Version R1.x

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Appendix R

Common Test Scenarios Document

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1 Introduction

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1.1 Purpose

The purpose of this document is to:

- o Define the procedural steps to be undertaken by a Party wishing to complete User Entry Process Tests (UEPT) in accordance with SEC Section H14;
- o Set out the User Entry Process Tests that must be conducted by the Relevant Party with regard to each User Role that it may want to fulfil; and
- Describe the role and responsibilities with regard to the conduct of UEPT, including;
 - o Entry and exit requirements
 - o Defining Test Scripts
 - o Defining Test Data
 - o Planning the manner in which tests will be undertaken
 - Executing the tests
 - Reporting the results of those tests to the Data Communications Company (DCC) for approval.
- Where a Clause or a test relates specifically to SMETS1 it has been indicated in the document.

Additionally, this document sets out the above for a Testing Participant wishing to complete:

- Additive UEPT in respect of R2.0 Functionality; and
- Eligibility Testing in accordance with the User Testing Services Approach Document under the SVTAD for SMETS1.

1.2 Types of Testing Required

Clause 8 sets out the specific tests that are required to be performed:

- o For a new Party seeking to undertake User Entry Process Testing;
- For an existing User seeking to send Service Requests in respect of SM ETS1 Devices (Eligibility Testing); and
- For an existing User seeking to access R2.0 functionality (Additive <u>UEPT).</u>

1.3 Eligibility Testing

Where a Party has completed UEPT and is seeking to undertake Eligibility Testing, all clauses of this CTSD shall apply to the undertaking of Eligibility Testing except for the following and subject to the following variations:

- any part of a Clause that relates to SMETS2+ only or Additive UEPT only shall not apply;
- Except in clauses 8.1.4 8.1.26, as if references to UEPT were references to Eligibility Testing
- o Clause 5.1 (SMETS2+ Install and Commission) shall not apply;
- Clause 5.3 (Self Service Interface testing) and Clause 8.1.27 shall not apply;
- o Clause 5.4 (Additive UEPT for R2.0) shall not apply;
- o the first row of the Table 1 in Clause 5.4.2 shall be varied so that notification of intent to commence must be provided by Parties 50 Working Days prior to commencement of Eligibility Testing. Any notice of intent provided prior to this variation coming into effect shall be valid for the purposes of this Clause.

2 Scope

Section 8 <u>Annex C: Test Scenarios</u> of this document sets out the User Entry Process Tests as required by SEC Section H14-, the tests required for Additive UEPT (R2.0) and the tests required for Eligibility Testing (SMETS1).

3 Test Sequence

The Relevant Party may undertake the test scenarios that are set out in this document in any sequence. The testing of the constituent Service Requests that comprise the $\underline{\text{SM ETS2+}}$ Install and Commission test scenario shall be undertaken in a sequence that is set out in Section C clause 8.1.4-2.

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4 Test Certificates & Security Requirements

For the purposes of gaining IKI, SM KI and DCCKI Test Certificates Testing Participants should refer to the Enduring Testing Approach Document.

Each Testing Participant must comply with the Security Requirements set out in the Enduring Testing Approach Document.

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5 UEPT Procedure

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This section describes the procedure that must be completed in order for Parties to complete UEPT.

5.1 SMETS2+ Install and Commission

The <u>SMETS2+</u> Install and Commission test scenario <u>teststest</u> the Relevant Party's ability to send Service Requests to support the installation and commissioning of <u>SMETS2+</u> Devices, and to receive the consequential communications and alerts. Service Requests are set out in a specific order within the test <u>scenarioscenarios</u> for this purpose and the Relevant Party must execute Test Scripts in that order <u>withinset out in</u> the <u>Install and Commission</u> test scenario in Section C clause 8.1.4.2

5.2 DUIS Service Requests

Each Party is required to test Clause 8.1.5 sets out the Service Requests that a Party is required to have tested prior to it would be being eligible to send once qualified those Service Requests in thea particular User Role for which it is undertaking UEPT. The full list of Service Requests is set out in Section 8.1.4 8.1.5 (8.1.4 DUIS Matrix 8.1.4 DUIS Matrix 1.1 DUIS Matrix 1.1 Test Scenarios is set out in Section 8.1.1 Test Scenarios.

The Service Requests in clause 8.1.4 DUIS Matrix are categorised, for each User Role as follows:

- "Mandatory": these must be tested during the execution type of the test scenarios; or
- "N/A": there is no requirement testing that they apply to test during execution of the test scenarios.

5.3 Self-Service Interface (SSI)

For the purpose of UEPT a Relevant Party must produce and execute Test Scripts that demonstrate that the Relevant Party can access the SSI system to the extent permitted by its User Role and to the extent set out in the SSI Interface Specification as defined in SEC Section H8.15.

5.4 Completing Additive UEPT for Release 2.0

Testing Participants that have completed UEPT for R1.2 or R1.3 prior to the release of R2.0 functionality into the production environment have the option of executing R2.0 Service Requests by the following routes:

- Completing UEPT style testing through the formal process as stated in this document; or
- Successfully executing the R2.0 Service Requests Request in end to end Testing
 In accordance with the provision of the SEC Variation Testing Approach
 Document for Release 2.0.

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Testing Participants will submit evidence of successful execution of R2.0 Service Requests to the DCC. After DCC accepts this evidence, the Testing Participant will be Eligible Users of those Service Requests.

5.4.1 User Entry Process Tests Initiation

The Relevant Party and the DCC shall each use reasonable steps to comply with the timescales that are defined within the procedures in <u>Table 1</u>, <u>Table 2</u>, <u>Table 2</u> & <u>Table 3</u>.

In the event that the Relevant Party or the DCC does not comply with the timescales in <u>Table 1</u>Table 1, <u>Table 2Table 2</u> & <u>Table 3Table 3</u>, the DCC will reschedule subsequent activities to occur as soon as reasonably practicable and the DCC may reschedule that Party's test execution date.

5.4.2 Procedural Steps

The table below sets out the steps that must be undertaken during Initiation of the UEPT by both the DCC and the Relevant Party seeking to undertake UEPT and the timeframes within which such steps must be complete.

Ref	When	Action	From	То	Information Required	Method
5.4.2.1	60 Working Days (WD) prior to commencement of User Entry Process Tests	Notify DCC of intention to undertake User Entry Process Tests	Relevant Party	DCC	Party notification of intention to undertake testing, including Name of Party Confirmation that notification provided to the Code Administrator, User Role(s) Test start date Identity oftest manager and contact details	By email as attachment
5.4.2.2	Within 2 WD of receipt of the notification 5.4.2.1	Acknowledge request	DCC	Relevant Party	evant Party Confirmation of Party notification including: Name of Party User Roles and test start date DCC User Entry Process Tests test manager contact Date for User Entry Process Tests initiation meeting	

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Ref	When	Action	From	То	Information Required	Method
5.4.2.3	Within 5 WD of receipt of the notification 5.4.2.2	Conduct User Entry Process Tests Initiation Meeting	DCC	Relevant Party	DCC to provide guidance information on conducting User Entry Process Tests, including clarification oftest artefacts requirements and access to test environments	Meeting
5.4.2.4	In each week occurring within the period from 40 WD prior to start of testing	Provide progress report, demonstrating readiness to begin tests	Relevant Party	DCC	Test Readiness Report	By email as attachment
5.4.2.5	25 WD prior to start of testing	Provide test artefacts to support conduct of User Entry Process Tests	Relevant Party	DCC	Test Plan-incorporating the Test Schedule Requirements Traceability Matrix (see clause 06.1.8) Test Scripts (see clause 06.1.9) Test Data Plan (see clause 7)	By email as attachments
5.4.2.6	By 20 WD prior to start oftesting	DCC complete review of test artefacts	DCC	Relevant Party	Details regarding any deficiencies in the test artefacts-provided, and a revised startdate for testing, where necessary – continue from 5.4.2.7 Or confirmation that test artefacts accepted – continue from 5.4.2.9	By email as attachments
5.4.2.7	By 10 WD prior to start oftesting	Relevant Party to provide revised documents	Relevant Party	DCC	Revised documents	By email as attachments
5.4.2.8	By 7 WD prior to start oftesting	DCC complete review of revised test artefacts	DCC	Relevant Party	Details regarding any deficiencies in the test artefacts and a revised start date for testing provided where necessary – Regress and continue from 5.4.2.7 Or confirmation that test artefacts accepted – continue from 5.4.2.9	By email as attachments

Ref	When	Action	From	То	Information Required	Method
5.4.2.9	By 5-WD prior to start oftesting	Review Test Readiness Report and confirm the Entry Criteria for commencing testing in relation to the relevant User Role has been met Confirm Start Date and Test Schedule for execution of tests by Relevant Party	DCC Quality Gate meeting	Relevant Party	Source: Test Readiness Report, Test Schedule Output: Confirmation of -Relevant party readiness to proceed	Quality Gate review meeting Published via secure communications
	If there is any outstand under clause 5.4.2.	ding documentation presente	ed at the Quality G	ate Review the DC	CC shall assess it as part of its assessment of the entry criteria	

Table 1 UEPT Initiation: Procedural Steps

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5.4.3 UEPT Entry Criteria

Each Party wishing to undertake UEPT must comply with (and, where specified below, provide evidence of complying with) the following criteria prior to entry into UEPT:

- Prior to start of test execution, the DCC must confirm with the Code Administrator that the person requesting to commence testing has acceded to the SEC;
- The Relevant Party must have identified the User Roles for which it wishes to undertake UEPT;
- All relevant test artefacts (as agreed with the DCC and set out in clause 5.4.1.1.2.
 5.4.1.5, and 5.4.1.611) must have been produced by the Relevant Party and approved by the DCC. This includes:
 - o Party Notification of Intention to Undertake Testing
 - o Test Readiness Report
 - o Test Plan incorporating the Test Schedule
 - o Requirements Traceability Matrix
 - o Test Scripts
 - Test Data Plan;
- The Relevant Party has provided evidence to the DCC that a test environment capable of supporting the planned testing has been established and is available;
- The Relevant Party has provided evidence to the DCC that an appropriate level of resources are available to support the UEPT process; and
- The Relevant Party has provided confirmation that the Security Requirements set out in the Enduring Testing Approach Document have been met.

Pursuant to H14.15 where the DCC considers that the Relevant Party has not met the Entry Criteria for the User Role for which it is seeking to undertake testing, the DCC may:

- Prevent the Relevant Party from undertaking UEPT for a particular User Role
 until such time as the DCC is satisfied that the Relevant Party meets the Entry
 Criteria; and
- Reschedule the test start date for the Relevant Party for that particular User Role.
 In so doing, the DCC shall provide the earliest practicable alternative date; or
- Provide provisional approval of the Test Readiness Report (and approval to proceed) with an understanding that the outstanding documentation would be provided before the start of testing otherwise testing will not commence.

Where the DCC is not satisfied that a Relevant Party meets the Entry Criteria to commence testing, the Relevant Party may refer the matter to the Panel, pursuant to SEC Section H14.16. Where the Panel determines that the Relevant Party has met the entry criteria the DCC shall schedule the start of testing as soon as reasonably practical.

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5.4.4 User Entry Process Tests Execution

5.4.5 Procedural Steps

The table below sets out the steps that must be undertaken during test execution by either the DCC or Relevant Party seeking to undertake User Entry Process Tests and the timeframes within which such steps must be complete as set out in the Test Schedule which will be updated by the Relevant Party from time to time to reflect test progress.

Ref	When	Action	From	То	Information Required	Method
5.4.5.1	User Entry Process Tests Start Date	Confirm connectivity (of Relevant Party's test environment) to DCC test environment where this has not already happened as a result of earlier testing.	Relevant Party	DCC	Test Results achieved	As directed by DCC
5.4.5.2	In accordance with Test Schedule and completion of 5.4.5.1	Conduct User Entry Process Tests	Relevant Party		Approved test artefacts.	As per test artefacts
5.4.5.3	Daily Basis, or alternative schedule agreed with DCC	Provide progress report to DCC	Relevant Party	DCC	Test Execution Dashboard, including details oftesting issues identified	By email as attachment
54.54	User Entry Process Tests execution complete	Provide Test Completion report	Relevant Party	DCC	User Entry Process Tests completion report including: details of Test Scripts executed and testing issues resolved	By email as attachment

Table 2 UEPT Execution: Procedural Steps

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Note: Confirming connectivity is to verify that the Testing Participant's system can connect to the DCC test environment and that the Testing Participant's system is capable of successfully sending Service Requests to and receiving Acknowledgements from the DCC System. The DUIS Connectivity Test consists of up to three test scenarios: one for each test webservice available to the Testing Participant*. This comprises:

- Sending a DCC-only Service Request and receiving an Acknowledgement/Response;
- Sending a Critical pre-command and receiving the Transformed message; and
- Sending a Non-Critical Service Request and receiving an Acknowledgement.

This test does not need to be repeated as a subsequent part of UEPT.

* Note: If the Testing Participant would not have access to a particular webservice once it has qualified in the User Role for which it is undertaking UEPT the test will not be required.

5.4.6 UEPT Test Suspension/Resumption

During the execution of tests, the DCC or the Relevant Party each have the right to suspend testing where it considers that this is reasonably necessary.

Testing will only recommence when agreed by both the DCC and the Relevant Party.

5.4.7 Possible Suspension Criteria

Reasonable grounds for suspending testing may include any of the following:

- Application components are not available as scheduled;
- A- Testing Issue prevents further useful testing from proceeding;
- A significant percentage of planned Test Scripts for a given day fail, taking
 Testing Issue severity and volume of tests into consideration which would
 generate root cause analysis to be undertaken to establish the cause. Testing
 Issues trending should also be used to determine any recommendation. The
 outcome of any root cause analysis activity may result in testing being
 suspended;
- Test Scripts to be executed are in a "blocked" status due to an identified Testing Issue; or
- The Relevant Party has failed to comply with the procedural steps in Table 2 for executing UEPT.

5.4.8 Test Resumption Criteria

Where testing has been suspended, either the DCC or the Relevant Party as appropriate shall produce a test suspension report reflecting the cause of the suspension, and what actions are to be taken by whom and when in order for testing to resume – the Test Resumption Criteria. The DCC and the Relevant Party shall take reasonable steps to support each other to achieve the Test Resumption Criteria.

Testing will only resume once the DCC or Relevant Party has demonstrated to the other Party's satisfaction that the Test Resumption Criteria have been met.

5.4.9 Disputes regarding Test Suspension/Resumption

Any dispute regarding the suspension or resumption of testing shall be heard in accordance with Section H14.18A of the SEC. Where a dispute regarding the suspension/resumption of testing is made, testing will not resume whilst the dispute is being heard, or until the Test Resumption Criteria are met by the DCC or the Relevant Party.

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5.4.10 User Entry Process Tests Completion

5.4.11 Procedural Steps

The table below sets out the steps that must be undertaken during test completion by either the DCC or Relevant Party and the timeframes within which such steps must be complete.

Ref	When	Action	From	То	Information Required	Method	
5.4.11.1	Within 2 WD of receipt of the report in 5.4.5.4	Confirm receipt of notification of Test complete (Test Completion Report)	DCC	Relevant Party	User Entry Process Tests Test Completion Report	By email	4
5.4.11.2	Within 5 WD of receipt of the notification 5.4.11.1	DCC review completion report and confirm that User Entry Process Tests concluded or further testing required	DCC	Relevant Party	User Entry Process Tests completion report and supporting artefacts as requested by DCC set out in 5.4.5.4 refers	Quality Gate review meeting (see clause 05.4.13)	
5.4.11.3	Within 2 WD of successful quality gate review meeting	Confirm Test Complete	DCC	Relevant Party	Issue Test Completion Certificate (see clause 10)	By email as attachment	

Table 3 UEPT Completion: Procedural Steps

Notwithstanding 5.4.11.3 above pursuant to H14.19 the DCC shall confirm on request by the Relevant Party whether or not it considers that the Relevant Party has successfully completed UEPT.

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5.4.12 UEPT Exit Criteria

The following Exit Criteria are to be met prior to a Relevant Party's completion of and exit from UEPT:

- All Test have been executed and results have been documented by the Relevant
 Party and evidence captured in the Relevant Party's Test Management Tool and
 available to be provided to the DCC;
- All testing issues identified during a Relevant Party's test execution have been recorded in the Test Management Tool. Of those Testing Issues either:
 - the Testing Issue generated by the Relevant Party as a result of its UEPT has been fixed and verified by retest; or
 - Where outstanding, the Testing Issue has been reviewed and documented, and been included as part of a remediation plan that outlines the next steps to be taken, including estimated timescales required to resolve each of their outstanding Testing Issues. The remediation plan must be agreed by the DCC;
- any outstanding Testing Issue count must not exceed those defined in <u>Table</u>
 4<u>Table</u> 4, below:

Severity***	Threshold for Outstanding Testing Issues
1	0
2	0
3	5*
4	10*
5	As agreed**

Table 4 Testing Issue Threshold

- A Test Completion Report has been created by the Relevant Party and approved by the DCC;
- A Quality Gate Review meeting has been held between the Relevant Party and the DCC, with progress approved by the DCC.

Upon completion of the criteria above a Test Completion Certificate will be issued to the Relevant Party by the DCC. Where test completion criteria have not been met the Relevant Party will need to reschedule testing with the DCC subject to the availability of the DCC test environment.

Pursuant to SEC Section H14.21, where the DCC considers that a Party has not met the Exit Criteria, that Party may refer the matter to the Panel.

^{* -} Work around and remediation plan to be agreed with the DCC for each issue that ensures no impact on other Users or the DCC

^{** -} As agreed with the DCC,

^{*** -} Refer to Appendix G for definitions of Issue severities.

Where a dispute regarding whether a Party has met the UEPT Exit Criteria occurs, the UEPT completion process will not resume whilst the dispute is being heard by the Panel, or until the UEPT Exit Criteria are met by the Relevant Party.

Where the Panel decided that the Exit Criteria have been met the DCC shall supply a Test Completion Certificate to the Relevant Party.

5.4.13 Quality Gate Review

A final decision regarding whether a Party has successfully completed UEPT will be provided to the Relevant Party no later than 2 Working Days after the date on which quality gate review meeting is held.

In addition, pursuant to H14.19, the DCC shall confirm on request by the Relevant Party whether or not it considers that the Relevant Party has successfully completed UEPT.

5.4.14 UEPT Test Completion Certificate

The UEPT Test Completion Certificate shall be issued by the DCC to the Relevant Party for a specified User Role once the quality gate review has concluded that the Relevant Party has met the UEPT Exit Criteria for the specified User Role.

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6 Annex A: Test Artefacts

The DCC and each Relevant Party will be required to produce and maintain a number of documents, dashboards and reports during the testing lifecycle as depicted in Figure 1 Test Documentation Hierarchy, below.

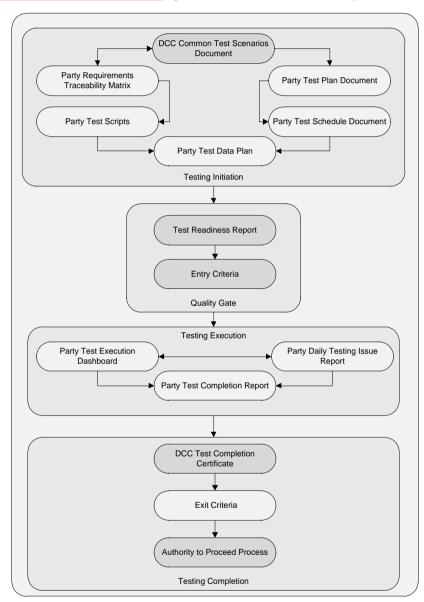


Figure 1 Test Documentation Hierarchy

6.1.1 Party Documents & Reports

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6.1.2 Test Preparation Document Set

The following documentation must be produced by a Relevant Party before Testing commences:

- Test Plan including Test Schedule;
- Test Data (see clause 7);
- Requirements Traceability Matrix (see clause 06.1.8); and
- Test Scripts (see clause <u>06.1.9</u>).

6.1.3 Reports and Dashboard

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Table 5 Test Stage Supporting Documentation Set Table 5 Test Stage Supporting Documentation Set sets out the Reports and Dashboard that a Party must produce to demonstrate progress in preparing for and executing testing.

6.1.4 Test Readiness Report (TRR)

The Test Readiness Report shall be produced by the Relevant Party.

A Test Readiness Report template shall be provided by the DCC.

The report must be provided to the DCC by the Relevant Party on a weekly basis, commencing 40 Working Days prior to the start of Testing and must indicate progress against the following criteria:

- Previous Test Stage Exit Criteria (if appropriate);
- Relevant Party Test tool selected and available;
- Relevant Party key RAID (Risk, Assumption, Issue and Dependency) items, including, for each key item that has the potential to cause significant disruption to the commencement and / or completion of User Entry Process Tests:
 - Priority (High, Medium, Low)
 - Severities of open is sues
 - Action taken
 - Target close date
 - Overall RAG status (based on progress to plan)
- Relevant Party Test Plan produced;
- Relevant Party Test Schedule produced;

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- Relevant Party Requirements Traceability Matrix % complete to date
 - Total numbers of requirements identified

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- Actual number of testable requirements in progress
- Actual number of testable requirements not started

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- Actual number of requirements deemed not testable;
- Relevant Party Test Script % complete to date to reflect the following breakdown
 - Planned number of Test Scripts

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- Actual number of Test Scripts produced to date
- Actual number of Test Scripts in progress
- Actual number of Test Scripts not started;
- % Test Data readiness by Relevant Party against planned Test Scripts;
- Readiness of Relevant Party test resources and technical (support) resource;
- Relevant Party test environment readiness to include
 - User Roles identified,

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- Environment configuration approved as suitable to include
 - Breakdown and description of hardware.

6.1.5 Test Plan

The Test Plan shall be produced by the Relevant Party.

A Test Plan template shall be provided by the DCC.

The report must be provided to the DCC by the Relevant Party 25 Working Days prior to the start of Testing and will include:

- Scope of testing;
- Any items out of scope of testing;
- Features to be tested (referencing relevant sub-clauses within clause 8 of the Common Test Scenarios Document);
- Approach to testing;
- Test Schedule to include tests planned for each day;

Resources

6.1.6 Test Execution Dashboard

The Test Execution Dashboard will identify the Relevant Party's progress when executing testing and will be provided in a reasonable format specified by the DCC. The dashboard must be updated by the Party and provided to the DCC on a daily basis once testing commences, or per an alternative schedule agreed with the DCC.

The dashboard will include the following details:

- Name of Relevant Party under test;
- Relevant Party Location of testing;
- Date and time test execution dashboard updated by Relevant Party;
- Total number of tests Relevant Party scheduled for execution-and projected as a test execution glide path;
- Actual number of tests executed by Relevant Party (by testrun) to date reflected
 on an incremental daily count including Test Results (passed, failed, blocked,
 not run, ready for test);
- Relevant Party summary of Testing Issues to include;
 - Total number of Testing Issues generated
 - Counts by status Open, Fixed, Closed etc
 - Counts by Severity 1, 2, 3 etc
- Relevant Party Regression Test execution results;
- Relevant Party summary progress against Exit Criteria;
- Relevant Party Top 5 risks and issues to include any environment concems;
 and
- Relevant Party Overall RAG status (based on progress against test schedule).

6.1.7 Test Completion Report

The Relevant Party shall produce a Test Completion Report and submit the draft to the DCC 10 Working Day's prior to the test completion date. The finalised version of the Test Completion Report will be submitted to the DCC on completion of each test execution activity.

A Test Completion Report template shall be provided by the DCC to ensure that all Party reports contain the same level of detail. The report will include:

• Relevant Party Test approach and Scope of Testing Undertaken;

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- Details of updates made to the test environment during the course of testing;
- Relevant Party Summary of the Test Results
 - Total number of tests originally scheduled for execution
 - Total number of tests executed
 - Displayed by test run to include
 - Overall results achieved
 - Passed, Failed, Blocked, Not Run;

Any tests not run, blocked or not successfully executed must be supported by an explanation.

- Relevant Party Summary of Testing Issues
 - Total number of Testing Issues generated
 - Total counts by status Open, Fixed, Closed etc
 - Total counts by Severity.

6.1.8 Test Traceability

To provide the DCC with a sufficient level of test assurance, all tests executed by each Party undertaking UEPT will be required to demonstrate full traceability as follows:

- Each requirement captured in the Requirements Traceability Matrix that can be tested during UEPT must be linked to one or many Test Scripts;
- Each Test Script executed must be reflected in one or many test execution cycles:
- A record of each test executed and the results of that test;
- Where an executed test generates a Testing Issue;
 - Each Testing Issue must be linked to the test that generated the Testing Issue
 - o Any subsequent retesting to validate a fix of Testing Issue carried out must be linked to the Testing Issue
 - Each retest executed must reflect a result achieved as a result of execution.

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6.1.9 Test Scripts

A Relevant Party shall develop its own test scripts and demonstrate how those test scripts meet the requirements in accordance with SEC Section H14.17.

	Test Stage Supporting Documentation Set							
No	Phase	Description	DCC Responsibility	Party Responsibility	When/Frequency	Entry Criteria	Exit C riteria	Sign-Off Authority
1	Initiation	Test Plan including Test S chedule	Review and Approve	Produce and maintain	Test Stage Entry Quality Gate and u pdated during execution as required in preparation for Test Stage Exit Quality Gate	Y	Y	DCC
2	Initiation	Requirements Traceability Matrix	Review and Approve	Produce and maintain	Test Stage Entry Quality Gate and u pdated during execution as required in preparation for Test Stage Exit Quality Gate	Y	Y	DCC
3	Initiation	Test Scripts	Review and Approve	Produce and maintain	Test Stage En try Quality Gate and u pdated during execution as required in preparation for Test Stage Exit Quality Gate	Y	Y	DCC
4	Initiation	Test Data Plan	Review	Produce and maintain	Test Stage Entry Quality Gate and u pdated during execution as required in preparation for Test Stage Exit Quality Gate	Y	N	DCC
5	Initiation	Test Readiness Review Report	Provide Template Review and Approve	Produce and maintain	Test Stage Entry Quality Gate	Y	N	DCC
6	Initiation	Test Stage Entry Criteria (part of final Test Readiness Report)	Review and Approve	Produce	Test Stage Entry Quality Gate	Y	N	DCC

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	Test Stage Supporting Documentation Set							
7	Execution	Test Execution Dashboard	Review	Produce and maintain	Produced and updated daily (or other scheduled agreed with the DCC) during execution in preparation for Test Stage Exit Quality Gate	N	Y	DCC
8	Execution	Test Completion Report	Provide Template Review and Approve	Produce and file	Test Stage during execution in preparation for Test Stage Exit Quality Gate	N	Y	DCC
9	Execution	Test Stage Quality Gate Exit Criteria (part of Test Completion Report)	Review and Approve	Produce	Test Stage Exit Quality Gate	N	Y	DCC

Table 5 Test Stage Supporting Documentation Set

Once these steps are complete the DCC will issue a Test Completion Certificate (see clause 10).

7 Annex B: Test Data

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A Test Data Plan will be developed by the Relevant Party and coordinated with DCC in accordance with clause 5.4.1.5. The DCC and Relevant Party will be responsible for set up of Test Data on their respective system which must be defined in the Relevant Party Test Data Plan. The Data defined will be based on the following principles:

- No personal data which identifies any individual will be used for testing, but anonymised live Data is acceptable;
- Test Data will be representative of data likely to be used in the live environment once the Relevant Party is eligible to send the Service Request in the relevant User Role;
- A full range of Test Data covering all services to be tested will be used.

Co-ordination/Segregation of data usage between Relevant Parties testing during the same period will be managed by the DCC.

Table 6 Test Data Responsibilities below outlines the responsibilities in regard to preparing Test Data required to support UEPT.

Deliverable / Activity	Accountable / Responsible	Support
Test Data Preparation	DCC Licensee, Relevant Party	DSP

Table 6 Test Data Responsibilities

8 Annex C: Test Scenarios

8.1.1 Test Scenarios

The following sub clauses contain the test scenarios that reflect the Service Requests applicable to each prospective User Role.

8.1.2 SMETS2+ Install and Commission

ID	IC01*		
Title:	Install & Commission the following devices, when the Relevant Party will be supplying Gas: Communication Hub specified for Region	4	
Prerequisite:	Gas Meter Relevant Party holds a Gas Supply Licence Connection to DCC Test Laboratory Appropriate data Available Meter and Communication Hubs SM WAN Available		
	Appropriate Security Keys have been installed in the available metering equipment Required security credentials are present on the Communications Hub		

^{*} Note: the scope of this test is intentionally limited to only those activities where there is a prescribed order for the submission Service Requests and where failure to follow this order will lead to a failed installation.

Steps	Description	Objective	Actions	Acceptance Criteria
1	Pre-Installation	Notify DCC of Device ID and device details Ascertain the security credentials are installed on the devices	to support Pre-Installation:	The DCC has received notification of the Device ID Acknowledgement received for relevant Service Request sent

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Steps	Description	Objective	Actions	Acceptance Criteria
2	White List Device	Identify the Communication Hub to Meter device relationship by: Add the HAN device to HAN device log, by including the MAC addresses and the install codes	Complete the following Service Request to support white listing ofdevice: DUIS SR 8.11-Update HAN Device Log * (n) devices	Service Responses received for all Service Requests sent Service User will receive the following Alert code when the device has been added to the white list: DCC Alert N24
3	Commission	 Send response to commission device service request to Service User Update inventory status Configure the Meter: Set Time 	Complete the following Service Request to support device commission: • DUIS SR 8.1.1 - Commission Device * (n) devices	Acknowledgement received for all Service Requests sent
4	Commission Gas Proxy	To hand over Gas Proxy Function from DSP to the Relevant Party, complete the following: Send Service Request to change credentials to Relevant Party's credentials Ensure Relevant Party can update other credentials as required	Complete the following Service Request to support Commission Gas Proxy Function: • DUIS SR 6.21 – Request Handover of DCC Controlled Device * (n) devices	Relevant Party receives an Service Response to confirm the credentials have been changed from the DSP to Relevant Party
5	Join Device	Join Gas meter to GPF	The following Service Requests have been designed to support joining HAN devices: DUIS SR 8.7.2 – Join Service (Non-Critical) Note: The following DUIS SRs can be sent during this step, should they not have been sent during steps 1 to 3: DUIS SR 12.2 – Device Pre-notification * (n) devices DUIS SR 8.11- Update HAN Device Log * (n) devices	Relevant Party receives acknowledgement to confirm the HAN devices are joined Acknowledgement received for all Service Requests sent
6	Set MPxN on GSME for display purposes	Set MPxN on GSME for display purposes	Complete the following Service Request to support setting the MPxN on the GSME for display purposes DUIS SR 6.20.1 – Set Device Configuration (Import MPxN)	Relevant party receives a service response to confirm successful execution of the Service Request.

ID	IC02*	
Title:	Install & Commission the following devices, when the Relevant Party will be supplying Electricity:	
	Communication Hub specified for Region	
	Electricity Meter	
	Relevant Party holds an Electricity Supply Licence	
	Connection to DCC Test Laboratory	
	A ppropriate data	
	A vailable Meter and Communication Hubs	
	SM WAN Available	
	Appropriate Security Keys have been installed in the available metering equipment	
	Required security credentials are present on the Communications Hub	

^{*} Note: the scope of this test is intentionally limited to only those activities where there is a prescribed order for the submission Service Requests and where failure to follow this order will lead to a failed installation.

Steps	Description	Objective	Actions	Acceptance Criteria
1	Pre-Installation	Notify DCC of Device ID and device details Ascertain the security credentials are installed on the devices	The following Service Requests and Self-Service Interface Use Cases have been designed to support Pre-Installation: DUIS SR 12.2 – Device Pre-notification * (n) devices	The DCC has received notification of the Device ID Acknowledgement received for relevant Service Requests sent
2	WhiteListDevice	Identify the Communication Hub to Meter device relationship by: Add the HAN device to HAN device log, by including the MAC addresses and the install codes	Complete the following Service Request to support white listing ofdevice: DUIS SR 8.11 - Update HAN Device Log * (n) devices	Service Responses received for all Service Requests sent Service User will receive the following Alert code when the device has been added to the white list: DCC Alert N24

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Steps	Description	Objective	Actions	Acceptance Criteria				
3	Commission	Send response to commission device Service Request to Service User Update Smart Metering Inventory status Configure the Meter: O Set Time	Complete the following Service Request to support device commission: • DUIS SR 8.1.1 – Commission Device * (n) devices	Acknowledgement received for all Service Requests sent				
4	Set MPxN on ESME for display purposes	Set MPxN on ESME for display purposes	Complete the following Service Request to support setting the MPxN on the ESME for display purposes DUIS SR 6.20.1 – Set Device Configuration (Import MPxN)	Relevant party receives a service response to confirm successful execution of the Service Request.				

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8.1.3 DUIS

The scenarios outlined in this clause are the high—level Test scenarios which are supported by the DUIS Test Matrix in clause 8.1.45. For example, Scenario SR01 refers to all Tests mandated in column CV1 – On Demand in the DUIS Matrix.

ID	SR01	4
Title:	NonCritical Command with a command variant of CV1 and a Mode of Operation of On Demand	
Scenario	Exercise Non-Critical On Demand Service Requests using Command Variant CV1 applicable to the User Role	

ID	SR02
Title:	NonCritical Command with a command variant of CV1 and a Mode of Operation of Future Dated (either DCC or Device, as determined by DUIS)
Scenario	Exercise Non-Critical Future Dated Service Requests using Command Variant CV1 applicable to the User Role

ID	SR03	
Title:	NonCritical Command with a command variant of CV2 and a Mode of Operation of On Demand	
Scenario	Exercise Non-Critical On Demand Service Requests using Command Variant CV2 applicable to the User Role	

ID	SR04	Ī
Title:	NonCritical Command with a command variant of CV3 and a Mode of Operation of On Demand	∢
Scenario	Exercise Non-Critical On Demand Service Requests using Command Variant CV3 applicable to the User Role	

ID	SR05	4
Title:	Critical Command with a command variant of CV4 and a Mode of Operation of On Demand	
Scenario	Exercise Critical On Demand Service Requests using Command Variant CV4 applicable to the User Role	

ID	SR06	4	Formatted Table
Title:	Critical Command with a command variant of CV5 and a Mode of Operation of On Demand		
Scenario	Exercise Critical On Demand Service Requests using Command Variant CV5 applicable to the User Role		
ID	SR07	4	Formatted Table
Title:	Critical Command with a command variant of CV5 and a Mode of Operation of Future Dated -(either DCC or Device, as determined by DUIS)		
Scenario	Exercise Critical Future Dated Service Request using Command Variant CV5 applicable to the User Role		
ID	SR08	4	Formatted Table
Title:	Critical Command with a command variant of CV6 and a Mode of Operation of On Demand		
Scenario	Exercise Critical On Demand Service Request using Command Variant CV6 applicable to the User Role		
ID	SR09	4	Formatted Table
Title:	Critical Command with a command variant of CV7 and a Mode of Operation of On Demand		
Scenario	Exercise Critical On Demand Service Request using Command Variant CV7 applicable to the User Role		
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ID	SR010	4	
ID Title:	SR010 Service Requests with a command variant of CV8		

8.1.4 DUIS Matrix

New User

The following User Role tables reflect Mandatory the test Service Requests (highlighted in Red) that must be executed during UEPT by a new Party seeking to undertake UEPT. The tests are those indicated as 'Mandatory, Mandatory SMETS1 and Mandatory SMETS2+' in the CV column, for which they must be executed for each specific User Role.

The Mandatory Those indicated as 'Mandatory' must be executed in respect of a SMETS1 Device and a SMETS2+ Device. Those indicated as 'Mandatory SMETS1' must be executed in respect of a SMETS1 Device. Those indicated as 'Mandatory SMETS2+' must be executed in respect of a SMETS2+ Device. Where the test Service Requests that must be executed against a Dual Band Comms Hub during UEPT for each specific User Role have been highlighted in Blue are indicated as N/A there is no requirement to test during execution of the test scenarios.

The Mandatory-Existing User seeking to send Service Request to SMETS1 Devices

The Service Request tests that must be executed if a Testing Participant has already completed UEPT and is seeking to send Service Requests to SMETS 1 Devices in a particular User Role (Eligibility Testing), as set out in clause 4.3 of the UTSAD, are those indicated as 'Mandatory or Mandatory SMETS1' in the CV column for the relevant User Role. Those indicated as 'Mandatory' must only be executed in respect of a SMETS1 Device and those indicated as 'Mandatory SMETS1' must only be executed in respect of a SMETS1 Device. Where the test Service Requests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Existing User seeking to send Service Requests that have been updated for access R2.0 are highlighted in Green and must be executed duringfunctionality

For SMETS2+ when executing Additive UEPT for each specific User Role.

The Mandatory R2.0, the Service Requests that must be executed for SMETS1 are as listed below and need to be executed where indicated by a 'Y'User Role and 'Mandatory' or 'Mandatory SMETS2+' in the CV column titled SMETS1 for each specific User Role are set out in Clause 8.1.4 to 8.1.10 below:

- When executing SMETS1-Service Requests the rules in the SMETS1 CV submission rules table will apply to identify the for Single Band Comms Hub 2.1, 6.2.2, 6.2.3, 6.2.10, 6.5, 6.8, 6.15.1, 6.21, 6.22, 6.23, 6.26, 6.27, 14.1
- Service Requests for Dual Band Comms Hub 6.28, 6.29, 6.30, 6.31, 6.32

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• Service Requests which are not mandatory command variants to but can be executed for SMETS1 Service Requests by a User for that User Role if they wish are indicated by 'N/A' in the DUIS Matrix.

SMETS 1 CV submission rules

Those indicated as 'Mandatory' must only be executed in respect of a SMETS2+ Device.

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8.1.5 Import Supplier (IS) User Role

CVV	'alue	Con	ıman	d Variant l	Description	1								Ins
4Service Reference	Non-Service Reference Variant Guitte Service Request to be sent to a SMETRI Device vie	<u>Name</u> ▲	Critten	CV1 - On Demand	CV1 - Future Dated	CV2 - On Demand	CV3 - On Demand	CV4 - On Demand	CV5 - On Demand	CV5 - Future Dated	CV6 - On Demand	CV7 - Cn Demand	CV8 – DCC Only A	Inse Inse Inse Inse Inse
1.1	<u>1.1.1</u>	Update Import Tariff (Primary Element)	Y	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Ins
<u>1.1</u>	1.1.2	Update Import Tariff (Secondary Element)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Fon
<u>1.2</u>	1.2.1	Update Price (Primary Element)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Inse
12	1.22	Update Price (Secondary Element)	¥	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	sRV 2.2: SRV specific redefinition for SMETS1 Devices send as CV2; otherwise Mandatory CV3 should be submitted as CV1 for SMETS1 Mandatry SMETS 2	<u>N/A</u>	Mandatory SMETS-2	<u>N/A</u> .	<u>N/A</u>	N/A	Inso Inso Inso Inso Inso Inso Inso Inso
<u>1.5</u>	<u>1.5</u>	Update Meter Balance	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	Ins
<u>1.6</u>	<u>1.6</u>	Update Payment Mode	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Mandatory</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Inso Inso
<u>1.7</u>	<u>1.7</u>	Reset Tariff Block Counter Matrix	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	Inse
32.1	2.1	Update Prepay Configuration	¥	N/A	<u>N/A</u>	N/A	N/A	Mandatory	SRV 2.2: SRV- specific	N/A	N/A	<u>N/A</u>	N/A	Fon

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SEC – Appendix R

										redefinition for SMETS1 Devices send as CV3; otherwise Mandatory CV3 should be submitted as CV1 for SMETS1 Mandatry SMETS 2,					[5.	ormatted: Font: 8 pt, Font color: Black
Π	<u>2.2</u>	2.2	Top Up Device	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	IS	Simulation of the color black
	<u>2.3</u>	<u>2.3</u>	Update Debt	Y	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
	<u>2.5</u>	<u>2.5</u>	Activate Emergency Credit	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
Ī	<u>3.1</u>	<u>3.1</u>	Display Message	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
Π	<u>3.2</u>	<u>3.2</u>	Restrict Access For Change Of Tenancy	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
	<u>3.3</u>	<u>3.3</u>	Clear Event Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
	<u>3.4</u>	<u>3.4</u>	Update Supplier Name	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
П	<u>3.5</u>	<u>3.5</u>	Disable Privacy PIN	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
Π	4.1	4.1.1	Read Instantaneous Import Registers	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
	4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
I	4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
ı	4.3	4.3	Read Instantaneous Prepay Values	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	

<u>4.4</u>	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.4	<u>4.4.4</u>	Retrieve Billing Data Log (Payment Based Debt Payments)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.6	4.6.1	Retrieve Import Daily Read Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.8	4.8.1	Read Active Import Profile Data	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.10	<u>4.10</u>	Read Network Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.11	<u>4.11.1</u>	Read Tariff (Primary Element)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.11	4.11.2	Read Tariff (Secondary Element)	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.13	4.13	Read Prepayment Configuration	N	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.14	4.14	Read Prepayment Daily Read Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.15	4.15	Read Load Limit Data	<u>N</u>	Mandatory	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.16	4.16	Read Active Power Import	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.17	4.17	Retrieve Daily Consumption Log	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
4.18	4.18	Read Meter Balance	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	<u>IS</u>

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<u>5.1</u>	<u>5.1</u>	Create Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>IS</u>
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	Mandatory	<u>IS</u>
<u>5.3</u>	<u>5.3</u>	Delete Schedule	N	N/A	N/A	N/A	N/A	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	Mandatory	<u>IS</u>
<u>6.2</u>	6.2.1	Read Device Configuration (Voltage)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.2	Read Device Configuration (Randomisation)	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.3	Read Device Configuration (Billing Calendar)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.4	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.9	Read Device Configuration (Payment Mode)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.2</u>	6.2.10	Read Device Configuration (Event Alert Behaviours)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.4</u>	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Mandatory</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.4</u>	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	N	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.8</u>	<u>6.8</u>	Update Device Configuration (Billing Calendar)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.11</u>	<u>6.11</u>	Synchronise Clock	Y	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Mandatory</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>

6.12	<u>6.12</u>	Update Device Configuration (Instantaneous Power Threshold)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.13</u>	<u>6.13</u>	Read Event Or Security Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>1S</u>
<u>6.14</u>	<u>6.14.1</u>	Update Device Configuration (Auxiliary Load Control Description)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.14</u>	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
<u>6.15</u>	<u>6.15.1</u>	Update Security Credentials (KRP)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Formatted: Centered, Right: 0 cm, Space Before: 0 pt,
<u>6.15</u>	6.15.2	Update Security Credentials (Device)	Y	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	After: 0 pt, Position: Horizontal: Left, Relative to: Column, Vertical: 0 cm, Relative to: Paragraph, Horizontal: 0.32 cm, Wrap Around
<u>6.17</u>	6.17	Issue Security Credentials	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Formatted: Font: 8 pt, Bold, Font color: Black
6.20	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Formatted: Centered, Right: 0 cm, Space Before: 0 pt, After: 0 pt, Position: Horizontal: Left, Relative to: Column, Vertical: 0 cm, Relative to: Paragraph, Horizontal: 0.32 cm,
6.21	6.21	Request Handover Of DCC Controlled	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Wrap Around Inserted Cells
6.22	6.22	<u>Device</u> <u>Configure Alert</u>	N	Mandatory	N/A	N/A	N/A	N/A	<u>N/A</u>	N/A	N/A	N/A	N/A	Inserted Cells
0.22	0.22	Behaviour	14	SMETS 2	19/24	19/24	<u>19/24</u>	IVA	IVA	IVA	19/24	1\/A	IVA	Inserted Cells
<u>6.23</u>	6.23	Update Security Credentials (CoS)	<u>N</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Inserted Cells
6.24	6.24.1	Retrieve Device Security Credentials	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inserted Cells Inserted Cells
		(KRP)						_						Inserted Cells
		Sends SMETS1 Critical Service											4	Inserted Cells
		request to a												Inserted Cells
46.24	<u>6.24.2</u>	SMETS1 ——Device via the	<u>Y</u>	<u>N/A</u>	N/A	N/A	N/A	Mandatory SMETS 2	Mandatory SMETS 2	N/A	<u>N/A</u>	<u>N/A</u>	N/A	Inserted Cells
		S1SP												Inserted Cells
		communications												Inserted Cells
		net work Retrieve												Inserted Cells

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		Device Security Credentials (Device)												Form	natted: Font: 8 pt, Font color: Black
<u>6.25</u>	<u>6.25</u>	Set Electricity Supply Tamper State	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	IS	nated. Fort. 6 pt, Fort Color. Diack
6.26	<u>6.26</u>	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
<u>6.28</u>	6.28	Set CHF Sub GHz Configuration	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
6.29	6.29	Request CHF Sub GHz Channel Scan	Z	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>	
<u>6.30</u>	6.30	Read CHF Sub GHz Configuration	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	IS	natted: Centered, Right: 0 cm, Space Before: 0 pt,
<u>6.31</u>	<u>6.31</u>	Read CHF Sub GHz Channel	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	After Verti	r: 0 pt, Position: Horizontal: Left, Relative to: Column, ical: 0 cm, Relative to: Paragraph, Horizontal: 0.32 cm,
<u>6.32</u>	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	I	p Around matted: Font: 8 pt, Bold, Font color: Black
<u>7.1</u>	<u>7.1</u>	Enable Supply	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Inse	erted Cells
													/	Inse	erted Cells
<u>7.2</u>	<u>7.2</u>	Disable Supply	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Mandatory</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	// Inse	erted Cells
<u>7.3</u>	<u>7.3</u>	Arm Supply	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	// / 1>	erted Cells
7.4	<u>7.4</u>	Read Supply Status	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	//I>	erted Cells
7.57 6 & 7	N/A for SMETS175	Activate Auxiliary Load	<u>Y</u>	N/A	N/A	N/A	N/A	Mandatory SMETS 2	Mandatory SMETS 2	N/A	N/A	N/A	N/A	Inse	erted Cells
7.6	<u>7.6</u>	<u>Deactivate</u> Auxiliary Load	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	· 10.	erted Cells erted Cells
7.7	7.7	Read Auxiliary Load Control	N	Mandatory	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A		erted Cells
	<u>,,,,</u>	Switch Data		SMETS 2	4-374-4	4.7/4.4	<u> </u>		<u> </u>	****		- 1/- 4	****	\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	erted Cells
<u>7.8</u>	<u>7.8</u>	Reset Auxiliary Load	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	1118	erted Cells
7.9	7.9	Add Auxiliary Load	N	<u>N/A</u>	Mandatory	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	11	matted: Font: 8 pt, Font color: Black
10	1.2	To Boost Button	23	1021	SMETS 2	1021	1021	14/11	10/11	14/21	1071	17/24	1471	Form	matted: Font: 8 pt, Bold, Font color: Black

	1 1	1		l		ı .	ı		1 1	İ	I	i	Remove Auxiliary	1	
	<u>IS</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N</u>	Load From Boost Button	<u>7.10</u>	7.10
	<u>IS</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N</u>	Read Boost Button Details	<u>7.11</u>	7.11
	<u>IS</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Y</u>	Set Randomised Offset Limit	7.12	<u>7.10</u>
	<u>IS</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Y</u>	Commission Device	<u>8.1.1</u>	<u>8.1</u>
	IS	Mandatory	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N</u>	Read Inventory	<u>8.2</u>	8.2
matted: Centered, Right: 0 cm, Space Before: 0 pt, er: 0 pt, Position: Horizontal: Left, Relative to: Column,	Af	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N</u>	Decommission Device	<u>8.3</u>	<u>8.3</u>
tical: 0 cm, Relative to: Paragraph, Horizontal: 0.32 cm, ap Around		Mandatory	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	<u>N</u>	<u>Update Inventory</u>	<u>8.4</u>	<u>8.4</u>
erted Cells		N/A	<u>N/A</u>	<u>N/A</u>	N/A	Mandatory SMETS 2	Mandatory	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	Y	Request a DCC Only Join Service	8.7.1	8.7.
serted Cells	Ir												(Critical)		
serted Cells	1 Ir	<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	Mandatory	<u>N</u>	Join Service (Non Critical)	<u>8.7.2</u>	<u>8.7</u>
erted Cells	1	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Y</u>	Unjoin Service (Critical)	<u>8.8.1</u>	<u>8.8</u>
serted Cells	Ir	NI/A	NT/A	NT/A	NT/A	NI/A	NT/A	NT/A	NT/A	NT/A	Mandatan	N	Unjoin Service	000	0.0
matted: Centered, Right: 0 cm, Space Before: 0 pt,		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N</u>	(Non Critical)	8.8.2	8.8
er: 0 pt, Position: Horizontal: Left, Relative to: Column, tical: 0 cm, Relative to: Paragraph, Horizontal: 0.32 cm,		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N</u>	Read Device Log	<u>8.9</u>	8.9
ap Around		<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N</u>	Update HAN Device Log	<u>8.11</u>	<u>8.11</u>
erted Cells	Ir	N.//	27/4	27/4	27/4	27/4	27/4	27/4	Mandatory	27/4	27/4	2.7	Restore HAN	0.10.1	0.10
serted Cells	Ir	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	SMETS 2	<u>N/A</u>	<u>N/A</u>	N	Device Log	8.12.1	8.12
matted: Font: 8 pt, Bold, Font color: Black	-	N/A	N/A	N/A	NT/A	NI/A	NT/A	NT/A	NT/A	N/A	Mandatory	N	Restore Gas Proxy Function Device	8.12.2	8.12
matted: Font: 8 pt, Font color: Black		IN/A	<u>IN/A</u>	IN/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	IN/A	SMETS 2	<u>N</u>	Log	0.12.2	0.12
serted Cells	\vdash	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N</u>	Return Local Command Response	<u>8.13</u>	<u>8.13</u>
matted: Font: 8 pt, Bold, Font color: Black	Fo	Mandatory											Communications		
erted Cells	Ir	SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N</u>	Hub Status Update- Install Success	<u>8.14.1</u>	<u>8.14</u>
serted Cells	Ir	Mandatory											Communications		
erted Cells	Ir	SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N</u>	Hub Status Update- No SMWAN	8.14.2	<u>8.14</u>
erted Cells		Mandatory											Communications		
erted Cells	<u>I</u>	SMETS 2	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N</u>	Hub Status Update- Fault Return	<u>8.14.3</u>	<u>8.14</u>
	-	1		<u> </u>			l		1	l			FAUR REWIT		
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<u>8.14</u>	<u>8.14.4</u>	Communications Hub Status Update- No Fault Return	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>IS</u>
11.1	<u>11.1</u>	Update Firmware	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>IS</u>
11.2	<u>11.2</u>	Read Firm ware Version	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
11.3	<u>11.3</u>	Activate Firmware	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>IS</u>
12.1	<u>12.1</u>	Request WAN Matrix	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>IS</u>
12.2	12.2	Device Pre- notification	N	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	Mandatory	<u>IS</u>
,	_	Count of N/A		<u>52</u>	<u>102</u>	<u>100</u>	<u>101</u>	<u>74</u>	<u>81</u>	<u>102</u>	<u>105</u>	<u>104</u>	<u>92</u>	_
	_	Count of Mandator	y	<u>36</u>	<u>2</u>	<u>0</u>	0	<u>19</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>8</u>	<u>65</u>
	-	Count of Mandator SMETS 2	y	<u>18</u>	<u>3</u>	<u>6</u>	<u>5</u>	<u>13</u>	<u>25</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>6</u>	<u>83</u>
												<u>Total</u>	148	

Tests

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Бегиес Кегетене е	Service Reference Variant	Name	T-SIZIWS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	ÁNO DOC 8∆D	ST	IS Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	¥	¥	N/A	N/A	N/A	N/A	Mandatory -	Mandatory	N/A	M A	M A	N/A	<u>IS</u>	2
1.1	1.1.2	Update ImportTariff (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory:	N/A	Mandatony	N/A	N/A	N/A	21	2
12	1.2.1	Update Price (Primary Element)	¥	¥	N/A	N/A	N/A	N/A	Mandatory:	Mandatory	N/A	N/A	N/A	N/A	21	2
12	1.2.2	Update Price (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory:	N/A	Mandatony	N/A	N/A	N/A	21	2
15	1.5	Update Meter Balance	¥	¥	N/A	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	Mandatory	N/A	<u>15</u>	2
1.6	1.6	Update Payment Mode	¥	¥	N/A	N/A	N/A	N/A	Mandatory:	N/A	Mandatory	N/ A	N/A	N/A	<u>IS</u>	2

Servee Keterence	Service Reference Variant	Name	TSIZINS	CHIEN	CVI On Dermand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	\$	IS Mandatory
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	N/A	N/A	Mandatory-	N/A	N/A	<u>15</u>	2
2.1	2.1	Update Prepay Configuration	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/ A	WA	N/A	N/A	15	2
1.2	2.2	Top Up Device	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
2.3	2.3	Update Debt	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>IS</u>	2
1.5	2.5	Activate Emergency Credit	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>IS</u>	2
3.1	3.1	Display Message	N.	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>15</u>	1
3.2	3.2	Restrict Access For Change Of Tenancy	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
1.3	3.3	Clear Event Log	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	<u>Mandatory</u>	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	<u>Mandatory</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
4.1	4.1.1	Read Instantaneous Import Registers	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IŞ</u>	1
4.1	4.1.2	Read Instantaneous Import TOU Matrices	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/ A	N /A	N/A	N/A	<u>IS</u>	1
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1

Servee Reference	Service Reference Variant	Name	TSIEINS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC ONLY	ST	IS - Mandatory
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
43	4.3	Read Instantaneous Prepay Values	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.	1
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>15.</u>	1
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.	1
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u> .	4
4,4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
4.6	4.6.1	Retrieve Import Daily Read Log	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
4.6	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.8	4.8.1	Read Active ImportProfile Data	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
4.8	4.8.2	Read Reactive ImportProfile Data	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
4.8	4.8.3	Read Export Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	21	4
4:10	4.10	Read Network Data	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	21	4

эсгиес Кејекене	Service Reference Variant	Name	T-SIZINS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC ONLY	\$1	IS - Mandatory
411	4.11.1	Read Tariff (Primary Element)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
411	4.11.2	Read Tariff (Secondary Element)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	4
412	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
412	4.12.2	Read Maximum Domand Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
413	4.13	Read Prepayment Configuration	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	ZI.	1
414	4.14	Read Prepayment Daily Read Log	<u>N</u>	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u> .	4
4.15	4.15	Read Load Limit Data	¥	N	N/ A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	4
416	4.16	Read Active Power Import	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	WA	N/A	N/A	2 <u>I</u>	1
417	4.17	Retrieve Daily Consumption Log	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
418	4.18	Read Meter Balance	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
5.1	5.1	Create Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	IS.	1
§.2	5.2	Read Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	Mandatory	<u>IS</u> .	1
13	5.3	Delete Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	Mandatory	<u>IS</u>	4

жет-жее кетегенее	Service Reference Variant	Name	T-SIZIMS	Critical	CVI On Dermand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Oalt	ST	IS - Mandatory
6.2	6.2.1	Read Device Configuration (Voltage)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
6.2	6.2.2	Read Device Configuration (Random isation)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
€ <u>.2</u>	623	Read Device Configuration (Billing Calendar)	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
€ <u>.2</u>	6.2.4	Read Device Configuration (Identity Exe MPxN)	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
6.2	625	Read Device Configuration (Instantaneous Power Thresholds)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
6.2	6.2.7	Read Device Configuration (MPxN)	N.	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
6.2	6.2.8	Read Device Configuration (Gas)	X	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	M A	N/A	-	0
€ <u>.2</u>	629	Read Device Configuration (Payment Mode)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	M A	N/A	<u>15</u>	1
€ <u>.2</u>	6.2.10	Read Device Configuration (Event Alert Behaviours)	丬	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
4.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	¥	¥	N/A	N/A	N/A	N/A	Mandatory:	Mandatory	N/A	N/A	N/A	N/A	21	2
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
4.5	6.5	Update Device Configuration (Voltage)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.6	6.6	Update Device Configuration (Gas Conversion)	**	¥	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Servee Reference	Service Reference Variant	Name	T-SIZIWS	Cutical	CVI On Demand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	\$	IS - Mandatory
6.7	6.7	Update Device Configuration (Gas Flow)	<u>*</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.8	6.8	Update Device Configuration (Billing Calendar)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N /A	N/A	N/A	N/A	<u>IS</u>	2
611	6.11	Synchronise Clock	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory:	N/A	N/A	N/A	N/A	21	2
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	¥	N	Mandatony.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
613	6.13	Read Event Or Security Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>15</u>	1
614	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	Ŋ/A	N/A	N/A	N/A	<u>IS</u>	2
614	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	N/A		N/ A	W A	N/A	<u>15</u>	2
615	6.15.1	Update Security Credentials (KRP)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/ A	N/A	W A	N/A	<u>15</u>	2
615	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory.	Mandatory:	N/A	N/A	N/A	N/A	<u>15</u>	2
617	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory.	Mandatory:	N/A	N/A	N/A	N/A	<u>15</u>	2
618	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
618	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
620	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>15</u>	1

Устчее Кекегенее	Service Reference Variant	Name	- I SIZINS	CHIE	CVI On Dermand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC ONLY	ST	IS Mandatory
620	6.20.2	Set Device Configuration (Export MPAN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
621	6.21	Request Handover Of DCC Controlled Device	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	21	1
622	6.22	Configure Alert Behaviour	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
623	6.23	Update Security Credentials (CoS)	¥	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
624	6.24.1	Retrieve Device Security Credentials (KRP)	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
624	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>IS</u>	2
625	6.25	Set Electricity Supply Tamper State	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/ A	N/A	N/A	N/A	21	2
626	6.26	Update Device Configuration (Daily-Resetting Of Tariff Block Counter)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>15</u>	
627	6.27	Update Device Configuration (Daily- Resetting Of Tariff Block Counter)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
628	6.28	Set CHF Sub GHz Configuration	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
629	6.29	Request CHF Sub-GHz Channel Scan	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	1
630	6.30	Read CHF Sub-GHz Configuration	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
631	6.31	Read CHF Sub GHz Channel	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	<u>IS</u>	1

Устчес Кетегене	Service Reference Variant	Name	T-SLEINS	Critical	CVI On Demand	CVI - Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	\$1	IS Mandatory
632	6.32	Read CHF Sub-GHz Channel Log	<u>N</u>	N	Mandatory	N/A	N/A	N /A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	4
7.1	7.1	Enable Supply	¥	¥	N/A	N/A	N/A	N /A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	IS.	2
7.2	7.2	Disable Supply	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	IS.	2
7.3	7.3	Arm Supply	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	IS.	2
7.4	7.4	Read Supply Status	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
1.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N ⁄A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	15.	2
7.6	7.6	Deactivate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/ A	Mandatory	N/A	N/A	N/A	Mandatory	N/A	IS.	2
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	Mandatory	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	4
7.8	7.8	Reset Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory:	N/A	N/A	N/A	N/A	IS.	2
7.9	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
710	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
711	7.11	Read Boost Button Details	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	<u>15</u> .	1
7.1	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>IS</u> .	2

Устчес Кегетене е	Service Reference Variant	Name	T-SEEINS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	3	IS - Mandatory
8.1	8.1.1	Commission Device	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	<u>IS</u>	2
\$2	8.2	Read Inventory	¥	N	₩A	N/A	N/A	N /A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>IS</u>	1
8.3	8.3	Decom mission Device	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>15</u>	1
8.4	8.4	Update Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>IS</u>	1
8.5	8.5	Service Opt Out	<u>N</u>	N	N/A	<u>Mandatory</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
8.6	8.6	Service Opt In	<u>N</u>	N	WA	N/A	N/A	WA	N/A	N/A	N/A	₩A	N /A	Mandatory	<u>15</u>	1
8.7	8.7.1	Join Service (Critical)	¥	¥	N/A	N/A	N/A	₩A	Mandatory	Mandatory	N/A	N/A	W A	N/A	<u>IS</u>	2
8.7	8.7.2	Join Service (Non Critical)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u> .	1
8.8	8.8.1	Unjoin Service (Critical)	¥	¥	N/A	N/A	N/A	N/A	Mandatory.	<u>Mandatory</u>	N/A	N/A	N/A	N/A	<u>IS</u>	2
8.8	8.8.2	Unjoin Service (Non Critical)	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
8.9	8.9	Read Device Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
811	8.11	Update HAN Device Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>IS</u>	1
812	8.12.1	Restore HAN Device Log	<u>N</u>	N	N/A	N/A	Mandatory	₩A	N/A	N/A	N/ A	N/A	N/A	N/A	<u>IS</u> .	1

Servec Kelerence	Service Reference Variant	Name	T-SIZINS	Critical	CVI On Demand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC ONLY	ST	IS - Mandatory
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	N	Mandatory	N/A	N/A	WA	N/A	N/A	N/A	<u>₩</u> A	M /A	N/A	21	4
8.13	8.13	Return Local Command Response	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>IS</u>	4
8.14	8.14.1	Communications Hub Status Update- Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	IS.	1
8.14	8.14.2	Communications Hub Status Update Install No SM W AN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	IS.	1
8.14	8.14.3	Communications Hub Status Update Fault Return	<u>N</u>	N ₄	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	IS.	1
8.14	8.14.4	Communications Hub Status Update No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>15</u> .	4
9.1	9.1	Request Customer Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		4
11.1	11.1	Update Firm ware	¥	N	N/A	N/A	N/A	₩A	N/A	N/A	N/A	M A	N/A	Mandatory	2 I	1
11.2	11.2	Read Firm ware Version	¥	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IS.	1
11.3	11.3	Activate Firmware	¥	¥	N/A	N/A	N/A	N/A	Mandatory.	Mandatory:	N/A	N/A	N/A	N/A	IS.	2
12.1	12.1	Request WAN Matrix	<u>N</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandator y	IS	4
12.2	12.2	Device Pre-notification	¥	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	<u>IS</u> .	4
11.1	14.1	Record Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
-	-			Count of N/A	79	117	117	118	91	98	119	122	121	108	-	-

	Service Reference	Service Reference Variant	Name	SMETS.1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Duted	CV6 On Demand	CV7 On Demand	CV8 DCC Only	\$	1S Mandatory
-				Count	of Mandatory	44	6	6	5	32	25	4	1	2	15	-	-
-		-	-		-	123	123	123	123	123	123	123	123	123	123	10 9	13 0

8.1.6 Gas Supplier (GS) User Role

Service Reference	Serric Reference Variant	Name	TRIANS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	39	GS Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	¥	¥	N/A	N/A	N/A	N/A	Mandatony.	Mandatony	N/A	N/A	N/A	N/A	<u>CS</u>	2
1.1	1.1.2	Update Import Tariff (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	N/A	-	.0
1.2	1.2.1	Update Price (Primary Element)	¥	¥	N/A	N/A	N/A	₩A	Mandatory	N/A	Mandatory	N/A	N/A	N/A	CS	2
12	1.2.2	Update Price (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
1.5	1.5	Update Meter Balance	¥	¥	N/A	N/A	N/A	N/A	Mandatory -	N/A	N/A	N/A	Mandatory	N/A	CS	2
1.6	1.6	Update Payment Mode	¥	¥	N/A	N/A	N/A	N/A	Mandatory	N/A	Mandatory	N/A	N/A	N/A	CS	2

Service Kelevence	Service Reference Variant	Name	SMERS.	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	S	CS Mandatory
1.7	1.7	Reset Tariff Block Counter Matrix	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.1	2.1	Update Prepay Configuration	¥	¥	N/A	N/A	N/A	N/A	Mandatory		N/A	N/A	N/A	N/A	GS	2
1.2	2.2	Top Up Device	¥	Ŋ	N/A	N/A	N/A	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
1.3	2.3	Update Debt	¥	¥	N/A	N/A	N/A	N/A	Mandatory		N/A	N/A	N/A	N/A	GS	2
1.5	2.5	Activate Emergency Credit	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory .	N/A	N/A	N/A	N/A	GS	2
1.1	3.1	Display Message	<u>¥</u>	N ₄	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
3.2	3.2	Restrict Access For Change Of Tenancy	¥	N ₄	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
3.3	3.3	Clear Event Log	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.1	4.1.1	Read Instantaneous Import Registers	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.1	4.1.2	Read Instantaneous Import TOU Matrices	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	N N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	۵

Service Kelerence	Service Reference Variant	Name	SAKETS 1	Crite	CVI On Demand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	S	GS Mandatory
4.1	4.1.4	Read Instantaneous Import Block Counters	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS.	1
42	4.2	Read Instantaneous Export Registers	<u>4</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
43	4.3	Read Instantaneous Prepay Values	¥	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	¥	N	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CS	1
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.6	4.6.1	Retrieve Import Daily Read Log	¥	N	N/A	N/A	Mandatory	₩A	M A	N/A	N/A	N/A	N/A	N/A	GS	1
4.6	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	₩A	M A	N/A	N/A	N/A	N/A	N/A	1	0
4.8	4.8.1	Read Active Import Profile Data	¥	N	<u>Mandatory</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	N	N/A	N/A	N/A	₩A	W A	N/A	N/A	N/A	₩A	N/A	4	0
4.8	4.8.3	Read Export Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	1	0
410	4.10	Read Network Data	¥	N	N/A	N/A	N/A	Mandatony	N/A	N/A	N/A	N/A	N/A	N/A	GS	1

Service Reference	Service Reference Variant	Name	SMERS 1	Crite	CVI On Demand	CV1—Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	553	GS Mandatory
411	4.11.1	Read Tariff (Primary Element)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
411	4.11.2	Read Tariff (Secondary Element)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
412	4.12.1	Read Maximum Demand Import Registers	<u>¥</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		۵
412	4.12.2	Read Maximum Demand Export Registers	<u>¥</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
413	4.13	Read Prepayment Configuration	¥	4	N/A	N/A	N/A	Mandatory	N/A	N/A	Ŋ/A	N⁄A	N/A	N/A	GS	1
414	4.14	Read Prepayment Daily Read Log	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
415	4.15	Read Load Limit Data	<u>¥</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
4 16	4.16	Read Active Power Import	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
417	4.17	Retrieve Daily Consumption Log	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
418	4.18	Read Meter Balance	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.1	5.1	Create Schedule	¥	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
5.2	5.2	Read Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
5.3	5.3	Delete Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1

Service Kelerence	Service Reference Variant	Name	SMERS 1	Cities	CVI On Demand	CV1 Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	S	GS Mandatory
6.2	6.2.1	Read Device Configuration (Voltage)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.2	Read Device Configuration (Random isation)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.2	6.2.3	Read Device Configuration (Billing Calendar)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
6.2	6.2.4	Read Device Configuration (Identity Exe MPxN)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
6.2	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
4.2	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
4.2	6.2.8	Read Device Configuration (Gas)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
6.2	6.2.9	Read Device Configuration (Payment Mode)	¥	N	Mandatory	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
6.2	6.2.10	Read Device Configuration(Event Alert Configuration)	<u>N</u>	N	Mandatory	N/A	N/ A	N/A	N/A	N/A	Ŋ/A	N/A	N/A	N/A	GS	1
4.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.5	6.5	Update Device Configuration (Voltage)	<u>N</u>	N	₩A	N/A	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.6	6.6	Update Device Configuration (Gas Conversion)	¥	¥	N/A	N/A	N/A	N/A	Mandaton:	Mandatory:	N/A	N/A	N/A	N/A	GS	2

Service Kelerence	Service Reference Variant	Name	SWEIS-1	CHIFE	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	()	GS Mandatory
6.7	6.7	Update Device Configuration (Gas Flow)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GS	2
6.8	6.8	Update Device Configuration (Billing Calendar)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatony	N/A	N/A	N/A	N/A	GS	2
611	6.11	Synchronise Clock	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatony	N/A	N/A	N/A	N/A	GS	2
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>4</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.13	6.13	Read Event Or Security Log	¥	N H	Mandatory	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	٥
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
615	6.15.1	Update Security Credentials (KRP)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GS	2
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatony.	Mandatory	N/A	N/A	N/A	N/A	GS	2
617	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N⁄A	Mandatory:	Mandatory	N ⁄A	N/A	N ∕A	N/A	GS	2
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
618	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
620	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1

Service Reference	Service Reference Variant	Name	SAKEIS: 1	Crite	CVI On Demand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	55	GS Mandatory
620	6.20.2	Set Device Configuration (Export MPAN)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
621	6.21	Request Handover Of DCC Controlled Device	¥	4	Mandaton;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
622	6.22	Configure Alert Behaviour	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
623	6.23	Update Security Credentials (CoS)	¥	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
624	6.24.1	Retrieve Device Security Credentials (KRP)	¥	N ₊	Mandatory	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CS	1
624	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	Mandatony	Mandatony	N/A	N/A	N/A	N/A	GS	2
625	6.25	Set Electricity Supply Tamper State	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
626	6.26	Update Device Configuration (Daily Resetting Of Tariff Block Counter Matrix)	<u> N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
628	6.28	Set CHF Sub-GHz Configuration	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
629	6.29	Request CHF Sub-GHz Channel Sean	<u>N</u>	N	Mandatory	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CS	1
630	6:30	Read CHF Sub-GHz Configuration	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
631	6.31	Read CHF Sub-GHz Channel	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
632	6.32	Read CHF Sub-GHz Channel Log	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1

Service Kelerence	Service Reference Variant	Name	SAKETS 1	CHEE	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	S	GS Mandatory
7.1	7.1	Enable Supply	<u>4</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
7-2	7.2	Disable Supply	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	CS	2
73	7.3	Arm Supply	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GS	2
7.4	7.4	Read Supply Status	¥	Ŋ	Mandatony.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
7.5	7.5	Activate Auxiliary Load	<u>¥</u>	¥	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N⁄A	N ∕A	N/A	-	0
7.6	7.6	Deactivate Auxiliary Load	<u>4</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>¥</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7-8	7.8	Reset Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N⁄A	N ∕A	N/A	-	0
7.9	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
710	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
711	7.11	Read Boost Button Details	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
712	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
8.1	8.1.1	Commission Device	¥	¥	N/A	N/A	N/A	N/A	Mandatony	Mandatory	N/A	N/A	N/A	N/A	GS	2

Service Kelerence	Service Reference Variant	Name	SMERS 1	CHIFE	CVI On Demand	CVI Fature Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	\$	GS Mandatory
8 <u>.2</u>	8.2	Read Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
8.3	8.3	Decom m ission Device	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
8.4	8.4	Update Inventory	¥	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
8.5	8.5	Service Opt Out	<u>¥</u>	4	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
8.6	8.6	Service Opt In	<u>4</u>	4	N/A	N/A	N/A	N/A	N/A	N/A	Ŋ/A	N/A	N/A	Manda tory	GS	1
8.7	8.7.1	Join Service (Critical)	¥	¥	N/A	N/A	N/A	N/A	Mandaton:	Mandatony	N/A	N/A	N/A	N/A	GS	2
8.7	8.7.2	Join Service (Non Critical)*	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
8.8	8.8.1	Unjoin Service (Critical)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GS	2
8.8	8.8.2	Unjoin Service (Non Critical) [↓]	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
8.9	8.9	Read Device Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
8 11	8.11	Update HAN Device Log+	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
812	8.12.1	Restore HAN Device Log	<u>N</u>	H	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>4</u>	4	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1

Service Reference	Service Reference Variant	Name	SWEIR 1	CHEE	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	(3	GS Mandatory
813	8.13	Return Local Command Response	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
8 .14	8.14.1	Communications Hub Status Update Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	Manda tory	GS	1
81 4	8.14.2	Communications Hub Status Update Install No SM WAN	<u>¥</u>	N ₄	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
8.14	8.14.3	Communications Hub Status Update Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	Manda tory	GS	1
8.14	8.14.4	Communications Hub Status Update No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Manda tory	GS	1
9.1	9.1	Request Custom er Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
11.1	11.1	Update Firm ware	¥	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N /A	N /A	Manda tory	GS	1
11.2	11.2	Read Firm ware Version	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GS	1
11.3	11.3	Activate Firm ware	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GS	2
12.1	12.1	Request WAN Matrix	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	₩A.	Ŋ/A	N/A	₩A.	Manda tory	GS.	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	Manda tory	GS	1
14.1	14.1	Record Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
-	-			Count of N/A	85	121	120	118	102	105	121	123	122	108	-	-

	Service Reference	Service Reference Variant	Name	SMETS.1	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	55)	GS Mandatory
-		-		Count of Mandatory	38	2	3	5	21	18	2	θ	4	15	1	1
-		_	-	115	123	123	123	123	123	123	123	123	123	123	84	97

Service Reference	Service Reference Variant	<u>Name</u>	Critical	CV1 – On Demand	CV1 – Future Dated	CV2 – On Demand	CV3 - On Demand	CV4 – On Demand	CV5 - On Demand	CV5 - Future Dated	CV6 - On Demand	CV7 – On Demand	CV8 – DCC Only	3
<u>1.1</u>	1.1.1	<u>Update ImportTariff</u> <u>(Primary Element)</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>1.2</u>	1.2.1	Update Price (Primary Element)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>1.5</u>	<u>1.5</u>	Update Meter Balance	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>GS</u>
<u>1.6</u>	<u>1.6</u>	<u>Update Payment Mode</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>2.1</u>	2.1	Update Prepay Configuration	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>2.2</u>	2.2	Top Up Device	N	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
2.3	2.3	Update Debt	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>2.5</u>	<u>2.5</u>	Activate Emergency Credit	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>3.1</u>	3.1	Display Message	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>3.2</u>	3.2	Restrict Access For Change Of Tenancy	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>3.3</u>	3.3	Clear Event Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>3.4</u>	<u>3.4</u>	Update Supplier Name	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>3.5</u>	<u>3.5</u>	Disable Privacy PIN	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>4.1</u>	4.1.1	Read Instantaneous Import Registers	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>4.1</u>	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>

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4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	<u>M</u> andatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u>N</u>	<u>Mandatory</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>4.4</u>	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.6	4.6.1	Retrieve Import Daily Read Log	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.8	4.8.1	Read Active ImportProfile Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.10	<u>4.10</u>	Read Network Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.11	4.11.1	Read Tariff (Primary Element)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.13	4.13	Read Prepayment Configuration	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.14	4.14	Read Prepayment Daily Read Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
4.18	<u>4.18</u>	Read Meter Balance	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>5.1</u>	<u>5.1</u>	Create Schedule	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>5.3</u>	<u>5.3</u>	Delete Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>6.2</u>	6.2.3	Read Device Configuration (Billing Calendar)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.2</u>	6.2.4	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.2</u>	6.2.8	Read Device Configuration (Gas)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS

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<u>6.2</u>	6.2.9	Read Device Configuration (Payment Mode)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.2</u>	6.2.10	Read Device Configuration (Event Alert Behaviours)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.6</u>	<u>6.6</u>	Update Device Configuration (Gas Conversion)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.7</u>	<u>6.7</u>	Update Device Configuration (Gas Flow)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>6.8</u>	6.8	Update Device Configuration (Billing Calendar)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>6.11</u>	<u>6.11</u>	Synchronise Clock	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>6.13</u>	<u>6.13</u>	Read Event Or Security Log	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>6.15</u>	6.15.1	Update Security Credentials (KRP)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
6.15	6.15.2	Update Security Credentials (Device)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.17</u>	6.17	Issue Security Credentials	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
6.20	6.20.1	Set Device Configuration (ImportMPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.21</u>	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.22</u>	6.22	Configure Alert Behaviour	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
6.24	6.24.1	Retrieve Device Security Credentials (KRP)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
6.24	6.24.2	Retrieve Device Security Credentials (Device)	Y	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.28</u>	6.28	Set CHF Sub GHz Configuration	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.29</u>	6.29	Request CHF Sub GHz Channel Scan	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>6.30</u>	6.30	Read CHF Sub GHz Configuration	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>

<u>6.31</u>	<u>6.31</u>	Read CHF Sub GHz Channel	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>6.32</u>	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>7.2</u>	<u>7.2</u>	Disable Supply	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>7.3</u>	<u>7.3</u>	Arm Supply	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>7.4</u>	<u>7.4</u>	Read Supply Status	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>8.1</u>	<u>8.1.1</u>	Commission Device	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>8.2</u>	<u>8.2</u>	Read Inventory	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>8.3</u>	<u>8.3</u>	Decom m ission Device	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
<u>8.7</u>	8.7.1	Join Service (Critical)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>8.7</u>	<u>8.7.2</u>	Join Service (Non Critical)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>8.8</u>	8.8.1	Unjoin Service (Critical)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
8.8	8.8.2	Unjoin Service (Non Critical)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
<u>8.9</u>	<u>8.9</u>	Read Device Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>8.11</u>	<u>8.11</u>	Update HAN Device Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>8.12</u>	<u>8.12.1</u>	Restore HAN Device Log	<u>N</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
8.12	8.12.2	Restore Gas Proxy Function Device Log	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
<u>8.13</u>	<u>8.13</u>	Return Local Command Response	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GS</u>
8.14	8.14.1	Communications Hub Status Update- Install Success	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GS</u>
8.14	8.14.2	Communications Hub Status Update-	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	GS
<u>8.14</u>	8.14.3	Communications Hub Status Update-Fault Return	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GS</u>
<u>8.14</u>	8.14.4	Communications Hub Status Update- No Fault Return	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GS</u>

11.1	11.1	Update Firm ware	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
11.2	11.2	Read Firm ware Version	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GS</u>
11.3	11.3	Activate Firmware	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GS
12.1	<u>12.1</u>	Request WAN Matrix	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GS</u>
<u>12.2</u>	12.2	Device Pre-notification	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	GS
	-	Count of N/A		<u>38</u>	<u>81</u>	<u>77</u>	<u>79</u>	<u>61</u>	<u>65</u>	<u>81</u>	<u>82</u>	<u>81</u>	<u>68</u>	1
	_	Count of Mandatory		<u>30</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>8</u>	<u>56</u>
	_	Count of Mandatory SMETS	2	<u>14</u>	1	<u>5</u>	<u>3</u>	<u>3</u>	<u>17</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>6</u>	<u>51</u>
			_								-	Total	Tests	107

8.1.7 Export Supplier (ES) User Role

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Puture Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Oaly	S	ES Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	<u>¥</u>	¥	<u>N</u> /A	N/A	₩A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•	0
1.1	1.1.2	Update ImportTariff (Secondary Element)	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
1.2	1.2.1	Update Price (Primary Element)	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
1.2	1.2.2	Update Price (Secondary Element)	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
1.5	1.5	Update Meter Balance	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	a	ES Mandatory
1.6	1.6	Update Payment Mode	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
2.1	2.1	Update Prepay Configuration	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.2	2.2	Top Up Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.3	2.3	Update Debt	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.5	2.5	Activate Emergency Credit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.1	3.1	Display Message	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.2	3.2	Restrict Access For Change Of Tenancy	<u>N</u>	N	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.3	3.3	Clear Event Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.1	Read Instantaneous Import Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>¥</u>	N	N/A	<u>N/A</u>	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	≇ŧ	ES Mandatory
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Ō
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>O</u>
4.2	4.2	Read Instantaneous Export Registers	¥	N	Mandatory	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	4
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	-	0
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.1	Retrieve Import Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	1
4.8	4.8.1	Read Active ImportProfile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
4.8	4.8.3	Read Export Profile Data	¥	N	N/A	Mandatory	<u>N</u> /A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	ES	1

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	≇ŧ	ES Mandatory
4.10	4.10	Read Network Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.11	4.11.1	Read Tariff (Primary Element)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.11	4.11.2	Read Tariff (Secondary Element)	<u>N</u>	N	N/A	₩A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	ES	1
4.13	4.13	Read Prepayment Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.14	4.14	Read Prepayment Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.15	4.15	Read Load Limit Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	-	0
4.16	4.16	Read Active Power Import	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.18	4.18	Read Meter Balance	<u>N</u>	N	N/A	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
5.1	5.1	Create Schedule	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
5.2	5.2	Read Schedule	<u>N</u>	N	N ∕A	WA	<u>N</u> /A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	≇ŧ	ES Mandatory
5.3	5.3	Delete Schedule	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
6.2	6.2.1	Read Device Configuration (Voltage)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.2	Read Device Configuration (Randomisation)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.3	Read Device Configuration (Billing Calendar)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.4	Read Device Configuration (Identity Exc MPxN)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	1
6.2	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	1
6.2	6.2.8	Read Device Configuration (Gas)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.9	Read Device Configuration (Payment Mode)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	4
6.2	6.2.10	Read Device Configuration (Event Alert Behaviours)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.5	6.5	Update Device Configuration (Voltage)	<u>N</u>	N	N/A	<u>W</u> A	N/A	N/A	N/A	N/A	N/A	N/A.	N/A	₩A	-	0

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only:	a	ES Mandatory
6.6	6.6	Update Device Configuration (Gas Conversion)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
6.7	6.7	Update Device Configuration (Gas Flow)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ū
6.8	6.8	Update Device Configuration (Billing Calendar)	<u>N</u>	¥	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	1	0
6.11	6.11	Synchronise Clock	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>N</u>	N	N/A	N/ A	₩A.	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
6.13	6.13	Read Event Or Security Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	₩A	₩ <u>A</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
6.15	6.15.1	Update Security Credentials (KRP)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	۵
6.17	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	1	0
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	1	0
6.18	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	<u>N/A</u>	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	≇ŧ	ES Mandatory
6.20	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.20	6.20.2	Set Device Configuration (Export MPAN)	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	1
6.21	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
6.22	6.22	Configure Alert Behaviour	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.24	6.24.1	Retrieve Device Security Credentials (KRP)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	-	0
6.24	6.24.2	Retrieve Device Security Credentials (Device)	¥	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.25	6.25	Set Electricity Supply Tamper State	¾ 1	¥	<u>N/A</u>	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
6.26	6.26	Update Device Configuration (Daily Resetting Of Tariff Block Counter Matrix)	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.27	6.27	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	本1	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.28	6.28	Set CHF Sub-GHz Configuration	<u>**</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.29	6.29	Request CHF Sub GHz Channel Sean	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.30	6.30	Read CHF Sub-GHz Configuration	<u>N</u>	N	<u>N/A</u>	<u>₩</u> A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A		0

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Dermand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only:	21	ES Mandatory
6.31	6.31	Read CHF Sub-GHz Channel	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
6.32	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
7.1	7.1	Enable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.2	7.2	Disable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.3	7.3	Arm Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.4	7.4	Read Supply Status	¥	N	Mandastony	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	4
7.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	-	0
7.6	7.6	Deactivate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	-	0
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>0</u>
7.8	7.8	Reset Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.9	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.10	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.11	7.11	Read Boost Button Details	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMEIS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CVS DCC Only	挡	ES Mandatory
7.12	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.1	8.1.1	Com m ission Device	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
8.2	8.2	Read Inventory	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
8.3	83	Decom m ission Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.4	8.4	Update Inventory	¥	N	₩A	₩A	₩ <u>A</u>	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
8.5	5.8	Service Opt Out	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.6	8.6	Service Opt In	<u>N</u>	N	N/A	N/ A	₩A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.1	Join Service (Critical)	<u>N</u>	¥	₩A	₩A	₩ <u>A</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
8.7	8.7.2	Join Service (Non Critical) ⁺	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
8.8	8.8.1	Unjoin Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>O</u>
8.8	8.8.2	Unjoin Service (Non Critical)+	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.9	8.9	Read Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.11	8.11	Update HAN Device Log+	<u>N</u>	N	₩A	₩A	WA	N/A	N/A	N/A	N/A	N/A	N/A	M /A		0

Service Reference	Service Reference Variant	Name	TSJAKS	Critical	CVI On Dermand	CVI Future Dated	CV2 On Dermand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	3	ES Mandatory
8.12	8.12.1	Restore HAN Device Log	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		<u>O</u>
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>O</u>
8.13	8.13	Return Local Command Response	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.1	Communications Hub Status Update-Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.2	Communications Hub Status Update Install No SM WAN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.3	Communications Hub Status Update Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.4	Communications Hub Status Update No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
9.1	9.1	Request Customer Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	-	0
44.4	11.1	Update Firm ware	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
11.2	11.2	Read Firm ware Version	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ES	1
11.3	11.3	Activate Firmware	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
12.1	12.1	Request WAN Matrix	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ES	1
14.1	14.1	Record Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
-	-		e	ount of N/A	116	121	123	123	123	123	123	123	123	116	-	-

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Service Reference	Service Reference Variant	Name	SMEIST	Critical	CV1 On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Oaly	3	ES Mandatory
-	-		Count of	Mandatory	7	2	0	0	0	0	0	0	0	7	-	-
-	_	-			123	123	123	123	123	123	123	123	123	123	16	16

Service Reference	Service Reference Variant	<u>Name</u>	<u>Critical</u>	CV1 – On Demand	CV1 -Future Dated	CV2 - On Demand	CV3 – On Demand	CV4 - On Demand	CV5 - On Demand	CVS - Future Dated	CV6 - On Demand	CV7 – On Demand	CV8 – DCC Only	ES
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ES
4.6	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>4.8</u>	4.8.3	Read Export Profile Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ES
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>5.1</u>	<u>5.1</u>	Create Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ES
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>ES</u>
<u>5.3</u>	<u>5.3</u>	Delete Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ES
<u>6.2</u>	<u>6.2.4</u>	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>6.2</u>	6.20.2	Set Device Configuration (ExportMPAN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>7.4</u>	<u>7.4</u>	Read Supply Status	<u>N</u>	Mandatory	N/A	<u>N/A</u>	N/A	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	ES
<u>8.2</u>	<u>8.2</u>	Read Inventory	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ES
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>ES</u>
<u>11.2</u>	<u>11.2</u>	Read Firm ware Version	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ES</u>
<u>12.1</u>	<u>12.1</u>	Request WAN Matrix	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>ES</u>
<u>12.2</u>	12.2	Device Pre-notification	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>ES</u>
	-	Count of N/A		7	<u>16</u>	<u>16</u>	<u>16</u>	<u>16</u>	<u>16</u>	<u>16</u>	<u>16</u>	<u>16</u>	9	_
	_	Count of Mandatory		<u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>6</u>	11

Count of Mandatory SMETS 2	<u>4</u>	<u>0</u>	1	<u>5</u>								
 -								_	Tota	ıl Tests	<u>16</u>	Ī

8.1.8 Electricity Distributor (ED) User Role

The CV2 and CV3 Command Variants shall be test by the ED, unless agreed by the Testing Participant and the ED and on confirmation by the ED that no local command functionality will be used or available to the ED. In such event a CV1 test shall be performed.

Service Reference	Service Reference Variant	Nume	SWEIRT	Catical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	Œ	EB - Mandatory
1.1	1.1.1	Update ImportTariff (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
1.1	1.1.2	Update Import Tariff (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
1.2	1.2.1	Update Price (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	N/A	N/A	-	0
1.2	1.2.2	Update Price (Secondary Element)	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ā
1.5	1.5	Update Meter Balance	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
1.6	1.6	Update Payment Mode	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.1	2.1	Update Prepay Configuration	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_	0

Service Reference	Service Reference Variant	Name	EMERS 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Fature Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Ont.	#	ED Mandatory
2.2	2.2	Top Up Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
23	2.3	Update Debt	<u>N</u>	¥	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N ⁄A	N/A	N/A	-	0
25	2.5	Activate Emergency Credit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	N/A	N/A	N/A	-	0
3.1	3.1	Display Message	<u>N</u>	N	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N ∕A	N/A	N/A	-	0
3.2	3.2	Restrict Access For Change Of Tenancy	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N ∕A	N/A	N/A	N/A	-	0
3.3	3.3	Clear Event Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	-	0
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.1	Read Instantaneous Import Registers	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	ED	1
4.1	4.1.2	Read Instantaneous Import TOU Matrices	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-ED	1
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	¥	N	Mandatory	N/A	N /A	N/A	₩A	N/A	N/A	₩A	N/A	N/A	-ED	1
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
4.2	4.2	Read Instantaneous Export Registers	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1

Service Reference	Service Reference Variant	Name	SMEES 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CVI Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Out	a	ED - Mandadory
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u>N</u>	N	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N /A	N/A	N/A	-	0
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>¥</u>	N	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.1	Retrieve Import Daily Read Log	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Q.
4.6	4.6.2	Retrieve Export Daily Read Log	<u>¥</u>	N	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	1	0
4.8	4.8.1	Read Active ImportProfile Data	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	4
4.8	4.8.2	Read Reactive Import Profile Data	¥	N	N/A	N/A	Mandatory	N/A	N/ A	N/A	N/A	N ∕A	N/A	N/A	ED	4
4.8	4.8.3	Read Export Profile Data	¥	N	WA	Mandatory	₩A	N/A	₩A	N/A	N/A	₩A	N/A	WA	ED	4
4.10	4.10	Read Network Data	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	ED	4
4.11	4.11.1	Read Tariff (Primary Element)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Q.
4.11	4.11.2	Read Tariff (Secondary Element)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q

Service Reference	Service Reference Variant	Name	SMERT	Critical	CVI On Demand	CVI Future Duted	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5—Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	a	ED - Mandatory
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₽	1
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	N	N/A	Mandatory	N /A	N/ A	₩A	N/A	N/A	₩A	N/A	WA	ED	1
4.13	4.13	Read Prepayment Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A.	N/A	1	0
4.14	4.14	Read Prepayment Daily Read Log	<u>N</u>	N	N/A	N/A	N /A	M A	N/ A	N/A	N/A	N/ A	N/A	N/A	,	0
4.15	4.15	Read Load Limit Data	¥	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	A	1
4.16	4.16	Read Active Power Import	¥	N	N/A	N/A	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	A	1
4.17	4.17	Retrieve Daily Consumption Log	<u>¥</u>	N	Mandatory	N/A	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	1
4.18	4.18	Read Meter Balance	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	,	0
5.1	5.1	Create Schedule	¥	N	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	Mandatory	ED	1
5.2	5.2	Read Schedule	¥	N	N/A	N/A	N /A	N/A	N/A	N/A	N/A	N/A	₩A	Mandatory	Ħ	1
5.3	5.3	Delete Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ŋ/A	Mandatory	₽	4
6.2	6.2.1	Read Device Configuration (Voltage)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ð	1
6.2	6.2.2	Read Device Configuration (Random isation)	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ð	1

Service Reference	Service Reference Variant	Name	- FAITING	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	A	ED Mandatory
6.2	6.2.3	Read Device Configuration (Billing Calendar)	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.4	Rend Device Configuration (Identity Exe MPxN)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
6.2	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	N	N/A	N/A	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
62	6.2.8	Read Device Configuration (Gas)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	6.2.9	Read Device Configuration (Payment Mode)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.10	Read Device Configuration (Event Alert Configuration)	<u>N</u>	N	Mandatory	₩A.	₩A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
6.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.5	6.5	Update Device Configuration (Voltage)	¥	N	N/A	Mandatory	N /A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED.	1
6.6	6.6	Update Device Configuration (Gas Conversion)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.7	6.7	Update Device Configuration (Gas Flow)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.8	6.8	Update Device Configuration (Billing Calendar)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CVI Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Ontr	a	ED Mandatory
6.11	6.11	Synchronise Clock	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.13	6.13	Read Event Or Security Log	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	+
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	-	0
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.15	6.15.1	Update Security Credentials (KRP)	¥	¥	N/A	N/A	N/A	N/A	Mandatory.	Mandatory	N/A	N/A	N/A	N/A	ED	2
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.17	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED.	‡
6.18	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED.	1
6.20	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	-	0
6.20	6.20.2	Set Device Configuration (Export MPAN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_	٥
6.21	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō

Service Reference	Service Reference Variant	Name	SMEES 1	Critical	CVI On Demand	CVI Future Dated	CV2—On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	#	ED - Mandatory
6.22	6.22	Configure Alert Behaviour	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.24	6.24.1	Retrieve Device Security Credentials (KRP)	¥	N	Mandatory	N ∕A	N/A	N/ A	₩A	N/A	N/A	N/A	₩A	N/A	ED	1
6.24	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.25	6.25	Set Electricity Supply Tamper State	<u>¥</u>	¥	₩A	N/A	<u>₩</u> A	N/A	N/A	N/A	N ∕A	N/A	N/A	N/A	1	0
6.27	6.27	Update Device Configuration (RMS Voltage Counter Reset)	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
6.5	6.5	Update Device Configuration (Voltage)	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
7.1	7.1	Enable Supply	<u>N</u>	¥	₩A	N/A	₩A	N/A	N/A	N/A	N ∕A	N/A	N/A	N/A	1	0
7.2	7.2	Disable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.3	7-3	Arm Supply	<u>¥</u>	¥	₩A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
7.4	7.4	Read Supply Status	¥	N	Mandatory	N/A	WA	N/A	N/A	N/A	N/A	N/A	N/A	WA	ED	1
7.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_	ō.
7.6	7.6	Deactivate Auxiliary Load	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>o</u>

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	#	ED - Mandatory
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.8	7.8	Reset Auxiliary Load	<u>#</u>	¥	WA.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
7.9	7.9	Add Auxiliary Load To Boost Button	<u>¥</u>	N	₩A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	1	0
7.10	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.11	7.11	Read Boost Button Details	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.12	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.1	8.1.1	Commission Device	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.2	8.2	Read Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	ED	1
8.3	8.3	Decommission Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.4	8.4	Update Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	-ED	1
8.5	8.5	Service Opt Out	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	-	0
8.6	8.6	Service Opt In	<u>N</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.1	Join Service (Critical)	<u>N</u>	¥	₩A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	-	0
8.7	8.7.2	Join Service (Non Critical)+	<u>N</u>	N	WA	N/A	N /A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	1	0

Service Reference	Service Reference Variant	Name	SMETS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	B	ED Mandalory
8.8	8.8.1	Unjoin Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.8	8.8.2	Unjoin Service (Non Critical) ⁺	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.9	8.9	Read Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.11	8.11	Update HAN Device Log [†]	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	-	0
8.12	8.12.1	Restore HAN Device Log	<u>N</u>	N	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.13	8.13	Return Local Command Response	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.14	8.14.1	Communications Hub Status Update- Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.2	Communications Hub Status Update Install No SM WAN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.3	Communications Hub Status Update Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.4	Communications Hub Status Update-No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
9.1	9.1	Request Customer Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0.
11.1	11.1	Update Firm ware	<u>N</u>	N	N/A	N/A	N/A	N/A	N /A	N/A	N/ A	N/A	N/A	N/A	-	0
11.2	11.2	Read Firm ware Version	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ED	1
11.3	11.3	Activate Firmware	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	a	ED Mandatory
12.1	12.1	Request WAN Matrix	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	N/A	Mandatory	-ED	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	-ED	1
14.1	14.1	Record Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
-	-		C	ount of N/A	100	111	117	116	117	117	118	118	118	411	_	_
-	-		Count of	Mandatory	18	7	4	2	4	4	θ	θ	θ	7	ı	_
-	-	-			118	118	118	118	118	118	118	118	118	118	36	34

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Service Reference	Service Reference Variant	<u>Name</u>	<u>Critical</u>	CV1 – On Demand	CV1 - Future Dated	CV2 – On Demand	CV3 – On Demand	CV4 - On Demand	CV5 – On Demand	CV5 - Future Dated	CV6 – On Demand	CV7 – On Demand	CV8 – DCC Only	ED
4.1	4.1.1	Read Instantaneous Import Registers	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.8	4.8.1	Read Active ImportProfile Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.8	4.8.3	Read Export Profile Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
4.10	4.10	Read Network Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.15	4.15	Read Load Limit Data	<u>N</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.16	4.16	Read Active Power Import	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
<u>5.1</u>	<u>5.1</u>	Create Schedule	<u>N</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>ED</u>
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ED
<u>5.3</u>	<u>5.3</u>	Delete Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>ED</u>

<u>6.2</u>	6.2.1	Read Device Configuration (Voltage)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.2	6.2.2	Read Device Configuration (Randomisation)	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.2	6.2.4	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.2	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.2	6.2.10	Read Device Configuration (Event Alert Behaviours)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.5	<u>6.5</u>	Update Device Configuration (Voltage)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
<u>6.13</u>	6.13	Read Event Or Security Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.15	6.15.1	Update Security Credentials (KRP)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
6.18	6.18.2	Reset Maximum Demand Registers	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
6.22	6.22	Configure Alert Behaviour	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
6.24	6.24.1	Retrieve Device Security Credentials (KRP)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
<u>6.27</u>	6.27	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ED</u>
<u>7.4</u>	<u>7.4</u>	Read Supply Status	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
<u>8.2</u>	<u>8.2</u>	Read Inventory	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ED
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	Mandatory	ED
11.2	11.2	Read Firm ware Version	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ED
12.1	12.1	Request WAN Matrix	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	ED
12.2	12.2	Device Pre-notification	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	ED
	_	Count of N/A		<u>10</u>	<u>32</u>	<u>34</u>	<u>33</u>	<u>34</u>	<u>34</u>	<u>35</u>	<u>35</u>	<u>35</u>	<u>28</u>	_

_	Count of Mandatory	<u>18</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>6</u>	<u>25</u>	
_	Count of Mandatory SMETS 2	7	<u>3</u>	1	2	0	<u>1</u>	<u>0</u>	0	<u>0</u>	<u>1</u>	<u>15</u>	
	_								_	Tota	l Tests	<u>40</u>	ĺ

8.1.9 Gas Transporter (GT) User Role

The CV3 Command Variant shall be test by the GT, unless agreed by the Testing Participant and the GT and on confirmation by the GT that no local command functionality will be used or available to the GT. In such event a CV1 test shall be performed.

Service Reference	Service Reference Variant	Name	TSISWS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CVS Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	Ħ	CT Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
1.1	1.1.2	Update Import Tariff (Secondary Element)	N	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>₩</u> A	1	0
1.2	1.2.1	Update Price (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Φ
1.2	1.2.2	Update Price (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
1.5	1.5	Update Meter Balance	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Q
1.6	1.6	Update Payment Mode	<u>¥</u>	¥	<u>WA</u>	M/A	N/A	N/A	N/A	M A	N/A	N/A	N /A	WA	1	0
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	<u>W</u> A	N/A	N/A	N/A	N/A	1	0
2.1	2.1	Update Prepay Configuration	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	<u>W</u> A	N/A	N/A	N/A	N/A	1	0

Service Reference	Service Reference Variant	Name	TSIANS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	\$	CT Mandatory
2.2	2.2	Top Up Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
2.3	2.3	Update Debt	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
2.5	2.5	Activate Emergency Credit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/ A	N/A	-	0
3.1	3.1	Display Message	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.2	3.2	Restrict Access For Change Of Tenancy	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.3	3.3	Clear Event Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.1	4.1.1	Read Instantaneous Import Registers	¥	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
4.1	4.1.2	Read Instantaneous Import TOU Matrices	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	N	N /A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N /A	N/A	-	0
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō

Service Reference	Service Reference Variant	Name	TSHEWS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Oaly	ŧ	CT Mandatory
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	Ņ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	-	0
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u> </u>	N	N/A	N/A	N/A	N/A	N/A	WA.	N/A	N/A	N/A	N/A	-	0
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>*</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.1	Retrieve Import Daily Read Log	<u>¥</u>	N	WA	N/A	M A	N/A	₩A	WA	N /A	N/A	N /A	WA	-	0
4.6	4.6.2	Retrieve Export Daily Read Log	*	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.8	4.8.1	Read Active Import Profile Data	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
4.8	4.8.2	Read Reactive Import Profile Data	**	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Φ.
4.8	4.8.3	Read Export Profile Data	<u>#</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.10	4.10	Read Network Data	¥	N	WA	N/A	N/A	Mandatory	N/A	WA	WA	N/A	N /A	WA	GT	1
4.11	4.11.1	Read Tariff (Primary Element)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.11	4.11.2	Read Tariff (Secondary Element)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	TSEEWS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	彗	CT Mandatory
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
4.13	4.13	Read Prepay ment Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	-	0
4.14	4:14	Read Prepayment Daily Read Log	<u>*</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.15	4.15	Read Load Limit Data	<u>*</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.16	4.16	Read Active Power Import	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	-	0
4.17	4.17	Retrieve Daily Consumption Log	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CT	1
4.18	4.18	Read Meter Balance	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Ō
5.1	5.1	Create Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	GT	1
5.2	5.2	Read Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	CT	1
5.3	5.3	Delete Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	CT	1
6.2	6.2.1	Read Device Configuration (Voltage)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
6.2	6.2.2	Read Device Configuration (Random isation)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMERS 1	Critical	CVI On Demand	CV1 Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	\$	GT Mandatory
6.2	6.2.3	Read Device Configuration (Billing Calendar)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō
6.2	6.2.4	Read Device Configuration (Identity Exe MPxN)	¥	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
6.2	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N /A	N/A	-	0
6.2	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
6.2	6.2.8	Read Device Configuration (Gas)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	GT	+
6.2	6.2.9	Read Device Configuration (Payment Mode)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.5	6.5	Update Device Configuration (Voltage)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō
6.6	6.6	Update Device Configuration (Gas Conversion)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/ A	N/A	-	0
6.7	6.7	Update Device Configuration (Gas Flow)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.11	6.11	Synchronise Clock	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q

Service Reference	Service Reference Variant	Name	SMEEST	Critical	CVI On Demand	CV1 Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	\$	GT Mandatory
6.13	6.13	Read Event Or Security Log	¥	N	Mandatony.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.15	6.15.1	Update Security Credentials (KRP)	¥	¥	N/A	N/A	N/A	N/A	Mandatory	Mandatory	N/A	N/A	N/A	N/A	GT	2
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.17	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.18	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	-	0
6.20	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	-	0
6.20	6.20.2	Set Device Configuration (Export MPAN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.21	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	-	0
6.22	6.22	Configure Alert Behaviour	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Q.
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Ō

Service Reference	Service Reference Variant	Name	TSEEMS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	\$	GT Mandatory
6.24	6.24.1	Retrieve Device Security Credentials (KRP)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GT	1
6.24	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.25	6.25	Set Electricity Supply Tamper State	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	-	0
6.26	6.26	Update Device Configuration (Daily Resetting Of Tariff Block Counter Matrix)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.27	6.27	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
6.28	6.28	Set CHF Sub-GHz Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A		0
6.29	6.29	Request CHF Sub GHz Channel Scan	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.30	6.30	Read CHF Sub-GHz Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A		0
631	6.31	Read CHF Sub GHz Channel	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.32	6.32	Read CHF Sub-GHz Channel Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
7.1	7.1	Enable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.2	7.2	Disable Supply	**	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
7.3	7.3	Arm Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥

Service Reference	Service Reference Variant	Name	TSEEWS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	₿	CT Mandatory
7.4	7.4	Read Supply Status	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CT	1
7.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.6	7.6	Deactivate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ŋ/A	N/A	-	0
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.8	7.8	Reset Auxiliary Load	<u> </u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.9	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.10	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.11	7.11	Read Boost Button Details	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
7.12	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
8.1	8.1.1	Com m ission Device	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.2	8.2	Read Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ŋ/A	Mandatory	GT	1
8.3	8.3	Decom m ission Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.4	8.4	Update Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	GT	1

Service Reference	Service Reference Variant	Name	TSHIMS	Critical	CVI On Demand	CV1 Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	\$	GT Mandatory
8.5	8.5	Service Opt Out	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.6	8.6	Service Opt In	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.7	8.7.1	Join Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.2	Join Service (Non Critical) ⁺	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.8	8.8.1	Unjoin Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	-	0
8.8	8.8.2	Unjoin Service (Non Critical)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.9	8.9	Read Device Log	<u> N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	•
8.11	8.11	Update HAN Device Log⁺	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.12	8.12.1	Restore HAN Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	-	4
8.13	8.13	Return Local Command Response	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.14	8.14.1	Communications Hub Status Update Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.2	Communications Hub Status Update Install No SM WAN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Q

Service Reference	Service Reference Variant	Name	TSIEWS	Critical	CVI On Demand	CV1 Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	₿	CT Mandatory
8.14	8.14.3	Communications Hub Status Update Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Q
8.14	8.14.4	Communications Hub Status Update - No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		<u>o</u>
9.1	9.1	Request Custom or Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
11.1	11.1	Update Firm ware	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N /A	N/A	-	0
11.2	11.2	Read Firm ware Version	¥	N		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CT	4
11.3	11.3	Activate Firmware	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	W A	N/A	N/A	N/A	N/A	-	0
12.1	12.1	Request WAN Matrix	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatony	CI	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatony.	CI	1
14.1	14.1	Record Network Data (GAS)	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CI	1
-	-		110	122	122	121	121	121	122	122	122	115	-	-		
	-		12	0	0	1	+	+	θ	0	θ	7	-	-		
-	-	-			122	122	122	122	122	122	122	122	122	122	21	22

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Service Reference	Service Reference Variant	<u>Name</u>	Critical	CV1 - On Demand	CV1 -Future Dated	CV2 - On Demand	CV3 – On Demand	CV4 – On Demand	CV5 - On Demand	CV5 -Future Dated	CV6 - On Demand	CV7 – On Demand	CV8 – DCC Only	GT.
4.1	4.1.1	Read Instantaneous Import Registers	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
4.8	4.8.1	Read Active ImportProfile Data	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
4.10	<u>4.10</u>	Read Network Data	N	Mandatory	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
4.17	4.17	Retrieve Daily Consumption Log	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
<u>5.1</u>	<u>5.1</u>	Create Schedule	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>GT</u>
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	Mandatory	GT
<u>5.3</u>	<u>5.3</u>	Delete Schedule	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	Mandatory	GT
<u>6.2</u>	6.2.4	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
<u>6.2</u>	6.2.8	Read Device Configuration (Gas)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
6.13	6.13	Read Event Or Security Log	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	GT
6.15	6.15.1	Update Security Credentials (KRP)	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
<u>6.24</u>	6.24.1	Retrieve Device Security Credentials (KRP)	N	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>GT</u>
7.4	<u>7.4</u>	Read Supply Status	<u>N</u>	Mandatory	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	GT
<u>8.2</u>	8.2	Read Inventory	<u>N</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	N/A	N/A	<u>N/A</u>	Mandatory	GT
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	<u>N/A</u>	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	Mandatory	GT

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11.2	<u>11.2</u>	Read Firm ware Version	<u>N</u>	Mandatory	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>GT</u>
12.1	<u>12.1</u>	Request WAN Matrix	N	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>GT</u>
<u>12.2</u>	<u>12.2</u>	Device Pre-notification	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	Mandatory	<u>GT</u>
14.1	<u>14.1</u>	Record Network Data (GAS)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>GT</u>								
<u> </u>	1	Count of N/A	-	8	<u>21</u>	<u>21</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>14</u>	1
	_	Count of Mandatory	-	<u>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>6</u>	<u>17</u>
	-	Count of Mandatory SMETS 2	1	<u>3</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	1	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>6</u>
	•										_	Tota	al Tests	<u>23</u>

8.1.10 Registered Supplier Agent (RSA) User Role

Service Reference	Service Reference Variant	Nanse	SMEIST	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On-Demand	CV7 On Demand	CV8 DCC Only	# S#	RSA Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
1.1	1.1.2	Update Import Tariff (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
1.2	1.2.1	Update Price (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
1.2	1.2.2	Update Price (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō
1.5	1.5	Update Meter Balance	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ū
1.6	1.6	Update Payment Mode	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	RS-A	RSA Mandatory
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.1	2.1	Update Prepay Configuration	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.2	2.2	Top Up Device	<u>N</u>	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
22	2.3	Update Debt	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.5	2.5	Activate Emergency Credit	<u>N</u>	¥	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.1	3.1	Display Message	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.2	3.2	Restrict Access For Change Of Tenancy	<u>N</u>	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.3	3.3	Clear Event Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.1	Read Instantaneous Import Registers	<u>N</u>	N	N ∕A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	WA.		0
4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	158	RSA Mandatory
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.1	Retrieve Import Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.6	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.8	4.8.1	Read Active Import Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.8	4.8.3	Read Export Profile Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
4.10	4.10	Read Network Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Q

SEC – Appendix R

Service Reference	Serrice Reference Variant	Name	SMETS.1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	158	RSA Mandatory
4.11	4.11.1	Read Tariff (Primary Element)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.11	4.11.2	Read Tariff (Secondary Element)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.12	4.12.1	Read Maximum Demand Import Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.12	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.13	4.13	Read Prepayment Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.14	4.14	Read Prepayment Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Ω
4.15	4.15	Read Load Limit Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
4.16	4.16	Read Active Power Import	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
4.18	4.18	Read Meter Balance	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
5.1	5.1	Create Schedule	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	₩A.	N/A	N/A	N/A	<u>WA</u>	-	0
5.2	5.2	Read Schedule	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	<u>o</u>
5.3	5.3	Delete Schedule	<u>N</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥

Service Reference	Serrice Reference Variant	Name	SMETST	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	RSA.	RSA Mandatory
6.2	6.2.1	Read Device Configuration (Voltage)	¥	N	Mandatory:	N/ A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	RSA	1
6.2	6.2.2	Read Device Configuration (Randomination)	<u>N</u>	N	Mandatory:	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	RSA	1
6.2	6.2.3	Read Device Configuration (Billing Calendar)	¥	N	Mandatory:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
62	6.2.4	Read Device Configuration (Identity Exe MPxN)	¥	N	Mandatory:	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	RSA	1
62	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
62	6.2.7	Read Device Configuration (MPxN)	<u> </u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
6.2	6.2.8	Read Device Configuration (Gas)	¥	4	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA.	RSA	1
62	6.2.9	Read Device Configuration (Payment Mode)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA.	RSA	1
62	6.2.10	Read Device Configuration (Event And Alert Behaviours)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.5	6.5	Update Device Configuration (Voltage)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.6	6.6	Update Device Configuration (Gas Conversion)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵

Service Reference	Serrice Reference Variant	Name	SMEIRT	Cuttical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	RS:4	RSA Mandatory
6.7	6.7	Update Device Configuration (Gas Flow)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.8	6.8	Update Device Configuration (Billing Calendar)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.11	6.11	Synchronise Clock	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.12	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.13	6.13	Read Event Or Security Log	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u>0</u>
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.15	6.15.1	Update Security Credentials (KRP)	<u>*</u> 1	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA.	1	0
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
6.17	6.17	Issue Security Credentials	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/A	₩A.	N/A	N/A	₩A.	N/A	N/A	N/A	WA	-	0
6.18	6.18.2	Reset Maximum Demand Registers	<u>¥</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Φ
6.20	6.20.1	Set Device Configuration (ImportMPxN)	<u>¥</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	<u>0</u>

Service Reference	Serrice Reference Variant	Name	SMETS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	PSA	RSA Mandatory
6.20	6.20.2	Set Device Configuration (Export MPAN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.21	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.22	6.22	Configure Alert Behaviour	<u>N</u>	N	N/A	N /A	N/A	₩A.	N/A	₩ A	N/A	N/A	N/A	WA	-	0
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
624	6.24.1	Retrieve Device Security Credentials (KRP)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.24	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	٥
6.25	6.25	Set Electricity Supply Tamper State	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	N/A	1	0
6.26	6.26	Update Device Configuration (Daily Resetting Of Tariff Block Counter Matrix)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	WA.		0
627	6.27	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.28	6.28	Set CHF Sub-GHz Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.29	6.29	Request CHF Sub GHz Channel Scan	<u>N</u>	N	N/A	N /A	N/A	₩A.	N/A	₩ A	N/A	N/A	N/A	WA		0
6.30	6.30	Read CHF Sub-GHz Configuration	<u>N</u>	Ŋ	Mand atory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
6.31	6.31	Read CHF Sub GHz Channel	<u>N</u>	Ŋ	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1

Service Reference	Serric Reference Variant	Name	SMETS	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	RSA	RSA Mandatory
6.32	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	N	Mandatory	N/ A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	RSA	1
7.1	7.1	Enable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.2	7.2	Disable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.3	7.3	Arm Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	-	0
7.4	7.4	Read Supply Status	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
7.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.6	7.6	Deactivate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	WA.	1	0
7.8	7.8	Reset Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.9	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.10	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	N/A	N /A	N/A	N/A	₩A	₩ A	N/A	N/A	N/A	WA	•	0
7.11	7.11	Read Boost Button Details	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
7.12	7.12	Set Randomised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵

Service Reference	Service Reference Variant	Name	SMETS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC-Only	75 54	RSA Mandatory
8.1	8.1.1	Commission Device	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.2	8.2	Read Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	RSA	1
8.3	8.3	Decom mission Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Ō
8.4	8.4	Update Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	Mandatory	RSA	4
8.5	8.5	Service Opt Out	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	<u> </u>
8.6	8.6	Service Opt In	N.	N	N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.1	Join Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	₩A.	N/A	N/A	N/A	N/A	-	0
8.7	8.7.2	Join Service (Non Critical) ¹	<u>¥</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Ω
8.8	8.8.1	Unjoin Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Φ
8.8	8.8.2	Unjoin Service (Non Critical)+	<u>¥</u>	N	N/A	₩A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	-	0
8.9	8.9	Read Device Log	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
8.11	8.11	Update HAN Device Log [†]	<u>N</u>	N	N/A	N/A	₩A	N/A	N/ A	WA.	N/A	N/A	N/A	N/A	-	0
8.12	8.12.1	Restore HAN Device Log	<u>N</u>	N	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	Ŋ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥

Service Reference	Service Reference Variant	Name	SMETS-I	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	RSA.	RSA Mandatory
8.13	8.13	Return Local Command Response	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.14	8.14.1	Communications Hub Status Update-Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		ō
8.14	8.14.2	Communications Hub Status Update- Install No SM WAN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Φ
8.14	8.14.3	Communications Hub Status Update-Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
8.14	8.14.4	Communications Hub Status Update No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
9.1	9.1	Request Customer Identification Number	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
11.1	11.1	Update Firm ware	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
11.2	11.2	Read Firm ware Version	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	RSA	1
11.3	11.3	Activate Firmware	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
12.1	12.1	Request WAN Matrix	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	RSA	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory.	RSA	1
14.1	14.1	Record Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
-	-			ount of N/A	110	124	124	124	124	124	124	124	124	111	-	-
-	-		Count of	Mandatory	14	θ	0	θ	0	θ	0	θ	0	4	_	-
_	-	-			124	124	124	124	124	124	124	124	124	124	18	15

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Service Reference	Service Reference Variant	<u>Name</u>	Critical	CV1 – On Demand	CV1 – Future Dated	CV2 - On Demand	CV3 – On Demand	CV4 - On Demand	CV5 – On Demand	CV5 - Future Dated	CV6 – On Demand	CV7 – On Demand	CV8 – DCC Only	$\overline{ ext{RS}\Delta}$
<u>6.2</u>	<u>6.2.1</u>	Read Device Configuration (Voltage)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>RSA</u>
<u>6.2</u>	6.2.2	Read Device Configuration (Random isation)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>RSA</u>
<u>6.2</u>	6.2.3	Read Device Configuration (Billing Calendar)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>RSA</u>
<u>6.2</u>	6.2.4	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	RSA
<u>6.2</u>	6.2.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	RSA
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	N	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>RSA</u>
<u>6.2</u>	6.2.8	Read Device Configuration (Gas)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	RSA
<u>6.2</u>	6.2.9	Read Device Configuration (Payment Mode)	N	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>RSA</u>
<u>6.13</u>	6.13	Read Event Or Security Log	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	RSA
<u>6.3</u>	6.3	Read CHF Sub GHz Configuration	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	RSA
<u>6.31</u>	6.31	Read CHF Sub GHz Channel	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	RSA
<u>6.32</u>	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	RSA
7.4	<u>7.4</u>	Read Supply Status	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>RSA</u>
<u>8.2</u>	<u>8.2</u>	Read Inventory	<u>N</u>	<u>N/A</u>	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	Mandatory	RSA
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	<u>N/A</u>	Mandatory	RSA

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11.2	11.2	Read Firm ware Version	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	N/A	<u>N/A</u>	<u>RSA</u>
<u>12.1</u>	12.1	Request WAN Matrix	<u>N</u>	<u>N/A</u>	N/A	Mandatory SMETS 2	RSA							
12.2	12.2	Device Pre-notification	<u>N</u>	<u>N/A</u>	N/A	Mandatory	<u>RSA</u>							
_	_	Count of N/A	_	<u>4</u>	<u>18</u> <u>14</u>	-								
_	_	Count of Mandatory	- 1	9	<u>0</u> <u>3</u>	<u>16</u>								
_	-	Count of Mandatory SMETS <u>2</u>	1	<u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	0	1	<u>6</u>
_	_	•						•	•		_	Tota	l Tests	<u>23</u>

8.1.11 Other User (OU) User Role

Service Reference	Service Reference Variant	Name	SMEIS1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	700	OU Mandatory
1.1	1.1.1	Update Import Tariff (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
1.1	1.1.2	Update Import Tariff (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	ō
1.2	1.2.1	Update Price (Primary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
1.3	1.2.2	Update Price (Secondary Element)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

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Service Reference	Service Reference Variant	Name	SMETS-1	Critical	CVI On Demand	CVI Future Date	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Date	CV6 On Demand	CV7 On Demand	CV8 DCC Oaly	78	OU Mandatory
1.5	1.5	Update Meter Balance	<u>¥</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0
1.4	1.6	Update Payment Mode	<u>N</u>	¥	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
1.7	1.7	Reset Tariff Block Counter Matrix	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
2.1	2.1	Update Prepay Configuration	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
2.2	2.2	Top Up Device	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
2.2	2.3	Update Debt	<u>N</u>	¥	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
2.5	2.5	Activate Emergency Credit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.1	3.1	Display Message	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
3.2	3.2	Restrict Access For Change Of Tenancy	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
3.2	3.3	Clear Event Log	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
3.4	3.4	Update Supplier Name	<u>N</u>	N	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
3.5	3.5	Disable Privacy PIN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.1	Read Instantaneous Import Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS.1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CVS DCC Only	8	OU Mandatory
4.1	4.1.2	Read Instantaneous Import TOU Matrices	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.3	Read Instantaneous Import TOU With Blocks Matrices	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.1.4	Read Instantaneous Import Block Counters	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.2	4.2	Read Instantaneous Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.3	4.3	Read Instantaneous Prepay Values	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.4	4.4.2	Retrieve Change Of Mode / Tariff Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.3	Retrieve Billing Calendar Triggered Billing Data Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.4	4.4.4	Retrieve Billing Data Log (Payment Based Debt Payments)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.4	4.4.5	Retrieve Billing Data Log (Prepayment Credits)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.4	4.6.1	Retrieve Import Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.4	4.6.2	Retrieve Export Daily Read Log	<u>N</u>	N	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.5	4.8.1	Read Active ImportProfile Data	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
4.5	4.8.2	Read Reactive Import Profile Data	¥	N	Mandatory	.WA	₩A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	0U	1

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Service Ref.	Service Refer	Name	SMETS.	Critical	CVI - 0#-D	CVI Future	CV2 On De	CV3 On De	CV4 Trus	CV5 On De	CV5 Future	CV6 On De	CV7 On De	CV8 DCC	700	OU Mandate
4.5	4.8.3	Read Export Profile Data	¥	N	N/A	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
4.1)	4.10	Read Network Data	<u>N</u>	N	N/A	N ⁄A	N/A	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.11	4.11.1	Read Tariff (Primary Element)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU.	1
4.11	4.11.2	Read Tariff (Secondary Element)	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
4.12	4.12.1	Read Maximum Demand Import Registers	<u>4</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.13	4.12.2	Read Maximum Demand Export Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.13	4.13	Read Prepayment Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
4.1	4.14	Read Prepayment Daily Read Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.15	4.15	Read Load Limit Data	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.16	4.16	Read Active Power Import	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
4.13	4.18	Read Meter Balance	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
5.1	5.1	Create Schedule	¥	N	₩A	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	OU	1

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	3	OU Mandatory
5.2	5.2	Read Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	OU	1
5.2	5.3	Delete Schedule	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	OU	1
6.2	6.2.1	Read Device Configuration (Voltage)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.2	Read Device Configuration (Random isation)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.3	Read Device Configuration (Billing Calendar)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.4	Read Device Configuration (Identity Exe MPxN)	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
6.2	62.5	Read Device Configuration (Instantaneous Power Thresholds)	<u>N</u>	N	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
6.2	62.7	Read Device Configuration (MPxN)	<u>N</u>	N	Mandatory.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU.	1
6.2	6.2.8	Read Device Configuration (Gas)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.9	Read Device Configuration (Payment Mode)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.2	6.2.10	Read Device Configuration (Event And Alert Behaviours)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.4	6.4.1	Update Device Configuration (Load Limiting General Settings)	<u>N</u>	¥	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
6.4	6.4.2	Update Device Configuration (Load Limiting Counter Reset)	<u>N</u>	N	<u>N/A</u>	N /A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	1	0

Sorvice Reference	Service Reference Variant	Name	SMETS-1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CV8 DCC Only	8	OU Mandatory
6.5	6.5	Update Device Configuration (Voltage)	<u>N</u>	N	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.6	6.6	Update Device Configuration (Gas Conversion)	<u>N</u>	¥	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.7	6.7	Update Device Configuration (Gas Flow)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
6.11	6.11	Synchronise Clock	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.11	6.12	Update Device Configuration (Instantaneous Power Threshold)	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Φ.
6.13	6.13	Read Event Or Security Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.14	6.14.1	Update Device Configuration (Auxiliary Load Control Description)	<u>N</u>	¥	₩A.	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	N/A	-	0
6.14	6.14.2	Update Device Configuration (Auxiliary Load Control Scheduler)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.15	6.15.1	Update Security Credentials (KRP)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
6.15	6.15.2	Update Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Ō
6.17	6.17	Issue Security Credentials	<u>N</u>	¥	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0-
6.18	6.18.1	Set Maximum Demand Configurable Time Period	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.18	6.18.2	Reset Maximum Demand Registers	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS.1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CVS DCC Only	100	OU Mandatory
6.21	6.20.1	Set Device Configuration (Import MPxN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.2)	6.20.2	Set Device Configuration (Export MPAN)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.21	6.21	Request Handover Of DCC Controlled Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.23	6.22	Configure Alert Behaviour	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
6.23	6.23	Update Security Credentials (CoS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.21	6.24.1	Retrieve Device Security Credentials (KRP)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.21	6.24.2	Retrieve Device Security Credentials (Device)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
6.25	6.25	Set Electricity Supply Tamper State	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
6.26	6.26	Update Device Configuration (Daily Resetting Of Tariff Block Counter Matrix)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
6.27	6.27	Update Device Configuration (Daily Resetting Of Tariff Block Counter)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.28	6.28	Set CHF Sub-GHz Configuration	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N /A	N/A	N/A	N/A	N/A		0
6.2)	6.29	Request CHF Sub-GHz Channel Sean	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
63)	6.30	Read CHF Sub-GHz Configuration	<u>N</u>	N	N/A	₩A	N/A	N/A	N ∕A	N /A	N/A	N/A	N/A	N/A		0

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Service Refer	Service Refer	Name	SMETS.1	Critical	CVI On Dem	CVI Future.	CV2 On Dem	CV3 On Dem	CV4 Transfe	CVS On Dem	CV5 Future.	CV6 On Dem	CV7 On Dem	CW8 DCC.C	78	OU Mundak
63 1	6.31	Read CHF Sub GHz Channel	<u>¥</u>	N	₩A	W A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
631	6.32	Read CHF Sub GHz Channel Log	<u>N</u>	N	N/A	N/ A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		0
6.5	6.8	Update Device Configuration (Billing Calendar)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
7.1	7.1	Enable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	۵
7.2	7.2	Disable Supply	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q
7.2	7.3	Arm Supply	<u>N</u>	¥	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.4	7.4	Read Supply Status	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.5	7.5	Activate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.6	7.6	Deactivate Auxiliary Load	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
7.7	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ΟU	1
7.8	7.8	Reset Auxiliary Lond	<u>N</u>	¥	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.5	7.9	Add Auxiliary Load To Boost Button	<u>N</u>	N	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
7.1)	7.10	Remove Auxiliary Load From Boost Button	<u>N</u>	N	₩A.	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Puture Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6—On Demand	CV7 On Demand	CVS DCC Only	8	OU Mandatory
7.11	7.11	Read Boost Button Details	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
7.13	7.12	Set Random ised Offset Limit	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.1	8.1.1	Commission Device	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	Q.
8.3	8.2	Read Inventory	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mandatory	OU	1
8.3	8.3	Decommission Device	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Q
8.4	8.4	Update Inventory	¥	N	N/A	N/A	N/A	N/A	N/ A	N/A	N/A	N/A	N/A	Mandatory	OU	1
8.5	8.5	Service Opt Out	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.4	8.6	Service Opt In	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.1	Join Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.7	8.7.2	Join Service (Non Critical)+	¥	N	<u>Mandatory</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
8.8	8.8.1	Unj oin Service (Critical)	<u>N</u>	¥	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A	-	0
8.8	8.8.2	Unjoin Service (Non Critical)+	<u>N</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
8.9	8.9	Read Device Log	¥	N	<u>₩</u> A	Mandatory	N/A	N/A	N/A	N /A	N/A	N/A	N/A	₩A.	OU	1

Service Reference	Service Reference Variant	Name	SMETS 1	Critical	CVI On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Oaly:	8	OU Mandatory
8.11	8.11	Update HAN Device Log [†]	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
8.11	8.12.1	Restore HAN Device Log	<u>N</u>	N	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.12	8.12.2	Restore Gas Proxy Function Device Log	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	٥
8.13	8.13	Return Local Command Response	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
8.11	8.14.1	Communications Hub Status Update- Install Success	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
8.14	8.14.2	Communications Hub Status Update- Install No SM WAN	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		<u>o</u>
8.11	8.14.3	Communications Hub Status Update- Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Ō
8.14	8.14.4	Communications Hub Status Update- No Fault Return	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		٥
9.1	9.1	Request Customer Identification Number	<u>¥</u>	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU OU	1
11.	11.1	Update Firm ware	<u>¥</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
11.1	11.2	Read Firm ware Version	¥	N	Mandatory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OU	1
11.3	11.3	Activate Firm ware	<u>¥</u>	¥	₩A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N /A		0
12.1	12.1	Request WAN Matrix	¥	N	WA	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	Mandatory	ou	1
12.2	12.2	Device Pre-notification	¥	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>Mandatory</u>	ΟU	1

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	Service Reference	Service Reference Variant		Name	SMETS 1	Critical	CV1 On Demand	CVI Future Dated	CV2 On Demand	CV3 On Demand	CV4 Transform	CV5 On Demand	CV5 Future Dated	CV6 On Demand	CV7 On Demand	CV8 DCC Only	±	OU Mandatory
=	4.	14.1	Recor	d Network Data (GAS)	<u>N</u>	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	0
_		_			C	ount of N/A	109	121	123	123	123	123	123	123	123	117	-	_
-		-			Count of	Mandatory	14	2	0	0	0	0	0	0	0	7	-	_
	-	_		-			123	123	123	123	123	123	123	123	123	124	23	23

Service Reference	Service Reference Variant	<u>Name</u>	<u>Critical</u>	CV1 - On Demand	CV1 - Future Dated	CV2 - On Demand	CV3 – On Demand	CV4 - On Demand	CV5 – On Demand	CV5 - Future Dated	CV6 - On Demand	CV7 – On Demand	CV8 – DCC Only	<u>700</u>
4.8	4.8.1	Read Active ImportProfile <u>Data</u>	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
4.8	4.8.2	Read Reactive Import Profile Data	<u>N</u>	Mandatory	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
4.8	4.8.3	Read Export Profile Data	<u>N</u>	<u>N/A</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>OU</u>
4.11	4.11.1	Read Tariff (Primary Element)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
4.11	4.11.2	Read Tariff (Secondary Element)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
4.17	4.17	Retrieve Daily Consumption Log	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
<u>5.1</u>	<u>5.1</u>	Create Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
<u>5.2</u>	<u>5.2</u>	Read Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
<u>5.3</u>	<u>5.3</u>	Delete Schedule	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
<u>6.2</u>	<u>6.2.4</u>	Read Device Configuration (Identity Exc MPxN)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
<u>6.2</u>	6.2.7	Read Device Configuration (MPxN)	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
<u>7.7</u>	7.7	Read Auxiliary Load Control Switch Data	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
<u>7.11</u>	<u>7.11</u>	Read Boost Button Details	<u>N</u>	<u>N/A</u>	Mandatory SMETS 2	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>
<u>8.2</u>	<u>8.2</u>	Read Inventory	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
<u>8.4</u>	<u>8.4</u>	<u>Update Inventory</u>	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
<u>8.7</u>	<u>8.7.2</u>	Join Service (Non Critical)	<u>N</u>	Mandatory	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>OU</u>

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<u>8.8</u>	8.8.2	Unjoin Service (Non Critical)	<u>N</u>	Mandatory	N/A	<u>N/A</u>	<u>N/A</u>	N/A	N/A	N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>ou</u>
<u>8.9</u>	8.9	Read Device Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>OU</u>								
<u>8.11</u>	<u>8.11</u>	Update HAN Device Log	<u>N</u>	Mandatory	<u>N/A</u>	<u>OU</u>								
<u>9.1</u>	<u>9.1</u>	Request Customer Identification Number	<u>N</u>	Mandatory SMETS 2	<u>N/A</u>	<u>OU</u>								
<u>11.2</u>	11.2	Read Firm ware Version	<u>N</u>	Mandatory	<u>N/A</u>	<u>OU</u>								
<u>12.1</u>	12.1	Request WAN Matrix	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory SMETS 2	<u>OU</u>
12.2	12.2	Device Pre-notification	<u>N</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Mandatory	<u>OU</u>
-	_	Count of N/A	_	9	<u>22</u>	<u>22</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>16</u>	-
-	_	Count of Mandatory	_	9	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>6</u>	<u>15</u>
-	-	Count of Mandatory SMETS 2	_	<u>5</u>	1	1	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	1	<u>8</u>
-	_											Total	Tests	<u>23</u>

8.1.12 Device Alert Tests

The following table outlines the Device Alert tests required to be executed by User Role. The purpose of these tests is to prove that a party can receive a subset of Device Alerts based on the differing types of Alerts that can be received.

The Alerts highlighted in Blue are Device Alert Tests to be executed against Dual Band Communications Hub by User Role.

New User

The following User Role tables reflect the Device Alerts that must be executed by a new Party seeking to undertake UEPT. The tests are those indicated as 'Mandatory, Mandatory SMETS1 and Mandatory SMETS2+' in the test scenario column, for which they must be executed for each specific User Role. Those indicated as 'Mandatory' must be executed in respect of a SMETS1 Device and a SMETS2+ Device. Those indicated as 'Mandatory SMETS1' must be executed in respect of a SMETS1 Device. Those indicated as 'Mandatory SMETS2+' must be executed in respect of a SMETS2+ Device. Where the Device Alert tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Existing User seeking to send Service Request to SMETS1 Devices

The tests that must be executed if a Testing Participant has already completed UEPT and is seeking to test Device Alerts for SMETS 1 Devices in a particular User Role (Eligibility Testing), as set out in clause 4.3 of the UTSAD, are those indicated as 'Mandatory or Mandatory SMETS1' in the test scenario column for the relevant User Role. Those indicated as 'Mandatory' must only be executed in respect of a SMETS1 Device and those indicated as 'Mandatory SMETS1' must only be executed in respect of a SMETS1 Device. Where the Device Alert tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Existing User seeking to send Service Requests that access R2.0 functionality

For SMET S2+ when executing Additive UEPT for R2.0, the Alerts as listed below need to be executed where indicated by User Role and 'Mandatory' or 'Mandatory SMET S2+' the test scenario column:

- Device Alerts IS Ox81A0 Smart Meter Integrity Issue Warning (Optional)
- Device Alerts GS Ox81A0 Smart Meter Integrity Issue Warning (Optional)

Those indicated as 'Mandatory' must only be executed in respect of a SMET S2+ Device.

The Alerts highlighted in Blue are Device Alert Tests to be executed against Dual Band Communications Hub by User Role.

8.1.13 Device Alert Tests – IS

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Scenario	User Role
<u>0x8F32</u>	Supply Armed	Device Alert - Type 1 (Alert Code and Timestamp) DLMS	<u>Y</u>	Mandatory	<u>IS</u>
<u>0x8183</u>	Device joined SMHAN	Device Alert - Type 1 (Alert Code and Timestamp) DLMS	N	Mandatory SMETS2+	<u>IS</u>
<u>0x8F66</u>	Future – date HAN Interface Command Successfully Actioned	Device Alert - Type 2 (Alert Code, Timestamp and Specific Data) DLMS	<u>Y</u>	Mandatory SMETS2+	<u>IS</u>

Event/ Alext Code	SMETS Variant	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Scenario	User Role
0x8F32	SMETS1 & SMETS2	Supply Armed	Device Alert-Type 1 (Alert Code and Timestamp) DLMS	¥	Mandatory	IS
0x8183	SMETS2	Device joined SMHAN	Device Alert Type I (Alert Code and Timestamp) DLMS	N	Mandatory	IS
0x8F66	SMETS2	Future date HAN Interface Command Successfully Actioned	Device Alert Type 2 (Alert Code, Timestamp and Specific Data) DLMS	¥	Mandatory	IS
0x81A0	SMEST2	Smart Meter Integrity Issue Warning	Device Alert Type 2 (Alert Code, Timestamp and Specific Data) DLMS	Ŋ	Optional	<u>IS</u>

8.1.14 Device Alert Tests – GS

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Scenario	User Role
0x8F32	Supply Armed	Device Alert - Type 1 (Alert Code and Timestamp) Zigbee	<u>Y</u>	Mandatory	<u>GS</u>
<u>0x8183</u>	Device joined SMHAN	Device Alert - Type 1 (Alert Code and Timestamp) Zigbee	N	Mandatory SMETS2+	<u>GS</u>
<u>0x8F66</u>	Future – date HAN Interface Command Successfully Actioned	Device Alert - Type 2 (Alert Code, Timestamp and Specific Data) Zigbee	<u>Y</u>	Mandatory SMETS2+	GS

Event/	SMETS Variant	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Semario	User Role
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0x8F32	SMETS1 & SMETS2	Supply Armed	Device Alert Type 1 (Alert Code and Timestamp) Zigbee	¥	Mandatory	GS
0x8183	SMETS2	Device joined SMHAN	Device Alert Type 1 (Alert Code and Timestamp) Zigbee	N	Mandatory	GS
0x8F66	SMETS2	Future date HAN Interface Command Successfully Actioned	Device Alert Type 2 (Alert Code, Timestamp and Specific Data) Zigbee	¥	Mandatory	-GS

8.1.15 Device Alert Tests – ES

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	CTSTest Scenario	User Role				
No alerts identified from Device to Export Supplier									

Event/	Event / Alert Code Meaning	Device Alert Variant	Critical	CTS Test Semario	User Role			
No alerts identified from Device to Export Supplier								

8.1.16 Device Alert Tests – ED

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Scenario	User Role
<u>0x8002</u>	Average RMS Voltage above Average RMS Over Voltage Threshold (current value above threshold; previous value below threshold)	Device Alert - Type 1 (Alert Code and Timestamp) DLMS	<u>N</u>	Mandatory SMETS2+	ED
0x8F35	Supply Outage Restored	Device Alert - Type 2 (Alert Code, Timestamp and Specific Data) DLMS	<u>Y</u>	Mandatory SMETS2+	ED
0x8F36	Supply Outage Restored - Outage>= 3 minutes	Device Alert - Type 2 (Alert Code, Timestamp and Specific Data) DLMS	<u>Y</u>	Mandatory SMETS2+	ED
<u>0x8F40</u>	Average RMS Voltage above Average RMS Over Voltage Threshold (current value above threshold; previous value below threshold).	Device Alert - Type 1 (Alert Code and Timestamp) DLMS	<u>N</u>	Mandatory SMETS1	ED
<u>0x8F411</u>	SMETS1 Average RMS Voltage below Average RMS Under Voltage Threshold (current value below threshold; previous yalue above threshold)	Device Alert - Type 1 (Alert Code and Timestamp) DLMS	<u>N</u>	Mandatory SMETS1	ED

Event/ Alert Code	SMETS Variant	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Seenario	User Role
0x8002	SMETS2	Average RMS Voltage above Average RMS Over Voltage Threshold (current value above threshold; previous value below threshold)	Device Alert Type I (Alert Code and Timestamp) DLMS	N	Mandatory	ED
0x8F35	SMETS2	Supply Outage Restored	Device Alert Type 2 (Alert Code, Timestamp and Specific Data) DLMS	¥	Mandatory	ED
0x8F36	SMETS2	Supply Outage Restored Outage >= 3 minutes	Device Alert Type 2 (Alert Code, Timestamp and Specific Data) DLMS	¥	Mandatory	ED
0x8F40	-SMETS1	Average RMS Voltage above Average RMS Over Voltage Threshold (current value above threshold; previous value below threshold)	Device Alert Type 1 (Alert Code and Timestamp) DLMS	N	Mandatory	-ED
0x8F411	SMETS1	SMETSI A verage RMS Voltage below A verage RMS Under Voltage Threshold (current value below threshold; previous value above threshold)	Device Alert Type 1 (Alert Code and Timestamp) DLMS	N	Mandatory	ED

8.1.17 Device Alert Tests – GT

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Scenario	User Role
No alerts identified from Device to Gas Transporter					

Event/ Alert Code	Event / Alert Code Meaning	Device Alert Variant	Critical	Test Seemario	User Role
	No alerts identified from Device to Gas Transporter				

8.1.18 DCC Alert Tests

The following table outlines the DCC Alert tests required to be executed by User Role. The purpose of these tests is to prove that a party can receive a subset of DCC Alerts based on the differing types of Alerts that can be received.

New User

The following User Role tables reflect the DCC Alert Tests that must be executed by a new Party seeking to undertake UEPT. The tests are those indicated as 'Mandatory, Mandatory SMETS1 and Mandatory SMETS2+' in the test scenario column, for which they must be executed for each specific User Role. Those indicated as 'Mandatory' must be executed in respect of a SMETS1 Device and a SMETS2+ Device. Those indicated as 'Mandatory SMETS1' must be executed in respect of a SMETS1 Device. Those indicated as 'Mandatory SMETS2+' must be executed in respect of a SMETS2+ Device. Where the DCC Alert Tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Existing User seeking to send Service Requests that access R2.0 functionality

For SMET S2+ when executing Additive UEPT for R2.0, the Alerts as listed below need to be executed where indicated by User Role and 'Mandatory' or 'Mandatory SMET S2+' the test scenario column:

- DCC Alert Tests IS
 N54 Dual Band Communication Hub Sub GHz Alert (Mandatory SMET S2+)
 N49 / N50 / N51 / N52 Firmware Version Mismatch (Optional)
- DCC Alert Tests GS
 N54 Dual Band Communication Hub Sub GHz Alert (Mandatory SMET S2+)
 N49 / N50 / N51 / N52 Firmware Version Mismatch (Optional)

Those indicated as 'Mandatory' must only be executed in respect of a SMET S2+ Device.

The Alerts highlighted in Blue are Device Alert Tests to be executed against Dual Band Communications Hub by User Role.

The Alerts highlighted in Blue are DCC Alert Tests to be executed against Dual Band Comms Hub by User Role.

Existing User seeking to send Service Request to SMETS1 Devices

The tests that must be executed if a Testing Participant has already completed UEPT and is seeking to test Response Codes for SMETS 1 Devices in a particular User Role (Eligibility Testing), as set out in clause 4.3 of the UTSAD, are those indicated as 'Mandatory or Mandatory SMETS1' in the test scenario column for the relevant User Role. Those indicated as 'Mandatory' must only be executed in respect of a SMETS1 Device and those indicated as 'Mandatory SMETS1' must only be executed in respect of a SMETS1 Device. Where the Response Code Tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

8.1.19 DCC Alert Tests - IS

Reference	<u>Name</u>	Test Scenario	Applicable User Role
<u>N17</u>	DSP Schedule Removal - Schedule removal due to Change of Supplier	<u>Mandatory</u>	Previously Registered IS
<u>N19</u>	Firm ware Distribution Failure - Firmware Distribution Device ID identification failure	Mandatory	<u>IS</u>
<u>N24</u>	Update HAN Device Log Result - Successful Communications Hub Function Whitelist Update	Mandatory	<u>IS</u>
<u>N27</u>	Change of Supplier - Device Change of Supplier	<u>Mandatory</u>	Previously Registered IS
N49, N50, N51, N52	Firm ware Version Mismatch	<u>Optional</u>	<u>IS</u>
<u>N53</u>	Command Not Delivered To ESME	Mandatory SMETS2+	<u>IS</u>
<u>N54</u>	<u>Dual Band CH Sub GHz Alert</u>	<u>Mandatory</u> <u>SMETS2+</u>	<u>IS</u>
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	<u>IS</u>
<u>N56</u>	SMETS1 Service Provider Provision of prepayment top-up UTRN	Mandatory SMETS1	<u>IS</u>
<u>N999</u>	DUIS Version Mismatch	Mandatory	<u>IS</u>

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
N17	SMETS1 SMETS2	DSP Schedule Removal Schedule removal due to Change of Supplier	Mandatory	Previously Registered IS
N19	SMETS1 SMETS2	Firm ware Distribution Failure Firmware Distribution Device ID identification failure	Mandatory	2 3
N24	SMETS1 SMETS2	Update HAN Device Log Result— Successful Communications Hub Function Whitelist Update	Mandatory	12
N27	SMETS1 SMETS2	Change of Supplier Device Change of Supplier	Mandatory	Previously Registered IS
N49, N50, N51, N52	SMETS2	Firmware Version Mismatch	Optional	IS
N53	SMETS2	Command Not Delivered To ESME	Mandatory	IS
N54	SMETS2	Dual Band CH Sub GHz Alest	Mandatory	IS
N55	<u>SMETSI</u>	SMETS1 Service Provider Alert	Mandatory	12
N56	<u>SMETSI</u>	SMETS1 Service Provider Provision of prepayment top-up-UTRN	Mandator	IS
N999	SMETS2	DUIS Version Mismatch	Mandatory	12

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8.1.20 DCC Alert Tests - GS

Reference	<u>Name</u>	<u>Test Scenario</u>	Applicable User Role
<u>N17</u>	DSP Schedule Removal - Schedule removal due to Change of Supplier	Mandatory	Previously Registered GS
<u>N19</u>	Firm ware Distribution Failure - Firmware Distribution Device ID identification failure	Mandatory	<u>GS</u>
<u>N19</u>	Firm ware Distribution Failure - Firmware Distribution Device ID identification failure	<u>Mandatory</u>	GS
<u>N24</u>	Update HAN Device Log Result - Successful Communications Hub Function Whitelist Update	Mandatory	<u>GS</u>
<u>N27</u>	Change of Supplier - Device Change of Supplier	Mandatory SMETS2+	Previously Registered GS
N49, N50, N51, N52	Firm ware Version Mismatch	Optional SMETS2+	<u>GS</u>
	Dual Band CH Sub GHz Alert	Mandatory SMETS2+	<u>GS</u>
<u>N55</u>	<u>SMETSI Service Provider Aleп</u>	Mandatory SMETS1	<u>GS</u>
<u>N56</u>	SMETS1 Service Provider Provision of prepayment top-up UTRN	<u>Mandatory</u> <u>SMETS1</u>	<u>GS</u>
<u>N57</u>	SMETS1 CH Firmware notification	Mandatory SMETS1	<u>GS</u>

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
N17	SMETS1 & SMETS2	DSP Schedule Removal Schedule removal due to Change of Supplier	Mandatory	Previously Registered GS
N19	SMETS1 & SMETS2	Firm ware Distribution Failure Firm ware Distribution Device ID identification failure	Mandatory	GS
N19	SMETS1 & SMETS2	Firm ware Distribution Failure Firm ware Distribution Device ID identification failure	Mandatory	GS
N24	SMETSI & SMETS2	Update HAN Device Log Result— Successful Communications Hub Function W hitelist Update	Mandatory	GS
N27	SMETS2	Change of Supplier Device Change of Supplier	Mandatory	Previously Registered GS
N49, N50, N51, N52	SMETS2	Firm ware Version Mismatch	Optional	GS
N54	SMETS1	Dual Band CH Sub GHz Alert	Mandatory	GS
N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	GS
N56	<u>SMETS1</u>	SMETS1 Service Provider Provision of prepayment top-up UTRN	Mandatory	GS
N57	SMETS1	SMETSI-CH-Firm ware notification	Mandatory	GS

8.1.21 DCC Alert Tests - ES

Reference	<u>Name</u>	CTS Test Scenario	Applicable User Role
<u>N1</u>	Device Status Change - Electricity Smart Meter Decommission or Withdrawal	Mandatory	Registered ES
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	Registered ES

Reference	SMETS Variant	Name	CTS Test Scenario	Applicable User Role
N1	SMETS1 & SMETS2	Device Status Change Electricity Smart Meter Decommission or Withdrawal	Mandatory	Registered ES
N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	Registered ES

8.1.22 DCC Alert Tests-ED

Reference	<u>Name</u>	Test Scenario	Applicable User Role
AD1	Power Outage Event	Mandatory SMETS2+	Registered ED
<u>N1</u>	Device Status Change - Electricity Smart Meter Decommission or Withdrawal	Mandatory	Registered ED
<u>N16</u>	Device Identity Confirmation	Mandatory	Registered ED
<u>N53</u>	Command Not Delivered To ESME	Mandatory SMETS2+	Registered ED
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	Registered ED
<u>N999</u>	DUIS Version Mismatch	Mandatory	Registered ED

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
AD1	SMETS2	Power Outage Event	Mandatory	Registered ED
N1	SMETS1 & SMETS2	Device Status Change Electricity Smart Meter Decommission or Withdrawal	Mandatory	Registered ED
N16	SMETS1 & SMETS2	Device Identity Confirmation	Mandatory	Registered ED
N53	SMETS2	Command Not Delivered To ESME	Mandatory	Registered ED

N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	Registered ED
N999	SMETS2	DUIS Version Mismatch	Mandatory	Registered ED

8.1.23 DCC Alert Tests-GT

Reference	<u>Name</u>	Test Scenario	Applicable User Role
AD1	Power Outage Event	Mandatory SMETS2+	Registered GT
<u>N2</u>	Device Status Change - Gas Smart Meter Decommission or Withdrawal	Mandatory	Registered GT
<u>N16</u>	Device Identity Confirmation	Mandatory	Registered GT
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	Registered GT
<u>N999</u>	DUIS Version Mismatch	Mandatory	Registered GT

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
AD1	SMETS2	Power Outage Event	Mandatory	Registered GT
N2	SMETS1 & SMETS2	Device Status Change Gas Smart Meter Decommission or Withdrawal	Mandatory	Registered GT
N16	SMETS1 & SMETS2	Device Identity Confirmation	Mandatory	Registered GT
N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	Registered GT
N999	SMETS2	DUIS Version Mismatch	Mandatory	Registered GT

8.1.24 DCC Alert Tests - RSA

<u>Reference</u>	<u>Name</u>	Test Scenario	Applicable User Role
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	<u>RSA</u>

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	RSA

8.1.25 DCC Alert Tests - OU

<u>Reference</u>	<u>Name</u>	<u>Test Scenario</u>	Applicable User Role
<u>N24</u>	Update HAN Device Log Result - Successful Communications Hub Function Whitelist Update	Mandatory	<u>ou</u>
<u>N55</u>	SMETS1 Service Provider Alert	Mandatory SMETS1	<u>ou</u>

Reference	SMETS Variant	Name	Test Scenario	Applicable User Role
N24	SMETS1 & SMETS2	Update HANDevice Log Result Successful Communications Hub Function Whitelist Update	Mandatory	OU
N55	SMETS1	SMETS1 Service Provider Alert	Mandatory	ou

8.1.26 Response Code Tests

The following table outlines the Response Code Tests required to be executed by User Role. The purpose of these tests is to prove that a party can receive a subset of Response Code messages based on the differing types of response codes that can be received.

New User

The following User Role tables reflect the test Response Codes that must be executed by a new Party seeking to undertake UEPT. The tests are those indicated as 'Mandatory, Mandatory SMETS1 and Mandatory SMETS2+ ' in the test scenario column, for which they must be executed for each specific User Role. Those indicated as 'Mandatory' must be executed in respect of a SMETS1 Device and a SMETS2+ Device. Those indicated as 'Mandatory SMETS1' must be executed in respect of a SMETS1 Device. Those indicated as 'Mandatory SMETS2+' must be executed in respect of a SMETS2+ Device. Where the Response Code Tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Existing User seeking to send Service Request that access R2.0 functionality

In the case of R2.0 there are no specific Response Codes that require testing.

Existing User seeking to send Service Request to SMETS1 Devices

The tests that must be executed if a Testing Participant has already completed UEPT and is seeking to test Response Codes for SMETS 1 Devices in a particular User Role (Eligibility Testing), as set out in clause 4.3 of the UTSAD, are those indicated as 'Mandatory or

Mandatory SMET S1' in the test scenario column for the relevant User Role. Those indicated as 'Mandatory' must only be executed in respect of a SMET S1 Device and those indicated as 'Mandatory SMET S1' must only be executed in respect of a SMET S1 Device. Where the Response Code Tests are indicated as N/A there is no requirement to test during execution of the test scenarios.

Reference	Name	Test Scenario	<u>User Role</u>
<u>E11</u>	Failed Validation - Invalid Service Request / Device Type combination	<u>Mandatory</u>	ISES GSED GT RSA OU
<u>E13</u>	Failed Validation – Invalid Request Type for URL	Mandatory	ISES GSED GT RSA OU
<u>E19</u>	Failed Validation – Device doesn't exist	Mandatory	ISES GSED GT RSA OU
<u>E60</u>	Failed Validation – Invalid Service Request for SMETS1 Devices	Mandatory SMETS1	ISES GSED GT RSA OU
<u>E63</u>	Failed Validation – Invalid Command Variant for SMETS1 Service Request	Mandatory SMETS1	ISES GSED GT RSA OU
<u>E64</u>	Verify that the User ID in the Service Request is that which was previously notified to DCC, where a specific User ID is required to be used	Mandatory SMETS1	IS GS ED GT

Reference	SMETS Variant	Name	Test Scenario	User Role
E11	SMETS1 & SMETS2	Failed Validation Invalid Service Request / Device Type combination	Mandatory	ISES GSED GT RSA OU
E13	SMETS1 & SMETS2	Failed Validation Invalid Request Type for URL	Mandatory	ISES GSED GT RSA OU
E19	SMETS1	Failed Validation Device doesn't exist	Mandatory	ISES GSED GT RSA OU
E 60	SMETS1	Failed Validation Invalid Service Request for SMETS1 Devices	Mandatory	ISES GSED GT RSA OU
E-63	SMETS1	Failed Validation Invalid Command Variant for SMETS1 Service Request	Mandatory	ISES GSED GT RSA OU
E64	SMETS1	Verify that the User ID in the Service Request is that which was previously notified to DCC, where a specific User ID is required to be used	Mandatory	ISGS ED GT

8.1.27 Self Service Interface Test

The following tables outline the test required to be executed by a Testing Participant to determine whether the prospective User can access the SSI.

	<u>Test Scenario</u>
<u>Title:</u>	Testing Participant can successfully log into and access the Self Service Interface.
Prerequisite:	 Testing Participant holds the role of IS, IS, ES, ED, GT, RSA or OU for testing purposes. Connection to DCC System. Party SSI login authentication via DCC or own IDP.

Steps	Description	<u>Objective</u>	Actions	Acceptance Criteria
1	Login via IDP	Authenticate via <u>IDP</u>	Party to open the web service for SSI logon and complete Party login via DCC or own IDP.	Login success and the authenticating SEC Party will be presented with Self Service Interface.

		Test Scenario				
Title:		Testing Participant can successfully log into and access the Self Service Interface.				
Prerequi	isite:	* Testing Participant holds the role of IS, IS, ES, ED, GT, RSA or OU for testing purposes. Connection to DCC System. Party SSI login authentication via DCC or own IDP.			VU for testing purposes.	
Steps	Descri	ption	Objective	Actions	Acceptance Criteria	
1	Login	via IDP	Authenticate via IDP	Party to open the web service for SSI logon and complete Party login via DCC or own IDP.	Login success and the authenticating SEC Party will be presented with Self Service Interface.	

9 Annex D: Forms and Templates

Extant versions of templates for the following documents will be maintained on the DCC Website or SharePoint.

DCC Acknowledgement of Intention to Undertake Testing template
Test Readiness Report template
Test Plan template
Test Execution Dashboard template
Test Completion Report template

Template

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10 Annex E: TEST COMPLETION CERTIFICATE

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TEST COMPLETION CERTIFICATE

To: [Party]

From: [DCC]

[Date]

Dear Sir or Madam,

TEST COMPLETE CERTIFICATE

[TEST]: [insert description, to correspond with relevant description, insert list of Service Requests for which testing has been completed]

We confirm that the relevant Exit Criteria have been achieved in respect of: [TEST]

Party: [Party]

User Role: [User Role]

Yours faithfully

[Name]

[Position]

Acting on behalf of the DCC

11 Annex F: DEFINITIONS

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Term	Definition	Source
Entry Criteria	The criteria that must be satisfied before testing can commence	Clause 5.4.2 of this document
Exit Criteria	The criteria that must be satisfied before testing can be considered complete	Clause 5.6.2 of this document
SMETS2+ Install and Commission	The process of installing and commissioning a <u>SMEST2+</u> Communications Hub Function, a <u>SMETS+</u> Gas Proxy Function (in the case of Gas Smart Meters) and <u>SMETS2+</u> Smart Meters with the DCC.	Clause 5.1 of this document
Regression Testing	Testing of a previously tested programme following modification of that programme to ensure that defects have not been introduced or uncovered in unchanged areas of the software, as a result of the changes made (and Regression Test shall be construed accordingly)	International Software Testing Qualifications Board
Relevant Party	The Party which is undertaking the necessary steps for the purposes of User Entry Process Tests	This document
(Requirements) Traceability Matrix	A matrix of defined requirements that provides traceability (linkage) to Test Scripts for the purpose of providing a measurement of test coverage	International Software Testing Qualifications Board
Test Completion Certificate	A certificate issued by the DCC to a Party in a particular User Role upon request and in any event in accordance with 5.6.1.3 when that Party successfully completes UEPT.	Clause 10 of this document
Test Completion Report	A document summarising testing activities and results. It also contains an evaluation against Exit Criteria.	Clause 6.1.6 of this document
Test Data	The data constructed for the purposes of undertaking User Entry Process Tests	Clause 7 of this document
Test Data Plan	The document that sets out: the size and type/format of data, who is responsible for providing the data; and when the data is required to be available to support test activities in a Test Plan	Clause 7 of this document
Test Execution Dashboard	The document summarising testing activities and results, produced at regular intervals, to report progress of testing activities against a baseline (such as the original test plan) and to communicate risks.	Clause 6.1.5 of this document
Test Management Tool	A tool that has the ability to log and track Testing Issues.	Clause 5.6.2 of this document
Test Plan	A document describing the scope, approach, resources and schedule of intended test activities within a Test Stage that will be produced as -set out in clause 6.1.4	Clause 6.1.4 of this document
Test Result	The consequence/outcome of the execution of a test script	Clause 6.1.5 of this document
Test Readiness Report	A report that when completed provides the capability to assess the status of test preparation and determine the readiness to proceed into test execution	Clause 6.1.3 of this document

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Term	Definition	Source
Test Schedule	A list of test process activities, tasks or events identifying their intended start and finish dates and/or times and interdependencies.	Clause 6.1.4 of this document
Test Script	A document specifying a sequence of actions for the execution of a test	Clause 6.1.8 of this document

References

Abbreviation	Title & Originator's Reference
SEC	Smart Energy Code
DUIS	DCC User Interface Specification
ETAD	Enduring Testing Approach Document
E2EAD	End to End Testing Approach Document
None	Guide for Testing Participants

12 Annex G: Testing Issue Severity Descriptions

Severity 1	An Issue which in relation to the Relevant Party: • would prevent user from using their systems • would have a critical adverse impact on business activities • would cause significant financial loss • would result in any material loss or corruption of Data. Non-exhaustive examples: • an Issue leading to non-availability of systems • all test progress is blocked.
Severity 2	An Issue which in relation to the Relevant Party: • would have a major (but not critical) adverse impact on use of systems • would cause limited financial loss Non-exhaustive examples: • an Issue leading to non-availability of or to loss of resilience of a material part of their systems • large areas of functionality will not be able to be tested • testing not completely blocked but has been significantly impacted.
Severity 3	An Issue which in relation to the Relevant Party: • would have a major adverse impact on business activities but which can be reduced to a moderate adverse impact through a work-around • would have a moderate adverse impact on the business activities Non-exhaustive examples: • testing can progress but the work-around will impact test progress.
Severity 4	An Issue which in relation to the Relevant Party:

would have a minor adverse impact on business activities

trivial Issues with work-arounds which are noted for future releases but minimal

minor service interruptions in the business process

An Issue which in relation to the Relevant Party:

would have minimal impact on business activities

Non-exhaustive examples:

impact of running existing activities tests can still pass but there are cosmetic issues.

Non-exhaustive examples:

Description

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Severity 5

Severity