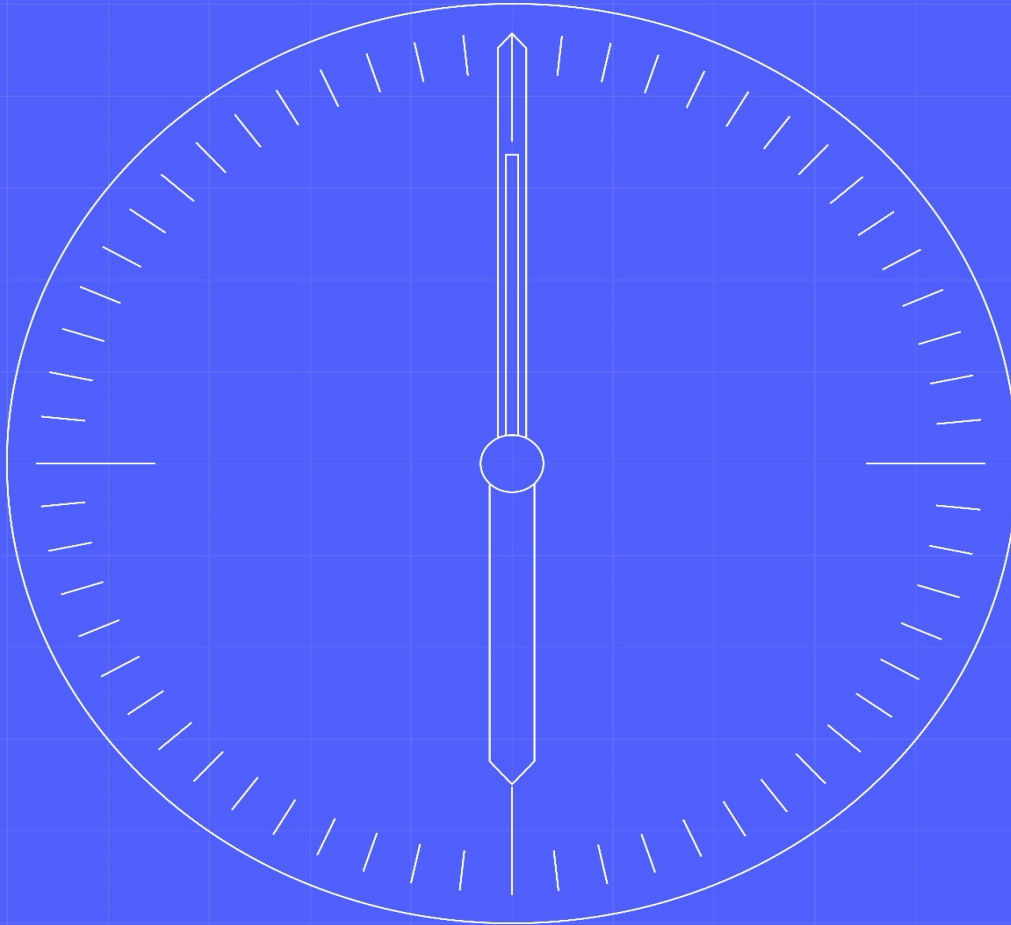


SIT Functional Data Loading High-Level Guidance



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1.1 Change Record

Date	Author(s)	Version	Change Detail
05/12/2023	Cesar Lopes	0.1	Initial Draft
20/12/2023	Richard Puddephatt	1.0	Updated after LDP/SRO review
04/01/2023	Richard Puddephatt	1.1	Updated after issue to PP's

1.2 Reviewers

Reviewer	Role
John Wiggins	SI Migration Manager
Richard Puddephatt	SI Test Data Manager
Kevin Davis	SI Test Architect
Adrian Ackroyd	SRO Function Client Delivery Manager
Smitha Pichrikat	SRO Function Client Delivery Manager

1.3 References

Ref No.	Document/Link	Publisher	Published	Additional Information
REF-01	MHHS-DEL813 Overarching Test Data Approach & Plan	SI Testing	19 th July 2023	
REF-02	MHHS-DEL1367 SIT Functional Test Data Approach & Plan	SI Testing	16 th August 2023	
REF-03	MHHS-DEL1117 SIT Functional Test Scenarios	SI Testing		
REF-04	MHHS-DEL618 – Environment Approach & Plan	SI Testing		

1.4 Terminology

Term	Description
Various	For terminology, see Programme Glossary on the MHHS portal: Programme Glossary (SharePoint.com)

1.5 Summary of Changes

V1.0 20/12/2023 Initial Release of the document.

V1.1 04/01/2024 – Change to table 3 dates – in SIT test data loading mechanism

2 MHHS - SIT Functional Test Scope and Data Requirements

The objective of the SIT Functional Testing stage is to:

- **Validate the new MHHS arrangements by involving all participants connected via the Data Integration Platform (DIP), enabling End-to-end functional tests.**

SIT Functional Testing will be achieved by establishing a test environment where all Central Systems, the Registration Service and at least two Services for each Role are connected via the Data Integration Platform (DIP), in addition to DCC (DSP and CSS), Retail Energy Code Company (RECCo) – Electricity Enquiry Service (EES) and ElectraLink (DTN).

The following list of documents contains the support plan and detailed information required for providing SIT Functional Test Data:

- **[REF-01] MHHS-DEL813 Overarching Test Data Approach & Plan:** describes the overall Test Data approach and specifically the MHHS programme SIT production data cut executed on 19 August 2023.
- **[REF-02] MHHS-DEL1367 SIT Functional Test Data Approach & Plan:** provides the detailed plan and mechanisms to load test data for SIT Functional Tests.
- **[REF-03] MHHS-DEL1117 SIT Functional Test Scenarios:** contains the list of Functional Test Scenarios.
- **[REF-04] MHHS-DEL618 – Environment Approach & Plan:** contains the description of the MHHS Programme Test Environment.

3 Specific MHHS SIT Functional Data Loading

During the execution of an SIT Functional Test Scenarios:

1. **Multiple participants** will send and receive messages to and from the DIP.
2. A test scenario involves programme participants with **different market roles**. Example: A data service system sends a message to a supplier system.
3. The tests will involve the **functional processing of the messages** by the participant's system and the correct response. The content and accuracy of the data contained within the message is crucial to the success of the tests.
4. **Programme participants will be paired** in groups containing participants with all different market roles required to execute the test scenarios.

3.1 SIT Functional Test Data Buckets

The **Test Data will be provided in buckets per pairing group** and per SIT Functional Test Cycle (see Figure 1):

- A single supplier will be assigned to a Test Data Bucket.
- Following the pairing preferences, one or more meter services, data services and MDR will be assigned to each bucket.
- All SIT Programme Participants will be assigned to at least one bucket.
- A minimum of 800 MPANs will be allocated for each bucket.
For example eight suppliers are currently executing SIT Functional Tests. A minimum of 6,400 MPANs (8 suppliers x 800) will be allocated as part of SIT Functional Tests Cycle 1.
- If the burn down rate exceeds the planned volume of MPANs then a mechanism will be provided to request further MPANs.
- The buckets will contain MPANs of different market segments, following the distribution described in Figure 1.
 - Inside each market segment, a mix of MPANs will be provided to increase variety. Example: MPANs with different connection types, domestic and non-domestic.
- The initiator of the Test Scenario is responsible for picking the MPAN from the bucket to be used during the test execution.
 - The Test Data team will provide a tool/mechanism for participants to inform and keep tracking of MPANs . This will be available prior to the start of SIT Functional.
 - A special bucket, "Functional – Cycle 1 – DCC DSP End-to-End", contains 10 MPANs (five import/export pairs) reserved for setting up four Smart Meters (plus one backup) in the DCC lab to allow test on actual devices

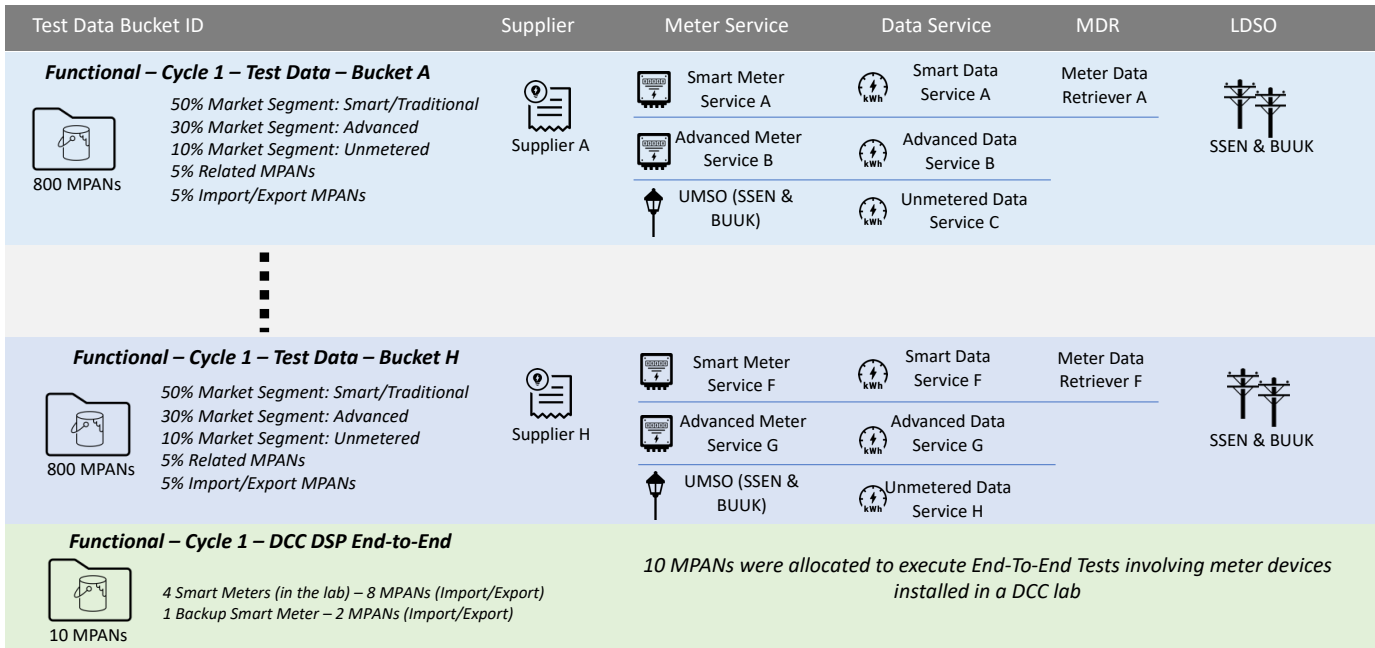


Figure 1: SIT Functional Test Data buckets

Each bucket will contain an extra csv file named **BUCKET_DATA_INFO.csv**. The Table 1 describes the content of that CSV file.

Table 1: BUCKET_DATA_INFO.csv description

Column Name	Description	Example
MPAN_REF	MPAN Reference number to be used in communications (Email, logs, tickets and instant messages)	SOUT_12345678
MPAN	The 13 digit MPAN Core (Personal Identifiable Information – cannot be shared using email, instant messages or logs attached to bug tickets)	1234567890123
TEST_DATA_BUCKET	Test data bucket identification	SIT_FUNCTIONAL_CYCLE_01_BUCKET_A
SUPPLIER_MPID	MIPID of the Supplier allocated to the MPAN	EOND
SUPPLIER_DIPID	DIPID of the Supplier allocated to the MPAN	2300000003
METER_SERVICE_MPID	MIPID of the Meter Service allocated to the MPAN	OESL
METER_SERVICE_DIPID	DIPID of the Meter Service allocated to the MPAN	1200000015
DATA_SERVICE_MPID	MIPID of the Data Service allocated to the MPAN	KTDS
DATA_SERVICE_DIPID	DIPID of the Data Service allocated to the MPAN	1400000004
MDR_MPID	MIPID of the MDR allocated to the MPAN	EOND
MDR_DIPID	DIPID of the MDR allocated to the MPAN	1500000003
LDSO_MPID	MIPID of the Distributor	SOUT
LDSO_DIPID	DIPID of the Distributor	2500000002
MPAN_MARKET_SEGMENT	Market Segment Indicator (DI-050)	S
MPAN_CONNECTION_TYPE	Connection Type (DI-015)	W
MPAN_ENERGY_DIRECTION	Energy Direction (DI-035)	E
MPAN_DOMESTIC_INDICATOR	Domestic Premise Indicator (DI-030)	1
MPAN_METER_TYPE	Meter Type (DI-059)	S2AD

3.2 SIT Functional Test Themes vs Test Data Approach

The SIT Functional Test Scenarios will be grouped and executed following **Functional Themes**. The Table 2 describes the Test Data Approach per Functional Theme.

Table 2: SIT Functional Themes vs Test Data Approach

#	SIT Functional Theme	Test Data approach
1	New Connections	<ul style="list-style-type: none"> Guidance only: No MPAN is required.
2	Change of Registration	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required by test scenario for coverage, MPANs created during the New Connection Theme can be used.
3	Change of Supplier	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used. SI to facilitate "Incoming Supplier" to know which MPAN to use from the "Outgoing Supplier" bucket.
4	Change of Data Service	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used. SI to facilitate "Incoming Data Service" to know which MPAN to use from the "Outgoing Data Service" bucket.
5	Change of Meter Service	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used. SI to facilitate "Incoming Meter Service" to know which MPAN to use from the "Outgoing Meter Service" bucket
6	Metering Changes	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used.
7	Consumption	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used.
8	Settlement	<ul style="list-style-type: none"> MPANs pre-seeded to DIP. MPANs pre-loaded in the participant's systems. If required for test coverage, MPANs created during the New Connection Theme can be used. SI, in collaboration with Elexon Helix, to ring fence "BM Units For Supplier In GSP Group" for Settlement check.
9	ISD	<ul style="list-style-type: none"> Guidance only: No MPAN is required.

3.3 SIT Test Data Loading Mechanism

The Test Data Loading mechanisms and format will be the same as used for SIT Component Integration Tests. The Table 3 contains the data format the data will be shared per market role.

Table 3: SIT Functional Test Data Loading Formats

#	Market Participant Role	Transfer format for initial population (data sent by SI)	Augmented Data provided by
1	Elexon Central Settlement Services	PUB-001, PUB-018, PUB-031, PUB-036, CSV	<ul style="list-style-type: none"> Cycle 1: 26 Jan 2024 Cycle 2: 03 May 2024 Cycle 3: 19 July 2024

#	Market Participant Role	Transfer format for initial population (data sent by SI)	Augmented Data provided by
2	MPRS	CSS2860, DB02, DB05, D0312, IF-031, IF-034, CSV	<ul style="list-style-type: none"> Regression: 27 September 2024
3	SDS	PUB-033, PUB-036, CSV	
4	ADS	PUB-033, PUB-036, CSV	
5	Metering Service	PUB-033, PUB-036, CSV	
6	UMSDS	PUB-033, PUB-036, CSV	
7	UMSO	PUB-033, PUB-036, CSV	
8	EES	CSV	
9	DCC – CSS	CSV	
10	DCC – DSP	CSV	
11	LDSO	CSV	
12	Suppliers	PUB-036, CSV	
13	DIP	IF-031 (2 times per MPAN): 1 – Metering Service 2 – Data Service IF-036 (2 times per MPAN): 1 – Metering Service 2 – Data Service CSV	
14	Legacy MEM	N/A	
15	Legacy DC	N/A	N/A