Code Drafting Consultation Advisory Notes - Interfaces/Data Specifications and Transition Text

Version 1.0

MHHS DEL1715

The Code Workstream has produced several Code Artefacts for industry review and comment.

This consultation process seeks to confirm that the Design Artefacts (Version 5.0, plus amendments up to Interim Release 4) have been where relevant correctly translated into the Code Artefacts.

Review feedback should consider whether the code drafting reflects the MHHS Design (Version 5.0, and up to IR4 amendments)
- If you feel it does not, please submit your feedback by downloading the **Code Artefacts Consultation Comments** from the Tranche 4 Code collaboration base page.
- If you feel the Code could better reflect the MHHS Design, please respond with improved wording
- If you spot a minor change or typo, please respond Code@mhhsprogramme.co.uk
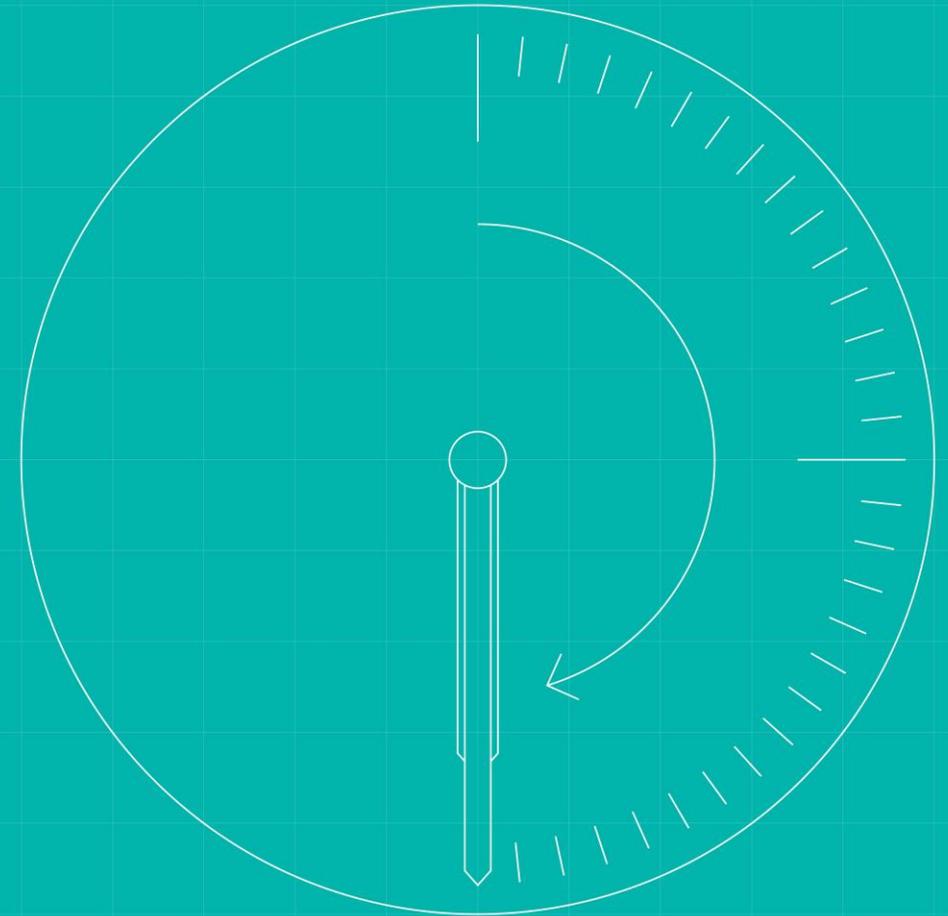
The topic areas in scope for this industry consultation are:
- Balancing & Settlement Code (BSC) Interfaces/Design Specifications, Transition Text, Long Term Vacant
- Retail Energy Code (REC) Interfaces/Design Specifications, Transition Text

All documents are either new clean versioned artefacts or redlined versions.

The Design solution is baselined through the Design Workstream and does not form part of the Code Drafting Consultation. Any comments relating to the MHHS Design must be directed to design@mhhsprogramme.co.uk

Consultation Advisory Notes

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To submit your feedback, please download the Code Artefacts Consultation Comments from the Tranche 4 page Code consultation page. Save the spreadsheet with a file name that includes the short name of your organisation. Once completed, please email the spreadsheet to code@mhhsprogramme.co.uk.
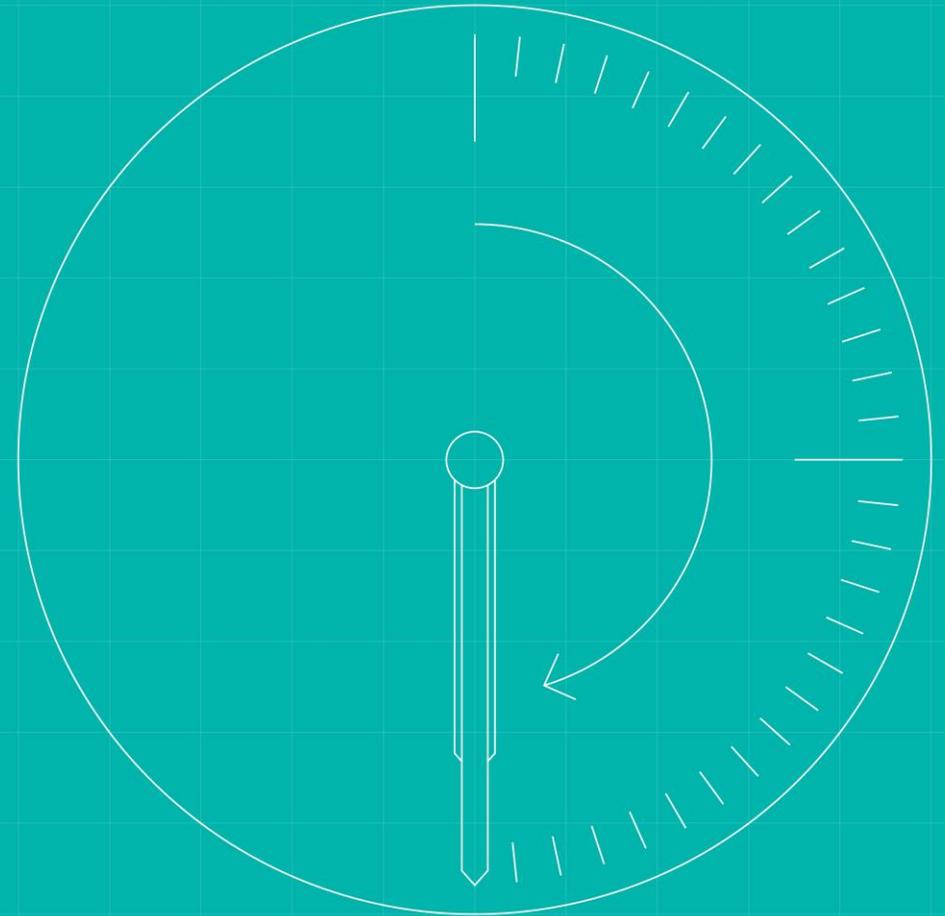
Consultation questions:

Column Header	Guidance Note	Field Type	Field Requirement
Code Artefact Name	Choose the Code Artefact that you're reviewing from the drop-down list	Drop-down menu	Mandatory
Document Section	Include the section for which your comment is related to e.g. paragraph 4.1	Free text	Mandatory
Comments	Provide the comment you have in relation to the document you are reviewing e.g. CSS (or CCS in document) is referred to as Actor but no interaction with CSS in business process	Free text	Mandatory
Related Design Artefact	If your comment relates to a Design Artefact, please ensure you include the name of the Artefact e.g. MHHSP-BPD002	Free text	Optional
Related Design Artefact Section/Step	If your comment relates to a Design Artefact, please ensure you include the relevant section or step in the Artefact	Free text	Optional
Suggested Change	For example, propose new wording	Free text	Mandatory
Comment Owner	Provide your name as the comment owner	Free text	Mandatory
Organisation	Provide the name of your organisation	Free text	Mandatory
Constituency	Provide the name of your constituency	Free text	Mandatory

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Review Stage	What happens in the review stage?	What do I need to do as a participant?
1. Comment Triage & Resolution	• Comments will be reviewed and allocated to a triage category • Code Issues will be identified and prioritised • Comment responses will be updated to provide the rationale and/or the proposed change	• Comment Owners to provide further information on comment if required • Comment Owners to be available to discuss comments directly if required
2. Comment Response Review	• Comment responses will be published onto the Collaboration Base and through the CDWG papers • Code drafting will be presented to CDWG for participant feedback and review following open consultation with industry parties • CDWG will review the comments and issues raised through drafting and determine any changes or additions to code drafting • CDWG review activities will be presented to CCAG for consideration as to whether code drafting can be approved in principle before the final consultation	• Review comment responses and proposed changes • Review CDWG meeting materials and provide feedback before the meeting • Attend CDWG meetings to contribute to comment discussions
3. Agree consensus	• Where there is not consensus across industry parties, comments will be identified and entered into the Dissensus process • Comment owners will be contacted to raise a Dissensus Form • Dissensus Issues will be discussed in the Dissensus forum	• Comment Owners to complete Dissensus Form, summarising their position and providing rationale and associated materiality • Comment Owners to present their position at the Dissensus forum for discussion • Industry Participants to attend the Dissensus forum to agree decision on Dissensus items
4. Cross-Code Advisory Group (CCAG) (assurance)	• Oversee central coordination, monitoring and management of code changes • Review and action work carried out by CDWG • Manage, consult and approve recommended decisions from CDWG	• Provide feedback to your Constituency Representative for discussion at CCAG. Please note that any code drafting questions should be raised at CDWG

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Balancing and Settlement Code (BSC) Code Artefacts

BSC Interface/Data Specifications Code Artefacts in scope of 18 August consultation are set out below:

BSC document	Related Design Artefacts	Change tracking applied	Complexity of change
MHHS P-Flows Part 1 – Interfaces		New Artefact	Medium
MHHS P-Flows Part 2 – Data Items		New Artefact	Medium
BSCP706 – Supplier Meter Registration Service for MHHS Metering Systems		Redlined BSCP document	Medium

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MHHS impacts to P-flows defined in the SVA Data Catalogue

- The existing SVA Data Catalogue lists all Data Interfaces ([Volume 1](#)) and Data Items ([Volume 2](#)) used in BSC processes, including both "D" (DTN) flows and "P" flows sent between SVA Parties.

- This document has significant overlap with the Energy Market Data Specification, requires constant updating with new changes and is at risk of not being aligned, creating "two versions of the truth".

- The future of the SVA DC is under review, and therefore it is redundant to add DIP interface definitions to it if they will also be defined in the EMDS. The only interfaces not defined elsewhere are "P" flows, which are more loosely structured messages with no DTN or DIP equivalent or replacement.

- The ECS WG reviewed all existing P-flows, and identified those which will be retained under MHHS.

   - The Code Drafting approach is to document *only these P-flows* for review in Tranche 4.

   - **Code Artefacts issued in T4 in respect of P-flows will therefore reflect the MHHS *end state*.**

   - *P-flows for Assurance are under review and will be defined separately under the BSC PA workstream.*

Addition of SMRS Validation Rules into BSCP706

SMRS Interface Processing and Validation Rules added into **Appendix 4**

- These are aligned with Interim Release 4 of the DES138 Interface Catalogue

Updated Operational Choreography associated with CR-018 added into **Section 2**

The following sections of BSCP706 have been updated :

Section 2

2.2   Service Availability

2.3   Service Levels

Appendix 4

4.1   Interface Validation Rules

4.2   SMRS inbound and outbound Interfaces

4.3   Creation of a Skeleton Record for a Metering System

BSC Transition Text and Long Term Vacant Code Artefacts in scope of 11 October consultation are set out below:

BSC document	Related Design Artefacts	Change tracking applied	Complexity of change
Annex S-4: Supplier Volume Allocation Rules for Metering Systems during Transition	MHHSP-TRANS - BRS001 Transition Approach and Parallel Running Requirements	New BSC Annex	Medium
Long Term Vacant		New Artefact	Low

Transition Text

The Transition Text is a new Annex to Section S of the BSC (Annex S-4) and the text will include:

- The obligations on BSC Agents and Parties in respect of Volume Allocation Rules to be followed during Transition:

    E.G. Which Sections of the Annex S-2 or Annex S-3 should be followed during the Transition Period

- The Transition Requirements developed by the Transition Working Group in Tranche 1

- The Transition Design Tranche 2 requirements regarding the Transition to the new Settlement Timetable will be added once agreed and baselined

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Review of Long-Term Vacant process under MHHS

- SDS and ADS BSCPs reference Long Term Vacant (LTV)
- Current process relates to NHH and documented in BSCP504: Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS

Code Drafting Approach

- Definition of LTV to remain consistent with BSCP504
- Optional for Suppliers to utilise, and site visits required to receive the relevant two D0004s –' Notification of failure to obtain reading flows' with the 'Site Visit Check Code' populated to meet the criteria
- Reference to NHH DC updated to Data Service to reflect the potential to be used by both SDS and ADS
- References to D0019 removed and updated to IF/PUB – 024 ' Supplier Advisory Notification to Data Service, Event Code – Vacant

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REC Code Drafting Consultation Advisory Notes

Transition, Interfaces and remaining artefacts

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Code documents in scope of consultation:

REC document	Related Design Artefact*	Change tracking applied	Size of change?
Schedule 1: Interpretations and Definitions	Various	Changes tracked against v4.2 (November 2023 pre-prelease). Also incorporates CP-R0044 (approved awaiting implementation)**.	Medium
Schedule 15: Metering Accreditation	N/A	Changes tracked against v2.5. Also incorporates changes proposed under CP-R0064**.	Low
Schedule X: MHHS Transition	N/A	N/A New Schedule	High
Data Specification: EES API Technical Specification	BRS006 – EES Requirements	Changes tracked against v4.0.0 including approved and implemented REC CP-R0066**	Medium
Data Specification – Data Item Catalogue	DES-138 (v5.4.1) and ERI011B (v5.3), which include changes up to and including Interim Release 4. D Flow and Interface Mapping DES-196 (v1.1). Approved MHHS Programme CR24 and CR25.	Changes tracked against v3.5.0	High
Data Specification – Market Message Catalogue	As above	Changes tracked against v3.5.0	High
Data Specification – Standard Definitions	As above	Changes tracked against v2.4	Medium

*Where requirements already covered in REC documents then these are not shown as redline changes
**Details of REC CP-R0044, CP-R0064 and CP-R0066 can be found at www.RECPortal.co.uk

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REC Code Drafting Transition

Summary of Changes

Schedule X: MHHS Transition Schedule

- New REC Schedule developed to reflect the parallel running of MHHS and legacy arrangements during the MHHS Migration Period. Reflects approach previously discussed with CDWG in 2022 and reconfirmed in September 2023.

- Schedule includes sections covering each MHHS impacted REC artefact and explains how the provisions will differ during the MHHS Migration Period.

- Where processes are being amended under the MHHS design, these will be reflected from MHHS go-live in the updated REC Schedules. Any legacy requirements for Non-MHHS Metering Points, including the interface tables from the existing BAU Schedules (in particular, Schedule 14: Metering Operations), are set out in the MHHS Transition Schedule.

- Parties will therefore be required to read the MHHS Transition Schedule alongside the MHHS BAU drafting to understand requirements during the MHHS Migration Period. The approved MHHS drafting is available on the collaboration base for reference.

- We propose to add a paragraph at the start of each REC Schedule to which the transition arrangements apply. This will clarify which sections are impacted and should be read in the context of the MHHS Transition Schedule. This new drafting would be included as part of the February 2024 Mop Up consultation.

- The above is our preferred approach. However, we will consider any alternatives proposed to improve the clarity for parties on their obligations during the MHHS Migration Period. In addition to our proposal to add guidance at the start of each impacted schedule, this could include further guidance as well as changes to the drafting approach. Any adjustments to the drafting approach would need to be made as part of the Mop-Up Tranche in February 2024.

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REC Code Drafting Interfaces

Summary of Changes

- The Interface Code Drafting Consultation includes three artefacts for review:

  - The Data Item Catalogue and Market Message Catalogue reflecting new MHHS items only. These are provided in a single document available in html and .bacpac formats. Later slides provide information on how to interpret the html document.

  - A redlined Standards Definition Document updated to reflect new MHHS data attributes.

- Subject to the next bullet point, the content of the consultation reflects the following MHHS design artefacts:

  - MHHS Interface Catalogue DES-138 (v5.4.1 which is based on Interim Release 4).

  - ECS Reporting Catalogue ERI011B (v5.3 which is based on Interim Release 4). This includes 4 reports where the detailed definition has been agreed at DAG, but excludes 4 reports (replacements for D0369, D0370, D0373 and D0374) where this work is yet to complete.

  - D Flow and Interface Mapping DES-196 (version 1.1).

- Although in general the consultation is based on IR4, the following approved Change Requests have been applied to provide the latest agreed position. These will need further review during the mop up phase to ensure they reflect the updated design artefacts:

  - CR024 and CR025 which updated Data Item / Market Message names and descriptions to reflect enduring terminology (IR to be confirmed).

Assumptions and Caveats

- The following points have been recognised during the development of the Interface Code Drafting artefacts and are highlighted for information:

    - DIP Market Message descriptions do not reflect the enduring code terminology e.g. use of 'Registration Service' rather than 'SMRS'. These discrepancies will be picked up in a REC housekeeping Change Proposal post MHHS go-live (if not addressed by the Programme beforehand).

    - Detailed definition of four of the eight new ECS Reports to be sent via the DTN have been developed by the MHHS Programme and approved by DAG. As also noted in the previous slide, these are covered under IR4 and therefore have been included in the consultation artefacts. The remaining four reports will be included in the February 2024 Mop Up Tranche (if the detailed design is agreed by DAG with sufficient notice).

    - An assumption has been made that BSCCo is the owner of all MHHS Scenario Variants and new MHHS Data Items.

    - Clarity is required on the S0 (Transaction Info) Block, which is a mandatory group of Data Items included in each DIP Interface. Some DIP Interfaces contain three Data Items, whilst others only contain two. Schema Version has been included in all DIP Market Messages and a design query has been raised to clarify.

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Message / IF Title

EMDS Reference

Description of what the Message is used for

MM20038 - Notification of Change of Supplier

Market Message Information

Market Message Reference	MM20038
MM Description	Following a successful Change of Supplier CSS will notify this to the Registration Service. This is the interface that will be used by the Registration Service to notify, interested, MHHS Participants that a successful Change of Supplier has taken place; and to provide the Supplier with key information about the MPAN as it currently exists in the Registration Service.
Local Catalogue Reference	IF-001
Version	008
Notes	The Incoming Supplier will also receive a 'SecuredActive Notification' from CSS. However, this message confirms that the Registration Service and DIP also recognise that the Change of Supplier has taken place. It was decided that this interface would not be sent to the Outgoing Supplier (as he would receive a 'Loss Notification' from CSS) or to Service Providers (as they would receive Service Provider De-Appointment messages). The MHHS Design is such that its possible that the Registration Service may not always be able to provide details of 'Incumbent Service Providers'. Obviously this will be the case on Initial Registration, but it may also be in cases where the Previous Supplier has been unable to successfully complete Service Provider Appointment(s) prior to the next switch then taking place.
DIP Delivery Pattern	Pattern A (JSON via DIP)
Security Category	Cat 2

MHHS Programme Interface Reference

Message / IF version

MHHS Security Category

DIP Delivery Pattern

Notes to aid in Message / IF usage, or understanding

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Market Message Structure

Scenario Variant Reference

Scenario Variant / MHHS Event Code Name

Not used for Messages sent via DIP (due to routing rules)

DIP Routing

Correlation ID Status

Scenario Variant Owner

Scenario Variants

Scenario Variant	Name	Source	Target	Always	Primary	Secondary	Correlation Id Created	Owner
SV20723	ChangeOfSupplier			MDS, EES	SUPI, SUPL	LDSO	No	Balancing and Settlement Code Company
SV20724	InitialRegistration			MDS, EES	SUPI	LDSO	No	Balancing and Settlement Code Company

One Scenario Variant has been created for each MHHS Event Code

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- The REC Code Manager has undertaken extensive analysis of new MHHS Data Items to link these to existing 'Legacy DTC' J Items.

- Where the definition of a new MHHS Data Item does not differ from the existing J Item, these have been linked together. These can be identified where two Local Catalogue References are present showing the DTC and MHHS item >> J0003 / DI-063

- Some new MHHS Data Items use the same source data as existing Data Items, however, their definition differs from the existing J Item or they have a contextual relationship. In these scenarios, new MHHS Data Items have been created and the MHHS and legacy items have been tied together via an 'Alias'. Alias information is available in the database table DataItemAssociation.

- The next two slides detail the Data Items that have been linked together via an Alias. The main examples of Alias linkage include:

  - Effective From/To Dates/Times. MHHS Data Items are high-definition datetime with 25 characters, whereas Legacy DTC Dates are low-definition dates with 8 characters.

  - Consumption Data is currently defined to 3 decimal places, however the equivalent MHHS Data Items are set at 6 decimal places.

  - Contextual usage of MPID and Meter ID Data Items (i.e. for specific roles, or specific processes)

- Data Item names and descriptions are based on DES-138 v5.4.1, with an uplift applied for CR024.

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Primary Item Reference	Primary Item Name	Primary DI Local Catalogue Reference ('DTC' or Otherwise)	Alias Item Reference	Alias Item Name	Alias DI Local Catalogue Reference (MHHS)
DI51084	GD MPAN EFD	J1787	DI20048	Green Deal Effective From	DI-111
DI51085	GD MPAN ETD	J1788	DI20049	Green Deal Effective To	DI-112
DI90063	supplyStartDate	N/A - CSS Item	DI20272	Supplier Effective From Date	DI-086
DI90045	registrationInactiveDate	N/A - CSS Item	DI20025	CSS RMP DeActivation Date	DI-077
DI90044	registrationActiveDate	N/A - CSS Item	DI20045	CSS Registration Start Date	DI-107
DI51602	Connection Type EFD	J2315	DI20262	Connection Type Effective From Date	DI-016
DI51435	Daily CCC Corrected Supplier Demand Disconnection Line Loss	J2145	DI20287	Daily Supplier Corrected Disconnection Volume Losses	DI-420
DI51434	Daily CCC Corrected Supplier Demand Disconnection	J2144	DI20286	Daily Supplier Corrected Disconnection Volume	DI-419
DI51433	Daily CCC Aggregated Supplier Demand Disconnection Line Loss	J2143	DI20285	Daily Supplier Demand Disconnection Volume Losses	DI-418
DI51432	Daily CCC Aggregated Supplier Demand Disconnection	J2142	DI20284	Daily Supplier Demand Disconnection Volume	DI-417
DI51168	Period Metering System Metered Data	J1872	DI51168	Period Metering System Metered Data	DI-432
DI51139	MPAS Energy Direction Indicator	J1842	DI20065	Associated MPAN Energy Direction	DI-151
DI51135	Effective from Date {SMSO}	J1838	DI20276	SMSO EffectiveFrom Date	DI-135
DI51133	Effective from Date {IHDI}	J1836	DI20277	IHD Status EffectiveFrom Date	DI-136
DI51131	Effective from Date {DCCF}	J1834	DI20263	DCC Effective From Date	DI-026
DI51008	Effective from Date {MAPA}	J1682	DI20268	Meter Asset Provider Effective From Date	DI-054
DI50907	Total CCC Corrected Supplier Line Loss	J1568	DI50907	Total CCC Corrected Supplier Line Loss	DI-388
DI50906	Total CCC Corrected Supplier Consumption	J1567	DI50906	Total CCC Corrected Supplier Consumption	DI-387
DI50905	Total CCC Aggregated Supplier Line Loss	J1566	DI50905	Total CCC Aggregated Supplier Line Loss	DI-386
DI50904	Total CCC Aggregated Supplier Consumption	J1565	DI50904	Total CCC Aggregated Supplier Consumption	DI-385
DI50635	Date of Meter Removal	J1269	DI20270	Meter Removal Date / Time	DI-058
DI50406	Date of Meter Installation	J0848	DI20269	Meter Installation Date / Time	DI-057
DI50338	Effective from Settlement Date {GGD}	J0728	DI20266	GSP Group ID EffectiveFrom Date	DI-036
DI50238	Effective from Settlement Date {SSC}	J0496	DI20275	SSC EffectiveFromDate	DI-125
DI50223	Disconnection Date	J0473	DI20264	Disconnection Effective From Date	DI-027
DI50158	Effective from Settlement Date {MSES}	J0297	DI20265	Energisation Status Effective From Date	DI-034
DI50118	Effective from Date {MOA}	J0210	DI20271	Metering Service EffectiveFrom Date	DI-061
DI50078	Line Loss Factor Class Id	J0147	DI20052	DUoS Tariff ID	DI-128
DI50078	Line Loss Factor Class Id	J0147	DI20124	DUoS Tariff Id	DI-345
DI50065	Effective from Settlement Date {PROF}	J0125	DI20274	Profile Class Effective From Date	DI-124

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Primary Item Reference	Primary Item Name	Primary DI Local Catalogue Reference ('DTC' or Otherwise)	Alias Item Reference	Alias Item Name	Alias DI Local Catalogue Reference (MHHS)
DI50004	Meter ID	J0004	DI20267	Meter ID (Removed)	DI-053
DI50004	Meter ID	J0004	DI20020	Modified Meter ID	DI-060
DI50003	MPAN Core	J0003	DI20021	Principle MPAN	DI-073
DI50003	MPAN Core	J0003	DI20022	Subsidary MPAN	DI-074
DI50003	MPAN Core	J0003	DI51532	Primary MPAN	DI-075
DI50003	MPAN Core	J0003	DI51533	Secondary MPAN	DI-079
DI50002	Market Participant Id	J0002	DI50108	Distributor Id	DI-029
DI50002	Market Participant Id	J0002	DI20087	Incoming Supplier MPID	DI-200
DI50002	Market Participant Id	J0002	DI20088	Outgoing Supplier MPID	DI-201
DI50002	Market Participant Id	J0002	DI20089	De-Appointed Metering Service MPID	DI-202
DI50002	Market Participant Id	J0002	DI20090	De-Appointed Data Service MPID	DI-203
DI50002	Market Participant Id	J0002	DI20091	Incoming Metering Service MPID	DI-204
DI50002	Market Participant Id	J0002	DI20092	Incoming Data Service MPID	DI-205
DI50002	Market Participant Id	J0002	DI20093	Service Provider Appointment Requesting Supplier MPID	DI-206
DI50002	Market Participant Id	J0002	DI20094	Current Metering Service MPID	DI-207
DI50002	Market Participant Id	J0002	DI20095	Current Data Service MPID	DI-208
DI50002	Market Participant Id	J0002	DI20096	Assigned MDR MPID	DI-209
DI50002	Market Participant Id	J0002	DI20099	Import/Export MPAN Supplier MPID	DI-212
DI50002	Market Participant Id	J0002	DI20100	Proposed Metering Service MPID	DI-213
DI50002	Market Participant Id	J0002	DI20101	Proposed Data Service MPID	DI-214
DI50002	Market Participant Id	J0002	DI20102	Supplier Nominated MDR MPID	DI-215
DI50002	Market Participant Id	J0002	DI20103	SDS Nominated MDR MPID	DI-216
DI50002	Market Participant Id	J0002	DI20104	Incumbent Metering Service MPID	DI-217
DI50002	Market Participant Id	J0002	DI50045	Supplier Id	DI-495
DI50002	Market Participant Id	J0002	DI20168	Data Service MPID	DI-498

Data Item Table

Data Items

Data Item Number	Local Catalogue Reference	Name
DI20000	DI-000	Interface ID
DI20018	J2329 / DI-050	Market Segment Indicator
DI20019	DI-051	Market Segment Indicator Effective From Date
DI20046	DI-108	Distributor DIP ID
DI20048	DI-111	Green Deal Effective From
DI20049	DI-112	Green Deal Effective To
DI20052	DI-128	DUoS Tariff ID
DI20053	DI-129	DUoS Tariff ID Effective From Date
DI20213	DI-977	SubText
DI20214	DI-978	Msg Service Ticket URL
DI20217	DI-981	DIP ID Secondary Recipients
DI20218	DI-982	DIP IDs Primary Recipients
DI20219	DI-984	Sender Role ID
DI20220	DI-985	Sender Correlation ID
DI20221	DI-986	Publication ID
DI20222	DI-987	DIP Correlation ID
DI20223	DI-988	Replay Indicator
DI20224	DI-989	DIP TimeStamp
DI20225	DI-990	DIP Transaction ID
DI20226	DI-991	Environment Tag
DI20227	DI-992	Schema Version
DI20228	DI-993	DIP Roles / IDs Always Receipient ID
DI20230	DI-995	Sender Unique Reference
DI20231	DI-996	Connection Provider DIP ID
DI20232	DI-997	(Participant) Sender DIP ID
DI20233	DI-998	Sender Timestamp
DI20234	DI-999	Event Code
DI20262	DI-016	Connection Type Effective From Date
DI20265	DI-034	Energisation Status Effective From Date
DI20266	DI-036	GSP Group ID EffectiveFrom Date
DI20291	DI-167	RMP Status Effective From Date
DI20292	DI-168	MP Status Effective From Date
DI50003	J0003 / DI-063	MPAN Core
DI50028	J0066 / DI-037	GSP Group Id
DI50041	J0080 / DI-033	Energisation Status
DI50137	J0263 / DI-010	Metering Point Postcode
DI50337	J0727 / DI-035	Direction of Energy Flow
DI50488	J1036 / DI-001	Address Line 1
DI50489	J1037 / DI-002	Address Line 2
DI50490	J1038 / DI-003	Address Line 3
DI50491	J1039 / DI-004	Address Line 4
DI50492	J1040 / DI-005	Address Line 5
DI50493	J1041 / DI-006	Address Line 6
DI50494	J1042 / DI-007	Address Line 7
DI50495	J1043 / DI-008	Address Line 8
DI50496	J1044 / DI-009	Address Line 9
DI51159	J1862 / DI-131	MPAN Status
DI51541	J2252 / DI-127	Metered Indicator
DI51542	J2253 / DI-130	Registrable Measurement Point (RMP) Status
DI51601	J2314 / DI-015	Connection Type

This table shows each Data Item contained within the Scenario Variants of that Message / IF. The table contains the REC Catalogue Reference (DI####) and the Local Reference (J#### / DI-###).

Where possible, new MHHS DIs have been linked to existing legacy 'DTC' J Items.

The hyperlink on the left hand side can be used to navigate to the Data Item definitions.

Market Message Structure

- **Messages are represented in the familiar 'Legacy DTC' format.**
- **The content of all Messages is represented at a Scenario Variant (MHHS Event Code) basis, therefore, the individual optionality of Data Items and their respective Value Rules will change based on the SV/Event Code even though they are part of the same Message/IF.**

Group / 'Block' Names

Group / 'Block' IDs

B068	MPAN Consent Info	1-1		G							
					1					Consent Granularity	
					1					Consent Granularity Effective From Date	
B030	MPAN IHD Info	0-1		G							
					1					In Home Display (IHD) Install Status	
					C					IHD Status EffectiveFrom Date	Required if [DI-137] not null
B031	SMSO Info	0-1		G							
					1					Smart Metering System Operator (SMSO)	
					C					SMSO EffectiveFrom Date	Required if [DI-134] not null
B032	MPAN Legacy Info	0-1	Mandatory for Traditional Meters / Optional for other Meters	G							
					C					Profile Class Id	Mandatory for Traditional Meters (if changing)
					C					Profile Class Effective From Date	Required if [DI-122] not null
					C					Standard Settlement Configuration (SSC) Id	Mandatory for Traditional Meters (if changing)
					C					SSC EffectiveFromDate	Required if [DI-123] not null

Group Cardinality & Range
0-0 = Not required
0-1 = Optional, one can be provided
1-1 = Mandatory, one can be provided
0-* = Optional, many can be provided
1-* = Mandatory, many can be provided

Conditional Population Rules
(SV/Event Code Specific)

Data Item Optionality
(SV/Event Code Specific)
1 = Mandatory
O = Optional
C = Conditional (see Value Rules)
N = Not Required

Data Item Name
(can be clicked to navigate to Data Item Definition)

Value Rules
(to help with population of conditional items)

Data Item Structure

EMDS Catalogue Reference

Data Item Name

Local Catalogue Reference

Description of what the Data Item is used for

DI20215 – Response Code

Data Item Information

Data Item Reference	DI20215
Item Description	Response Code associated with a Business Process Action Request
Local Catalogue Reference	DI-979
Data Item Owner	Balancing and Settlement Code Company
Logical Length	1
Decimal Length	
Physical Length	1
Data Type	String
Data Type Format	A general character string
Data Item Notes	
MHHS Data Classification	Public
MHHS Nullable	Mandatory no nulls
MHHS DataType	
YAML Name	responseCode

Current / non-MHHS Data Type

MHHS Specific Attributes that were previously not populated

Data Item Enumeration

Enumeration Value	Enumeration Description
A	Accepted
R	Rejected
L	Lapsed
W	Warning

Allowable Enumerations/Valid Sets for Data Item and their description

In Market Messages

Market Message
MM20007
MM20011
MM20012
MM20014
MM20016
MM20018
MM20024
MM20029
MM20032
MM20034

List of Messages Item is contained in

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- The Standards Definition document sets out the required format and definition of each Data Item within the REC Data Specification.

- As a part of the Interface drafting process, new MHHS specific attributes have been added to this document. Parties should therefore reference this document to assist in verifying the new attributes and their descriptions introduced through MHHS.

- Minor housekeeping changes within existing drafting have been identified as part of the review. These have been notified to the REC Code Manager and will be progressed separately.

REC Code Drafting
Remaining artefacts

Summary of Changes

Schedule 1: Interpretations and Definitions Schedule

- Schedule covers definitions used throughout the REC.

- Consultation version shows redlined changes to existing definitions and also includes new definitions introduced through MHHS design.

- Red-line changes are shown against the November 2023 pre-release version of Schedule 1, and also incorporates approved REC CP-R0044 (which will be implemented for MHHS go-live). This will minimise the amount of further change required in the February 2024 Mop Up Tranche consultation.

- Following points to note:

    - Definitions align to existing terminology and REC approach and therefore do not necessarily reflect the definitions used in the MHHS Design e.g. for consistency with the rest of the REC, we have used Advanced and Smart MEMs rather than Advanced and Smart Metering Service.

    - Multiple definitions cross reference the BSC, where the enduring definition is expected to be documented. This will be validated against the December 2023 BSC Mop Up Tranche consultation in December 2023.

    - Drafting overwrites previously approved definition of Supplier Agent within CP R0044 text as MDRs will not be classified as Supplier Agents in their own right.

    - Minor housekeeping changes within existing drafting have been identified as part of the review. These have been notified to the REC Code Manager and will be progressed separately.

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- REC Schedule covers approval of gas and electricity MEMs.

- MHHS changes are minimal, to reflect the requirement for MEMs to be Qualified as Smart and / or Advanced MEMs depending on the Market Segment they plan to operate in.

- Drafting was deferred from Metering Tranche to allow CP-R0064 'Creating a Meter Operator and MOCoP Installer' to complete. This CP is still being progressed.

- However, for the purpose of this consultation, the MHHS related change has been applied to the published R0064 text. This can be updated through the Mop-Up Tranche if necessary, e.g. if CP-R0064 is not approved or the legal text is further amended.

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Data Specification: EES API Technical Specification

- This artefact defines the content of the EES API and has been amended to reflect the changes required to support MHHS.

- During the MHHS Migration Period, the existing EES API will be amended to facilitate access to all relevant MHHS data items, for both MHHS and legacy MPANs, independent of their migration status.

- MHHS data items for legacy MPANs will be nullified (subject to bullet below).

- MPANs that have been Reverse Migrated will continue to show the Annual Consumption (inc. EFD and Quality Indicator) that was provided when they were operating within the MHHS arrangements.

- Post M15, a further change will be required to the EES and associated documentation to remove reference to legacy Data Items.

- As this has been progressed as a consequential change, a draft EES API Technical Specification was discussed and developed with RECCo's MHHS Stakeholder Advisory Group (MSAG). It was issued for consultation under the REC on 18 August. Minimal comments were received, and the artefact is now being issued for consultation as part of the MHHS drafting so that it can be incorporated as part of these wider changes.

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Code Drafting Consultation Advisory Notes

DCUSA Transitional Text

Transitional Text

DCUSA document	Related Design Artefact	Change tracking applied	Complexity of Change
DCUSA Transitional Text		New Artefact	Medium

The DCUSA changes are categorised into two parts:

- Housekeeping changes – to align with the new terminology introduced by the MHHS Programme; and

- Consequential changes – the removal or addition of obligations to cater for the Programme changes but has a material impact on the current DCUSA legal text

The DCUSA transitional text caters for the existing and new MHHS arrangements (and not the end state) for both housekeeping and consequential changes within one document

An ongoing review will be undertaken to align the text with the latest version of DCUSA including any further approved but not yet implemented changes prior to the submission to DCUSA Ltd for implementation.

A housekeeping change will be required at the end of the Programme to remove terminology no longer required

DCUSA MHHS Transitional text - Housekeeping

Clause/Schedule Number	Title	Process Change
Clause 1	Definitions and Interpretation	adds and amends definitions
Clause 8 Clause 12	Costs of DCUSA Voting	added in new BSCP706 (the section on reporting specifically para 2.6.3 – Supplier Metering System Count Report (which has still to be defined). How will this work with the same report from BSCP501?
Cluase 15 Clause 42 Schedule 11 Schedule 19 Schedule 21	interpretation of section 2A Metering Equipment Data Part Details Portfolio Billing Portfolio Billing for Nested Networks	equivalent of Market Domain I.D. included
Clause 18	Use of System	new qualification parties added for MHHS
Clause 21	Aggregated Billing and Payment	includes Data Service Agent alongside Data Collector
Clause 25	Energisation, De-energisation and Re-energisation	a tidy up on energisation/disconnection on ownership (MHHSP-BP-008, REC Metering Operations schedule and BSCP705 - Licensed Distribution)
Clause 59	Data Transfer and Notices	to cater for DIP in addition to the DTN
Schedule 2B	National terms of connection – Part 4	Unmetered definitions amended to keep the main body unaffected
Schedule 4	Billing and Payments disputes	amended to cater for Data Service Agent
Schedule 33	Disconnections	code ownership amendments (MHHSP-BP-007 – Disconnection)

DCUSA MHHS Transitional text – Consequential Changes

Programme reference number	Title	Process change	Comment
CCIAG-CCT-32	Demand Control	Schedule 8	the changes introduce the DCUSA Tariff ID to eventually replace LLFC. The impact is on the data content of the table in the appendix to the schedule provided by the distributors and the likely need for more DCUSA Tariff IDs linked to different time periods within each demand control geographical area.
CCIAG-CCT-33	Charging Methodology	Schedule 16	changes introduced due to the removal of measurment class such as connection type, and to determine the MPAN count for energised sites
CCIAG-CCT-34	Residual Charges	Schedule 32	introduces a new MHHS report for aggregated MHHS sites for for Annual Consumption
CCIAG-CCT-35	Remove legal text owned by another code	Clause 25 Schedule 33	catered for in the Housekeeping change to impact the design artifacts on ownership
CCIAG-CCT-36	Billing and Invoicing (DCP415)	Definitions Clause 19 (charges) Schedule 16 Schedule 19 Schedule 21	Introduces a new DIP flow associated with Daily Statements. DCP415 is likely to be withdrawn due to CR19 being approved subject to the design content being acceptable. The changes to the legal text reflect those in DCP415. Design artifacts were to be released in August 2023 but deferred to October 2023. Square brackets have been applied to where the information may differ relating to the DIP flow number.
	Billing and Invoicing (DCP416)	Clause 21	introduces electronic invoicing via a DIP flow. DCP416 is likely to be withdrawn due to CR27 being approved subject to the design content being acceptable. The changes reflect those in DCP416. Design artifacts are planned to be released in October 2023. Square brackets have been applied to where the information may differ relating to the DIP flow number.
CCIAG-CCT-37	Transitional protection for CT customers transitioning to HH settlement (DCP414)	Clause 19 Schedule 16	Authority approved the change on 31/07/2023 with an implementation date of 01/04/2024. Legal text to be updated once the text is implemented in DCUSA. Athough there are references to MHHS there is no impact on the design artifacts

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DCUSA MHHS Transitional text – next steps

The document is to be submitted for consultation at the same time as the Transitional tranche

A further review will be undertaken post the consultation and consider the responses together with any further amendments necessary due to other Programme activities associated with the:

- Transitional;

- interfaces; and

- Mop up activities

It is anticipated that by the end of the consultation any further changes will be identified in preparation for a further consultation during the mop-up or consistency check tranche which will include a review by the DCUSA Lawyers.

In addition, BSC issue 101 covering the DIP governance is closely monitored for any impact on the DCUSA.

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Thank you

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