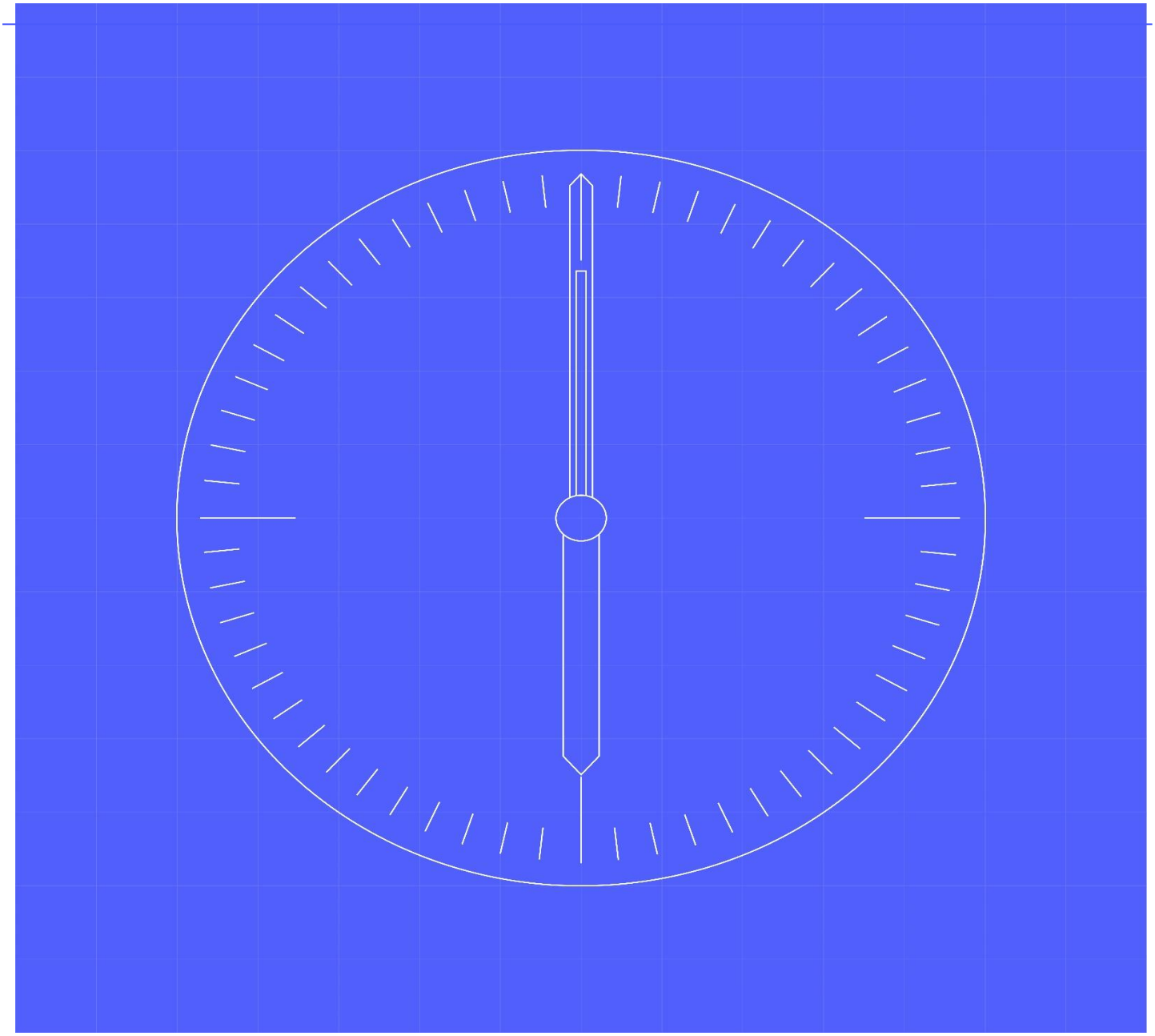
MHHS PROGRAMME
Industry-led, Elexon facilitated

MHHS Design Release Note
Interim Release.05
Release Date: 04-10-2023



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Design Team	**DEL1275**	**V1.0**
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Final	**04/10/2023**	**Public**

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1 Contents

1 Contents **1**

1.1 Change Record 2

1.2 Reviewers 2

2 INTRODUCTION **3**

3 OVERVIEW **3**

3.1 Release Feedback 3

4 Impacted Artefacts **5**

5 Resolved Issues **6**

6 Unaffected Artefacts **10**

7 Issues/Limitations **12**

8 Past Releases **12**

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1.1 Change Record

Date	Author	Version	Change Detail
24/09/2023	Rob Topley	0.1	Initial Draft
04/10/2023	Rob Topley	1.0	Final version

1.2 Reviewers

Reviewer	Role

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2 INTRODUCTION

These are the release notes for Interim Release 5 of the MHHS Design.

Use Release Notes to keep up with what's going on. Release notes provide a summary of what's new and what issues have been resolved within the design.

3 OVERVIEW

Here's what's new or updated within **Interim Release 5**

Improvements:

- CR19/CR27 (DIN246) for Replacement of D0242 D0315 and DUoS E-Billing DIP Message for MHHS is included in this release.
- CR28 (DIN620) for Remove EES as a Recipient of IF-001 is included in this release.
- CR29 (DIN278) for addition of optionality matrix to DES138. Name of worksheet: 04_IF_Optout_Matrix
- CR30 (DIN650) for Introduction of Compressed Payloads into DIP Messages is included in this release.
- Changes to align DES138 Data Interface catalogue and the Swagger definitions
- Swagger introduces new files for ECS Reports, Examples and Interfaces is replaced by Interfaces Event Codes
- ECS reports (ERI011A & B) have also had several corrections to improve.
- E2E004 End-to-End Solution Architecture - Transaction Volumes - IF-021 is a new document introduced in this release as a supporting document to E2E001 End to End Solution Architecture

Fixes:

- Several corrections have been applied for various process models, descriptions and method statement details.

Further guidance on the Release.

Versioning:

Interim Releases are NOT a blanket updating of all the design artefacts and models to the next release number. Each Document artefact is separately version controlled and tracked. Interim releases are a collection of updated artefacts which are updated. The version number depends on the last revision of the artefact. Thus, an interim release will publish and consists of documents at different version numbers. Some documents contain multiple models, interfaces, or report definitions which each have a version number. The artefacts' own document version number may contain different objects at different version numbers depending on the changes made to the artefact.

Versions of design artefacts with tracked changes is available on the Red-Lined Design Artefacts page.

Design Models:

Design Models available on the collaboration are also updated in line with the published artefact models within the release. Design models now support relationship with requirements allowing users to drill from process through to requirements.

JSON/YAML:

JSON and YAML files published for V1.5 are in line with the latest version of the DES138 Data interface catalogue, these files will continue to be aligned with future releases.

3.1 Release Feedback

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Any queries or feedback on this release or the contents of this release note please contact us via Design@MHHSprogramme.co.uk

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4 Impacted Artefacts

The following table contains a list and versions of design artefacts/documents which have been updated.

Artefact	Version Number	Theme	Impact
E2E001 – End-to-End Solution Architecture	**V3.5**	Supporting Documents	Solution Design Correction
MHHSP - ERI011A – ECS Reports - Internal	**V5.4**	Supporting Documents	Data Correction
MHHSP - ERI011B – ECS Reports - External	**V5.4**	Supporting Documents	Data Correction
MHHSP_EDI021 - ISD_Entities	**V5.3**	Supporting Documents	Data Correction
MHHSP-BP001 - Change of Supplier	**V5.1**	MPAN Ownership	Process Correction
MHHSP-BP002 - Change of Service- Metering Service	**V5.3**	MPAN Ownership	Process Correction
MHHSP-BP003 - Change of Service - Data Service	**V5.4**	MPAN Ownership	Process Correction
MHHSP-BP010-Change of Registration Data	**V5.4**	MPAN Ownership	Process Correction
MHHSP-BP011 - Change of ConType andor Mkt Segment	**V5.4**	Metering Changes	Process Correction
MHHSP-BP013 - Demand Disconnection Events	**V5.1**	Meter to Bank	Process Correction
MHHSP - BP019 - Market-wide Data Service (ECS)	**V5.1**	Meter to Bank	Process Correction
MHHSP-BPD011 - Change of Con Type or Market Segment	**V5.2**	Metering Changes	Process Correction
MHHSP-BPD013 - Demand Disconnection Events	**V5.1**	Meter to Bank	Process Correction
MHHSP-BPD019 - Market-wide Data Service (ECS)	**V5.1**	Meter to Bank	Process Correction
MHHSP-BRS001 - Data Service Requirements	**V5.4**	Supporting Documents	Requirement Correction
MHHSP-BRS002-Metering Service requirements	**V5.4**	Supporting Documents	Requirement Correction
MHHSP-BRS003 - Registration Service requirements	**V5.3**	Supporting Documents	Requirement Correction
MHHSP-BRS004 - Supplier Overview	**V5.2**	Supporting Documents	Requirement Correction
DES138-Interface Catalogue	**V5.5.2**	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections

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DES196 D-Flows and Interface Mapping	**V1.1**	Supporting Documents	Statement correction
MHHSP-METH002_ADS_Validation_Estimation	**V5.3**	Supporting Documents	Statement correction
MHHSP-METH006_VAS_Method Statement	**V5.2**	Meter to Bank	Statement correction
MHHSP-METH007_MDS_Method_Statement	**V5.2**	Meter to Bank	Statement correction
MHHSP-METH010_Annual_Consumption	**V5.2**	Supporting Documents	Statement correction
MHHSP_OPC001_Operational_Choreography	**V5.4**	Supporting Documents	Statement correction
JSON/YAML files	**V1.5**	Supporting Documents	Updated Swagger definitions

5 Resolved Issues

All fixes Design Issue Notifications (DINs) and the Request for Change (RFCs) to MHHS Design since the last release that have been resolved in this release are included in the list below:

DIN/RFC Ref	Description	Status
MHHS-DIN-158	Use of CCCs to categorise the data for future charges	Fixed
MHHS-DIN-207	Clarity on when agent appointments should become effective	Fixed
MHHS-DIN-246	CR-019 Replacement of D0242 D0315 for MHHS	Fixed
MHHS-DIN-264	Update to CCC Method Statement	Fixed
MHHS-DIN-265	Validity of Settlement Period quality indicator data set	Fixed
MHHS-DIN-278	Addition of indicator for each IF within DES138 (CR29)	Fixed
MHHS-DIN-338	BP003/BP002 to be updated to clearly show IF-036 going to both Import & Export supplier	Fixed
MHHS-DIN-339	IF-001 to be updated to be additionally sent to the Export supplier rather than just the import	Fixed
MHHS-DIN-340	ELEX-REP-02/02A report	Fixed
MHHS-DIN-342	ELEX-REP-02/02A Consumption data clarification	Fixed
MHHS-DIN-393	De-appointment and re-appointment date order	Fixed
MHHS-DIN-409	ISD Entity M5 – Consumption Component Classes	Fixed
MHHS-DIN-413	Migration Meter Reading	Fixed
MHHS-DIN-426	MIG-009 New Rejection Code for D0205/D0203	Fixed
MHHS-DIN-429	MIG-011 Changes to D0170	Fixed
MHHS-DIN-435	MIG-017 D0304 & D0303	Fixed
MHHS-DIN-436	MIG0-018 D312	Fixed

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MHHS-DIN-481	REP-003 inconsistency between DES-138	Fixed
MHHS-DIN-482	Interim Release 2 query - IF-018	Fixed
MHHS-DIN-484	Clarity on RecipientId and SenderID in StandardResponseBodyType	Fixed
MHHS-DIN-490	Level 1 validation clarity for POST /statusmessage be the same as for POST /dip-channel/{id}	Fixed
MHHS-DIN-544	Level 4 Validation - Multiple response codes	Fixed
MHHS-DIN-554	Validation on Customer Direct Contracts	Fixed
MHHS-DIN-557	Consistency of the used of ID	Fixed
MHHS-DIN-564	Mandatory Nullable on Swagger	Fixed
MHHS-DIN-566	E2E NFR's need to be refined based on actual data	Fixed
MHHS-DIN-579	PUB-043 Routing discrepancy	Fixed
MHHS-DIN-581	Meter Location in DES138	Fixed
MHHS-DIN-582	Clarification following CR15	Fixed
MHHS-DIN-587	Misalignment between R0 mandatory in Swagger vs DES-138	Fixed
MHHS-DIN-588	Update of ID to Id	Fixed
MHHS-DIN-589	ADS and SDS Estimation Statements	Fixed
MHHS-DIN-590	Update Role Codes in E2E001	Fixed
MHHS-DIN-591	Update to MDS Method statement	Fixed
MHHS-DIN-592	Update StatusMessage and StandardResponseBody in E2E001 to provide more clarity	Fixed
MHHS-DIN-593	Update to AC Method Statement	Fixed
MHHS-DIN-594	Correction to BP10 Related MPANs	Fixed
MHHS-DIN-595	Correction of Type in ISD Doc Table 16	Fixed
MHHS-DIN-596	Clarification of SP Appointment Time(s)	Fixed
MHHS-DIN-600	ISD Entity M18 Discrepancy	Fixed
MHHS-DIN-602	Add Interface, Event Code enumeration to Swagger for interface blocks	Fixed
MHHS-DIN-603	Clarity on A0 block being removed	Fixed
MHHS-DIN-604	Clarity on B066 mandatory on IF-035	Fixed
MHHS-DIN-605	Update "Switch Cancellation" Info Message Box of BP002 & BP003	Fixed
MHHS-DIN-606	Update Ops C to include clarification on issuing of IF-035	Fixed
MHHS-DIN-607	Update IF-035 Lapsed Reason Code	Fixed
MHHS-DIN-608	Correction of Inaccuracy on BP003	Fixed
MHHS-DIN-609	Helix Issuing of IF-040 Annual Consumption Messages	Fixed
MHHS-DIN-610	Clarification of IF-013 Functionality (also ref 572)	Fixed
MHHS-DIN-611	Changes required to MDS Method Statement	Fixed
MHHS-DIN-612	New IF-019 Validation Rules Re Unmetered Related MPANs	Fixed
MHHS-DIN-614	Create new "Time" Advisory Notes in Registration Additional Info Section	Fixed
MHHS-DIN-616	Review of COS Transfer of Readings Process Required in light of SP UTC Decision	Fixed

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MHHS-DIN-617	Note on Discretionary Use of IF-023/IF-040 by Data Service	Fixed
MHHS-DIN-618	Updating routing within DES138 - PUB-026	Fixed
MHHS-DIN-620	Remove EES as a Recipient of IF-001	Fixed
MHHS-DIN-623	Change IF-001 Routing	Fixed
MHHS-DIN-624	BP013 DDE Updates	Fixed
MHHS-DIN-625	B092 should also be an array to allow MPRS to populate multiple rejections	Fixed
MHHS-DIN-626	Update Routing of IF-003	Fixed
MHHS-DIN-627	Update Interface Doc "Correlation ID Required" to "Correlation ID Created"	Fixed
MHHS-DIN-628	Add in Missing IF-021 Validation	Fixed
MHHS-DIN-629	Routing for SUPC on IF-037	Fixed
MHHS-DIN-630	Remove incorrect arrow on BP002	Fixed
MHHS-DIN-633	Update to ISD E45	Fixed
MHHS-DIN-635	Status Code needs tidying in StandardResponseBodyType	Fixed
MHHS-DIN-636	Removal of YAML Name Fields from Data Catalogue	Fixed
MHHS-DIN-637	Data Catalogue items incorrectly use maximum and minimum	Fixed
MHHS-DIN-638	Block: D0, Field: serviceTicketURL. DES138 specifies 'string max 225', Swagger specifies 'string max 250'	Fixed
MHHS-DIN-639	DI-138-Customer-Direct-Contract-Data-Service-DIP-ID & DI-140-Customer-Direct-Contract-Metering-Service-DIP-ID to be nullable	Fixed
MHHS-DIN-640	Custom Block: B022, Field: Metering Point Postcode. Interface Catalogue specifies CMO as ‘M’ for IF-018, all other interfaces specify CMO as ‘O’.	Fixed
MHHS-DIN-641	Custom Block: B022, Field: Metering Point Postcode. Interface Catalogue specifies no min length, but min length of 6 specified in Swagger.	Fixed
MHHS-DIN-643	B029 Fields marked as mandatory	Fixed
MHHS-DIN-644	DI-122 Profile Class has a minLength of 2 in Swagger.	Fixed
MHHS-DIN-645	Clarify 'AllRoles' for DIP routing for IF-047	Fixed
MHHS-DIN-646	DT-002N-MPAN requires a minLength of 13	Fixed
MHHS-DIN-647	Replace reportId with interfaceId in the ECS reports	Fixed
MHHS-DIN-648	DI-496 data item	Fixed
MHHS-DIN-650	Introduction of Compressed Payloads into DIP Messages	Fixed
MHHS-DIN-652	DI-091-Number-Of-Displayed-Register-Digits update in DES138 to reflect the range 0-9	Fixed
MHHS-DIN-653	MO block removed from IF-047	Fixed
MHHS-DIN-654	DI-130 RMP and DI-131 MP status maxlength	Fixed
MHHS-DIN-655	Add a set no additional properties to false	Fixed
MHHS-DIN-656	All S1 properties to be mandatory	Fixed
MHHS-DIN-657	NEW ISD Entity	Fixed
MHHS-DIN-658	Updates to ERI011B	Fixed
MHHS-DIN-659	Update REP007	Fixed

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MHHS-DIN-660	Supplier version of REP-002	Fixed
MHHS-DIN-662	Update Sort Code and Account Number validation	Fixed
MHHS-DIN-663	There are missing regular expressions that would improve the swagger schema validation	Fixed
MHHS-DIN-665	Tidy up of "where available in Registration" usage	Fixed
MHHS-DIN-666	Data Type / Data Type Reference inconsistencies in DES-138.	Fixed
MHHS-DIN-667	Mandatory / Optional blocks inconsistencies between DES-138 & Swagger	Fixed
MHHS-DIN-668	Nullable / Optional Data Type / property inconsistencies between DES-138 & Swagger	Fixed
MHHS-DIN-669	Min / Max Values inconsistencies between DES-138 & Swagger	Fixed
MHHS-DIN-670	Unclear whether webhook URL's accept ports	Fixed
MHHS-DIN-671	Updates to ISD Entities	Fixed
MHHS-DIN-672	B033 has 9 required fields, but only available. Naming is also inconsistent for some of the required fields that do not exist.	Fixed
MHHS-DIN-673	Floating Point number regexes	Fixed
MHHS-DIN-674	Inconsistent Text description for DI-086	Fixed
MHHS-DIN-675	IF-021 IF Consistency Validation Rules	Fixed
MHHS-DIN-677	Additional information added to IF-020 for Linked MPANs	Fixed
MHHS-DIN-683	E2E refers to T0 and Transaction Wrapper which are no longer required	Fixed

Refer to published DIN log for further information on DINs listed.

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6 Unaffected Artefacts

The following table contains a list and latest version of design artefacts/documents which are under change control and have NOT been updated in this release.

Ref	Artefact	Version Number
MHHSP-BP003A	CSS and DCC Update	5.00
MHHSP-BP003B	Change of Existing Service Appointment Details	5.00
MHHSP -BP003C	Transfer of Reads - Change of Data Service	5.1
MHHSP-BP004	Data Collection	5.1
MHHSP-BP005	Data Processing	5.1
MHHSP-BP007	Disconnection	5.2
MHHSP-BP008	Change of Energisation	5.1
MHHSP-BP009	ChangeofMeter	5.3
MHHSP-BP016	Consumption Amendment	5.00
MHHSP - BP018	Load Shaping Service (ECS)	5.00
MHHSP - BP020	Volume Allocation Service (ECS)	5.1
MHHSP-BP021	Industry Standing Data (ECS)	5.1
MHHSP-BPD001	Change of Supplier	5.00
MHHSP-BPD002	Change Of Metering Service	5.2
MHHSP-BPD003	Change Of Data Service	5.1
MHHSP-BPD003A	CSS and DCC updates	5.00
MHHSP-BPD003B	Change of Existing Service Appointment Details	5.00
MHHSP-BPD003C	Transfer of Reads COS_CODS	5.1
MHHSP-BPD004	Data Collection	5.00
MHHSP-BPD005	Data Processing	5.00
MHHSP-BPD007	Disconnection	5.2
MHHSP-BPD008	Change of Energisation Status	5.00
MHHSP-BPD009	Change of Metering	5.3
MHHSP-BPD010	Change of Registration Data	5.2
MHHSP-BPD016	Consumption Amendment	5.00
MHHSP-BPD018	Load Shaping Service (ECS)	5.00
MHHSP-BPD020	Volume Allocation Service Business Process Descriptions	5.1.1
MHHSP-BPD021	Industry Standing Data Business Process Descriptions	5.1
MHHSP-BRS005	LDSO Overview	5.2

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MHHSP-BRS006	EES & SDEP Requirements	5.00
MHHSP-BRS007	Load Shaping Service Requirements (ECS)	5.00
MHHSP-BRS008	Market-wide Data Service Requirements (ECS)	5.00
MHHSP-BRS009	Volume Allocation Service Requirements (ECS)	5.00
MHHSP-BRS010	Industry Standing Data Requirements (ECS)	5.00
MHHSP-BRS012	Annual Consumption Requirements	5.00
MHHSP-BRS013	Demand Disconnection Events Requirements (ECS)	5.00
MHHSP-BRS014	ECS Registration Data Archive Requirements	5.00
MHHSP-METH001	SDS_Validation_Estimation	5.2
MHHSP-METH004	UMSDS_EM_Functions	5.2
MHHSP-METH005	LSS Method Statement	5.00
MHHSP-METH008	DDE Method Statement	5.00
MHHSP-METH009	UMSO_Method_Statement	5.1
MHHSP-EM021	ISD Entity Map	5.00
MHHSP-DES052	Logical Data Model	5.00
MHHSP-DES203	Traceabiility Matrix	5.1
MHHSP-DES229	IF005_UseCaseGuide	1.3
MHHS-E2E002	End to End Non Functional Requirements	3.01
MHHSP-DIP001	DIP Functional Specification	2.30
MHHS-DEL396 MHHSP-DIP002	DIP Non Functional Requirements	2.20
MHHSP-DIP-003	End to End Security Architecture	1.20
MHHSP-DIP-004	Cyber Security Connection Guidance	3.00
MHHSP-DIP-005	End to End Security Requirements	1.4
MHHSP-DIP-005	End to End Security Requirements - excel version	1.4
MHHS-DIP094	Interface Code of Connection - DRAFT word document	0.2
MHHS-DES141	FFIEC Cyber risk assessment tool - Excel spreadsheet	3.4
MHHS-DES001a	Functional Specification - Transaction Volumes - Appendix A	0.20
MHHS-DEL961	Migration Design Document	1.0
MHHS-DEL974	Migration Design Requirements Log	1.0
MHHS-DEL962	BPM-001 - Change Of Supply - Forward Migration	1.0
MHHS-DEL963	BPM-002 - Change of Service - Metering Service - Forward Migration	1.2
MHHS-DEL964	BPM-003 - Change of Service - Data Service - Forward Migration	1.3
MHHS-DEL968	BPD001 - Change of Supply (Forward Migration)	1.0

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MHHS-DEL969	BPD002 - Change of Service - Metering Service (Forward Migration)	1.2
MHHS-DEL970	BPD003 - Change of Service - Data Service (Forward Migration)	1.1
MHHS-DEL965	BPM-001 - Change Of Supply - Reverse Migration	1.0
MHHS-DEL966	BPM-002 - Change of Service - Metering Service - Reverse Migration	1.0
MHHS-DEL967	BPM-003 - Change of Service - Data Service - Reverse Migration	1.0
MHHS-DEL971	BPD001 - Change Of Supply - Reverse Migration	1.0
MHHS-DEL972	BPD002 - Change Of Metering Service - Reverse Migration	1.0
MHHS-DEL973	BPD003 - Change Of Data Service - Reverse Migration	1.0

7 Issues/Limitations

This section describes any known limitations and obstacles to the release and fixes implemented.

Certain artefacts cannot be change marked. Reference will be made to documents which identify where these changes exist within the artefacts. Artefact documents in PDF form will be issued with tracked changes on to highlight where the changes are in the document.

Certain artefacts do not include a version/change history record, change history section have been added in some cases and changes are tagged using comments to provide a reference of DIN changes made to the artefact. Within Excel while all changes are marked, not every cell is tagged with the DIN reference as it was not possible to tag groups of cells with a DIN ref.

Transition Design documents are not currently under design release, change and configuration control at this time.

Interim Release 5 final changes on DIN's relating to service provider appointments (UTC vs local time) changes and some DIN changes to E2E001 Solution Architecture document are subject to further verification. Versions of documents with the exception of the E2E001 Solution Architecture have been published. These documents may require amendments, which will be published as soon as possible. If a revision is required a new minor version revision will be issued as part of IR5, e.g Vn.n.2, and notification of publication and amendment to the release included in this release note.

8 Past Releases

Details of previous release please refer to the relevant release note for details:

Version Number*	Release Date	Release type
5.0	21/02/2023	Baseline
5.1	14/06/2023	Interim Release 1
5.2	05/07/2023	Interim Release 2
5.3	02/08/2023	Interim Release 3
5.4	30/08/2023	Interim Release 4

* Various version numbering occurs on different documents for each release for details see previous release notes.

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