the | negative | | | | | | QAD question regarding the changes require | | |
| | | 007 | appropriate interface | customer | | Also includes steps related to MTD | | | | to reflect the new MEM Market Roles within | | |
| | | | specification. | experience of | | receipt via the IF006 and relevant | | | | DTN messaging. | | |
| | | MHHS- | Supplier must obtain initial | the energy | | DTN flows. | | | | | | |
| | | BR- | Metering Service rejected | market. | | | | | | PIT evidence demonstrating Supplier's testi | | |
| | | SU- | appointments from the | | | | | | | of the new process, including different | | |
| | | 008 | Registration Service via the | | | | | | | scenarios: Switch, Change of MEM without | | |
| | | | appropriate interface on the Data | | | | | | | Switch and Initial Registration for different | | |
| | | | Integration Platform, maintain | | | | | | | market segments and testing the new DTN | | |
| | | | records accordingly and re-issue | | | | | | | market roles, and new DIP interfaces using | | |
| | | | Metering Service appointment | | | | | | | DIP Simulator. | | |
| | | | request as appropriate. | | | | | | | | | |
| | | MHHS- | Supplier must obtain initial | - | | | | | | The Code Manager will require evidence of | | |
| | | BR- | Metering Service accepted | | | | | | | coverage of the DIP Interface within | | |
| | | SU- | appointments from the | | | | | | | Qualification Testing. | | |
| | | 009 | Registration Service via the | | | | | | | | | |
| | | | appropriate interface on the Data | | | | | | | End to end business process to be assured | | |
| | | | Integration Platform and maintain | | | | | | | through Qualification Testing within the UIT | | |
| | | | records accordingly. | | | | | | | environment, including integration with the | | |
| | | MHHS- | Supplier must obtain Registration | 1 | | | | | | Registration Service or an equivalent stub. | | |
| | | BR- | Service Appointment Status | | | | | | | This should include Switch, Change of MEM | | |
| | | SU- | Notification updates, with | | | | | | | without a Switch (including change of Marke | | |
| | | 010 | Prospective Metering Service | | | | | | | Segment) and Initial Registration for individ | | |
| | | | accepted appointments, via the | | | | | | | Metering Points and those with related | | |

| Market | Area | MHHS R | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | Proposed | | |
|--------|------|--------|---|---------------|---------------|--------------------------|----------|----------|----------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | |
| | | | | | Qualification | | Question | evidence | Qualific | |
| | | | | | | | | | Test Sc | |
| | | | appropriate interface on the Data | | | | | | | |
| | | | Integration Platform and maintain | | | | | | | |
| | | | records accordingly. | | | | | | | |
| | | | | _ | | | | | | |
| | | MHHS- | Supplier must obtain Registration | | | | | | | |
| | | BR- | Service Appointment Status | | | | | | | |
| | | SU- | Notification updates, with | | | | | | | |
| | | 011 | Prospective Metering Service | | | | | | | |
| | | | lapsed/rejected appointments, | | | | | | | |
| | | | via the appropriate interface on | | | | | | | |
| | | | the Data Integration Platform, | | | | | | | |
| | | | maintain records accordingly and | | | | | | | |
| | | | re-issue a new Metering Service | | | | | | | |
| | | | appointment request as | | | | | | | |
| | | MHHS- | appropriate. Supplier must obtain Metering | - | | | | | | |
| | | BR- | Service de-appointment | | | | | | | |
| | | SU- | notifications via the appropriate | | | | | | | |
| | | 012 | interface on the Data Integration | | | | | | | |
| | | | Platform and maintain records | | | | | | | |
| | | | accordingly. | | | | | | | |
| | | MHHS- | Supplier must obtain Registration | - | | | | | | |
| | | BR- | Service Notification of Service | | | | | | | |
| | | SU- | Appointment & Supporting Info | | | | | | | |
| | | 013 | via the appropriate interface on | | | | | | | |
| | | | the Data Integration Platform and | | | | | | | |
| | | | update registration and metering | | | | | | | |
| | | | details. For the avoidance of | | | | | | | |
| | | | doubt this is the message that | | | | | | | |
| | | | indicates that a Metering Service | | | | | | | |
| | | | appointment will/has taken effect. | | | | | | | |

| ed Qualifi | cation Approach |
|------------|---|
| | Further comments on coverage during |
| ication | Qualification |
| cenario | |
| | secondary metering points or associated |
| | export. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must receive Meter | | | | | | |
| | | BR- | Technical Details for Advanced | | | | | | |
| | | SU- | meters via the appropriate | | | | | | |
| | | 014 | interface (D0268 on DTN) from | | | | | | |
| | | | Metering Service and maintain | | | | | | |
| | | | records accordingly. In the case | | | | | | |
| | | | where Related MPANs or | | | | | | |
| | | | Import/Export linked meters | | | | | | |
| | | | exist, Supplier should expect to | | | | | | |
| | | | receive Meter Technical Details | | | | | | |
| | | | for all the MPANs in the Related | | | | | | |
| | | | MPAN or Import/Export group. | | | | | | |
| | | MHHS- | Supplier must receive Meter | | | | | | |
| | | BR- | Technical Details for Traditional | | | | | | |
| | | SU- | meters via the appropriate | | | | | | |
| | | 015 | interfaces (D0149 and D0150 on | | | | | | |
| | | | DTN) from Metering Service and | | | | | | |
| | | | maintain records accordingly. In | | | | | | |
| | | | the case where Related MPANs | | | | | | |
| | | | or Import/Export linked meters | | | | | | |
| | | | exist, Supplier should expect to | | | | | | |
| | | | receive Meter Technical Details | | | | | | |
| | | | for all the MPANs in the Related | | | | | | |
| | | | MPAN or Import/Export group. | | | | | | |
| | | MHHS- | Supplier must obtain de- | | | | | | |
| | | BR- | appointment notifications for any | | | | | | |
| | | SU- | Secondary Related MPANs | | | | | | |
| | | 016 | and/or linked Export MPANs, | | | | | | |
| | | | sent from the Registration | | | | | | |
| | | | Service on the Data Integration | | | | | | |
| | | | Platform, via the appropriate | | | | | | |
| | | | interface and maintain records | | | | | | |
| | | | accordingly. | | | | | | |

| ed Qualification Approach | | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | |
| fication | Qualification | | | | | | |
| Scenario | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|---------------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must obtain | | | | | | |
| | | BR- | appointment notifications for any | | | | | | |
| | | SU- | Secondary Related MPANs | | | | | | |
| | | 017 | and/or linked Export MPANs, | | | | | | |
| | | | sent from the Registration | | | | | | |
| | | | Service on the Data Integration | | | | | | |
| | | | Platform, via the appropriate | | | | | | |
| | | | interface and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| | | MHHS- | Supplier must obtain Service | - | | | | | |
| | | BR- | Provider de-appointment | | | | | | |
| | | SU- | notifications via the appropriate | | | | | | |
| | | 059 | interface on the Data Integration | | | | | | |
| | | | Platform and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| | | MHHS- | Supplier must obtain de- | - | | | | | |
| | | BR- | appointment notifications for any | | | | | | |
| | | SU- | Secondary Related MPANs | | | | | | |
| | | 106 | and/or linked Export MPANs, | | | | | | |
| | | | sent from the Registration | | | | | | |
| | | | Service (following MPAN | | | | | | |
| | | | alignment monitoring) on the | | | | | | |
| | | | Data Integration Platform, via the | | | | | | |
| | | | appropriate interface and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| | | | Supplier should expect to receive | | | | | | |
| | | | automatic notification of the | | | | | | |
| | | | correct Service Provider. | | | | | | |
| | | MHHS- | Supplier must obtain | 1 | | | | | |
| | | BR- | appointment notifications for any | | | | | | |
| | | SU- | Secondary Related MPANs | | | | | | |
| | | 107 | and/or linked Export MPANs, | | | | | | |
| | | | sent from the Registration | | | | | | |
| | | | Service (following MPAN | | | | | | |
| | | | alignment monitoring) on the | | | | | | |
| | | | , , , , , , , , , , , , , , , , , , , | | | | | | |

| ed Qualification Approach | | | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | | |
| ication | Qualification | | | | | | | |
| Scenario | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ficatio |
|----------|--------------------------|--|--|---|---------------|--|----------|----------|--------------------------------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Furt |
| | | | | | Qualification | | Question | evidence | Qualification Test Scenario | Qua |
| | | | Data Integration Platform, via the appropriate interface and maintain records accordingly. | | | | | | | |
| | | MHHS- BR- SU- 135 MHHS- BR- SU- 136 | Supplier must send Notification of Customer Details to the Data Service via the appropriate interface on any change of occupancy. Supplier must send Priority Service Details to the Data Service via the appropriate interface on any update to the Priority Service Register. | | | | | | | |
| Supplier | Appointment Amendment | MHHS- BR- SU- 031 MHHS- BR- SU- 032 | Supplier must determine when it needs to vary the conditions of an existing Service Provider appointment , for example to change the contract code or change the MDR (SDS only). | Retail Risk 7: Inaccurate meter point master data results in errors that impact consumers. | Low | Potentially not relevant to the REC. The process reflects the standard appointment process (using a different event code) so no additional testing proposed. | | | | QAD expe whet syste Relia appo Supp envir scen |

| | Proposed Qualifi | cation Approach |
|------|------------------|---|
| | SIT / | Further comments on coverage during |
| ence | Qualification | Qualification |
| | Test Scenario | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | QAD question regarding the Supplier's |
| | | expected use for this process to determine |
| | | whether the Supplier is amending existing |
| | | systems and/or processes. |
| | | |
| | | Reliance then placed on testing of the |
| | | appointment process scenarios including the |
| | | Suppliers PIT and testing in the UIT |
| | | environment for an Appointment Amendment |
| | | scenario. |
| | | |
| | | |
| | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|------------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must obtain Registration | | | | | | |
| | | BR- | Service Response to Supplier | | | | | | |
| | | SU- | Service Appointment Requests, | | | | | | |
| | | 033 | with rejected appointments, via | | | | | | |
| | | | the appropriate interface on the | | | | | | |
| | | | Data Integration Platform, | | | | | | |
| | | | maintain records accordingly and | | | | | | |
| | | | re-issue the Service Provider | | | | | | |
| | | | Appointment Amendment | | | | | | |
| | | | request as appropriate | | | | | | |
| | | MHHS- | Supplier must obtain Registration | | | | | | |
| | | BR- | Service Response to Supplier | | | | | | |
| | | SU- | Service Appointment Requests, | | | | | | |
| | | 034 | with accepted appointments, via | | | | | | |
| | | | the appropriate interface on the | | | | | | |
| | | | Data Integration Platform and | | | | | | |
| | | | maintain records accordingly | | | | | | |
| | | MHHS- | Supplier must obtain Registration | | | | | | |
| | | BR- | Service Appointment Status | | | | | | |
| | | SU- | Notification updates, with Service | | | | | | |
| | | 035 | Provider accepted amended | | | | | | |
| | | | appointments, via the | | | | | | |
| | | | appropriate interface on the Data | | | | | | |
| | | | Integration Platform and maintain | | | | | | |
| | | | records accordingly. This | | | | | | |
| | | | confirms that the Service | | | | | | |
| | | | Provider amendment has been | | | | | | |
| | | | successfully completed. | | | | | | |

| ed Qualifi | d Qualification Approach | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|
| ication Scenario | Further comments on coverage during Qualification | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Market | Area | MHHS R | equirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|----------|---------------|--------|-------------------------------------|------------------|---------------|-------------------------------------|--------------|--------------|--------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must obtain Registration | | | | | | |
| | | BR- | Service Appointment Status | | | | | | |
| | | SU- | Notification updates, with Service | | | | | | |
| | | 036 | Provider rejected amended | | | | | | |
| | | | appointments, via the | | | | | | |
| | | | appropriate interface on the Data | | | | | | |
| | | | Integration Platform, maintain | | | | | | |
| | | | records accordingly and re-issue | | | | | | |
| | | | a new Service Provider | | | | | | |
| | | | appointment amendment request | | | | | | |
| | | | as appropriate. | | | | | | |
| Supplier | Missing or | MHHS- | Supplier must, where there is a | Retail Risk 5: | Low | Limited change to the existing | \checkmark | √ | |
| | Disputed | BR- | missing transfer read or there is | Consumers do | | Disputed / Missing Read process | | | |
| | Switch Meter | SU- | an issue with a transfer read | not receive an | | (main change is associated with | | | |
| | Reads | 158 | received, provide a suggested | accurate first | | the triggers rather than the | | | |
| | | | transfer read to the other | and final bill, | | business process). | | | |
| | | | Supplier via the appropriate | which leads to | | | | | |
| | | | interface | high customer | | NB: the steps relating to the | | | |
| | | MHHS- | Supplier must receive proposed | dissatisfaction. | | Supplier notifying the Data Service | | | |
| | | BR- | transfer reads via the appropriate | | | of the agreed read have not been | | | |
| | | SU- | interface and validate that the | | | includes (SU-161 and SU-162) as | | | |
| | | 159 | read is acceptable | | | these should be reflected within | | | |
| | | MHHS- | Supplier must provide a | 1 | | BSC elements of testing. | | | |
| | | BR- | response to the proposed read | | | | | | |
| | | SU- | request via the appropriate | | | | | | |
| | | 160 | interface | | | | | | |
| Supplier | Meter Works - | MHHS- | Supplier must, where | Retail Risk 1: | Low | Existing approach to requesting | \checkmark | \checkmark | \checkmark |
| | covering | BR- | appropriate, following | Consumer | | change (D0142, D0001), managing | | | |
| | standard | SU- | appointment of the relevant | supply point | | issues where activity has failed to | | | |
| | requests for | 050 | Metering Service, request a new | interruption | | complete (D0002, D0221) and | | | |
| | the MEM to | | meter is installed in line with the | due to a lack | | receiving MTDs (D0149 / 150 and | | | |
| | carry out | | Change of Metering process. | of action or | | D0268) – MHHS change is limited | | | |

| ed Qualifi | ed Qualification Approach | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|
| ication Scenario | Further comments on coverage during Qualification | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | QAD question regarding the change required to reflect the amended Switch Meter Read | | | | | | | | |
| | exceptions process, specifically recognising the amendments to the triggers for raising a | | | | | | | | |
| | dispute, the extension of the application to | | | | | | | | |
| | cover half hourly metering points and the | | | | | | | | |
| | differing approach for different market segments. | | | | | | | | |
| | PIT evidence demonstrating how the Supplier | | | | | | | | |
| | has tested the revised process, including | | | | | | | | |
| | amended D0300 market message. | | | | | | | | |
| | BSC Assessment Criteria notes this as an area to be covered in SIT/QT. | | | | | | | | |
| | QAD question regarding the end to end meter | | | | | | | | |
| | works process – whilst most elements of this | | | | | | | | |
| | process are existing functionality, ensuring the | | | | | | | | |
| | Supplier understands the changes to the | | | | | | | | |
| | existing process is important. | | | | | | | | |
| | | | | | | | | | |

| arket | Area | MHHS F | MHHS Requirements | | Risk Rating | Rationale of Risk Rating | | Proposed Qualification Approach | | | | | |
|-------|------------|--------|---------------------------------------|-----------------|---------------|-----------------------------------|----------|---------------------------------|---------------|---|--|--|--|
| ole | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during | | | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | | | |
| | | | | | | | | | Test Scenario | | | | |
| | metering | MHHS- | Supplier must, where required, | incorrect | | to the new market roles for MEM | | | | QAD question regarding the change required | | | |
| | activities | BR- | request that any existing | action by REC | | DTN messages. | | | | to reflect the new MEM Market Roles within | | | |
| | | SU- | metering equipment is removed | Parties. | | | | | | DTN messaging. | | | |
| | | 052 | in line with the Change of | | | New DIP interface for receipt of | | | | | | | |
| | | | Metering process. | Retail Risk 13: | | MTDs via the Registration Service | | | | PIT evidence demonstrating testing complete | | | |
| | | MHHS- | Supplier must be able to send a | Retail | | (IF006) and receipt of associated | | | | using the new DTN market roles and the ne | | | |
| | | BR- | request to fit, exchange or | consumers | | cumulative meter reads (IF041). | | | | DIP interfaces using the DIP simulator. | | | |
| | | SU- | remove a meter via the | have a | | | | | | | | | |
| | | 066 | appropriate interface | negative | | NB: Existing step to configure a | | | | The Code Manager will require evidence of | | | |
| | | MHHS- | Supplier must be able to receive | customer | | smart device in accordance with | | | | coverage of the DIP Interface within | | | |
| | | BR- | Fault Resolution Report or | experience as | | the SEC (SU-074 has not been | | | | Qualification Testing. | | | |
| | | SU- | Request for decision on Further | part of the | | included.) | | | | | | | |
| | | 067 | action via the appropriate | metering | | | | | | As outlined in the RTTM, some elements of | | | |
| | | | interface | works | | | | | | this process, e.g. SU-052 and SU-053 are n | | | |
| | | MHHS- | Supplier must be able to receive | conducted. | | | | | | required to be tested as part of SIT/QT. | | | |
| | | BR- | Notification of Failure to Install or | | | | | | | | | | |
| | | SU- | Energise Metering System via | | | | | | | | | | |
| | | 068 | the appropriate interface | | | | | | | | | | |
| | | MHHS- | Supplier must be able to obtain | | | | | | | | | | |
| | | BR- | and process metering change | | | | | | | | | | |
| | | SU- | acceptances received from the | | | | | | | | | | |
| | | 069 | Registration Service via the | | | | | | | | | | |
| | | | appropriate interface on the Data | | | | | | | | | | |
| | | | Integration Platform | | | | | | | | | | |
| | | MHHS- | Supplier must be able to receive | 1 | | | | | | | | | |
| | | BR- | Meter Technical Details and | | | | | | | | | | |
| | | SU- | register meter reads for | | | | | | | | | | |
| | | 070 | Advanced/Traditional meters via | | | | | | | | | | |
| | | | the appropriate interfaces | | | | | | | | | | |
| | | MHHS- | Supplier should reconcile the | 1 | | | | | | | | | |
| | | BR- | metering details received from | | | | | | | | | | |
| | | SU- | Registration Service with | | | | | | | | | | |
| | | 071 | information from the Metering | | | | | | | | | | |
| | | | Service and investigate any | | | | | | | | | | |
| | | | discrepancies if required. | | | | | | | | | | |

| Market | Area | MHHS F | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|----------|---|--|--|--|---------------------------|--|-----------------|-----------------|------------------------------|
| Role | | | | | for MHHS Qualification | | QAD Question | PIT evidence | SIT / Qualifie Test So |
| | | MHHS- BR- SU- 072 MHHS- BR- SU- 073 MHHS- BR- SU- 132 MHHS- BR- SU- 133 | Supplier must be able to obtain and process metering change cumulative reads received via the appropriate interface on the Data Integration Platform Supplier must be able to install and commission a Smart meter in line with the Smart Energy Code Supplier must notify faulty equipment it identifies to the ADS and receive updates via the appropriate interfaces as outlined in the relevant BSCP. Supplier must receive notification of any faulty equipment from the SDS via a D0001 or bilaterally agreed interface as outlined in the relevant BSCP. For Smart and Traditional meters the Supplier will take the lead investigating faults. The Supplier will be responsible for notifying the Data Service if they require data to be resubmitted as a result of a fault. | | | | | | |
| Supplier | Disconnection – steps within BP007 cut across a number of scenarios including meter | MHHS- BR- SU- 051 MHHS- BR- SU- 054 | Supplier must identify that a disconnection is required, following existing internal processes. Supplier must be able to request the LDSO to disconnect a Meter Point via the appropriate interface | Retail Risk 5: Consumers do not receive an accurate first and final bill, which leads to high customer dissatisfaction. | Low | No change to existing interactions with the DNO – note that these are captured in the DCUSA and the BSC. Receipt of the IF009 (SU-056) is the only new element within this scenario. | × | V | ~ |

| ed Qualifi | cation Approach |
|---------------------|--|
| ication Scenario | Further comments on coverage during Qualification |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question regarding the end to end |
| | disconnection process – whilst most elements |
| | of this process are existing functionality, ensuring the supplier understands how these |
| | come together into a single business process is key. |
| | PIT evidence demonstrating the end to end |

| Market | Area | MHHS Requirements | | Retails Risks Risk Rating for MHHS Qualification | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | |
|----------|--------------|-------------------|--|--|-------------|--------------------------------------|---------------------------------|------------------------|---|--|--|
| Role | | | | | | QAD Question | PIT evidence | SIT / Qualification | Further comments on coverage during Qualification | | |
| | worke and | | | | | | | | Test Scenario | | |
| | works and | MHHS- | Supplier must be able to receive | Datail Diak 7 | | ND: Eviating stops to depativate the | | | | process has been tested using DIP simulator. | |
| | appointments | BR- SU- | a rejection to the disconnection request from the LDSO via the | Retail Risk 7: | | NB: Existing steps to deactivate the | | | | The Code Manager will require evidence of | |
| | | | | Inaccurate | | CSS registration are not included | | | | | |
| | | 055 | appropriate interface and action, | meter point | | (SU-057.1, SU-058) and | | | | coverage of the DIP Interface within | |
| | | | as appropriate, based on the | master data | | requirements relating to meter | | | | Qualification Testing. | |
| | | | rejection reason. | results in | | removal (SU-052), de-energisation | | | | As suttinged in the DTTM same elements of | |
| | | MHHS- | Supplier must be able to receive | errors that | | (SU-053) and agent appointment | | | | As outlined in the RTTM, some elements of | |
| | | BR- | confirmation of disconnection of | impact | | (SU-059) are covered elsewhere. | | | | this process, e.g. SU-055 are not required to | |
| | | SU- | an MPAN via the appropriate | consumers. | | | | | | be tested as part of SIT/QT. | |
| | | 056 | interface and maintain records | | | | | | | | |
| Cumpling | Change of | | accordingly. | Retail Risk 7: | 1.000 | | \checkmark | | | OAD supprises reporting the and to and | |
| Supplier | _ | MHHS- | Supplier must, before | | Low | Existing requirement regarding | v | , v | ↓ V | QAD question regarding the end to end | |
| | Energisation | BR- | disconnection, ensure that the | Inaccurate | | request for energisation status | | | | change of energisation process – whilst most | |
| | Status | SU- | Meter Point is de-energised. | meter point | | change – MHHS change is limited | | | | elements of this process are existing | |
| | | 053 | Quantiza seconda en islandificia e e | master data | | to the new market roles for MEM | | | | functionality, ensuring the supplier | |
| | | MHHS- | Supplier must, on identifying a | results in | | DTN messages (D0134 / D0179 | | | | understands how these come together into a | |
| | | BR- | need to change energisation | errors that | | D0010). | | | | single business process is key. | |
| | | SU- | status for an MPAN, request the | impact | | | | | | OAD evention reporting the change required | |
| | | 060 | Meter Service or LDSO (as | consumers. | | Receipt of the IF007 (SU-061), | | | | QAD question regarding the change required to reflect the new MEM Market Roles within | |
| | | | appropriate) to change the | Datail Diak 0: | | IF008 (SU-064) IF041 (SU-063) are | | | | | |
| | | | energisation status via the | Retail Risk 8: | | the only new elements within this | | | | DTN messaging. | |
| | | | appropriate interface. | Delayed | | scenario. | | | | DIT ovidence demonstrating testing completed | |
| | | MHHS- | Supplier must obtain notifications | Switches | | | | | | PIT evidence demonstrating testing completed using the new DTN market roles and new DIP | |
| | | BR- | of a rejection or unable to action | provides a | | | | | | interfaces using the DIP simulator. | |
| | | SU- | a Change of Energisation | negative | | | | | | | |
| | | 061 | request via the appropriate | customer experience of | | | | | | The Code Manager will require evidence of | |
| | | | interface on the Data Integration | | | | | | | coverage of the DIP Interface within | |
| | | | Platform and action, as | the energy | | | | | | | |
| | | | appropriate, based on the | market. | | | | | | Qualification Testing. | |
| | | | rejection reason. | | | | | | | As outlined in the RTTM, some elements of | |
| | | MHHS- | Supplier must, for traditional pre | | | | | | | | |
| | | BR- | payment meters, receive a | | | | | | | this process, e.g. SU-062 are not required to | |
| | | SU- | D0179 from the Metering Service | | | | | | | be tested as part of SIT/QT. | |
| | | 062 | with the pre-payment change in | | | | | | | | |
| | | | energisation details. | | | | | | | | |

| Market | Area | MHHS Requirements | | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|----------|--------------|-------------------|-----------------------------------|-----------------|---------------|------------------------------------|--------------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must obtain Advanced | | | | | | |
| | | BR- | and Smart cumulative reads for | | | | | | |
| | | SU- | the energisation change, sent by | | | | | | |
| | | 063 | the Metering Service on the Data | | | | | | |
| | | | Integration Platform, via the | | | | | | |
| | | | appropriate interface. | | | | | | |
| | | MHHS- | Supplier must obtain accepted | | | | | | |
| | | BR- | Change of Energisation status | | | | | | |
| | | SU- | notifications from the | | | | | | |
| | | 064 | Registration Service via the | | | | | | |
| | | | appropriate interface on the Data | | | | | | |
| | | | Integration Platform and maintain | | | | | | |
| | | | records accordingly. | | | | | | |
| | | MHHS- | Supplier must receive register | | | | | | |
| | | BR- | reads, for non-Smart meters, for | | | | | | |
| | | SU- | the energisation change via the | | | | | | |
| | | 065 | appropriate interface. | | | | | | |
| Supplier | Maintenance | MHHS- | Supplier must send Central | Retail Risk 7: | Medium | A summary of each data item is set | \checkmark | √ | ✓ |
| | of Supplier | BR- | Switching Service updates on | Inaccurate | | out below: | | | |
| | Owned | SU- | domestic premise indicator via | meter point | | | | | |
| | Registration | 076 | the appropriate interface. | master data | | - Domestic Premises Indicator: No | | | |
| | Data | MHHS- | Supplier must obtain domestic | results in | | change to approach for updating | | | |
| | | BR- | premise indicator updates via the | errors that | | DPI via the CSS. The Supplier will | | | |
| | | SU- | appropriate interface on the Data | impact | | receive update via IF018. | | | |
| | | 077 | Integration Platform and maintain | consumers. | | | | | |
| | | | records accordingly. Supplier | | | - Consent Granularity: governed | | | |
| | | | should consider if there is any | Retail Risk 10: | | under the BSC. | | | |
| | | | impact on the Consent | Inaccurate | | | | | |
| | | | Granularity Indicator. | data or data | | - Related MPAN: see below. | | | |

| ed Qualifi | cation Approach |
|------------|---|
| | Further comments on coverage during |
| ication | Qualification |
| Scenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | QAD question regarding maintenance of |
| | Supplier owned data – noting that a change to |
| | the notification process is only required for |
| | IHD, SMSO and Profile Class /SSC updates. |
| | |
| | PIT evidence demonstrating testing completed |
| | using the DIP simulator. |
| | |
| | The Code Manager will require evidence of |
| | coverage of the DIP Interface within |
| | Qualification Testing. This will include IHD, |
| | SMSO and Profile Class / SSC updates. |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed | | | |
|--------|------|--------|-----------------------------------|----------------|---------------|-------------------------------------|----------|----------|----------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | |
| | | | | | Qualification | | Question | evidence | Qualific | |
| | | | | | | | | | Test Sce | |
| | | MHHS- | Supplier must be able to publish | that is not | | | | | | |
| | | BR- | Consent Granularity Indicator | maintained | | - Import / Export association: | | | | |
| | | SU- | updates on the Data Integration | appropriately | | governed under the BSC. | | | | |
| | | 078 | Platform via the appropriate | leads to delay | | | | | | |
| | | | interface, following customer | in the | | - IHD details: new requirement for | | | | |
| | | | notification of a change in | switching | | supplier to provide IHD details | | | | |
| | | | consent, review following | process. | | (IF025) and receive updates via | | | | |
| | | | domestic premise indicator | | | IF026. | | | | |
| | | | update or installation of a new | | | | | | | |
| | | | Smart meter. | | | - SMSO details: new requirement | | | | |
| | | MHHS- | Supplier must obtain Consent | | | for supplier to provide SMSO | | | | |
| | | BR- | Granularity Indicator updates via | | | details (IF025) and receive updates | | | | |
| | | SU- | the appropriate interface on the | | | via IF026. | | | | |
| | | 079 | Data Integration Platform and | | | | | | | |
| | | | action as appropriate. | | | - Profile Class / SSC details -new | | | | |
| | | MHHS- | Supplier must, where changes to | - | | requirement for supplier to provide | | | | |
| | | BR- | In-House Display (IHD) details | | | Profile Class / SSC details (IF025) | | | | |
| | | SU- | are identified, publish an IHD | | | and receive updates via IF026. | | | | |
| | | 090 | update to Registration Service | | | | | | | |
| | | | via the appropriate interface on | | | | | | | |
| | | | the Data Integration Platform. | | | | | | | |
| | | MHHS- | Supplier must obtain IHD | | | | | | | |
| | | BR- | updates from Registration | | | | | | | |
| | | SU- | Service via the appropriate | | | | | | | |
| | | 091 | interface on the Data Integration | | | | | | | |
| | | | Platform and maintain records | | | | | | | |
| | | | accordingly. | | | | | | | |
| | | MHHS- | Supplier must, where changes to | | | | | | | |
| | | BR- | Smart Metering System Operator | | | | | | | |
| | | SU- | (SMSO) are identified, publish an | | | | | | | |
| | | 092 | SMSO update to Registration | | | | | | | |
| | | | Service via the appropriate | | | | | | | |
| | | | interface on the Data Integration | | | | | | | |
| | | | Platform. | | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| fication | Qualification | | | | | |
| Scenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | MHHS R | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must obtain SMSO | | | | | | |
| | | BR- | updates from Registration | | | | | | |
| | | SU- | Service via the appropriate | | | | | | |
| | | 093 | interface on the Data Integration | | | | | | |
| | | | Platform and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| | | MHHS- | Supplier must, where changes to | - | | | | | |
| | | BR- | Import/Export linkages are | | | | | | |
| | | SU- | required, publish an Import/ | | | | | | |
| | | 094 | Export linkage update to | | | | | | |
| | | | Registration Service via the | | | | | | |
| | | | appropriate interface on the Data | | | | | | |
| | | | Integration Platform. | | | | | | |
| | | MHHS- | Supplier must, where changes to | - | | | | | |
| | | BR- | legacy data items (Profile | | | | | | |
| | | SU- | Class/SSC) are identified, | | | | | | |
| | | 096.1 | publish a legacy data update to | | | | | | |
| | | | Registration Service via the | | | | | | |
| | | | appropriate interface on the Data | | | | | | |
| | | | Integration Platform. | | | | | | |
| | | MHHS- | Supplier must obtain legacy data | - | | | | | |
| | | BR- | item (Profile Class/SSC) updates | | | | | | |
| | | SU- | from Registration Service via the | | | | | | |
| | | 096.2 | appropriate interface on the Data | | | | | | |
| | | | Integration Platform and maintain | | | | | | |
| | | | records accordingly. | | | | | | |
| | | MHHS- | Supplier must be able to obtain | - | | | | | |
| | | BR- | DCC enrolment updates via the | | | | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 096.3 | Integration Platform and maintain | | | | | | |
| | | | records accordingly. | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| Scenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market Role | Area | MHHS F | equirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | |
|----------------|--------------|--------|------------------------------------|-----------------|---------------|-------------------------------------|---------------------------------|----------|---------------|---|--|
| | | | | for MHHS | | | QAD PIT | | SIT / | Further comments on coverage during | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | |
| | | | | | | | | | Test Scenario | | |
| Supplier | Maintenance | MHHS- | Supplier must obtain MPL | Retail Risk 6: | Low | A summary of each data item is set | \checkmark | ✓ | ✓ | QAD question regarding maintenance of Nor | |
| | of Non | BR- | address/ GSP Group ID updates | Inaccurate | | out below: | | | | Supplier owned data – noting that the only | |
| | Supplier | SU- | via the appropriate interface on | Address | | | | | | design change is receipt of data via a DIP | |
| | Owned | 075 | the Data Integration Platform and | Management | | - MPL Address: No change to | | | | interface. | |
| | Registration | | maintain records accordingly. | data results in | | approach for updating MPL | | | | | |
| | Data | | Supplier should consider if there | errors that | | address. Supplier to receive update | | | | PIT evidence demonstrating testing complete | |
| | | | are any impacts on Service | impact | | via IF018. | | | | using the DIP simulator. | |
| | | | Provider appointments. | customers. | | | | | | | |
| | | MHHS- | Supplier must notify the LDSO of | | | - DUoS Tariff Id: Not relevant to | | | | The Code Manager will require evidence of | |
| | | BR- | any changes to MPL address | Retail Risk 7: | | REC. | | | | coverage of the DIP Interface within | |
| | | SU- | that it becomes aware of (outside | Inaccurate | | | | | | Qualification Testing. | |
| | | 075.1 | of the PUB-018 notification) via | meter point | | - Energy Direction: No change to | | | | | |
| | | | email/ SDEP or other bilaterally | master data | | approach for updating Energy | | | | As outlined in the RTTM, some elements of | |
| | | | agreed mechanism | results in | | Direction. Supplier to receive | | | | this process, e.g. SU-084, SU-087, SU-088, | |
| | | MHHS- | Supplier must be able to obtain | errors that | | update via IF018. | | | | and SU-089 are not required to be tested as | |
| | | BR- | DUoS Tariff ID updates via the | impact | | | | | | part of SIT/QT. | |
| | | SU- | appropriate interface on the Data | consumers. | | - Metered Status: No change to | | | | | |
| | | 080 | Integration Platform | | | approach for updating Metered | | | | | |
| | | MHHS- | Supplier must obtain MPL | Retail Risk 10: | | Status. Supplier to receive update | | | | | |
| | | BR- | address/ GSP Group ID updates | Inaccurate | | via IF018. | | | | | |
| | | SU- | via the appropriate interface on | data or data | | | | | | | |
| | | 075 | the Data Integration Platform and | that is not | | - Customer Direct Contract: New | | | | | |
| | | | maintain records accordingly. | maintained | | data maintained by the Data | | | | | |
| | | | Supplier should consider if there | appropriately | | Service / Metering Service. | | | | | |
| | | | are any impacts on Service | leads to delay | | Supplier involvement limited to | | | | | |
| | | | Provider appointments. | in the | | receipt of IF-039. | | | | | |
| | | MHHS- | Supplier must, where required, | switching | | | | | | | |
| | | BR- | request the LDSO to carry out | process. | | | | | | | |
| | | SU- | the one time update to the | | | | | | | | |
| | | 084 | Energy direction via a bilaterally | | | | | | | | |
| | | | agreed mechanism (eg SDEP or | | | | | | | | |
| | | | email) | | | | | | | | |
| | | MHHS- | Supplier must manage any | 1 | | | | | | | |
| | | BR- | rejections to the Energy Direction | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|------------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | SU- | update and re-submit as | | | | | | |
| | | 085 | appropriate | | | | | | |
| | | | | | | | | | |
| | | MHHS- | Supplier must be able to obtain | | | | | | |
| | | BR- | Energy Direction updates via the | | | | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 086 | Integration Platform and maintain | | | | | | |
| | | | records accordingly | | | | | | |
| | | MHHS- | Supplier must, where required, | | | | | | |
| | | BR- | request the LDSO to carry out | | | | | | |
| | | SU- | the one time update to the | | | | | | |
| | | 087 | Metered Status via a bilaterally | | | | | | |
| | | | agreed mechanism (eg SDEP or | | | | | | |
| | | | email) | | | | | | |
| | | MHHS- | Supplier must manage any | | | | | | |
| | | BR- | rejections to the Metered Status | | | | | | |
| | | SU- | update and re-submit as | | | | | | |
| | | 088 | appropriate | | | | | | |
| | | MHHS- | Supplier must be able to obtain | | | | | | |
| | | BR- | Metered Status updates via the | | | | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 089 | Integration Platform and maintain | | | | | | |
| | | | records accordingly | 4 | | | | | |
| | | MHHS- | Supplier must be able to obtain | | | | | | |
| | | BR- | DCC enrolment updates via the | | | | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 096.3 | Integration Platform and maintain | | | | | | |
| | | | records accordingly | - | | | | | |
| | | MHHS- | Supplier must obtain Customer | | | | | | |
| | | BR- | Direct Contract response via the | | | | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 018 | Integration Platform and maintain | | | | | | |
| | | | records accordingly. Supplier | | | | | | |
| | | | should utilise this information in | | | | | | |
| | | | future requests for Metering | | | | | | |

| ed Qualification Approach | | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | |
| fication | Qualification | | | | | | |
| Scenario | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|----------|----------------|--------|-----------------------------------|-----------------|---------------|-------------------------------------|--------------|--------------|--------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | | Service appointments for the | | | | | | |
| | | | notified MPANs. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Supplier | Maintenance | MHHS- | Supplier must notify Registration | Retail Risk 7: | Medium | New end to end process for | \checkmark | \checkmark | \checkmark |
| | of Related | BR- | Service of any change required | Inaccurate | | managing Related Metering point | | | |
| | Metering Point | SU- | to the Metering Point | meter point | | relationship including IF019 to | | | |
| | data | 081 | Relationships using the | master data | | notify the Registration Service | | | |
| | | | appropriate interface on the Data | results in | | about creation of, changes to or | | | |
| | | | Integration Platform | errors that | | ending relationship and IF020 to | | | |
| | | MHHS- | Supplier must be able to obtain | impact | | receive notifications from the | | | |
| | | BR- | Related MPAN updates via the | consumers. | | Registration Service. | | | |
| | | SU- | appropriate interface on the Data | | | | | | |
| | | 083 | Integration Platform and maintain | | | NB: MHHS is introducing greater | | | |
| | | | records accordingly | | | reliance on related metering point | | | |
| | | MHHS- | All Parties, where required, must | - | | relationships for agent | | | |
| | | BR- | be able to identify (using the | | | appointments so ensuring this | | | |
| | | SU- | appropriate interface) and | | | works and suppliers have | | | |
| | | 131 | appropriately manage related | | | appropriate systems and process in | | | |
| | | | MPANs as described in the | | | place for maintaining this data is | | | |
| | | | Retail Energy Code. | | | key. However, the application of | | | |
| | | | | | | this process is infrequent. | | | |
| Supplier | Change of | MHHS- | Supplier must identify when a | Retail Risk 1: | Low | No change to existing interactions | \checkmark | \checkmark | \checkmark |
| | Market | BR- | Change of Connection Type or | Consumer | | with the DNO regarding change to | | | |
| | Segment | SU- | Market Segment is required | supply point | | connection type. NB: these are | | | |
| | | 097 | following a customer request for | interruption | | captured in the DCUSA and the | | | |
| | | | change to the | due to a lack | | BSC. | | | |
| | | | connection/metering. The | of action or | | | | | |
| | | | Supplier must liaise with the | incorrect | | Also existing approach to | | | |
| | | | customer, LDSO and Metering | action by REC | | requesting meter exchange with | | | |
| | | | Service as appropriate to | Parties. | | MEM (noting the change to DTN | | | |
| | | | coordinate the change and agree | | | flows to reflect new market roles). | | | |
| ł | | | a target work date. | Retail Risk 13: | | | | | |

| ed Qualification Approach | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | |
| ication | Qualification | | | | | | |
| Scenario | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | QAD question regarding maintenance of | | | | | | |
| | Related Metering Point data and seeking | | | | | | |
| | assurance that the Supplier understands the | | | | | | |
| | changes to the use of this data being | | | | | | |
| | introduced with MHHS e.g. auto appointment / | | | | | | |
| | de-appointment of agents. | | | | | | |
| | | | | | | | |
| | PIT evidence demonstrating testing completed | | | | | | |
| | using the DIP simulator. | | | | | | |
| | | | | | | | |
| | The Code Manager will require evidence of the | | | | | | |
| | DIP Connectivity Testing conducted with the | | | | | | |
| | DIP Manager as a part of the QAD. | | | | | | |
| | Related Metering Point updates to be assured | | | | | | |
| | through Qualification Testing within the UIT | | | | | | |
| | environment, including integration with the | | | | | | |
| | Registration Service or an equivalent stub. | | | | | | |
| | QAD question regarding the end to end | | | | | | |
| | change of market segment process. Whilst | | | | | | |
| | most elements of this process are existing | | | | | | |
| | functionality, ensuring the Supplier | | | | | | |
| | understands how these come together into a | | | | | | |
| | single business process is key. | | | | | | |
| | QAD should be seeking assurance that the | | | | | | |
| | Supplier understands the relevance of this | | | | | | |
| | process to wider aspects of the business e.g. | | | | | | |
| | appointment / de-appointment of agents. | | | | | | |
| | appointment, as appointment of agento. | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|-------------------------------------|---------------|---------------|------------------------------------|----------|----------|-----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualifica |
| | | | | | | | | | Test Sce |
| | | MHHS- | Supplier must send a request to | Retail | | Receipt of the IF043 for change of | | | |
| | | BR- | the LDSO to change the | consumers | | connection type and IF044 for | | | |
| | | SU- | Connection Type via a bilaterally | have a | | change of market segment are is | | | |
| | | 098 | agreed communication method, | negative | | the only new elements within this | | | |
| | | | where it is identified that a | customer | | scenario. | | | |
| | | | Change of Connection Type is | experience as | | | | | |
| | | | required. | part of the | | Whilst a number of process steps | | | |
| | | MHHS- | Supplier must send a request to | metering | | are governed under the DCUSA / | | | |
| | | BR- | the Proposed Metering Service | works | | BSC, the impact on agent | | | |
| | | SU- | to change the Metering via a | conducted. | | appointment and metering updates | | | |
| | | 099 | bilaterally agreed communication | | | means this is an area REC | | | |
| | | | method, where it is identified that | | | Qualification requirements should | | | |
| | | | a Change of Market Segment is | | | cover. | | | |
| | | | required. | | | | | | |
| | | MHHS- | Supplier must receive | - | | | | | |
| | | BR- | confirmation from the LDSO of | | | | | | |
| | | SU- | the agreed target work date for | | | | | | |
| | | 100 | any Change to Connection Type | | | | | | |
| | | | requests via a bilaterally agreed | | | | | | |
| | | | communication method. | | | | | | |
| | | MHHS- | Supplier must receive | | | | | | |
| | | BR- | confirmation from the Proposed | | | | | | |
| | | SU- | Metering Service of the agreed | | | | | | |
| | | 101 | target work date for any Change | | | | | | |
| | | | to Market Segment requests via | | | | | | |
| | | | a bilaterally agreed | | | | | | |
| | | | communication method. | | | | | | |
| | | MHHS- | Supplier must, where it identifies | | | | | | |
| | | BR- | that new Service Providers are | | | | | | |
| | | SU- | needed, trigger Service | | | | | | |
| | | 102 | Appointments using the Change | | | | | | |
| | | | of Metering Service and Change | | | | | | |
| | | | of Data Service processes, with | | | | | | |
| | | | a scenario of "SEG". | | | | | | |

| ed Qualifi | cation Approach |
|----------------------|---|
| rication Scenario | Further comments on coverage during Qualification |
| | PIT evidence demonstrating the end to end process has been tested using DIP simulator. |
| | The Code Manager will require evidence of coverage of the DIP Interface within Qualification Testing. This will be covered as part of appointment scenarios – see above. |
| | As outlined in the RTTM, some elements of this process, e.g. SU-097, SU-099, SU-100, SU-101, and SU-103 are not required to be tested as part of SIT/QT. |
| | |
| | |
| | |
| | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|--------|-------------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | Supplier must work closely with | | | | | | |
| | | BR- | all parties involved to ensure that | | | | | | |
| | | SU- | the Target Date will be achieved. | | | | | | |
| | | 103 | If Supplier is informed that the | | | | | | |
| | | | date has had to be moved | | | | | | |
| | | | Supplier should re-submit any | | | | | | |
| | | | Service Appointments for the | | | | | | |
| | | | new Target Date | | | | | | |
| | | MHHS- | Supplier must obtain Connection | | | | | | |
| | | BR- | Type updates from the | | | | | | |
| | | SU- | Registration Service via the | | | | | | |
| | | 104 | appropriate interface on the Data | | | | | | |
| | | | Integration Platform and maintain | | | | | | |
| | | | records accordingly. Supplier | | | | | | |
| | | | should monitor for these updates | | | | | | |
| | | | after the agreed target work date | | | | | | |
| | | | and liaise with LDSO to ensure a | | | | | | |
| | | | prompt update. | | | | | | |
| | | MHHS- | Supplier must obtain Market | | | | | | |
| | | BR- | Segment updates from the | | | | | | |
| | | SU- | Registration Service via the | | | | | | |
| | | 105 | appropriate interface on the Data | | | | | | |
| | | | Integration Platform and maintain | | | | | | |
| | | | records accordingly. Supplier | | | | | | |
| | | | should monitor for these updates | | | | | | |
| | | | after the agreed target work date | | | | | | |
| | | | and liaise with Metering | | | | | | |
| | | | Service/LDSO, as appropriate, to | | | | | | |
| ĺ | | | ensure a prompt update. | | | | | | |

| ed Qualifi | ed Qualification Approach | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|
| ication | Further comments on coverage during Qualification | | | | | | | | | | |
| Scenario | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|----------|------------|--------|----------------------------------|----------------|---------------------------|--------------------------------------|-----------------|-----------------|------------------------|--|
| Role | | | | | for MHHS Qualification | | QAD Question | PIT evidence | SIT / Qualification | Further comments on coverage during Qualification |
| | | | | | | | | | Test Scenario | |
| Supplier | Monitoring | MHHS- | Supplier must obtain Missing | Retail Risk 7: | Low | New advisory messages issued by | \checkmark | √ | \checkmark | QAD question regarding receipt of advisory |
| | Service | BR- | Service Provider Advisory | Inaccurate | | the Registration Service relating to | | | | messages and controls / processes in place to |
| | Advisories | SU- | notifications, sent from the | meter point | | missing supplier agents and invalid | | | | resolve identified issues. |
| | | 108 | Registration Service on the Data | master data | | market segment. | | | | |
| | | | Integration Platform, via the | results in | | | | | | PIT evidence demonstrating testing completed |
| | | | appropriate interface and | errors that | | Inconsistent consent advisory not | | | | using the DIP simulator. |
| | | | investigate why no Service | impact | | relevant to the REC (SU-110) | | | | |
| | | | Provider has been appointed. If | consumers. | | | | | | The Code Manager will require evidence of |
| | | | necessary Supplier should | | | | | | | coverage of the DIP Interface within |
| | | | trigger a new Service Provider | | | | | | | Qualification Testing. |
| | | | appointment. | | | | | | | |
| | | MHHS- | Supplier must obtain Invalid | | | | | | | |
| | | BR- | Market Segment Advisory | | | | | | | |
| | | SU- | notifications, sent from the | | | | | | | |
| | | 109 | Registration Service on the Data | | | | | | | |
| | | | Integration Platform, via the | | | | | | | |
| | | | appropriate interface. Supplier | | | | | | | |
| | | | must investigate with the | | | | | | | |
| | | | Metering Service and/or LDSO to | | | | | | | |
| | | | agree the necessary action to | | | | | | | |
| | | | resolve the mismatch of | | | | | | | |
| | | | Connection Type to Meter Type | | | | | | | |
| | | | combination. | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|----------|--------------|--------|------------------------------------|----------------|---------------|-------------------------------------|-----------------------|--------------|-----------------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| Supplier | Migration | N/A | N/A | Retail Risk 7: | Low | The migration process will be | ✓ | ✓ | ~ | QAD question to assure the Supplier's |
| | Requirements | | | Inaccurate | | similar to a standard change of | | | | understanding of the migration process and |
| | | | | meter point | | agent, therefore testing will be | | | | the options available through a Switch e.g. |
| | | | | master data | | required as separate appointment | | | | option to forward migrate or retain metering |
| | | | | results in | | scenario's (Switch and non Switch). | | | | point in legacy arrangements. |
| | | | | errors that | | | | | | |
| | | | | impact | | The Supplier's ability to manage | | | | PIT evidence and Qualification Testing to |
| | | | | consumers. | | the migration in line with the | | | | demonstrate end to end migration with and |
| | | | | | | Migration Plan is not in the scope | | | | without Switch. This should be captured as a |
| | | | | | | of REC Qualification and will be | | | | separate scenario under the MEM appointment |
| | | | | | | managed by the programme. | | | | process described above. |
| | | | | | | Legacy Supplier requirements for | | | | |
| | | | | | | e.g. the Gaining Supplier in a | | | | |
| | | | | | | Reverse Migration are not in the | | | | |
| | | | | | | scope of REC Qualification as | | | | |
| | | | | | | Suppliers will need to ensure they | | | | |
| | | | | | | can meet these requirements from | | | | |
| | | | | | | M11 / M12 which may precede | | | | |
| | | | | | | Qualification. | | | | |
| Supplier | ISD – | MHHS- | All Parties must obtain Industry | Various | Low | The majority of ISD data required | \checkmark | \checkmark | | QAD question to determine whether the |
| | Suppliers | BR- | Standing Data (ISD) update | | | to support retail activities is | | | | Supplier is amending existing systems / |
| | required to | SU- | notifications via the appropriate | | | available within the EES. | | | | processes. |
| | receive ISD | 123 | interface, and if required take | | | | | | | |
| | updates | | necessary steps to obtain | | | Potential duplication if this | | | | PIT evidence demonstrating how the Supplier |
| | | | refreshed ISD data, maintain | | | functionality is being tested under | | | | maintains standing data. |
| | | | their records accordingly and | | | the BSC. | | | | |
| | | | reference/ utilise ISD as | | | | | | | The Code Manager will require evidence of |
| | | | appropriate as part of the service | | | | | | | coverage of the DIP Interface within |
| | | | delivery. | | | | | | | Qualification Testing. |
| Supplier | Generic | MHHS- | All Parties must publish data | Various | Low | Suppliers are required to receive | \checkmark | ~ | \checkmark | QAD question regarding approach to |
| | requirements | BR- | following ISO8601 format - | | | data via a variety of new DIP | | | | implementing the new DIP interfaces and |
| | associated | SU- | YYYY-MM- | | | interfaces. These have been | | | | controls in place to manage message |
| | | 122 | DDTHH:MM:SS±TZH:TZM. | | | referenced against the specific | | | | exceptions. |

| Market | Area | MHHS R | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------------|--------|-------------------------------------|---------------|---------------|-------------------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sce |
| | with DIP | MHHS- | All Parties must utilise Industry | | | processes detailed above and will | | | |
| | Interfaces | BR- | Standing Data to identify the | | | be captured in testing as required. | | | |
| | | SU- | relevant DIP ID/Role or DTN | | | This row has been included to | | | |
| | | 123.1 | Market Participant ID/Role, as | | | captured generic DIP related | | | |
| | | | appropriate, to be used when | | | requirements and is not proposing | | | |
| | | | communicating over the | | | any addition testing above that | | | |
| | | | DIP/DTN. | | | already detailed above. | | | |
| | | MHHS- | All Parties must derive and | - | | | | | |
| | | BR- | populate the DIP addressing | | | | | | |
| | | SU- | (primary recipients) for all | | | | | | |
| | | 123.2 | outbound interfaces in line with | | | | | | |
| | | | the rules described in the | | | | | | |
| | | | interface specification. | | | | | | |
| | | MHHS- | All Parties must process data | - | | | | | |
| | | BR- | and share outputs with other | | | | | | |
| | | SU- | parties in line with timescales set | | | | | | |
| | | 124 | out in the Operational | | | | | | |
| | | | Choreography document. | | | | | | |
| | | MHHS- | All Parties must obtain Data | - | | | | | |
| | | BR- | Integration Platform error | | | | | | |
| | | SU- | messages in line with the End to | | | | | | |
| | | 126 | End Solution Architecture | | | | | | |
| | | | Document, review the impacted | | | | | | |
| | | | data and re-issue corrected | | | | | | |
| | | | messages/transactions as | | | | | | |
| | | | required | | | | | | |
| | | MHHS- | All Parties must return Data | - | | | | | |
| | | BR- | Integration Platform error | | | | | | |
| | | SU- | messages in line with the End to | | | | | | |
| | | 127 | End Solution Architecture. | | | | | | |
| | | | Unexpected and/or un- | | | | | | |
| | | | processable messages should | | | | | | |
| | | | be returned to the DIP/ | | | | | | |
| | | | originating party | | | | | | |

| ed Qualifi | cation Approach |
|----------------------|--|
| fication Scenario | Further comments on coverage during Qualification |
| | PIT evidence demonstrating interactions using the DIP simulator. |
| | The Code Manager will require evidence of coverage of the DIP Interface within Qualification Testing. This will capture core business processes where the Supplier is sending messages to the Registration Service to initiate further downstream activities. |
| | As per the RTTM, not all of these requirements will map to a specific QT test case. |
| | |
| | |

| Market | Area | MHHS R | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|------------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | MHHS- | All Parties, when transacting via | | | | | | |
| | | BR- | the DIP, must ensure that they | | | | | | |
| | | SU- | implement monitoring so as to | | | | | | |
| | | 128 | identify where expected | | | | | | |
| | | | responses are not received | | | | | | |
| | | | within standard DIP SLAs, as | | | | | | |
| | | | outlined in the Operational | | | | | | |
| | | | Choreography, so that the | | | | | | |
| | | | appropriate investigative/ | | | | | | |
| | | | resolution activity can be | | | | | | |
| | | | undertaken. | | | | | | |
| | | MHHS- | All Parties must have familiarity | - | | | | | |
| | | BR- | with and actively monitor any | | | | | | |
| | | SU- | Data Integration Platform tools | | | | | | |
| | | 129 | for tracking messages, as | | | | | | |
| | | | outlined in the End to End | | | | | | |
| | | | Solution Architecture, so that the | | | | | | |
| | | | necessary investigative action | | | | | | |
| | | | can be taken when required. | | | | | | |
| | | MHHS- | All Parties must maintain and | 1 | | | | | |
| | | BR- | update their records with any | | | | | | |
| | | SU- | data received on interfaces to | | | | | | |
| | | 140 | ensure the most accurate and | | | | | | |
| | | | efficient delivery of the service. | | | | | | |

| ed Qualifi | cation Approach |
|------------|-------------------------------------|
| | Further comments on coverage during |
| ication | Qualification |
| Scenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

4.1.3 MEM

| Market | Area | MHHS R | equirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | | |
|--------|------------------|--------|------------------------------------|-----------------|---------------|-------------------------------------|---------------------------------|----------|---------------|--|--|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during | | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | | |
| | | | | | | | | | Test Scenario | | | |
| | | | | | | | | | | | | |
| IEM | Metering | MHHS- | Metering Service must obtain | Retail Risk 1: | Medium | Significant change from existing | \checkmark | √ | ✓ | QAD question(s) regarding the MEM | | |
| | Service | BR- | Registration Service Request for | Consumer | | appointment process. | | | | implementation of the revised appointment | | |
| | Appointment / | MS- | Service Appointment with | supply point | | | | | | process. In particular this should capture: | | |
| | De- | 001 | Metering Service proposed | interruption | | New event driven architecture and | | | | | | |
| | appointment - | | appointment requests, via the | due to a lack | | reduced settlement timetable | | | | - The distinction between new market | | |
| | with and | | appropriate interface on the | of action or | | requires appointment activities to | | | | segments and the need to review appointme | | |
| | without a | | Data Integration Platform. | incorrect | | completed in a timely manner. | | | | requests to ensure they have the appropriate | | |
| | Switch / Initial | MHHS- | Metering Service must confirm | action by REC | | | | | | Qualification. | | |
| | Registration | BR- | that they are certified to service | Parties. | | Includes sending and receiving DIP | | | | | | |
| | | MS- | the connection type and able to | | | interfaces (IF-033, IF-034. IF-035, | | | | - The approach to design, build and test of th | | |
| | | 002 | contractually deliver the | Retail Risk 2: | | IF-036. IF-037) and sending MTDs | | | | new end to end process including the new D | | |
| | | | Metering Service based on the | The privacy of | | via the IF005 and relevant DTN | | | | interfaces. | | |
| | | | information contained in the | consumer data | | flows. | | | | | | |
| | | | proposed appointment request | is | | | | | | - Controls in place to ensure responses are | | |
| | | | and publish a response | compromised | | | | | | sent within MHHS defined timescales. | | |
| | | | (acceptance or rejection) on the | by | | | | | | | | |
| | | | Data Integration Platform via the | inappropriate | | | | | | - Change required to reflect the new MEM | | |
| | | | appropriate interface. Where a | use of parties' | | | | | | Market Roles within DTN messaging. | | |
| | | | request is rejected the Metering | processes and | | | | | | | | |
| | | | Service must provide an | protocols. | | | | | | - Recognition of scenarios where the MEM v | | |
| | | | appropriate rejection reason in | | | | | | | be auto de-appointed by the Registration | | |
| | | | the response. When the | Retail Risk 7: | | | | | | Service e.g. following registration de- | | |
| | | | appointment request is accepted | Inaccurate | | | | | | activation. | | |
| | | | the Metering Service should be | meter point | | | | | | | | |
| | | | aware that at this point the | master data | | | | | | - Recognition of the approach to managing | | |
| | | | appointment remains | results in | | | | | | appointments for relating and import / export | | |
| | | | "prospective" and there is a | errors that | | | | | | Metering Points. | | |
| | | | possibility that it may need to be | impact | | | | | | | | |
| | | | lapsed at a later stage. | consumers. | | | | | | PIT evidence demonstrating MEM testing of | | |
| | | MHHS- | Metering Service must, for any | | | | | | | the new process, including different scenario | | |
| | | BR- | proposed appointments it | | | | | | | Switch, Change of MEM without a Switch | | |
| | | MS- | rejects, delete any metering | | | | | | | (including change of Market Segment) and | | |
| | | 003 | | | | | | | | Initial Registration for different market | | |

| Market | Area | MHHS Requirements | | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|--------|------|-------------------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|-----------------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | | details received, within 30 days | | | | | | | segments. Testing to include the new DTN |
| | | | of notifying the rejection. | | | | | | | market roles and new DIP interfaces using the |
| | | | | | | | | | | DIP Simulator. |
| | | | | | | | | | | |
| | | MHHS- | Metering Service must be able | | | | | | | The Code Manager will require evidence of the |
| | | BR- | to process requests to vary the | | | | | | | DIP Connectivity Testing conducted with the |
| | | MS- | conditions of an existing | | | | | | | DIP Manager as a part of the QAD. |
| | | 004 | appointment received via the | | | | | | | |
| | | | appropriate interface. For | | | | | | | End to end business process to be assured |
| | | | example change of contract | | | | | | | through Qualification Testing within the UIT |
| | | | code. These should be validated | | | | | | | environment, including integration with the |
| | | | and an outcome returned using | | | | | | | Registration Service or an equivalent stub. |
| | | | the appropriate interface. In the | | | | | | | This should include Switch, Change of MEM |
| | | | case of rejection the existing | | | | | | | without a Switch (including change of Market |
| | | | appointment will continue | | | | | | | Segment) and Initial Registration for individual |
| | | | unamended. | | | | | | | Metering Points and those with related |
| | | MHHS- | Metering Service must obtain | | | | | | | secondary metering points or associated |
| | | BR- | Registration Service Notification | | | | | | | export. |
| | | MS- | of Service De-Appointments via | | | | | | | |
| | | 005 | the appropriate interface on the | | | | | | | |
| | | | Data Integration Platform and | | | | | | | |
| | | | maintain records accordingly. | | | | | | | |
| | | MHHS- | Metering Service must obtain | | | | | | | |
| | | BR- | Registration Service | | | | | | | |
| | | MS- | Appointment Status | | | | | | | |
| | | 006 | Notifications, with prospective | | | | | | | |
| | | | Metering Service appointments, | | | | | | | |
| | | | via the appropriate interface on | | | | | | | |
| | | | the Data Integration Platform | | | | | | | |
| | | | and maintain records of | | | | | | | |
| | | | prospective Metering Service. | | | | | | | |

| Market | Area | MHHS R | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | | | | | | | | |
| | | MHHS- | Motoring Convice must obtain | | | | | | |
| | | BR- | Metering Service must obtain | | | | | | |
| | | MS- | Registration Service | | | | | | |
| | | | Appointment Status Notification | | | | | | |
| | | 006.1 | updates, acknowledging the | | | | | | |
| | | | Prospective Metering Service | | | | | | |
| | | | accepted/rejected appointments, | | | | | | |
| | | | via the appropriate interface on | | | | | | |
| | | | the Data Integration Platform | | | | | | |
| | | | and maintain records | | | | | | |
| | | | accordingly. | _ | | | | | |
| | | MHHS- | Metering Service must obtain | | | | | | |
| | | BR- | Registration Service Notification | | | | | | |
| | | MS- | of Service Appointment & | | | | | | |
| | | 007 | Supporting Info updates, with | | | | | | |
| | | | confirmed Metering Service | | | | | | |
| | | | appointments, via the | | | | | | |
| | | | appropriate interface on the | | | | | | |
| | | | Data Integration Platform and | | | | | | |
| | | | update records with MPAN and | | | | | | |
| | | | Meter Technical Details (ADS | | | | | | |
| | | | and SDS only). For the | | | | | | |
| | | | avoidance of doubt this is the | | | | | | |
| | | | message that indicates that an | | | | | | |
| | | | appointment will/has taken | | | | | | |
| | | | effect. | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|--|--|--|--|--|--|
| ication cenario | Further comments on coverage during Qualification | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|-----------------------------------|---------------|-------------|--------------------------|----------|---------------------|---------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | Qualification | | Question | evidence | Qualific Test Sc | |
| | | MUUO | MOA/MOD an at all tails Franct | | | | | | |
| | | MHHS- | MSA/MSS must obtain Export | | | | | | |
| | | BR- | MPAN appointments via the | | | | | | |
| | | MS- | appropriate interface on the | | | | | | |
| | | 008 | Data Integration Platform and | | | | | | |
| | | | update records with registration | | | | | | |
| | | | and metering details. MSA/MSS | | | | | | |
| | | | should note this message will be | | | | | | |
| | | | automatically triggered when a | | | | | | |
| | | | change of Metering Service has | | | | | | |
| | | | successfully completed for the | | | | | | |
| | | | linked import MPAN. (i.e. | | | | | | |
| | | | acceptance of the Export MPAN | | | | | | |
| | | | was implicit in the accepting the | | | | | | |
| | | | appointment to the Import | | | | | | |
| | | | MPAN). | _ | | | | | |
| | | MHHS- | MSA/MSS must obtain Related | | | | | | |
| | | BR- | MPAN appointments via the | | | | | | |
| | | MS- | appropriate interface on the | | | | | | |
| | | 008.1 | Data Integration Platform and | | | | | | |
| | | | update records with registration | | | | | | |
| | | | and metering details. MSA/MSS | | | | | | |
| | | | should note this message will be | | | | | | |
| | | | automatically triggered when a | | | | | | |
| | | | change of Metering Service has | | | | | | |
| | | | successfully completed for the | | | | | | |
| | | | Primary Related MPAN. | | | | | | |
| | | MHHS- | MSA/MSS must obtain Export | | | | | | |
| | | BR- | MPAN de-appointments via the | | | | | | |
| | | MS- | appropriate interface on the | | | | | | |
| | | 009 | Data Integration Platform and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| | | | MSA/MSS should note this | | | | | | |
| | | | message will be automatically | | | | | | |
| | | | triggered when a change of | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| cenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|--|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualifie |
| | | | | | | | | | Test So |
| | | | | | | | | | |
| | | | Metering Service has | | | | | | |
| | | | successfully completed for the | | | | | | |
| l | | | linked import MPAN. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | _ | | | | | |
| | | MHHS- | | | | | | | |
| | | BR- | MPAN de-appointments via the | | | | | | |
| | | MS- | appropriate interface on the | | | | | | |
| | | 009.1 | Data Integration Platform and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| | | | MSA/MSS should note this | | | | | | |
| | | | message will be automatically | | | | | | |
| | | | triggered when a change of | | | | | | |
| | | | Metering Service has successfully completed for the | | | | | | |
| | | | Primary Related MPAN. | | | | | | |
| | | MHHS- | | - | | | | | |
| | | BR- | Meter Technical Details and | | | | | | |
| | | MS- | commissioning information to a | | | | | | |
| | | 017 | prospective MSA, on receipt of a | | | | | | |
| | | 017 | notification of that prospective | | | | | | |
| | | | MSA, via the appropriate | | | | | | |
| | | | interface. In the case where | | | | | | |
| | | | Related MPANs or | | | | | | |
| | | | Import/Export linked meters are | | | | | | |
| | | | notified with the prospective | | | | | | |
| | | | MSA, Meter Technical Details | | | | | | |
| | | | must be sent for all the MPANs | | | | | | |
| | | | in the Related MPAN or | | | | | | |
| ĺ | | | Import/Export group. | | | | | | |
| Ĺ | | | | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| cenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|----------------------------------|---------------|---------------|--------------------------|----------|----------|---------------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific Test Sc |
| | | MHHS- | MSS must be able to send | | | | | | |
| | | BR- | Meter Technical Details to a | | | | | | |
| | | MS- | prospective MSS for Traditional | | | | | | |
| | | 018 | meters, on receipt of a | | | | | | |
| | | | notification of that prospective | | | | | | |
| | | | MSS, via the appropriate | | | | | | |
| | | | interface. In the case where | | | | | | |
| | | | Related MPANs or | | | | | | |
| | | | Import/Export linked meters are | | | | | | |
| | | | notified with the prospective | | | | | | |
| | | | MSA, Meter Technical Details | | | | | | |
| | | | must be sent for all the MPANs | | | | | | |
| | | | in the Related MPAN or | | | | | | |
| | | | Import/Export group. | | | | | | |
| | | MHHS- | MSA must be able to receive | - | | | | | |
| | | BR- | Meter Technical Details and | | | | | | |
| | | MS- | commissioning information from | | | | | | |
| | | 019 | the incumbent Metering Service | | | | | | |
| | | | via the appropriate interfaces | | | | | | |
| | | | and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| | | MHHS- | MSS must be able to receive | - | | | | | |
| | | BR- | Meter Technical Details from the | | | | | | |
| | | MS- | incumbent Metering Service for | | | | | | |
| | | 020 | Traditional meters via the | | | | | | |
| | | | appropriate interface and | | | | | | |
| | | | maintain records accordingly. | | | | | | |
| | | MHHS- | MSA/MSS must investigate with | | | | | | |
| | | BR- | the Metering Service where | | | | | | |
| | | MS- | Meter Technical Details are not | | | | | | |
| | | 021 | received for Advanced/ | | | | | | |
| | | | Traditional meters in expected | | | | | | |
| | | | timescales as outlined in the | | | | | | |
| | | | Operational Choreography. | | | | | | |
| | | | | 1 | | 1 | I | 1 |] |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| cenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|----------------------------------|---------------|---------------|--------------------------|----------|----------|---------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualifi |
| | | | | | | | | | Test So |
| | | | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | | | | | | |
| | | BR- | investigate any discrepancies in | | | | | | |
| | | MS- | Meter Technical Details | | | | | | |
| | | | received from the incumbent | | | | | | |
| | | 022 | | | | | | | |
| | | | Metering Service and those | | | | | | |
| | | | received from the Registration | | | | | | |
| | | | Service. This should identify if | | | | | | |
| | | | Meter Technical Details have | | | | | | |
| | | | been updated between the | | | | | | |
| | | | Metering Service originally | | | | | | |
| | | | receiving the MTDs from the | | | | | | |
| | | | incumbent Metering Service and | | | | | | |
| | | | the time the appointment is | | | | | | |
| | | | confirmed by the Registration | | | | | | |
| | | | Service. In these circumstances | | | | | | |
| | | | the new Metering Service | | | | | | |
| | | | should request a refresh of the | | | | | | |
| | | | MTDs from the incumbent | | | | | | |
| | | | Metering Service. | | | | | | |
| | | MHHS- | MSA must be able to send | | | | | | |
| | | BR- | Meter Technical Details to the | | | | | | |
| | | MS- | Supplier, LDSO and Data | | | | | | |
| | | 023 | Service via the appropriate | | | | | | |
| | | | interface. In the event that the | | | | | | |
| | | | Meter Technical Details get | | | | | | |
| | | | refreshed from the incumbent | | | | | | |
| | | | MSA, the new MSA should re- | | | | | | |
| | | | send the MTDs on to the | | | | | | |
| | | | Supplier, LDSO and Data | | | | | | |
| | | | Service. | | | | | | |
| | | | | | | | | | |

| | Further comments on coverage during |
|---------|-------------------------------------|
| ication | Qualification |
| | |
| cenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | | | | | | | | |
| | | MHHS- | MSS must be able to send | | | | | | |
| | | BR- | Meter Technical Details to the | | | | | | |
| | | MS- | Supplier, LDSO and Data | | | | | | |
| | | 024 | Service for Traditional meters | | | | | | |
| | | | via the appropriate interface. In | | | | | | |
| | | | the event that the Meter | | | | | | |
| | | | Technical Details get refreshed | | | | | | |
| | | | from the incumbent MSS, the | | | | | | |
| | | | new MSS should re-send the | | | | | | |
| | | | MTDs on to the Supplier, LDSO | | | | | | |
| | | | and Data Service. | | | | | | |
| | | MHHS- | Metering Service must obtain | - | | | | | |
| | | BR- | Registration Service | | | | | | |
| | | MS- | Appointment Status | | | | | | |
| | | 025 | Notifications, with Metering | | | | | | |
| | | | Service lapsed appointments, | | | | | | |
| | | | via the appropriate interface on | | | | | | |
| | | | the Data Integration Platform | | | | | | |
| | | | and update records accordingly | | | | | | |
| | | | so as to ensure that that the | | | | | | |
| | | | appointment does not become | | | | | | |
| | | | effective. Metering Service must | | | | | | |
| | | | delete meter technical details | | | | | | |
| | | | received for all lapsed | | | | | | |
| | | | appointments within 30 days. | | | | | | |
| | | MHHS- | Metering Service must obtain | | | | | | |
| | | BR- | Registration Service Notification | | | | | | |
| | | MS- | of Service De-Appointments, | | | | | | |
| | | 040 | with a de-appointment reason of | | | | | | |
| | | | disconnection, via the | | | | | | |
| | | | appropriate interface on the | | | | | | |
| | | | Data Integration Platform and | | | | | | |
| | | | maintain records accordingly. | | | | | | |

| d Qualification Approach | | | | | | |
|--------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| cenario | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Market | Area | | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | Proposed Qualification Appro | |
|--------|-----------------|-------|------------------------------------|----------------|---------------|-------------------------------------|--------------|--------------|--------------------------------|------------------------------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further cor | |
| | | | | | Qualification | | Question | evidence | Qualification Test Scenario | Qualificatio | |
| | | MHHS- | MSA/MSS must, on receipt of | | | | | | | | |
| | | BR- | updated customer details delete | | | | | | | | |
| | | MS- | or obfuscate the previously held | | | | | | | | |
| | | 086 | customer details as soon as | | | | | | | | |
| | | | they are no longer required. | | | | | | | | |
| | | MHHS- | MSA/MSS must receive Priority | - | | | | | | | |
| | | BR- | Service Details from the | | | | | | | | |
| | | MS- | Supplier via the appropriate | | | | | | | | |
| | | 087 | interface and maintain records | | | | | | | | |
| | | | accordingly. | | | | | | | | |
| | | MHHS- | MSA/MSS must, on receipt of | - | | | | | | | |
| | | BR- | updated PSR details delete or | | | | | | | | |
| | | MS- | obfuscate the previously held | | | | | | | | |
| | | 088 | PSR details as soon as they are | | | | | | | | |
| | | | no longer required. | | | | | | | | |
| | | MHHS- | MSA/MSS must, on receipt of a | - | | | | | | | |
| | | BR- | de-appointment notification | | | | | | | | |
| | | MS- | becoming effective, delete or | | | | | | | | |
| | | 088.1 | obfuscate the previously held | | | | | | | | |
| | | | PSR and customer details as | | | | | | | | |
| | | | soon as they are no longer | | | | | | | | |
| | | | required. | | | | | | | | |
| MEM | Manage | MHHS- | Metering Service must publish a | Retail Risk 7: | Low | Whilst this is a new process | \checkmark | \checkmark | \checkmark | QAD question | |
| | Customer | BR- | Customer Direct Contract | Inaccurate | | introduced for MHHS, the impact | | | | Customer D | |
| | Direct Contract | MS- | Advisory on the Data Integration | meter point | | on parties and consumers is | | | | assurance th | |
| | | 010 | Platform via the appropriate | master data | | relatively low as the flag is an | | | | requirement | |
| | | | interface for each MPAN that | results in | | optional indicator for Suppliers to | | | | in place to m | |
| | | | forms part of the contract, this | errors that | | get visibility of Customer Direct | | | | Registration | |
| | | | will also include the contract end | impact | | Contracts. | | | | | |
| | | | date. This can be done only | consumers. | | | | | | PIT evidence | |
| | | | where a contract has been | | | | | | | the new pro | |
| | | | formally agreed with the | | | | | | | | |
| | | | customer. | | | | | | | The Code M | |

| Further commen Qualification | ts on coverage during |
|---|--|
| | |
| | |
| Customer Direct C assurance that the requirements and in place to mainta Registration Servi | |
| the new process u | onstrating MEM testing of using the DIP Simulator. |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|--------|------|--------|-----------------------------------|---------------|---------------|--------------------------|----------|----------|-----------------|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | MHHS- | Metering Service must obtain | | | | | | | DIP Connectivity Testing conducted with the |
| | | BR- | Registration Service Customer | | | | | | | DIP Manager as a part of the QAD. |
| | | MS- | Direct Contract Advisory | | | | | | | |
| | | 011 | Responses via the appropriate | | | | | | | End to end business process to be assured |
| | | | interface on the Data Integration | | | | | | | through Qualification Testing within the UIT |
| | | | Platform. | | | | | | | environment, including integration with the |
| | | MHHS- | Metering Service must, for | | | | | | | Registration Service or an equivalent stub. |
| | | BR- | accepted responses, maintain | | | | | | | |
| | | MS- | records to show which MPANs | | | | | | | |
| | | 012 | have been flagged as a | | | | | | | |
| | | | customer direct contract. | | | | | | | |
| | | MHHS- | Metering Service must continue | | | | | | | |
| | | BR- | to manually coordinate the | | | | | | | |
| | | MS- | appointment of MPANs within | | | | | | | |
| | | 013 | the contract with other industry | | | | | | | |
| | | | participants. | | | | | | | |
| | | MHHS- | Metering Service must have the | | | | | | | |
| | | BR- | ability to cancel or change the | | | | | | | |
| | | MS- | end date of a customer direct | | | | | | | |
| | | 014 | contract using the appropriate | | | | | | | |
| | | | interface on the Data Integration | | | | | | | |
| | | | platform. | | | | | | | |
| | | MHHS- | Metering Service must | | | | | | | |
| | | BR- | investigate any rejections of | | | | | | | |
| | | MS- | customer direct contracts and | | | | | | | |
| | | 015 | re-submit as appropriate. | | | | | | | |
| | | MHHS- | Metering Service must, in the | | | | | | | |
| | | BR- | case of rejection for an existing | | | | | | | |
| | | MS- | contract, liaise with their | | | | | | | |
| | | 016 | customer and other participants | | | | | | | |
| | | | to determine why it appears | | | | | | | |
| | | | overlapping contracts might | | | | | | | |
| | | | exist. | | | | | | | |

| Market | Area | MHHS R | equirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|--------|----------------|--------|------------------------------------|---------------------------|---------------|--|----------|----------|--------------------------------|---|
| Role | | | | for MHHS Qualification | | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification Test Scenario | Qualification |
| | | | | | | | | | | |
| MEM | Change of | MHHS- | Metering Service must obtain | Retail Risk 7: | Low | The MEM is required to send MTDs | ✓ | ✓ | | QAD question regarding the end to end Data |
| | Data Service – | BR- | Registration Service | Inaccurate | | to the Data Service to support | | | | Service Appointment process to ensure MEMs |
| | the MEM is | MS- | Appointment Status | meter point | | settlement activities. NB: Whilst this | | | | recognise the need to process IF035s relating |
| | captured | 026 | Notifications, with prospective | master data | | does not have direct retail risk | | | | to DS Appointment. |
| | within these | | Data Service appointments, via | results in | | impact, inaction or delay in action | | | | |
| | requirements | | the appropriate interface on the | errors that | | from MEM can lead to inaccurate | | | | QAD question regarding the change required |
| | on the basis | | Data Integration Platform and | impact | | meter point data being held across | | | | to reflect the new Data Service Market Roles |
| | they must | | maintain records of prospective | consumers. | | the agents. | | | | within DTN messaging. |
| | send MTDs to | | Data Service. | | | | | | | |
| | the new DS | MHHS- | MSA must be able to send | - | | Receipt of IF035 and IF036 DIP | | | | PIT evidence demonstrating testing completed |
| | | BR- | Meter Technical Details to a | | | interfaces will be covered through | | | | using the new DTN market roles and the new |
| | | MS- | prospective Advanced Data | | | the MEM appointment testing. | | | | DIP interfaces using the DIP simulator. |
| | | 027 | Service, on receipt of a | | | | | | | |
| | | | notification of that prospective | | | The MTDs will be sent via existing | | | | No Qualification Testing expected. |
| | | | ADS, via the appropriate | | | DTN flows, so the impact is limited | | | | |
| | | | interface. In the case where | | | to the change required to reflect the | | | | |
| | | | Related MPANs or | | | new Market Roles. | | | | |
| | | | Import/Export linked meters are | | | | | | | |
| | | | notified with the prospective | | | | | | | |
| | | | ADS, Meter Technical Details | | | | | | | |
| | | | must be sent for all the MPANs | | | | | | | |
| | | | in the Related MPAN or | | | | | | | |
| | | | Import/Export group. | | | | | | | |
| | | MHHS- | MSS must be able to send | - | | | | | | |
| | | BR- | Meter Technical Details to a | | | | | | | |
| | | MS- | prospective Smart Data Service | | | | | | | |
| | | 028 | for Traditional meters, on receipt | | | | | | | |
| | | | of a notification of that | | | | | | | |
| | | | prospective SDS, via the | | | | | | | |
| | | | appropriate interface. In the | | | | | | | |
| | | | case where Related MPANs or | | | | | | | |
| | | | Import/Export linked meters are | | | | | | | |
| | | | notified with the prospective | | | | | | | |
| | | | SDS, Meter Technical Details | | | | | | | |

| Market | Area | MHHS R | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ica |
|--------|--------------|--------|---|----------------|---------------|-------------------------------------|--------------|----------|-----------------|-----|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Γ |
| | | | | | Qualification | | Question | evidence | Qualification | (|
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | | must be sent for all the MPANs | | | | | | | |
| | | | in the Related MPAN or | | | | | | | |
| | | | Import/Export group. | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | - | | | | | | |
| | | MHHS- | Metering Service must obtain | | | | | | | |
| | | BR- | Registration Service Notification | | | | | | | |
| l | | MS- | of Service Appointment & | | | | | | | |
| | | 030 | Supporting Info updates, with | | | | | | | |
| | | | confirmed Data Service | | | | | | | |
| | | | appointments, via the | | | | | | | |
| | | | appropriate interface on the Data Integration Platform and | | | | | | | |
| | | | maintain records accordingly. | | | | | | | |
| MEM | Manage Site | MHHS- | MSA/MSS must receive site | Retail Risk 7: | Low | Existing requirement – MHHS | \checkmark | | | |
| | Technical | BR- | technical details from the LDSO | Inaccurate | LOW | change is limited to the new market | | | | |
| | Detail | MS- | via the appropriate interface. | meter point | | roles for MEM DTN messages | | | | |
| | Requests | 037.1 | | master data | | (D0170 / D0215) | | | | . |
| | | MHHS- | MSA/MSS must receive site | results in | | | | | | , |
| | | BR- | technical details from the LDSO | errors that | | | | | | . |
| | | MS- | via the appropriate interface. | impact | | | | | | |
| | | 037.2 | | consumers. | | | | | | 1 |
| MEM | Change of | MHHS- | Metering Service must be able | Retail Risk 7: | Medium | Existing requirement regarding | √ | √ | ✓ | (|
| | Energisation | BR- | to receive a change of | Inaccurate | | request for energisation status | | | | i |
| | | MS- | energisation status request via | meter point | | change. MHHS change is limited to | | | | 6 |
| | | 041 | the appropriate interface. | master data | | the new market roles for MEM DTN | | | | |

| | Proposed Qualifi | cation Approach |
|---|------------------|---|
| | SIT / | Further comments on coverage during |
| | Qualification | Qualification |
| | Test Scenario | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| _ | | QAD question regarding the change required |
| | | to reflect the new MEM Market Roles within |
| | | DTN messaging. |
| | | |
| | | PIT evidence demonstrating testing completed |
| | | using the new DTN market roles. |
| | | to ing the new Dire market folds. |
| | | No Qualification Testing expected. |
| | \checkmark | QAD question(s) regarding the MEM |
| | | |
| | | implementation of the revised change of |
| | | energisation process. In particular this should |
| | | capture: |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--|--|---|---------------|---|----------|----------|---------------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific Test Sc |
| | | MHHS- BR- MS- 042 MHHS- BR- MS- 042.1 MHHS- BR- MS- 043 MHHS- BR- MS- 043 | Metering Service must be able to receive a change of energisation status outcome from the LDSO via the appropriate interface. Metering Service must be able to publish a notification to the Supplier, advising when a change in energisation status cannot be actioned, to the Data Integration Platform via the appropriate interface. MSA/MSS must be able to capture Advanced and Smart cumulative reads and publish the reads to the Data Integration Platform via the appropriate interface. MSA/MSS should attempt to recover UTC Period Level Consumption Data, for Advanced and Smart meters (not UMS or Traditional), in line with contractual agreements and share via an agreed | results in errors that impact consumers. | | messages (D0134 / D0179 D0010). However, there is a wider change to manage ongoing communication. No change to the actual delivery of physical meter works. | | | |
| | | MHHS- BR- MS- 045 | mechanism. MSA must be able to process a change in energisation status for an Advanced meter and provide register reads to the Data Service via the appropriate interface. | | | | | | |

| ed Qualifi | cation Approach |
|---------------------|--|
| ication Scenario | Further comments on coverage during Qualification |
| | - The approach to design, build and test of the new end to end process including the new DIP interfaces. |
| | - Controls in place to ensure responses are sent within MHHS defined timescales. |
| | - Change required to reflect the new MEM Market Roles within DTN messaging. |
| | PIT evidence demonstrating MEM testing of the new process. Testing to include the new DTN market roles and new DIP interfaces using the DIP Simulator. |
| | The Code Manager will require evidence of the DIP Connectivity Testing conducted with the DIP Manager as a part of the QAD. |
| | End to end business process to be assured through Qualification Testing within the UIT environment, including integration with the Registration Service or an equivalent stub. This should include acceptance and rejection of the initial supplier request and interaction with meter installation, exchange and removal. |
| | |

| Market | Area | MHHS R | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------------------|--------|-----------------------------------|----------------|---------------|-------------------------------------|--------------|--------------|--------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test So |
| | | | | | | | | | |
| | | MHHS- | MSS must be able to process a | | | | | | |
| | | BR- | change in energisation status for | | | | | | |
| | | MS- | a Traditional meter and provide | | | | | | |
| | | 046 | register reads to Data Service | | | | | | |
| | | | via the appropriate interface. | | | | | | |
| | | MHHS- | MSS must, for traditional pre | | | | | | |
| | | BR- | payment meters, issue a D0179 | | | | | | |
| | | MS- | to the Supplier via the | | | | | | |
| | | 046.1 | appropriate interface. | | | | | | |
| | | MHHS- | Metering Service must be able | | | | | | |
| | | BR- | to provide updated energisation | | | | | | |
| | | MS- | status details to the Data | | | | | | |
| | | 049 | Integration Platform via the | | | | | | |
| | | | appropriate interface. | | | | | | |
| | | MHHS- | Metering Service must be able | - | | | | | |
| | | BR- | to obtain and process | | | | | | |
| | | MS- | Registration Service Notification | | | | | | |
| | | 050 | of Change of Energisation | | | | | | |
| | | | Status updates via the | | | | | | |
| | | | appropriate interface on the | | | | | | |
| | | | Data Integration Platform. Any | | | | | | |
| | | | rejections should be | | | | | | |
| | | | investigated and re-submitted as | | | | | | |
| | | | appropriate. | | | | | | |
| MEM | Meter Works - | | | Retail Risk 7: | High | Existing approach to requesting | \checkmark | \checkmark | \checkmark |
| | including | | | Inaccurate | | change (D0142, D0001), managing | | | |
| | install, | | | meter point | | issues where activity has failed to | | | |
| | remove, | | | master data | | complete (D0002, D0221), sending | | | |
| | exchange, | | | results in | | MTDs (D0149 / 150 and D0268) | | | |
| | plus general | MHHS- | MSA/MSS must be able to | errors that | | and carrying out Proving Tests. | | | |
| | fault resolution | BR- | receive a metering request via | impact | | | | | |
| | | MS- | the appropriate interface and | consumers. | | However, there is a wider change | | | |
| | | 051 | | | | to manage ongoing | | | |
| | | | | | | | | | |

| ed Qualifi | cation Approach |
|---------------------|---|
| ication Scenario | Further comments on coverage during Qualification |
| | |
| | QAD question(s) regarding the MEM implementation of the revised metering process. In particular this should capture: The approach to design, build and test of the new end to end process including the new DIP |
| | interfaces Controls in place to ensure responses are |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|--------|------|--------|--|---------------|---------------|--|----------|----------|-----------------|---|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | | La construction de la constructi | | | | | | | |
| | | | arrange for the meter works as | | | communications of reads and | | | | sent within MHHS defined timescales. |
| | | | per the request. | | | MTDs. | | | | |
| | | | | | | | | | | - Change required to reflect the new MEM |
| | | | | | | No change to the actual delivery of | | | | Market Roles within DTN messaging. |
| | | MHHS- | MSA/MSS must be able to notify | | | physical meter works – change is | | | | |
| | | BR- | a Fault Resolution Report or | | | focused on the communication. | | | | PIT evidence demonstrating MEM testing of |
| | | MS- | Request for decision on Further | | | | | | | the new process. Testing to include the new |
| | | 052 | action via the appropriate | | | Risk rating driven by the fact this is | | | | DTN market roles and new DIP interfaces |
| | | | Interface. | | | a high frequency activity with a | | | | using the DIP Simulator. |
| | | MHHS- | MSA/MSS must be able to | | | number of new DIP interfaces. | | | | |
| | | BR- | provide Notification of Failure to | | | | | | | The Code Manager will require evidence of the |
| | | MS- | Install or Energise Metering | | | | | | | DIP Connectivity Testing conducted with the |
| | | 053 | System via the appropriate | | | | | | | DIP Manager as a part of the QAD. |
| | | | interface. | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | | | | | | | End to end business process to be assured |
| | | BR- | capture cumulative reads from | | | | | | | through Qualification Testing within the UIT |
| | | MS- | the meter while on site. | | | | | | | environment, including integration with the |
| | | 054 | | | | | | | | Registration Service or an equivalent stub. |
| | | MHHS- | MSA/MSS must, in line with | | | | | | | This should include acceptance and rejection |
| | | BR- | bilateral service agreements, be | | | | | | | of the initial supplier request and interaction |
| | | MS- | able to capture Advanced and | | | | | | | with change of energisation process. |
| | | 055 | Smart UTC Period Level | | | | | | | |
| | | | Consumption Data and provide | | | | | | | |
| | | | the data to the Supplier. | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | | | | | | | |
| | | BR- | install, remove and exchange | | | | | | | |
| | | MS- | meters in line with industry | | | | | | | |
| | | 056 | codes. | | | | | | | |
| | | MHHS- | MSA/MSS must, if required, be | | | | | | | |
| | | BR- | able to update the energisation | | | | | | | |
| | | MS- | status of a newly fitted meter. | | | | | | | |
| | | 057 | , | | | | | | | |
| | | | | | | | | | | |

| Market | Area | | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|-------|------------------------------------|---------------|---------------|--------------------------|----------|----------|---------------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific Test Sc |
| | | MHHS- | MSA/MSS must be able to | | | | | | |
| | | BR- | publish updated metering details | | | | | | |
| | | MS- | on the Data Integration Platform | | | | | | |
| | | 058 | via the appropriate interface. | | | | | | |
| | | MHHS- | MSA/MSS must notify the MAP | | | | | | |
| | | BR- | of installation/ removal of assets | | | | | | |
| | | MS- | using the appropriate interface. | | | | | | |
| | | 058.1 | | | | | | | |
| | | MHHS- | MSA/MSS must receive updates | | | | | | |
| | | BR- | to the Meter Asset Provider | | | | | | |
| | | MS- | (MAP) via the appropriate | | | | | | |
| | | 058.2 | interface and maintain records | | | | | | |
| | | | accordingly. | | | | | | |
| | | MHHS- | MSA/MSS must publish updated | | | | | | |
| | | BR- | MAP details on the Data | | | | | | |
| | | MS- | Integration Platform via the | | | | | | |
| | | 058.3 | appropriate interface. | | | | | | |
| | | MHHS- | MSA/MSS must be able to | | | | | | |
| | | BR- | obtain and process meter | | | | | | |
| | | MS- | change acceptances received | | | | | | |
| | | 059 | via the appropriate interface on | | | | | | |
| | | | the Data Integration Platform. | | | | | | |
| | | MHHS- | MSA/MSS must be able to | | | | | | |
| | | BR- | obtain and investigate feedback | | | | | | |
| | | MS- | on meter change rejections | | | | | | |
| | | 060 | received via the appropriate | | | | | | |
| | | | interface on the Data Integration | | | | | | |
| | | | Platform. | | | | | | |
| | | MHHS- | MSA/MSS must, for Smart and | | | | | | |
| | | BR- | Advanced meters, be able to | | | | | | |
| | | MS- | publish meter change | | | | | | |
| | | 061 | cumulative reads on the Data | | | | | | |
| | | | Integration Platform via the | | | | | | |
| | | | appropriate interface. | | | | | | |

| ed Qualifi | ed Qualification Approach | | | | | | | | | |
|------------|-------------------------------------|--|--|--|--|--|--|--|--|--|
| | Further comments on coverage during | | | | | | | | | |
| ication | Qualification | | | | | | | | | |
| cenario | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|------|--------|----------------------------------|---------------|---------------|--------------------------|----------|----------|----------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific |
| | | | | | | | | | Test Sc |
| | | | | | | | | | |
| | | MHHS- | MSA must be able to send , | | | | | | |
| | | BR- | following receipt of a meter | | | | | | |
| | | MS- | change acceptance from the | | | | | | |
| | | 062 | Registration Service, Meter | | | | | | |
| | | | Technical Details, | | | | | | |
| | | | commissioning details and | | | | | | |
| | | | register meter readings via the | | | | | | |
| | | | appropriate interfaces to the | | | | | | |
| | | | Data Service, Supplier and | | | | | | |
| | | | LDSO. | | | | | | |
| | | MHHS- | MSS must be able to send, | 1 | | | | | |
| | | BR- | following receipt of a meter | | | | | | |
| | | MS- | change acceptance from the | | | | | | |
| | | 063 | Registration Service, Meter | | | | | | |
| | | | Technical Details, mapping | | | | | | |
| | | | details and register meter | | | | | | |
| | | | readings via the appropriate | | | | | | |
| | | | interface to the Data Service, | | | | | | |
| | | | Supplier and LDSO. | | | | | | |
| | | MHHS- | MSA must investigate and | - | | | | | |
| | | BR- | provide feedback on any faulty | | | | | | |
| | | MS- | equipment notified by the ADS | | | | | | |
| | | 078 | or Supplier via the appropriate | | | | | | |
| | | | interfaces as outlined in Retail | | | | | | |
| | | | Energy Code (REC) Schedule | | | | | | |
| | | | 14 – Metering Operations. | | | | | | |
| | | MHHS- | MSS must investigate any faulty | - | | | | | |
| | | BR- | equipment notified by the | | | | | | |
| | | MS- | Supplier via the appropriate | | | | | | |
| | | 079 | interface as outlined in Retail | | | | | | |
| | | | Energy Code (REC) Schedule | | | | | | |
| | | | 14 – Metering Operations. | | | | | | |

| | cation Approach |
|---------|-------------------------------------|
| | Further comments on coverage during |
| ication | Qualification |
| cenario | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Market | Area | | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | l |
|--------|-----------------|-------|--|---|---------------|--|----------|----------|-----------------|---|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Ī |
| | | | | | Qualification | | Question | evidence | Qualification | |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | MHHS- | MSA must manage proving test | | | | | | | |
| | | BR- | processes in line with the | | | | | | | |
| | | MS- | existing Half Hourly Data | | | | | | | |
| | | 080.1 | Collection processes as outlined | | | | | | | |
| | | | in BSCP-502 section 3.5. | | | | | | | |
| MEM | MTD Update | N/A | There are no specific requirements within MHHS relating to generic update to MTDs outside a wider metering business process. | Retail Risk 7: Inaccurate meter point master data results in errors that impact consumers. | High | In practice MEMs are required to maintain MTDs and provide updates where attributes change or where they identify an earlier error. This is captured by a Meter Update or Meter History Update within the IF005. | | | | |
| MEM | Maintenance | MHHS- | Metering Service must obtain | Retail Risk 6: | Low | A summary of each data item is set | ✓ | √ | ✓ | T |
| | of Registration | BR- | MPL address/ GSP Group ID | Inaccurate | | out below: | | | | |
| | Data | MS- | updates via the appropriate | Address | | | | | | |
| | | 065 | interface on the Data Integration | Management | | - MPL Address: No change to | | | | |
| | | | Platform and maintain records | data results in | | approach for updating MPL | | | | |
| | | | accordingly. | errors that | | address. MEM to receive update | | | | |

| sed Qualification Approach | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|
| ification Scenario | Further comments on coverage during Qualification | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | QAD question regarding the MEM approach to providing generic meter updates. | | | | | | | | |
| | PIT evidence demonstrating MEM testing of the interface using the DIP Simulator. | | | | | | | | |
| | The Code Manager will require evidence of the DIP Connectivity Testing conducted with the DIP Manager as a part of the QAD. | | | | | | | | |
| | End to end business process to be assured through Qualification Testing within the UIT environment, including integration with the Registration Service or an equivalent stub. This should include positive and negative testing to reflect the IF005 validation rules. | | | | | | | | |
| | QAD question regarding maintenance of registration data – noting that the only design change is receipt of data via a DIP interface. Propose a specific question regarding Related Metering Points and Import / Export associations based on the new appointment | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ication Approach |
|--------|------|--------------|-----------------------------------|-------------------|---------------|------------------------------------|----------|----------|-----------------|---|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | MHHS- | MSA/MSS must obtain domestic | impact | | via IF018. | | | | considerations. |
| | | BR- | premise indicator updates via | customers. | | | | | | |
| | | MS- | the appropriate interface on the | customers. | | - Domestic Premises Indicator: | | | | PIT evidence demonstrating testing completed |
| | | 066 | Data Integration Platform, | Retail Risk 7: | | MEM will receive update via IF018. | | | | using the DIP simulator. |
| | | 000 | maintain records accordingly | Inaccurate | | | | | | |
| | | | and consider impacts to service | meter point | | - Related MPAN: Key data for MEM | | | | The Code Manager will require evidence of the |
| | | | delivery as required. | master data | | to be aware of. MEM will receive | | | | DIP Connectivity Testing conducted with the |
| | | MULLO | | results in | | update via IF020. | | | | |
| | | MHHS- BR- | MSA/MSS must be able to | errors that | | | | | | DIP Manager as a part of the QAD. |
| | | MS- | obtain Related MPAN updates | | | - Energy Direction: MEM to receive | | | | Qualification Testing scope to be confirmed |
| | | | via the appropriate interface on | impact consumers. | | update via IF018. | | | | one DIP Connectivity Testing scope if made |
| | | 066.1 | the Data Integration Platform | consumers. | | | | | | available. The Code Manager will need |
| | | | and maintain records | | | - Metered Status: MEM to receive | | | | assurance that one receipt of updates via the |
| | | MULIC | accordingly. | - | | update via IF018. | | | | DIP, the data held by the MEM is updated |
| | | MHHS- | Metering Service must be able | | | | | | | |
| | | BR- | to obtain Energy Direction | | | - SMSO details: MEM to receive | | | | |
| | | MS- | updates via the appropriate | | | updates via IF026. | | | | |
| | | 066.2 | interface on the Data Integration | | | upuales via 16020. | | | | |
| | | | Platform and maintain records | | | - Import / Export association: | | | | |
| | | MUUO | accordingly. | - | | governed under the BSC. Key data | | | | |
| | | MHHS- | Metering Service must be able | | | for MEM to be aware of. MEM will | | | | |
| | | BR- | to obtain Metered Status | | | receive update via IF020. | | | | |
| | | MS- | updates via the appropriate | | | | | | | |
| | | 066.3 | interface on the Data Integration | | | - Profile Class / SSC details: MEM | | | | |
| | | | Platform and maintain records | | | to receive updates via IF026. | | | | |
| | | | accordingly. | | | | | | | |
| | | MHHS- | MSS must obtain SMSO | | | | | | | |
| | | BR- | updates from Registration | | | | | | | |
| | | MS- | Service via the appropriate | | | | | | | |
| | | 066.4 | interface on the Data Integration | | | | | | | |
| | | | Platform and maintain records | | | | | | | |
| | | | accordingly. | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed Qualif | ica |
|--------|-----------|--------|------------------------------------|-----------------|---------------|-------------------------------------|--------------|--------------|-----------------|-----|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | F |
| | | | | | Qualification | | Question | evidence | Qualification | 0 |
| | | | | | | | | | Test Scenario | |
| | | | | | | | | | | |
| | | MHHS- | Metering Service must be able | | | | | | | |
| | | BR- | to obtain Import/Export linkage | | | | | | | |
| | | MS- | updates via the appropriate | | | | | | | |
| | | 066.5 | interface on the Data Integration | | | | | | | |
| | | | Platform and maintain records | | | | | | | |
| | | | accordingly. | | | | | | | |
| | | MHHS- | Metering Service must obtain | - | | | | | | |
| | | BR- | legacy data item (Profile | | | | | | | |
| | | MS- | Class/SSC) updates from | | | | | | | |
| | | 066.6 | Registration Service via the | | | | | | | |
| | | | appropriate interface on the | | | | | | | |
| | | | Data Integration Platform and | | | | | | | |
| | | | maintain records accordingly. | | | | | | | |
| | | MHHS- | All services, where required, | | | | | | | |
| | | BR- | must be able to identify (using | | | | | | | |
| | | MS- | the appropriate interface) and | | | | | | | |
| | | 077 | appropriately manage related | | | | | | | |
| | | | MPANs as described in the | | | | | | | |
| | | | relevant BSCP. | | | | | | | |
| MEM | Change of | MHHS- | MSA/MSS must, following initial | Retail Risk 1: | Medium | No change to existing interactions | \checkmark | \checkmark | \checkmark | 0 |
| | Market | BR- | engagement from a Supplier, be | Consumer | | with the DNO regarding change to | | | | C |
| | Segment | MS- | able to receive a request to | supply point | | connection type. | | | | t |
| | | 092 | carry out a Change of Segment | interruption | | | | | | t |
| | | | meter exchange, via a bilaterally | due to a lack | | Also existing approach for the | | | | |
| | | | agreed mechanism, even when | of action or | | Supplier to request a meter | | | | 0 |
| | | | they are not the currently | incorrect | | exchange (NB: the change to DTN | | | | N |
| | | | appointed Metering Service. | action by REC | | flows to reflect new market roles). | | | | þ |
| | | MHHS- | MSA/MSS must respond to the | Parties. | | | | | | a |
| | | BR- | Supplier, via a bilaterally agreed | | | However, the link with agent | | | | |
| | | MS- | mechanism, confirming that they | Retail Risk 13: | | appointment and choreography | | | | F |
| | | 093 | can carry out the Change of | Retail | | issues increased the risk | | | | F |
| l | | | Segment exchange on the | consumers | | associated with the process to be | | | | . |
| | | | agreed target date. | have a | | | | | | ין |

| oposed Qualifi | cation Approach |
|---------------------------------------|---|
| IT / Qualification est Scenario | Further comments on coverage during Qualification |
| | |
| , | OAD question regarding the end to end |
| | QAD question regarding the end to end change of market segment process, ensuring the MEM understands how these come together into a single business process is key. |
| | QAD should be seeking assurance that the MEM understands the relevance of this process to wider aspects of the business e.g. appointment / de-appointment of agents. |
| | PIT evidence demonstrating the end to end process has been tested using DIP simulator. |
| | The Code Manager will require evidence of the |

| Market | Area | MHHS R | lequirements | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | | |
|--------|------|--------|-------------------------------------|---------------|---------------|-------------------------------------|---------------------------------|----------|---------------|--|--|--|
| Role | | | | | for MHHS | | QAD | PIT | SIT / | Further comments on coverage during | | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | | |
| | | | | | | | | | Test Scenario | | | |
| | | | | | | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | negative | | tested, including various scenarios | | | | DIP Connectivity Testing conducted with the | | |
| | | BR- | publish Change of Segment | customer | | to test sequencing of activities. | | | | DIP Manager as a part of the QAD. | | |
| | | MS- | Meter Exchange details and | experience as | | | | | | | | |
| | | 094 | reads via the appropriate | part of the | | | | | | End to end business process to be assured | | |
| | | | interfaces, where it is not | metering | | | | | | through Qualification Testing within the UIT | | |
| | | | formally appointed as the | works | | | | | | environment, including integration with the | | |
| | | | Metering Service but does have | conducted. | | | | | | Registration Service or an equivalent stub. | | |
| | | | an accepted prospective | | | | | | | This is a combination of a MEM Appointmen | | |
| | | | appointment (Appointment | | | | | | | and Meter Exchange scenario therefore liste | | |
| | | | Scenario = "SEG"). The | | | | | | | separately. | | |
| | | | MSA/MSS must issue the work | | | | | | | | | |
| | | | update to Registration at the | | | | | | | | | |
| | | | earliest opportunity but within [x] | | | | | | | | | |
| | | | days of completion at the latest. | | | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | - | | | | | | | | |
| | | BR- | obtain a Registration Service | | | | | | | | | |
| | | MS- | Change of Segment Meter | | | | | | | | | |
| | | 095 | Exchange confirmation with | | | | | | | | | |
| | | | MTDs and readings via the | | | | | | | | | |
| | | | appropriate interface on the | | | | | | | | | |
| | | | Data Integration Platform, even | | | | | | | | | |
| | | | when it is from a 3rd party | | | | | | | | | |
| | | | Metering Service. | | | | | | | | | |
| | | MHHS- | MSA must be able to receive | | | | | | | | | |
| | | BR- | Commissioning details from the | | | | | | | | | |
| | | MS- | LDSO following a connection | | | | | | | | | |
| | | 096 | type update, via the appropriate | | | | | | | | | |
| | | | interface, and maintain records | | | | | | | | | |
| | | | accordingly. | | | | | | | | | |
| | | MHHS- | MSA/MSS must be able to | 1 | | | | | | | | |
| | | BR- | obtain Registration Service | | | | | | | | | |
| | | MS- | Change of Connection Type | | | | | | | | | |
| | | 097 | notifications via the appropriate | | | | | | | | | |
| | | | interface on the Data Integration | | | | | | | | | |

| Market | Area | | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Propose |
|--------|-------------------------------------|--|---|--|---------------|---|----------|----------|---------------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific Test Sc |
| MEM | Monitoring Service Advisories | MHHS- BR- MS- 097.1 MHHS- BR- MS- 097.1 | Platform and maintain records accordingly. MSA/MSS must obtain Invalid Market Segment Advisory notifications, sent from the Registration Service on the Data Integration Platform, via the appropriate interface. MSA/MSS must obtain Invalid Market Segment Advisory notifications, sent from the Registration Service on the Data Integration Platform, via the appropriate interface. | Retail Risk 7: Inaccurate meter point master data results in errors that impact consumers | Low | New advisory messages issued by the Registration Service relating to missing supplier agents and invalid market segment. | | | ✓ |
| MEM | Migration Requirements | N/A | N/A | Retail Risk 7: Inaccurate meter point master data results in errors that impact consumers | Medium | The migration process will be similar to a standard change of agent, therefore testing will be required as separate appointment scenario's (Switch and non Switch). However, MEMs will need to support data cleanse activity (especially with regards to quality of MTDs) in preparation for migration. Legacy MEM requirements for e.g. | ✓ | ✓ | |

| sed Qualifi | ication Approach |
|------------------------|---|
| lification Scenario | Further comments on coverage during Qualification |
| | |
| | |
| | |
| | QAD question regarding receipt of advisory |
| | messages and controls / processes in place to resolve identified issues. |
| | |
| | PIT evidence demonstrating testing completed |
| | using the DIP simulator. |
| | The Code Manager will require evidence of the |
| | DIP Connectivity Testing conducted with the |
| | DIP Manager as a part of the QAD. |
| | No Qualification Testing expected. |
| | QAD question to assure the MEM's |
| | understanding of the migration process and how this differs from a standard change of |
| | agent. |
| | QAD question to understand how MEMs will |
| | ensure MTD accuracy for migration. |
| | PIT evidence and Qualification Testing to |
| | demonstrate end to end migration with and |
| | without Switch. This should be captured as a |

| Market | Area | MHHS Requirements | | Retails Risks | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | | |
|--------|---|--|---|---------------|---------------------------|--|---------------------------------|-----------------|---|---|--|--|
| Role | | | | | for MHHS Qualification | | QAD Question | PIT evidence | SIT / Qualification Test Scenario | Further comments on coverage during Qualification | | |
| | | | | | | | | | Test Scenario | | | |
| | | | | | | the Gaining MEM in a Reverse Migration or a Losing MEM in a forward migration are not in the scope of Code Qualification as MEMs will need to ensure they can meet these requirements from M11 / M12 which may precede Qualification. | | | | separate scenario under the MEM appointment process described above | | |
| MEM | ISD – MEMs required to receive ISD updates | MHHS- BR- MS- 071 | All services must obtain Industry Standing Data (ISD) update notifications via the appropriate interface, and if required take necessary steps to obtain refreshed ISD data, maintain their records accordingly and reference/ utilise ISD as appropriate as part of the service delivery. | Various | Low | The majority of ISD data required to support retail activities is available within the EES. | | | | QAD question to determine whether the MEM is amending existing systems / processes. PIT evidence demonstrating how the MEM maintains standing data. The Code Manager will require evidence of the DIP Connectivity Testing conducted with the DIP Manager as a part of the QAD. No Qualification Testing expected. | | |
| MEM | Generic requirements associated with DIP Interfaces | MHHS- BR- MS- 070 MHHS- BR- MS- 071.1 | MSA/MSS must publish data following ISO8601 format - YYYY-MM- DDTHH:MM:SS±TZH:TZM. All services must utilise Industry Standing Data to identify the relevant DIP ID/Role or DTN Market Participant ID/Role, as appropriate, to be used when | Various | Low | MEMs are required to receive data via a variety of new DIP interfaces. These have been referenced against the specific processes detailed above and will be captured in testing as required. This row has been included to captured generic DIP related requirements and is not | | | | QAD question regarding approach to implementing the new DIP interfaces and controls in place to manage message exceptions.PIT evidence demonstrating interactions using the DIP simulator.The Code Manager will require evidence of the | | |

| Market Role | Area | MHHS F | Requirements | Retails Risks Risk Rating | Risk Rating | Rationale of Risk Rating | Proposed Qualification Approach | | | | |
|----------------|------|--------|----------------------------------|---------------------------|---------------|------------------------------------|---------------------------------|---------------------------------------|---------------|---|--|
| | | | | | for MHHS | QAD PIT | | SIT / Further comments on coverage of | | | |
| | | | | | Qualification | | Question | evidence | Qualification | Qualification | |
| | | | | | | | | | Test Scenario | | |
| | | | | | | | | | | | |
| | | | communicating over the | | | proposing any addition testing | | | | DIP Connectivity Testing conducted with the | |
| | | | DIP/DTN. | | | above that already detailed above. | | | | DIP Manager as a part of the QAD. | |
| | | | | | | above that already detailed above. | | | | Dir Manager as a part of the QAD. | |
| | | | | | | | | | | Qualification Testing to capture core busines | |
| | | | | | | | | | | processes where the MEM is sending | |
| | | MHHS- | All services must derive and | - | | | | | | messages to the Registration Service | |
| | | BR- | populate the DIP addressing | | | | | | | regarding metering related activities. | |
| | | MS- | (primary recipients) for all | | | | | | | | |
| | | 071.2 | outbound interfaces in line with | | | | | | | | |
| | | 07112 | the rules described in the | | | | | | | | |
| | | | interface specification. | | | | | | | | |
| | | MHHS- | All services must process data | - | | | | | | | |
| | | BR- | and share outputs with other | | | | | | | | |
| | | MS- | parties in line with timescales | | | | | | | | |
| | | 072 | set out in the Operational | | | | | | | | |
| | | | Choreography document. | | | | | | | | |
| | | MHHS- | All Services must obtain Data | - | | | | | | | |
| | | BR- | Integration Platform error | | | | | | | | |
| | | MS- | messages in line with the End to | | | | | | | | |
| | | 073 | End Solution Architecture, | | | | | | | | |
| | | | review the impacted data and | | | | | | | | |
| | | | re-issue corrected | | | | | | | | |
| | | | messages/transactions as | | | | | | | | |
| | | | required. | | | | | | | | |
| | | MHHS- | All services, when transacting | | | | | | | | |
| | | BR- | via the DIP, must ensure that | | | | | | | | |
| | | MS- | they implement monitoring so as | | | | | | | | |
| | | 074 | to identify where expected | | | | | | | | |
| | | | responses are not received | | | | | | | | |
| | | | within standard DIP SLA's, as | | | | | | | | |
| | | | outlined in the Operational | | | | | | | | |
| | | | Choreography, so that the | | | | | | | | |
| | | | appropriate investigative/ | | | | | | | | |

| Market | Area | MHHS F | Requirements | Retails Risks | Risk Rating | Rationale of Risk Rating | | | Proposed |
|--------|------|-----------------------------------|--|---------------|---------------|--------------------------|----------|----------|---------------------|
| Role | | | | | for MHHS | | QAD | PIT | SIT / |
| | | | | | Qualification | | Question | evidence | Qualific Test Sc |
| | | MHHS- BR- MS- 075 | resolution activity can be undertaken. All services must have familiarity with and actively monitor any Data Integration Platform tools for tracking flows, as outlined in the End to End Solution | | | | | | |
| | | MHHS- BR- | Architecture, so that the necessary investigative action can be taken when required. All Services should implement data validation steps and | - | | | | | |
| | | MS- 083 MHHS- BR- MS- | techniques that they feel are appropriate to ensure the most accurate and efficient delivery of the service. All Services must maintain and update their records with any data received on interfaces to | | | | | | |
| | | 091 | ensure the most accurate and efficient delivery of the service. | | | | | | |

| ed Qualification Approach | | | | | | |
|---------------------------|-------------------------------------|--|--|--|--|--|
| | Further comments on coverage during | | | | | |
| ication | Qualification | | | | | |
| cenario | | | | | | |
| oonano | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

4.2 MIGRATION REQUIREMENTS

The following assessment criteria to cover MHHS-DEL974 MHHS Migration Design Requirements Log v1.2 by role has been developed by the REC Code Manager and was initially presented to REC PAB for approval on 26 March 2024. This may be updated as further information is published by the MHHS Programme.

4.2.1 DNO (INCLUDING REGISTRATION SERVICE)

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|--|-----------------------|---------------------|-----------------------------------|--|-----------------------|-----------------------|---|---------------------------------------|
| DNO (including Registration Service) | Forward Migration | Change of Supply | MHHS-Migration-CoS- RS-001 | In the scenario that a Legacy MPAN is switching to a MHHS Qualified Supplier, the Registration Service will send both the IF-002 and the D0217 / D0260 to the incoming Supplier at the same time. | | × | ✓ | Migration design covered through SIT. |
| DNO (including Registration Service) | Forward Migration | Change of Supply | MHHS-Migration-CoS- RS-002 | Each time a Pending registration is received, Registration Service to consult ISD to determine Qualification status of Supplier in respect to the status of the MPAN. | V | V | | Migration design covered through SIT. |
| DNO (including Registration Service) | Forward Migration | Change of Supply | MHHS-Migration-CoS- RS-003 | Registration Service to send the D0217/D0260 the next working day at the very latest after the IF-002 (although in most cases the messages will be sent only a few hours apart). | V | <i>√</i> | | Migration design covered through SIT. |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-001 | Registration Service must send a D0170 to the outgoing MOP to request they send the MTDs to the new MS. This D0170 will include a specific enumeration value within the data item 'Requested Action Code' which will specify whether a CoA or CoS Migration is occurring. | ✓ | ✓ | | Migration design covered through SIT. |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-002 | In the scenario that a Migration is already underway and a Pending switch is received, when the D-1 effective from status of the Agent appointment is reached, Registration Service must send IF-035 in place of an IF-036 with specific Migration cancellation value within the 'Event Code' data item to inform incoming Service Providers and incumbent Supplier that the Migration has been cancelled. | ✓ | ✓ | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-004 | Related MPANs: Following receipt of a PUB-031, the Registration Service must reject any requested change to the Related status of an MPAN. | | √ | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-005 | Related MPANs: The Registration Service must automatically migrate Secondary MPANs alongside Primary MPANs. | | √ | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-007 | Once the Registration Service receives an IF-031, subsequent D0205's should be rejected. | | <i>√</i> | | Migration design covered through SIT. |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | |
|--|-----------------------|--------------------|-----------------------------------|---|--------------|-----------------------|---|
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-008 | Registration Service to remove MPAN from inclusion in the Legacy EES Extract upon successful completion of Forward Migration, indicated through the send of an IF-036. | ✓ ✓ | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-009 | If MPAN is Legacy and an IF-031 is sent using a non- Migration appointment code in the 'Service Provider Appointment Scenario' data item, this will be rejected using REG1094 validation rule. | | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-010 | If an IF-031 is rejected due to MPAN being Legacy and the IF-031 is sent using a non-Migration appointment code in the 'Service Provider Appointment Scenario' data item, an IF-032 will be sent back with specific Response Code and Response Message. | | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-011 | Related MPANs: If MPAN is a Secondary MPAN and an IF- 031 is sent using a Migration appointment code in the 'Service Provider Appointment Scenario' data item, the IF- 031 will be rejected using REG1039 validation rule. | | ✓ | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-012 | If an IF-031 is rejected due to MPAN being a Secondary MPAN and the IF-031 is sent using a Migration appointment code in the 'Service Provider Appointment Scenario' data item, an IF-032 will be sent back with specific Response Code and Response Message. | | × | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-013 | In the scenario that a Pending switch is already in place and a Migration is initiated, Registration Service must reject the IF-031 using REG1095 validation rule. | | | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-014 | If an IF-031 is rejected due to Pending switch already being in place, an IF-032 will be sent back with specific Response Code and Response Message. | | × | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-016 | Registration Service will not automatically migrate Export MPAN following successfully Migration of the Import MPAN; they will be migrated independently of one another. | ✓ ✓ | × | |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-017 | Registration Service to automatically appoint same MS and DS to Related MPANs post-Forward Migration. | | ✓ | + |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-018 | Registration Service to send the IF-036 at the Service Appointment effective from date. | | √ | + |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|---------------------------------------|
| | Migration design covered through SIT. |
| \checkmark | |
| ~ | |
| ✓ | |
| \checkmark | |
| ✓ | |
| \checkmark | |
| ✓ | |
| ✓ | |
| ✓ | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence |
|--|-----------------------|---------------------|-------------------------------------|---|--------------|-----------------------|
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-RS-019 | Once a Forward Migration is initiated (indicated through the send of an IF-031) or if a MPAN is MHHS, the Registration Service will not accept Legacy D flows for a given MPAN. | ✓ | ✓ |
| DNO (including Registration Service) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-LDSO-001 | LDSO to receive PUB-036 from Registration Service (via the DIP), containing MS appointment notification and MTD. | | ✓ |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-001 | In the scenario that a MHHS MPAN is switching to a Legacy Supplier, the Registration Service will only send the D0217 / D0260 to the incoming Supplier. No IF-002 will be sent. | | |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-002 | Related MPANs: The Registration Service will automatically initiate a Reverse Migration for all Secondary MPANs following receipt of a Pending Registration for a Secondary MPAN. | | ✓ |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-003 | Each time a Pending registration is received, Registration Service to consult ISD to determine qualification status of Supplier in respect to the status of the MPAN. | ✓ | 1 |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-004 | If a Pending registration prompts a Reverse Migration and the MPAN did not previously exist in Legacy arrangements, MPRS to populate default Legacy data. | ✓ | V |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-005 | If a Pending registration prompts a Reverse Migration and the MPAN previously existed in Legacy arrangements, MPRS to populate data items from the previous Legacy Registration. | ✓ ✓ | × |
| DNO (including Registration Service) | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-RS-008 | Once a Reverse Migration is initiated (indicated through the receipt of a Pending Registration) or if a MPAN is Legacy, the Registration Service will not accept DIP flows for a given MPAN. | ✓ | ✓ |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-RS-001 | In the case of Smart Meters only, Registration Service to include new Supplier details as part of IF-003 which is sent to outgoing MS (via the DIP). | ✓ | × |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-RS-003 | Although the Registration Service can process multiple D0205's, it will only use information from the last accepted D0205 before Secured Active processing at 1800 hours to generate an IF-003 at Secured Active acceptance. | ✓ | ✓ |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-RS-004 | D0205 batch processing to occur within the Registration Service on a frequent basis with batch processing running every 2 hours or more frequently, in the majority of cases. | ✓ | ✓ |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|---------------------------------------|
| ✓ | |
| √ | |
| \checkmark | |
| ✓ | |
| | |
| \checkmark | |
| ✓ | |
| ✓ | |
| √ | |
| | Migration design covered through SIT. |
| | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|--|------------------------------|--|--------------------------------------|---|-----------------------|-----------------------|---|---------------------------------------|
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-RS-005 | Registration Service to include identity of MOP in IF-003 if this data was provided in the D0205. | ✓ | × | ✓ | |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-RS-007 | As soon as an IF-003 is sent, marking the completion of a Reverse Migration, Registration Service to add MPAN back into the Legacy EES Extract. | ✓ | √ | | Migration design covered through SIT. |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-LDSO-001 | LDSO to receive PUB-003 from Registration Service (via the DIP), informing of MS de-appointment notification. | | √ | ✓ | |
| DNO (including Registration Service) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-LDSO-002 | The receipt of a PUB-003 will serve as the definitive statement to each service that a Reverse Migration has occurred. | ✓ | | | |
| DNO (including Registration Service) | Cancellation of Migration | Change of Agent | MHHS-Migration-Can- RS-001 | Registration Service cancels a CoA Migration and follows the BAU lapsed appointment process, issuing an IF-035. | ✓ | √ | ✓ | |
| DNO (including Registration Service) | Cancellation of Migration | Change of Agent | MHHS-Migration-Can- RS-002 | Registration Service cancels a CoA Migration and sends a D0209. | ✓ | × | ✓ | |
| DNO (including Registration Service) | Cancellation of Migration | Change of Supply | MHHS-Migration-Can- RS-003 | A Migration CoS is cancelled and the Registration Service follows the BAU lapsed appointment process, issuing an IF-035. | × | × | ✓ | |
| DNO (including Registration Service) | Cancellation of Migration | Change of Supply or Change of Agent | MHHS-Migration-Can- RS-005 | If subsequent IF-031's are received before the initial Migration completes, the original IF-031 should be lapsed and the IF-031 with the most recent timestamp should be used instead. | √ | ✓ | ✓ | |
| DNO (including Registration Service) | Cancellation of Migration | Change of Supply or Change of Agent | MHHS-Migration-Can- RS-006 | If MPAN state changes to terminated, an IF-035 would be sent which would cancel the Migration. | | ✓ | ~ | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-002 | Registration Service will need to check for incomplete Migrations and issue an IF-045 where a Supplier has only migrated either the MS or DS, to inform the Supplier that their Migration is incomplete. | | V | | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-003 | If a Forward Migration is underway or MPAN is already MHHS and a D0205 is sent, this will be rejected. A D0203 will be sent back with enumeration value 62 in the 'Rejection Reason Code' data item to specify the rejection reason. | | √ | ✓ | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence |
|--|-----------------------|--|-------------------------------|---|--------------|-----------------------|
| | Missellenseus | Change of | MULLIC Migration Min | If a Forward Migratian is underway or MDAN is already | | ✓ |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-004 | If a Forward Migration is underway or MPAN is already MHHS and a D0205 is sent, this will be rejected. A D0203 will be sent back with enumeration value 62 in the 'Rejection Reason Code' data item to specify the rejection reason. | | , v |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-005 | If a Forward Migration is underway or MPAN is already MHHS and a D0304 is sent, this will be rejected. A D0304 will be sent back with enumeration value Q in the 'MPAS D0304 Response Code' data item to specify the rejection reason. | | √ |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-006 | If a Forward Migration is underway or MPAN is already MHHS and a D0312 is sent, this will be rejected. A D0312 will be sent back with enumeration value AD in the 'MOP Flow Response Code' data item to specify the rejection reason. | | ✓ |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-007 | If a Forward Migration is underway or MPAN is already MHHS and a D0386 is sent, this will be rejected. A D0386 will be sent back with enumeration value Y in the 'Related MPAN Response Code' data item to specify the rejection reason. | | × |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-008 | If a Reverse Migration is underway or MPAN is Legacy and an IF-005 is sent, this will be rejected using REG1029 validation rule. | | × |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-009 | If an IF-005 is rejected due to MPAN either undergoing Reverse Migration or being Legacy, an IF-006 will be sent back with specific Response Code and Response Message. | | Ý |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-010 | If a Reverse Migration is underway or MPAN is Legacy and an IF-019 is sent, this will be rejected using REG1066 validation rule. | | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-011 | If an IF-019 is rejected due to MPAN either undergoing Reverse Migration or being Legacy, an IF-020 will be sent back with specific Response Code and Response Message. | | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-012 | If a Reverse Migration is underway or MPAN is Legacy and an IF-025 is sent, this will be rejected using REG1046 validation rule. | | √ |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-013 | If an IF-025 is rejected due to MPAN either undergoing Reverse Migration or being Legacy, an IF-026 will be sent back with specific Response Code and Response Message. | | Ý |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|------------------------------|
| √ | |
| ✓ | |
| ~ | |
| ✓ | |
| ~ | |
| ✓ | |
| √ | |
| √ | |
| ✓ | |
| | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | |
|--|-----------------------|--|---------------------------------|--|--------------|--------------|---|
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-014 | If a Reverse Migration is underway or MPAN is Legacy and an IF-038 is sent, this will be rejected using REG1075 validation rule. | | ✓ | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-015 | If an IF-038 is rejected due to MPAN either undergoing Reverse Migration or being Legacy, an IF-039 will be sent back with specific Response Code and Response Message. | | 1 | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-016 | If a Reverse Migration is underway or MPAN is Legacy and an IF-040 is sent, this will be rejected using Level 4 validation rule RCP1076. | | 1 | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-017 | If a Forward Migration is underway and an IF-019 is sent, this will be rejected using REG1067 validation rule. | | × | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-018 | If an IF-019 is rejected due to MPAN undergoing Forward Migration, an IF-020 will be sent back with specific Response Code and Response Message. | | √ | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-019 | Reverse Migration: Registration Service to adhere to the SLAs specified within the MHHS BAU Design as part of the various read/MTD sharing processes, unless explicitly called out. | | Ý | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-020 | When sending and processing DIP messages, Registration Service to adhere to the BAU MHHS Design SLAs, which will apply unchanged throughout the Migration period. | | Ý | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-021 | Registration Service to send all Legacy Data Flows via the DTN or via other agreed means. | | V | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- RS-022 | Registration Service to auto-align Import / Export MPANs which have been fully migrated but appointed to different Agents. | 1 | 1 | |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- LDSO-001 | When sending and processing DIP messages, LDSOs to adhere to the BAU MHHS Design SLAs, which will apply unchanged throughout the Migration period. | | ✓ | + |
| DNO (including Registration Service) | Miscellaneous | Change of Supply or Change of Agent | MHHS-Migration-Mis- LDSO-002 | LDSOs to send all Legacy Data Flows via the DTN or via other agreed means. | | ✓ | + |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|------------------------------|
| ✓ | |
| \checkmark | |
| \checkmark | |
| \checkmark | |
| ✓ | |
| | |
| | |
| | |
| ✓ | |
| | |
| | |

4.2.2 SUPPLIER

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SI Qu Te Ev |
|-------------|-----------------------|---------------------|------------------------------------|--|-----------------------|--------------|----------------------------------|
| Supplier | Forward Migration | Change of Supply | MHHS-Migration-CoS- SUP-001 | If the Supplier is Qualified and they inherit a MHHS MPAN, under no circumstances can the MPAN be reverted to Legacy as part of this particular switch. Reverse Migration is not permitted. | V | | |
| Supplier | Forward Migration | Change of Supply | MHHS-Migration-CoS- SUP-002 | If MPAN is Legacy and the incoming Supplier is MHHS Qualified, the incoming Supplier will make a decision whether to migrate MPAN or continue operating under Legacy arrangements. | V | | |
| Supplier | Forward Migration | Change of Supply | MHHS-Migration-CoS- SUP-003 | Supplier to check whether MPAN is MHHS or Legacy within EES. | \checkmark | | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-001 | Supplier to send IF-031 to Registration Service and include Migration-specific codes within the 'Service Provider Appointment Scenario' data item to make explicit the intent to migrate the MPAN. | | √ | ✓ ✓ |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-002 | In the case of CoA only, incumbent Supplier to send a D0151 to outgoing Meter Operator with specific value in 'Termination Reason' (J0279) data item. | | × | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-003 | In the case of CoS only, outgoing Supplier to send a D0151 to the outgoing Meter Operator with specific value in 'Termination Reason' (J0279) data item. | | ✓ | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-004 | Suppliers, as standard business process, should ensure the effective from date for CoA appointments is at least 1 day in the future from the transmission date of the IF-031. | ✓ | | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-005 | Suppliers to ensure they do not have open IF-031's which are left unresponded to by Agents beyond appointment effective from dates. Suppliers to chase Agents to respond with an IF- 034 with an Accept or Reject in this case. | V | | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-006 | For Traditional and HH Advanced CoS only, the D0151 that is sent from outgoing Supplier to outgoing MOP must have data item 'New Supplier ID' (J1194) populated. | | ✓ | |
| Supplier | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-SUP-007 | Supplier should send the D0151 using Legacy SLAs. | | \checkmark | + |
| Supplier | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-SUP-001 | If the Supplier is Qualified and they inherit a MHHS MPAN, under no circumstances can the MPAN be reverted to Legacy as part of this particular switch. Reverse Migration is not permitted. | √ | | |
| Supplier | Reverse Migration | Change of Supply | MHHS-RMigration- CoS-SUP-002 | Supplier to check whether MPAN is MHHS or Legacy within EES. | ✓ | | |
| | | | | | | | |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|---------------------------------------|
| | |
| | |
| | Migration design covered through SIT. |
| ✓ | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Migration design covered through SIT. |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | |
|-------------|------------------------------|--|-------------------------------------|--|-----------------------|-----------------------|---|
| Supplier | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-SUP-001 | New Supplier to appoint Legacy Agent by sending a D0155 to the new MOP. Will add an additional Group 318 to indicate a Reverse Migration is occurring. | | ✓ | |
| Supplier | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-SUP-002 | New Supplier to send D0205 to the Registration Service before Secured Active sync is received from CSS. | | ✓ | |
| Supplier | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-SUP-003 | The receipt of a PUB-003 will serve as the definitive statement to each service that a Reverse Migration has occurred. | ✓ | | |
| Supplier | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-SUP-004 | In the case that a D0205 is not sent to the Registration Service before the IF-003 is issued and MTDs must be transferred manually, Supplier to request their MOP manually provides the details of the incoming MOP and DC to the outgoing MS. | ✓ | | |
| Supplier | Cancellation of Migration | Change of Agent | MHHS-Migration-Can- SUP-001 | Supplier to send a D0151 with the switch date and specific enumerated value in Termination Reason (J0279) data item to existing MOP and DC. | | × | + |
| Supplier | Cancellation of Migration | Change of Supply | MHHS-Migration-Can- SUP-002 | The Supplier needs to be able to follow the standard process for informing their existing Agents that their appointment is still in place. | ✓ | √ | |
| Supplier | Miscellaneous | Change of Supply and Change of Agent | MHHS-Migration-Mis- SUP-001 | Suppliers will not be able to change Market Segment as part of a Migration. They must set Services that match the current Market Segment. | ✓ | × | |
| Supplier | Miscellaneous | All | MHHS-Migration-Mis- SUP-002 | All Suppliers will need to have made changes to their services and business processes by M11 to support the Migration of MPANs away from their portfolios when a Migration CoS occurs. | ✓ | | |
| Supplier | Miscellaneous | All | MHHS-Migration-Mis- SUP-003 | All Suppliers wishing to operate the Reverse Migration process (to Switch consumers whose MPAN is under the MHHS arrangements) must have made changes to their services and business processes by M11. | ✓ | | |
| Supplier | Miscellaneous | Change of Supply | MHHS-Migration-Mis- SUP-004 | Reverse Migration: Suppliers to adhere to the SLAs specified within the MHHS BAU Design as part of the various read/MTD sharing processes, unless explicitly called out. | | × | |
| Supplier | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- SUP-005 | When sending and processing DIP messages, Suppliers to adhere to the BAU MHHS Design SLAs, which will apply unchanged throughout the Migration period. | | ✓ | |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|---|
| ✓ | |
| | Migration design covered through SIT. |
| | |
| | |
| | |
| | |
| | |
| | |
| | Covered by the Pre-Qualification Submission for Non-SIT Participants. |
| | Covered by the Pre-Qualification Submission for Non-SIT Participants. |
| | |
| | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|-------------|-----------------------|---|--------------------------------|--|--------------|--------------|---|------------------------------|
| Supplier | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- SUP-006 | Suppliers to send all Legacy Data Flows via the DTN or via other agreed means. | | \checkmark | | |

4.2.3 MEM

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage | |
|--------------|-----------------------|--------------------|-------------------------------------|---|---|--------------|---|--|--|
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-001 | When outgoing MOP receives the D0170 from the Registration Service and the enumerated values within the 'Requested Action Code' data item indicate that either a Migration CoA or CoS is occurring, the MOP must operate specific Forward Migration processes which differs from Legacy processes. | the enumerated values within the data item indicate that either a occurring, the MOP must operate | | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-002 | When no meter is installed, no MTDs should be sent. | √ | √ | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-003 | Advanced only: Outgoing MOP to convert current MTDs, stored in a D0150 format, into a D0268. | | V | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-004 | In the case of NHH Advanced meters, outgoing MOP will need to convert D0149/D0150 and D0313 into D0268 format. | ✓ | V | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-005 | In the case of NHH Advanced meters, MOP may be required to undertake re-programming of the meter. | V | | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Forward Migration | Change of Agent | MHHS-Migration- CoA(MS)-MOP-006 | The MPID assigned to the MOP needs to refer to the MS and the MTDs should be sent to role code MS over the DTN. | ✓ | ✓ | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MOP-001 | New MOP to issue MTDs to incoming DC and incoming Supplier within 5 working days. | V | V | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MOP-002 | New MOP to operate Reverse Migration processes instead of Legacy processes when receiving D0155 with specific Group 318 values. | √ | V | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MOP-003 | If Supplier requests their MOP manually provide details of incoming MOP and DC to the outgoing MS, MOP to fulfil this request within 2 working days. | V | V | | Not required for new organisations entering the market as MHHS MEM only. | |

| Market Role | ole Migration Area | | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage | |
|--------------|------------------------------|---|---|--|--------------|--------------|--|--|--|
| MEM (Legacy) | Cancellation of Migration | Change of Agent | MHHS-Migration-Can- MOP-001 | The existing MOP will receive a D0155 from the incumbent Supplier when a Forward Migration CoA or CoS is cancelled. | | ~ | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Miscellaneous | All | MHHS-Migration-Mis- MOP-001 | All Agents will need to have made changes to their services and business processes by M11 to support the Migration of MPANs away from their portfolios when a Migration CoS occurs. | ✓ | | | Not required for new organisations entering the market as MHHS MEM only. Covered by the Pre- Qualification Submission for Non- SIT Participants. | |
| MEM (Legacy) | Miscellaneous | All | MHHS-Migration-Mis- MOP-002 | All Agents wishing to operate the Reverse Migration process (to Switch consumers whose MPAN is under the MHHS arrangements) must have made changes to their services and business processes by M11. | | | | Not required for new organisations entering the market as MHHS MEM only. Covered by the Pre- Qualification Submission for Non- SIT Participants. | |
| MEM (Legacy) | Miscellaneous | Change of Supply | MHHS-Migration-Mis- MOP-003 | Reverse Migration: MOPs to adhere to the SLAs specified within the MHHS BAU Design as part of the various MTD sharing processes, unless explicitly called out. | | V | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | | | When sending and processing DIP messages, MOPs to adhere to the BAU MHHS Design SLAs, which will apply unchanged throughout the Migration period. | | ✓ | | Not required for new organisations entering the market as MHHS MEM only. | | |
| MEM (Legacy) | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- MOP-005 | MOPs to send all Legacy Data Flows via the DTN or via other agreed means. | | ✓ | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (Legacy) | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- MOP-006 | If MTDs change after these have already been sent by the MOP to the MS, MOP to re-send new MTDs. | ✓ | | | Not required for new organisations entering the market as MHHS MEM only. | |
| MEM (MHHS) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MS-001 | In the case of Smart Meters only, 'Skeleton' D0150 is sent by outgoing MS to both new Supplier and incoming MOP with the following business rules: - All mandatory data items are populated - If unknown, the value of the Manufacturers Make and Type is noted as 'not recorded' - Meter Register Details is only populated with Smart Meter Cumulative Register. TOU registers are not included | | V | ✓ | | |
| MEM (MHHS) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MS-002 | Outgoing MS to adhere to BAU Design SLAs in the sending of MTDs to the new MOP. | | \checkmark | | | |
| MEM (MHHS) | Reverse Migration | Change of Agent | MHHS-RMigration- CoA(MS)-MS-003 | If outgoing MS is requested to transfer MTDs manually to incoming MOP and DC, they must action this within 5 working days. | V | \checkmark | | | |

| Market Role | Migration Scenario | Area | MHHS Reference | MHHS Requirement Description | QAD Question | PIT Evidence | |
|-------------|------------------------------|---|-------------------------------|--|-----------------------|-----------------------|---|
| MEM (MHHS) | Cancellation of Migration | Change of Agent | MHHS-Migration-Can- MS-001 | Registration Service cancels a CoA Migration and follows the BAU de-appointment process. | | ✓ | Ī |
| MEM (MHHS) | Cancellation of Migration | Change of Supply | MHHS-Migration-Can- MS-002 | Registration Service cancels a CoS Migration and follows the BAU de-appointment process. | | \checkmark | |
| MEM (MHHS) | Miscellaneous | All | MHHS-Migration-Mis- MS-001 | All Agents will need to have made changes to their services and business processes by M11 to support the Migration of MPANs away from their portfolios when a Migration CoS occurs. | ✓ | | |
| MEM (MHHS) | Miscellaneous | All | MHHS-Migration-Mis- MS-002 | All Agents wishing to operate the Reverse Migration process (to Switch consumers whose MPAN is under the MHHS arrangements) must have made changes to their services and business processes by M11. | ✓ | | |
| MEM (MHHS) | Miscellaneous | Change of Supply | MHHS-Migration-Mis- MS-003 | Reverse Migration: MS to adhere to the SLAs specified within the MHHS BAU Design as part of the various MTD sharing processes, unless explicitly called out. | | ✓ | |
| MEM (MHHS) | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- MS-004 | When sending and processing DIP messages, MS's to adhere to the BAU MHHS Design SLAs, which will apply unchanged throughout the Migration period. | | ✓ | |
| MEM (MHHS) | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- MS-005 | MS's to send all Legacy Data Flows via the DTN or via other agreed means. | | V | |
| MEM (MHHS) | Miscellaneous | Change of Agent or Change of Supply | MHHS-Migration-Mis- MS-006 | If MTDs change so MOP needs to re-send MTDs to MS, MS to supersede old MTDs with those that have been received most recently and use these details instead. | ✓ | ✓ | |

| SIT / Qualification Testing Evidence | Further comments on coverage |
|---|------------------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

4.3 NON-FUNCTIONAL REQUIREMENTS (NFR)

This document previously included a breakdown of MHHS Non-Functional Requirements by role based on MHHS-DEL2128 NFR Categorisation v2.0. However, the Non-Functional Requirements that were initially referenced in this Assessment Criteria will not be baselined within the REC Code, and will instead be baselined within the Data Integration Platform (DIP) Rules. As a result, the DIP Manager has defined a separate 'DIP Assessment Criteria' for MHHS Qualification based on the DIP Non-Functional Requirements, and will be under the governance of the DIP Change and Advisory Board (DCAB). This document may be updated in the future with any additional comments or requirements from the REC.

4.4 OPERATIONAL REQUIREMENTS

The following assessment criteria to cover MHHS Operational Requirements by role has been developed by the REC Code Manager based on MHHS-DEL2417 SIT Operational Approach and Plan v1.0 and MHHSP-OPC001 Operational Choreography v5.5 and was initially presented to REC PAB for approval on 25 June 2024. This may be updated as further information is published by the MHHS Programme.

4.4.1 ALL ROLES - DNO (INCLUDING REGISTRATION SERVICE), SUPPLIER AND MEM

The following requirements will be assessed on the basis of the review of QAD responses and supporting evidence provided by the Participant (including evidence from PIT). The REC Code Manager does not intend to require Participants to test these during Qualification Testing:

- Operational processes for system maintenance, capacity management and change management.
- Business Continuity and Disaster Recovery processes
- Service Management processes including error handling, fault resolution and escalation. •
- Security testing and processes for access management, etc. NB: The DIP Manager is responsible for assuring Participant readiness to operate DIP onboarding/offboarding procedure. The REC Code Manager will not conduct any • additional assurance and will rely on the DIP Manager's review.
- Operation of controls to ensure Code obligations are met, including monitoring, reporting, etc. •
- System availability and performance. Participants are expected to demonstrate evidence that they have tested and proven systems by deploying them in the end state architecture.

The following requirements will be assessed through the QAD review as well as through review of testing evidence from PIT and/or SIT/QT:

- Business requirements not covered in functional testing. For example, requirements for data management, reporting, etc.
- Operational choreography to ensure Participant systems are capable of processing and responding to market messages in line with Code requirements. These include:

| DNO | Supplier | МЕМ | Document reference | Section reference | Reference ID | Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|-----|----------|-----|---|-------------------|-----------------|---|-----------------|-----------------|---|---|
| | ~ | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_120 | The Supplier shall be able to process the IF-002 from the Registration Service and send the corresponding IF-031 within 60 minutes of receiving the IF-002. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ✓ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_130 | The Registration Service shall be able to process the IF-031 from the Supplier and send the corresponding IF-032 to Supplier and IF-033 to the Metering Service within 60 minutes of receiving the IF-031. | ✓ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | ~ | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_140 | The Supplier shall systematically process 90% of IF-032 from the Registration Service and respond with an IF-031 within 60 minutes with the residual being processed by the end of the following working day. | ✓ | ~ | | |
| | | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_150 | The Metering Service shall systematically process 90% of IF-033 from the Registration Service and respond with an IF-034 within 60 minutes with the residual being processed by the end of the following working day. | ✓ | ~ | | |

| | | | | | | | | | SIT / | |
|--------------|--------------|--------------|---|-------------------|-----------------|--|-----------------|-----------------|--------------------------------------|---|
| DNO | Supplier | МЕМ | Document reference | Section reference | Reference ID | Requirement Description | QAD Question | PIT Evidence | Qualification Testing Evidence | Further comments on coverage |
| √ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_160 | The Registration Service shall be able to process the IF-034 from the Metering Service and send the corresponding IF-035 within 60 minutes of receiving the IF-034. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_170A | The Losing and Gaining Metering Service shall be able to process the IF-035 from the Registration Service within 60 minutes of receipt. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.3 | OPC_170B | The Losing Metering Service shall be able to issue Advanced or Traditional MTDs to the Gaining Metering and Data Services within 120 minutes of receipt of the IF-035. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| √ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.4 | OPC_180 | On receipt of Secured Active Message at Gate Closure from CSS, the Registration Service shall issue all associated IF-035, IF-036 and IF-037 before 21:00. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | \checkmark | \checkmark | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.4 | OPC_190 | The Gaining Supplier and Metering Service shall process the inbound IF- 035 within 60 minutes of receipt. | \checkmark | \checkmark | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ~ | \checkmark | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.4 | OPC_200 | The DNO, and Gaining Supplier and Metering Service shall process the inbound IF-036 within 60 minutes of receipt. | ~ | ~ | \checkmark | In QT, testing may be combined with Functional Testing scenarios |
| | \checkmark | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 4.4 | OPC_210 | The Losing Supplier and Metering Service shall process the inbound IF- 037 within 60 minutes of receipt. | \checkmark | \checkmark | ✓ | In QT, testing may be combined with Functional Testing scenarios |
| | \checkmark | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_220 | The Supplier shall be able to process the IF-001 from the Registration Service within 60 minutes of receipt. | \checkmark | \checkmark | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_240 | The Metering Service shall be able to send notification of meter works and updated Meter Technical Details within 3 Working Days of completion of metering works. | ~ | ~ | | |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_250 | The DNO shall be able to send the all relevant market messages within 3 Working Days of completion of metering works by the DNO. | \checkmark | \checkmark | | |
| | | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_260 | The Metering Service shall be able to updated Meter Technical Details within 3 Working Days of completion of metering works by the DNO. | ~ | ~ | | |
| \checkmark | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_270 | The Registration Service shall be able to process the IF-005 from the Metering Service and send the corresponding IF-006 within 60 minutes of receiving the IF-005. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ~ | \checkmark | \checkmark | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_280 | The DNO, Supplier and Metering Service shall process the inbound IF- 006 within 60 minutes of receipt. | \checkmark | \checkmark | ✓ | In QT, testing may be combined with Functional Testing scenarios |

| DNO | Supplier | MEM | Document reference | Section reference | Reference ID | Requirement Description | QAD Question | PIT Evidence | SIT / Qualificatio Testing Evidence |
|-----|----------|-----|---|-------------------|-----------------|---|-----------------|-----------------|--|
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_290 | The Registration Service shall be able to process the Change of Energisation Status outcome (IF-007) from the Metering Service and send the corresponding IF-008 within 60 minutes of receiving the IF-007. | ~ | ~ | ~ |
| ~ | ~ | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_300 | The DNO, Supplier and Metering Service shall process the inbound IF- 008 within 60 minutes of receipt. | \checkmark | ~ | \checkmark |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_310A | During CSS De-Activation, all data received prior to 23:00hrs by the Registration Service will be made available to other parties (as applicable) by 06:00hrs the following Working Day. | V | ~ | |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_310B | During CSS De-Activation, all data received after 23:00hrs by the Registration Service will be made available to other parties (as applicable) by the second Working Day - as per existing REC ERDS Service Definition v1.1 | ~ | ~ | |
| ~ | ~ | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_320A | Following the notification of disconnection from the Registration Service, DNO, Supplier and Metering Service shall be able to make all data, received prior to 23:00hrs, available to other parties (as applicable) by 06:00hrs the following Working Day. | ~ | ~ | |
| × | ~ | 1 | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_320B | Following the notification of disconnection from the Registration Service, DNO, Supplier and Metering Service shall be able to make all data, received after 23:00hrs, available to other parties (as applicable) by the second Working Day - as per existing REC ERDS Service Definition v1.1 | 4 | ~ | |
| V | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_330 | The Registration Service shall be able to process the information received from LDSO and issue Notification of Registration Data Item Changes (IF- 018) within 60 minutes of receipt. | ✓ | ~ | ~ |
| | ~ | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_340 | The Supplier and Metering Service shall be able to process the Notification of Registration Data Item Changes (IF-018) from the Registration Service within 60 minutes of receipt. | ~ | ~ | ~ |
| | ~ | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_390B | The Supplier shall be able to request an update to consent granularity, SMSO or IHD information in Registration Service via a IF-025 within the day the condition has been identified. | 4 | ~ | |

| on | Further comments on coverage |
|----|---|
| | In QT, testing may be combined with Functional Testing scenarios |
| | In QT, testing may be combined with Functional Testing scenarios |
| | |
| | |
| | |
| | |
| | In QT, testing may be combined with Functional Testing scenarios |
| | In QT, testing may be combined with Functional Testing scenarios |
| | |

| DNO | Supplier | МЕМ | Document reference | Section reference | Reference ID | Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|--------------|--------------|--------------|---|-------------------|-----------------|---|-----------------|-----------------|---|---|
| | ~ | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_400 | The Supplier shall be able to request an update to other information in Registration Service via a IF-025 within 1 working day of becoming aware of change. | ~ | ~ | | |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_410 | The Registration Service shall be able to process the IF-025 from the Supplier and issue Notification of Registration Supplier Data Item Changes (IF-026) within 60 minutes of receipt. | V | V | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ~ | ~ | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_420 | The DNO, Supplier and Metering Service shall be able to process the inbound IF-026 within 60 minutes of receipt. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| | | √ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_430A | The Metering Service shall be able to issue the Customer Direct Contract Advisory to the Registration Service via IF-038 within 2 working days of the Direct Contract being agreed. | ~ | ~ | | |
| \checkmark | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_430B | The Registration Service shall be able to process the IF-038 and issue IF- 039 within 60 minutes of the receipt of IF-038. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| \checkmark | \checkmark | ~ | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_440 | The DNO, Supplier and Metering Service shall be able to process the inbound IF-039 within 60 minutes | \checkmark | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| V | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_480 | The Registration Service shall be able to process the connection type updates from the DNO and issue Notification of Change in Connection Type (IF-043) within 60 minutes of receipt of the update from the DNO. | V | 1 | | |
| \checkmark | ~ | \checkmark | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_490 | The DNO, Supplier and Metering Service shall be able to process the inbound IF-043 within 60 minutes of receipt. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_500A | On issue of a paired Connection Type Change (IF-043) and Meter Exchange (IF-006), the Registration Service will process the change of segment as deemed complete and issue an IF- 044 within 60 minutes of receipt of linked IF-043 and IF-006. | V | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| ~ | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_500B | The Registration Service will cancel Metering and Data Service appointments associated with Change of Market Segment if Change of Market Segment is not completed within 3 working days of prospective appointment start date. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |
| \checkmark | ~ | \checkmark | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_510 | The DNO, Supplier and Metering Service shall be able to process the inbound IF-044 within 60 minutes. | ✓ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |

| DNO | Supplier | МЕМ | Document reference | Section reference | Reference ID | Requirement Description | QAD Question | PIT Evidence | SIT / Qualification Testing Evidence | Further comments on coverage |
|-----|----------|-----|---|-------------------|-----------------|---|-----------------|-----------------|---|---|
| × | | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_520 | The Registration Service shall be able to identify missing Service Provider appointments or instances of misaligned Registration Data and send IF-045 in daily batches following the processing of Service Appointment queue after the Secured Active processing window. | ✓ | ✓ | | |
| | ~ | | MHHSP_OPC001_Operational_Choreography v5.5.pdf | 5 | OPC_530 | The Supplier shall be able to process IF-045 from the Registration Service, which notifies of an Agent appointment that is missing or of the invalid segment, within 60 minutes of receipt. | ~ | ~ | ~ | In QT, testing may be combined with Functional Testing scenarios |

Further information on MHHS Qualification can be found on the MHHS Programme website: https://mhhsprogramme.sharepoint.com/sites/Market-wideHalfHourlySettlement/SitePages/Qualification.aspx



To find out more please contact: REC Code Manager enquiries@recmanager.co.uk

