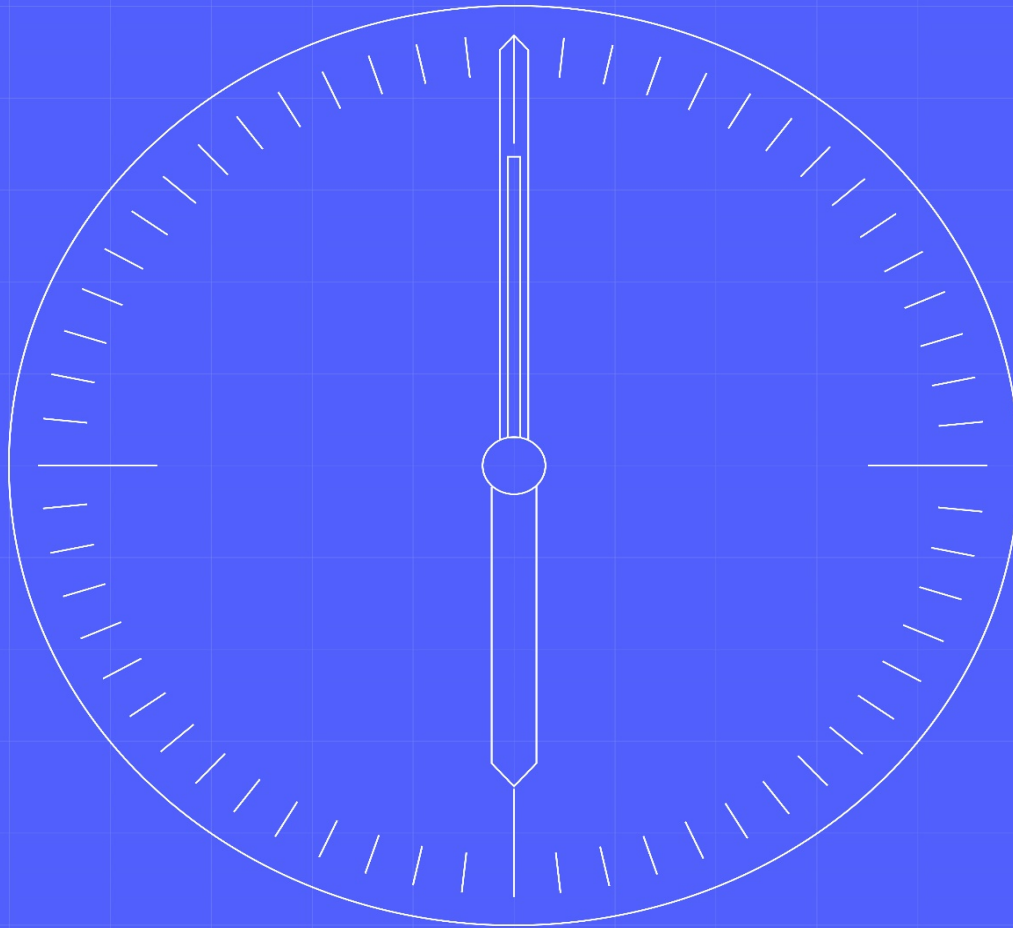




MHHS Design Release Note

Interim Release 8.2

Release Date: 21 Aug 2024



Status:
Approved

Date
12/08/2024

Classification
Public



1 Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Contents | 1 |
| 1.1 | Change Record | 2 |
| 1.2 | Reviewers | 2 |
| 2 | INTRODUCTION | 3 |
| 3 | OVERVIEW | 3 |
| 3.1 | Release Feedback | 4 |
| 4 | Impacted Artefacts | 5 |
| 5 | Resolved Issues | 6 |
| | Additional Change information | 8 |
| 6 | Issues/Limitations | 10 |
| 7 | Past Releases | 10 |

1.1 Change Record

| Date | Author | Version | Change Detail |
|------------|-------------|---------|---------------|
| 21/08/2024 | Design Team | 0.1 | Initial Draft |
| | | | |
| | | | |

1.2 Reviewers

| Reviewer | Role |
|----------|------|
| | |
| | |

2 INTRODUCTION

These are the release notes for Interim Release 8.2 of the MHHS Design.

Use Release Notes to keep up with what's going on especially with regard to the changes in Swagger. Release notes provide a summary of what issues have been resolved within the design.

3 OVERVIEW

Here's what's new or updated within **Interim Release 8.2**

Improvements:

- Changes to correct Swagger
- Changes to DES138
- Changes to various other artefacts that includes, but not limited to: ISD Entites and Method Statements
- Updates to the E2E solution architecture document to include the detail from the API & Webhook message exchange guidance document.

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.

Below are the Design Interim Releases and their corresponding Swagger Versions, including the dates of publication and the upliftment of the DIP Simulator to the related Interim Release. Additionally, there is a column to indicate the effective date of each Interim Release during Systems Integration Testing.

| Interim Release | Design Interim Release Published | DES138 Version | Swagger Version | SIT Effective from Date | DIP Simulator Uplifted |
|-----------------|----------------------------------|----------------|-----------------|--------------------------------------|------------------------|
| IR2 | 05-Jul-23 | 5.2.1 | 1.2 | 30-Oct-23 | 11-Aug-23 |
| IR2.1 | 11-Oct-23 | 5.2.2 | 1.2.1 | 30-Oct-23 | 20-Oct-23 |
| IR2.2 | 08-Nov-23 | 5.2.2 | 1.2.2 | 08-Nov-23 | 08-Nov-23 |
| IR2.3 | 29-Nov-23 | 5.2.2 | 1.2.3 | 20-Dec-23 | 15-Dec-23 |
| IR3 | 02-Aug-23 | 5.3.2 | 1.3 | 11-Mar-24 | 03-Nov-23 |
| IR4 | 30-Aug-23 | 5.4.1 | 1.4 | 11-Mar-24 | 03-Nov-23 |
| IR5 | 04-Oct-23 | 5.5.2 | 1.5 | 11-Mar-24 | 03-Nov-23 |
| IR5.1 | 17-Oct-23 | 5.5.3 | 1.5.1 | 11-Mar-24 | 03-Nov-23 |
| IR5.2 | 14-Dec-23 | 5.5.4 | 1.5.2 | 11-Mar-24 | 05-Jan-24 |
| IR5.3 | 17-Jan-24 | 5.5.4 | 1.5.3 | 11-Mar-24 | 26-Jan-24 |
| IR5.4 | 07-Feb-24 | 5.5.5 | 1.5.4 | SIT start date for participant | 09-Feb-24 |
| IR5.5 | 03-Apr-24 | 5.5.6 | 1.5.5 | To be advised by SIT Release Manager | 19-Apr-24 |
| IR6 | 01-Nov-23 | 5.6.1 | 1.6 | 10-Jun-24 | 22-Mar-24 |
| IR7 | 31-Jan-24 | 5.7.1 | 1.7 | 10-Jun-24 | 22-Mar-24 |
| IR7.1 | 06-Mar-24 | 5.7.2 | 1.7.1 | 10-Jun-24 | 22-Mar-24 |

| | | | | | |
|-------|-----------|-------|-------|-------------|-----------|
| IR7.2 | 03-Apr-24 | 5.7.3 | 1.7.2 | 10-Jun-24 | TBC |
| IR8 | 03-Apr-24 | 5.8.1 | 1.8 | 02-Sep-24 | 21-Jun-24 |
| IR8.1 | 12-Jun-24 | 5.8.2 | 1.8.1 | 02-Sep-2024 | TBC |
| IR8.2 | 21-Aug-24 | 5.8.3 | 1.8.2 | 21-Oct-24 | TBC |

The following table provide the version of the swager definitions for the IFs & REPs against each interim release:

| Release | IF-001 to IF050 | IF-061 to IF065 | REPs |
|---------|-----------------|-----------------|------|
| IR 8.2 | 011 | 011 | 008 |
| IR 8.1 | 011 | 011 | 008 |
| IR 8 | 011 | 002 | 008 |
| IR 7.x | 010 | 001 | 007 |
| IR 6 | 009 | - | 006 |
| IR 5.x | 008 | - | 005 |

Design Models:

Design Models available on the collaboration are also updated in line with the published artefact models within the release.

JSON/YAML:

JSON and YAML files published for V1.8.2 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

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

4 Impacted Artefacts

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

| Artefact | Version Number | Theme | Impact |
|--|----------------|---|-----------------------------|
| DES-138 - Interface Catalogue | V5.8.3 | Meter to Bank, Metering Changes, MPAN Ownership | Interface corrections |
| E2E001 – End-to-End Solution Architecture | V3.8 | Supporting Documents | Solution Design Correction |
| EDI021_ISD_Entities | V5.8 | Supporting Documents | Data Items Correction |
| METH002_ADS_Method_Statement | V5.6 | Supporting Documents | Method Corrections |
| METH005_LSS_Method_Statement | V5.3 | Supporting Documents | Method Corrections |
| METH006_VAS_Method_Statement | V5.4 | Meter to Bank | Method Corrections |
| METH007_MDS_Method_Statement | V5.2 | Meter to Bank | Method Corrections |
| MHHSPROGRAMME-DataCatalogue-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-DataCatalogue-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-DataTypes-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-DataTypes-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-ECS-CommonBlocks-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-ECS-CommonBlocks-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-ECS-Reports-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-ECS-Reports-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |

| | | | |
|---|--------|----------------------|-----------------------------|
| MHHSPROGRAMME-Interfaces-EventCodes-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-Interfaces-EventCodes-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-RealCommonBlocks-1.8.2-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-RealCommonBlocks-1.8.2-domain.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-SubmitEvents-1.8.2-resolved.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-SubmitEvents-1.8.2-resolved.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-SubmitEvents-1.8.2-swagger.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-SubmitEvents-1.8.2-swagger.yaml | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-Examples-0.5-domain.json | V1.8.2 | Supporting Documents | Updated Swagger definitions |
| MHHSPROGRAMME-Examples-0.5-domain.yaml | V1.8.2 | 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-1056 | R900-04 block remove LDSOBillingSiteID from required list | Fixed |
| MHHS-DIN-1063 | Measurement Quantity Naming Convention | Fixed |
| MHHS-DIN-1068 | Make the elements of the CommonBlock.S0 mandatory | Fixed |
| MHHS-DIN-1072 | Domestic Premise Indicator Data Type | Fixed |
| MHHS-DIN-1077 | Missing 'II' value in the enumerated field for DI-160 | Fixed |
| MHHS-DIN-1081 | MDS/VAS Method Statement Misalignment - EA12 Flag | Fixed |
| MHHS-DIN-1105 | Updates to E2E Technical Architecture | Fixed |
| MHHS-DIN-1106 | B907, B908, B911 & B910 require fields to be marked as required | Fixed |

Refer to additional change information below and the published DIN log for further information on DINs listed.

Additional Change information

5.1.1 MHHS-DIN-1056

Description of change: Remove LDSOBillingSiteID from required field in R900-04

Before change:

```
1298         $ref: '#/components/schemas/R900-05'
1299         required:
1300         # DIN-1037
1301         - DUoStariffID
1302         - LDSOBillingSiteID
1303         #DIN-771 / 845
1304         - listOfMPANsOnSite
1305         - misalignedMultiMPANSite
1306         - LDSOBillingSiteCapacity
1307         - LDSOBillingInvoiceType
1308         - taxPointDate
1309         - invoiceDate
1310         - invoiceDueDate
1311         - LDSOBillingInvoiceNumber
1312         - siteSpecificDUoSInvoiceType
1313         - LDSOBillingCancelledInvoiceNumber
```

After change:

```
1299         required:
1300         # DIN-1037
1301         - DUoStariffID
1302         # DIN-1056
1303         #
1304         - LDSOBillingSiteID
1305         #DIN-771 / 845
1306         - listOfMPANsOnSite
1307         - misalignedMultiMPANSite
1308         - LDSOBillingSiteCapacity
1309         - LDSOBillingInvoiceType
1310         - taxPointDate
1311         - invoiceDate
1312         - invoiceDueDate
1313         - LDSOBillingInvoiceNumber
```

5.1.2 MHHS-DIN-1068

Description of change: Add required attributes to all S0 blocks to include the 3 fields (interfaceId, eventCode & schemaVersion). This change affects the following interfaces only: IF-006 (all variants), REP003, REP-003A, REP-004, REP-006, REP-007, REP-009, REP-900, REP-901

Example for IF-006 MeterInstall

Before change:

```
1122         properties:
1123         S0:
1124         description: Sender Header block
1125         type: object
1126         properties:
1127         interfaceID:
1128         type: string
1129         enum: ['IF-006']
1130         schemaVersion:
1131         description: Version of the message schema used in the exchange
1132         type: string
1133         example: '011'
1134         enum:
1135         - '011'
1136         eventCode:
1137         type: string
1138         enum:
1139         - '[MeterInstall]'
1140         S1:
```

After change:

```
1122         additionalProperties:
1123         false
1124         properties:
1125         S0:
1126         description: Sender Header block
1127         type: object
1128         properties:
1129         interfaceID:
1130         type: string
1131         enum: ['IF-006']
1132         schemaVersion:
1133         description: Version of the message schema used in the exchange
1134         type: string
1135         example: '011'
1136         enum:
1137         - '011'
1138         eventCode:
1139         type: string
1140         enum:
1141         - '[MeterInstall]'
1142         required:
1143         - interfaceID
1144         - schemaVersion
1145         - eventCode
1146         S1:
```

5.1.3 MHHS-DIN-1072

Description of change: Update Load Shape Domestic Premise Indicator Data Item to Char(1) optional.

Before change:

```
225         DI-030-Domestic-Premise-Indicator:
226         description: A flag that indicates if the MPAN of the registration appointment is used to identify a domestic premise.
227         type: boolean
228         example: True
229
230         DI-031-Load-Shape-Domestic-Premise-Indicator:
231         description: The Domestic Premise Indicator associated with the Load Shape
232         type: boolean
233         nullable: true
234         example: True
235
```

After Change:

```
231         #DIN-1072
232         DI-031-Load-Shape-Domestic-Premise-Indicator:
233         description: The Domestic Premises Indicator associated with the Load Shape
234         type: string
235         maxLength: 1
236         minLength: 1
237         nullable: true
238         enum:
239         - T # True
240         - F # False
241         example: T
242
```

5.1.4 MHHS-DIN-1077

Description of change: Add 'II' to the enumerated list for DI-160 Settlement Code.

Before change:

```
1150 DI-160-Settlement-Code
1151 description: A code which, together with the Settlement Date, identifies a Settlement published
in the Settlement Timetable. It identifies the type of Settlement.
1152 type: string
1153 maxLength: 2
1154 example: RF
1155 enum:
1156   - SF # Initial Settlement
1157   - R1 # First Reconciliation
1158   - R2 # Second Reconciliation
1159   - R3 # Third Reconciliation
1160   - RF # Final Reconciliation
1161   - DR # Dispute
1162   - DF # Final Dispute
1163
```

After Change:

```
1151 DI-160-Settlement-Code
1152 description: A code which, together with the Settlement Date, identifies a Settlement published
in the Settlement Timetable. It identifies the type of Settlement.
1153 type: string
1154 maxLength: 2
1155 example: RF
1156 enum:
1157   - SF # Initial Settlement
1158   - R1 # First Reconciliation
1159   - R2 # Second Reconciliation
1160   - R3 # Third Reconciliation
1161   - RF # Final Reconciliation
1162   - DR # Dispute
1163   - DF # Final Dispute
1164   - II # Interim Information
1165
```

5.1.5 MHHS-DIN-1106

Description of change: The following blocks (objects) B907, B908, B910 & B911 need to ensure that the existing meter is mandatory

Before change:

```
2242 B907
2243 description: LinkedImpExp-MPAN-Meter-MAP
2244 type: object
2245 additionalProperties:
2246   false
2247 properties:
2248   existingMeter:
2249     $ref: '#/components/schemas/B035'
2250   historyMAP:
2251     type: array
2252     minItems: 1 # DIN-1024
2253     items:
2254       $ref: '#/components/schemas/B910'
2255
2256 B908:
2257 description: Related-MPAN-Meter-MAP
2258 type: object
2259 properties:
2260   existingMeter:
2261     $ref: '#/components/schemas/B037'
2262   historyMAP:
2263     type: array
2264     minItems: 1 # DIN-1024
2265     items:
2266       $ref: '#/components/schemas/B911'
2267
2268 B910:
2269 description: Meter details - MAP history
2270 type: object
2271 additionalProperties:
2272   false
2273 properties:
2274   existingMeter:
2275     $ref: '#/components/schemas/B036'
2276   historyMAP:
2277     type: array
2278     minItems: 1 # DIN-1024
2279     items:
2280       $ref: '#/components/schemas/B075'
2281
2282 B911:
2283 description: Related Meter details - MAP history
2284 type: object
2285 additionalProperties:
2286   false
2287 properties:
2288   existingMeter:
2289     $ref: '#/components/schemas/B038'
2290   historyMAP:
2291     type: array
2292     minItems: 1 # DIN-1024
2293     items:
2294       $ref: '#/components/schemas/B075'
2295
2296
```

After Change:

```
2243 B907
2244 description: LinkedImpExp-MPAN-Meter-MAP
2245 type: object
2246 additionalProperties:
2247   false
2248 required:
2249   - existingMeter
2250 properties:
2251   existingMeter:
2252     $ref: '#/components/schemas/B035'
2253   historyMAP:
2254     type: array
2255     minItems: 1 # DIN-1024
2256     items:
2257       $ref: '#/components/schemas/B910'
2258
2259 B908:
2260 description: Related-MPAN-Meter-MAP
2261 type: object
2262 required:
2263   - existingMeter
2264 properties:
2265   existingMeter:
2266     $ref: '#/components/schemas/B037'
2267   historyMAP:
2268     type: array
2269     minItems: 1 # DIN-1024
2270     items:
2271       $ref: '#/components/schemas/B911'
2272
2273 B910:
2274 description: Meter details - MAP history
2275 type: object
2276 additionalProperties:
2277   false
2278 required:
2279   - existingMeter
2280 properties:
2281   existingMeter:
2282     $ref: '#/components/schemas/B036'
2283   historyMAP:
2284     type: array
2285     minItems: 1 # DIN-1024
2286     items:
2287       $ref: '#/components/schemas/B075'
2288
2289 B911:
2290 description: Related Meter details - MAP history
2291 type: object
2292 additionalProperties:
2293   false
2294 required:
2295   - existingMeter
2296 properties:
2297   existingMeter:
2298     $ref: '#/components/schemas/B038'
2299   historyMAP:
2300     type: array
2301     minItems: 1 # DIN-1024
2302     items:
2303       $ref: '#/components/schemas/B075'
2304
2305
```

6 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.

7 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 |
| 5.5 | 04/10/2023 | Interim Release 5 |
| 5.2.1 | 11/10/2023 | Interim Release 2.1 |
| 5.5.1 | 17/10/2023 | Interim Release 5.1 |
| 5.6 | 01/11/2023 | Interim Release 6 |
| 5.2.2 | 11/11/2023 | Interim Release 2.2 |
| 5.2.3 | 29/11/2023 | Interim Release 2.3 |
| 5.5.2 | 13/12/2023 | Interim Release 5.2 |
| 5.5.3 | 17/01/2024 | Interim Release 5.3 |
| 5.7 | 31/01/2024 | Interim Release 7 |
| 5.5.4 | 07/02/2024 | Interim Release 5.4 |
| 5.7.1 | 06/03/2024 | Interim Release 7.1 |
| 5.5.5 | 03/04/2024 | Interim Release 5.5 |
| 5.7.2 | 03/04/2024 | Interim Release 7.2 |
| 5.8 | 03/04/2024 | Interim Release 8 |
| 5.7.3 | 08/05/2024 | Interim Release 7.3 |

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