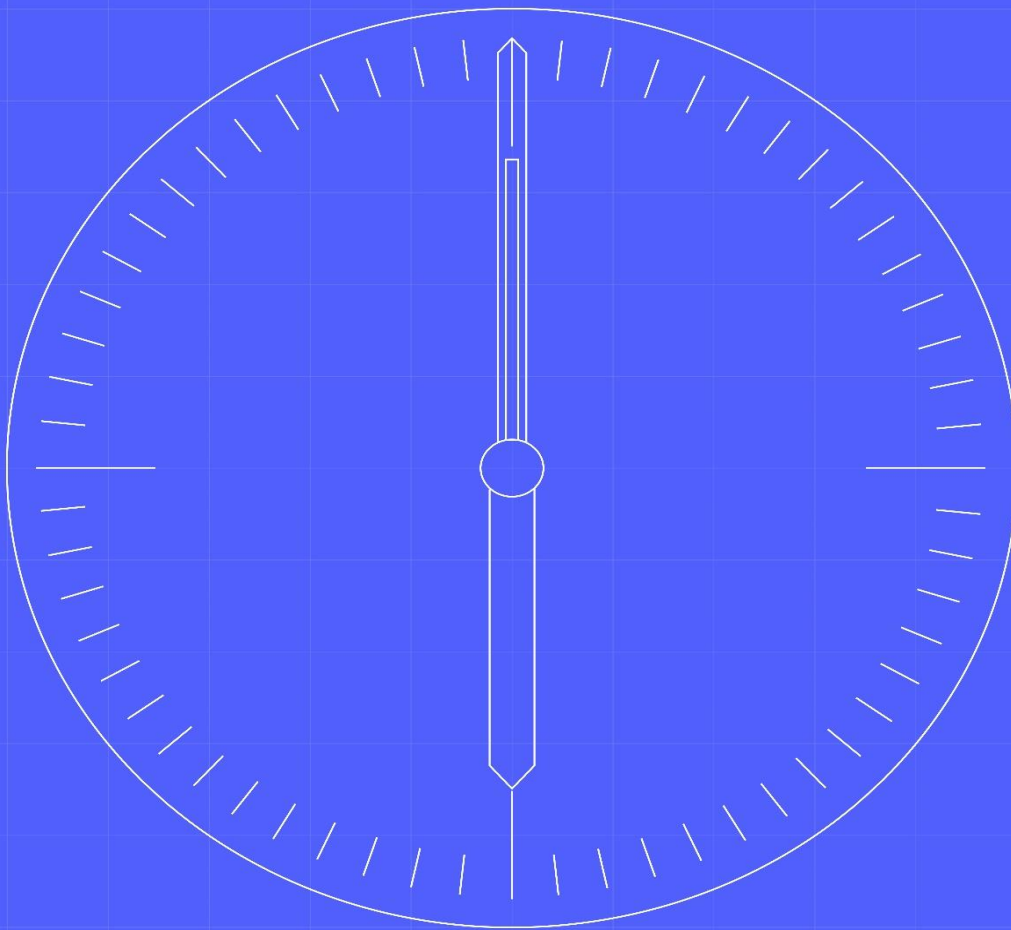


MHHS Design Release Note

Interim Release 8

Release Date: 03-04-2024



Document owner

Design Team

Status:

Final

Document number

DEL1275

Date

03/04/2024

Version

V1.0

Classification

Public

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1.1 Change Record

Date	Author	Version	Change Detail
19/03/2024	Design Team	0.1	Initial Draft
03/04/2024	Design Team	1.0	Final

1.2 Reviewers

Reviewer	Role

2 INTRODUCTION

These are the release notes for Interim Release 8 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 8**

Improvements:

- Changes to correct Swagger
- Changes to align Migration Design with previous releases
- Multiple changes to other artefacts

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	TBC
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

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 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	V5.8.1	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections
E2E002 - Requirements	V3.3	Supporting Documents	Requirement corrections
DEL961 – Migration Design Document	V1.3	Migration Design, Supporting Document	Migration corrections
DEL974 – Migration Design Requirements Log	V1.1	Migration Design	Requirement corrections
DEL963 – BPM-002 – Change of Service – Metering Service – Forward Migration	V1.4	Migration Design, Supporting Document	Process corrections
DEL964 – BPM-003 – Change of Service – Data Service – Forward Migration	V1.4	Migration Design, Supporting Document	Process corrections
DEL965 – BPM-001 – Change of Supply – Reverse Migration	V1.2	Migration Design, Supporting Document	Process corrections
DEL971 - BPD001 - Change Of Supply - Reverse Migration	V1.2	Migration Design, Supporting Document	Process corrections
DES240-Provisional_Transitional_Scaling_Weights	V1.1	Transition Design, Supporting Document	Transition Corrections
BRS008 - Marketwide Data Service Requirements (ECS)	V5.1	Supporting Documents	Requirement corrections
BRS012- Annual Consumption requirements	V5.1	Supporting Documents	Requirement corrections
EDI021_ISD_Entities	V5.6	Supporting Documents	Data Items Correction
BP003 - Change of Service - Data Service	V5.7	MPAN Ownership	Process Corrections
BP005 - Data Processing	V5.2	Meter to Bank	Process Corrections
BPD004 - Data Collection	V5.1	Meter to Bank	Process Corrections
BPD005 - Data Processing	V5.1	Meter to Bank	Process Corrections
BRS003 - Registration Service requirements	V5.6	Supporting Documents	Requirement corrections
BRS004 - Supplier Overview	V5.4	Supporting Documents	Requirement corrections
METH001_SDS_Validation_Estimation	V5.3	Supporting Documents	Method Corrections

METH007_MDS_Method_Statement	V5.4	Meter to Bank, Supporting Documents	Method Corrections
METH009_UMSO_Method_Statement	V5.2	Supporting Documents	Method Corrections
MHHSPROGRAMME-DataCatalogue-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.8-domain.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.8-domain.yaml	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.8-resolved.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.8-resolved.yaml	V1.8	Supporting Documents	Updated Swagger definitions

MHHSPROGRAMME-SubmitEvents-1.8-swagger.json	V1.8	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.8-swagger.yaml	V1.8	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-491	IF-035 - Update routing to show XDSS	Fixed
MHHS-DIN-497	Correction to METH001	Fixed
MHHS-DIN-498	Correction to METH001 Method 13	Fixed
MHHS-DIN-499	Alignment of Estimation Reason Codes	Fixed
MHHS-DIN-502	SP Quality Indicator Clarification	Fixed
MHHS-DIN-575	Requirement for REGS to process IF-040	Fixed
MHHS-DIN-750	IF-019/020 Interface notes and REG1066 validation	Fixed
MHHS-DIN-751	IF-019/020 Interface notes	Fixed
MHHS-DIN-752	Change of Data Service - Forward migration for Import/Export	Fixed
MHHS-DIN-762	DEL961 IF-003 routing to MDS - Update Migration Document	Fixed
MHHS-DIN-763	Related Metering Points undergoing Migration	Fixed
MHHS-DIN-838	BPD004 v5 - step 270 typo	Fixed
MHHS-DIN-875	Swagger objects and descriptions are missing	Fixed
MHHS-DIN-890	DI-038 (LInked Import/Export Mpan) description	Fixed
MHHS-DIN-891	DI-241 - SUPC routing on IF-037 incorrect, should be SUPS	Fixed
MHHS-DIN-892	Message Versioning Support: Create DIPMessage variant for egress	Fixed
MHHS-DIN-895	REP002s vs IF-21s for DUoS Billing. Follow up from DIN340	Fixed
MHHS-DIN-896	ISD v5.5 (Ref 265)	Fixed
MHHS-DIN-908	Validation of Appointment start times	Fixed
MHHS-DIN-909	Duplicate requirement reference used in MHHS-E2E002 Requirements v3.1 document	Fixed
MHHS-DIN-910	Remove sending of IF-041 for invalid meter readings from SDS method statement	Fixed
MHHS-DIN-913	Missed Update to DES138	Fixed
MHHS-DIN-914	Update DI-082 (Settlement Period Effective to Date/Time) validation rule on IF-021	Fixed
MHHS-DIN-918	DES-138 IF_LIST table incomplete	Fixed
MHHS-DIN-921	DES138 - Sender Unique reference example is incorrect	Fixed
MHHS-DIN-929	Change to NFR E2E1009 for DNO & IDNO roles (LDSO, UMSO, Registrations)	Fixed
MHHS-DIN-934	IF-001 Migration Change of Supplier (MCS Appointment Scenario)	Fixed

MHHS-DIN-935	correction of errors in DES240 (Transitional Scaling Weights)	Fixed
MHHS-DIN-936	HTTP response code back off & retry behaviour	Fixed
MHHS-DIN-937	Align Migration design with wider design changes made for CR028	Fixed
MHHS-DIN-938	Confirmation of dates to use in the D0388 UMS Inventory	Fixed
MHHS-DIN-939	Difference in lapse behavior for subsequent IF-031 Appointments between enduring and migration	Fixed
MHHS-DIN-946	Use of LP006 - Migration Aborted, Pending Registration Received	Fixed
MHHS-DIN-948	Error Code Description Text Updates	Fixed
MHHS-DIN-949	MHHS-Migration-CoA(MS)-RS-009 Alignment with IR7	Fixed
MHHS-DIN-955	CR043 - MPAN/ABMU Mapping	Fixed
MHHS-DIN-959	Errors in REP-901 in Swagger	Fixed
MHHS-DIN-960	Changes to Swagger to support Implementation of JSON Error Checking End Points.	Fixed
MHHS-DIN-964	Update to IF-005 [MeterUpdate] and [MeterHistoryUpdate]	Fixed
MHHS-DIN-968	MDR Secondary Routing	Fixed
MHHS-DIN-971	Clarification of MPAN Linkage Request Rejection Codes	Fixed
MHHS-DIN-972	Migration Reqs: Removal of Reference to IF-040 (Annual Consumption) from the REGS Migration Requirments	Fixed
MHHS-DIN-973	Migration Reqs: Correct REGS treatment of D0312 where a Forward Migration is in progress.	Fixed
MHHS-DIN-975	Migration Reqs: Confirm REGS treatment of related MPANs in Reverse Migration Scenario	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-875

Description of change:

Tidy up of swagger to include missing object types (default type) and correct/add missing descriptions. Please see screenshots below, there are multiple changes:

[1]

Before change:

```
1462   R901-08:
1463     type: object
1464     additionalProperties:
1465       false
1466     properties:
1467       chargeBand:
1468         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-605-Charge-Band'
1469       dailyUncorrectedVolumeForChargeBand:
1470         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1471       totalVolumeChargeForChargeBand:
1472         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1473
```

After change:

```
1463 # DIN-875
1464   R901-08:
1465     description: Change Band
1466     type: object
1467     additionalProperties:
1468       false
1469     properties:
1470       chargeBand:
1471         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-605-Charge-Band'
1472       dailyUncorrectedVolumeForChargeBand:
1473         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1474       totalVolumeChargeForChargeBand:
1475         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components
              /schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1476
```

[2]

Before change:

```
813
814 # IF 004 - Comms Hub Information
815
816 IF-004-Payload:
817   description: IF-004 Message
818   type: object
819   additionalProperties:
820     false
821   required:
822     - CommonBlock
823     - CustomBlock
824   properties:
825     CommonBlock:
```

After change:

```
814 # IF 004 - Comms Hub Information
815
816 IF-004-Payload:
817   description: IF-004 Message | Comms Hub Information
818   type: object
819   additionalProperties:
820     false
821   required:
822     - CommonBlock
823     - CustomBlock
```

[3]

Before change:

```
1729 # new block 19/11/2022 for IF-050
1730 # new eff from fields di-168/169 added R4
1731 B079:
1732   description: Meter Point Registration Statuses
1733   additionalProperties:
1734     properties:
1744   required:
1751 B080:
1752   description: Green Deal Information
1753   additionalProperties:
1754     properties:
1760   required:
1763 B081:
1764   description: Current Metering Service Details
1765   additionalProperties:
1766     properties:
1773   required:
1777 B082:
1778   description: Current Data Service Details
1779   additionalProperties:
1780     properties:
1787   required:
1790 B083:
1807 B083:
1808   description: MDR End Date
1809   additionalProperties:
1810     properties:
1818   required:
1822 # DIN-844
1823 B084:
1824   settlementPeriodEffectiveToDateTime:
1831 #   periodConsumptionValue:
1834 #   v:
1835 #   settlementPeriodQualityIndicator:
1837 #   q:
1838   required:
1840 B090:
1841   description: Subsidiary MPAN
1842   additionalProperties:
1843     false
1844   properties:
1845     subsidiaryMPAN:
1851       $ref: 'https://api.swaggerhub.com/domains/MHHSPPROGRAMME/DataCatalogue/1.7.1#/compon
1852   required:
1853     - subsidiaryMPAN
1855 B091:
1856   description: MPAN Relationship Additional Information
1857   properties:
1858     additionalInformation:
1859       $ref: 'https://api.swaggerhub.com/domains/MHHSPPROGRAMME/DataCatalogue/1.7.1#/compon
1860   required:
1861     - additionalInformation
```

After change:

```
1731 # new block 19/11/2022 for IF-050
1732 # new eff from fields di-168/169 added R4
1733 B079:
1734   description: Meter Point Registration Statuses
1735   type: object
1736   additionalProperties: <--->
1737   properties: <--->
1738   required: <--->
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1754 B080:
1755   description: Green Deal Information
1756   type: object
1757   additionalProperties: <--->
1758   properties: <--->
1759   required: <--->
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1783 B082:
1784   description: Current Data Service Details
1785   type: object
1786   additionalProperties: <--->
1787   properties: <--->
1788   required: <--->
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1797 # B083: <--->
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1813 B083:
1814   description: MDR End Date
1815   type: object
1816   additionalProperties: <--->
1817   properties: <--->
1818   required: <--->
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1830 # DIN-844
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1832 B084: <--->
1833 #   settlementPeriodEffectiveToDateTime: <--->
1834 #   periodConsumptionValue: <--->
1835 #   settlementPeriodQualityIndicator:
1836 #     q: <--->
1837 #   required: <--->
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1853 B090:
1854   description: Subsidiary MPAN
1855   type: object
1856   additionalProperties:
1857     false
1858   properties:
1859     subsidiaryMPAN:
1860       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.8#/componen
1861     required:
1862       - subsidiaryMPAN
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5.1.2 MHHS-DIN-892

Description of change: Added new DIPEgressMessage to the swagger in order to split the incoming and outgoing APIs to allow multiversion support. Please see screenshots below (change is broken into multiple before and after screenshots):

Before change:

```
298 /dip-channel/{id}/pubconfig/{recipient-id}:
299 post:
300   summary: Configure DIP Channel Publication
301   description: Allows a Market Participant to configure the output channel
302   operationId: configurePublication
303   tags:
304     - DIP Channel Publication Configuration
305   parameters:
312
313   requestBody:
319
320   callbacks:
321     outEvent:
322       '{$request.body#/config.callbackURL}':
323         post:
324           parameters:
330
331           requestBody:
332             required: true
333             content:
334               application/json:
335                 schema:
336                   $ref: '#/components/schemas/DIPMessageArray'
337
415 /dip-channel/{id}/replay/{recipient-id}:
416 post:
417   summary: Replay messages from a DIP Channel Publication
418   description: Allows a Market Participant to replay messages
419   operationId: replayPublication
420   tags:
421     - DIP Channel Replay/Requeue
422   parameters:
429
430   requestBody:
436
437
438 responses:
439   '200':
440     description: Replayed Messages
441     content:
442       application/json:
443         schema:
444           $ref: '#/components/schemas/DIPMessageArray'
445
446   '400':
447     description: Bad Request
448     content:
449       application/json:
450         schema:
451           $ref: '#/components/schemas/StandardResponse'
452
453   '401':
454     description: Unauthorised Error
455   '403':
456     description: Forbidden
457
```




```

696 ▾ ### DIP message defintion
697
698 ▾ DIPMessageArray:
699     description: Array of DIP messages
700     type: array
701     minItems: 1
702     items:
703         $ref: '#/components/schemas/DIPMessage'
704
705 ▾ # Interface defintions found in interfaces file
706
707 ▾ DIPMessage:
708     description: DIP message - multiple payloads mapped into single object
709     type: object
710 ▾ #DIN-749 - Add payload to the required
711     required:
712         - payload
713     properties:
714         payload:
715             oneOf: 
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```

After change:

```

302 ▾ /dip-channel/{id}/pubconfig/{recipient-id}:
303 ▾   post:
304     summary: Configure DIP Channel Publication
305     description: Allows a Market Participant to configure the output channel
306     operationId: configurePublication
307     tags:
308         - DIP Channel Publication Configuration
309     parameters: 
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317 ▾     requestBody: 
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324 ▾     callbacks:
325         outEvent:
326             '{$request.body#/config.callbackURL}':
327                 post:
328                     parameters: 
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335 ▾     requestBody:
336         required: true
337         content:
338             application/json:
339                 schema:
340                     $ref: '#/components/schemas/DIPMessageEgressArray' # DIN-892
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```

419 /dip-channel/{id}/replay/{recipient-id}:
420 post:
421   summary: Replay messages from a DIP Channel Publication
422   description: Allows a Market Participant to replay messages
423   operationId: replayPublication
424   tags:
425     - DIP Channel Replay/Requeue
426   parameters:
433
434   requestBody:
440
441
442   responses:
443     '200':
444       description: Replayed Messages
445       content:
446         application/json:
447           schema:
448             $ref: '#/components/schemas/DIPMessageEgressArray'
449
450     '400':
456
457     '401':
458       description: Unauthorised Error
459     '403':
460       description: Forbidden

```

```

5107
5108 ### DIP message defintion
5109
5110 DIPMessageArray:
5111   description: Array of DIP messages
5112   type: array
5113   minItems: 1
5114   items:
5115     $ref: '#/components/schemas/DIPMessage'
5116
5117 # DIN-892
5118 DIPMessageEgressArray:
5119   description: Array of DIP messages
5120   type: array
5121   minItems: 1
5122   items:
5123     $ref: '#/components/schemas/DIPMessageEgress'
5124
5125
5126 # Interface defintions found in interfaces file
5127
5128 DIPMessage:
5129   description: DIP message - multiple payloads mapped into single object
5130   type: object
5131 #DIN-749 - Add payload to the required
5132   required:
5133     - payload
5134   properties:
5135     payload:
5136       oneOf:
5194
5195 # DIN-892
5196 DIPMessageEgress:
5197   description: DIP message Egress - multiple payloads mapped into single object
5198   type: object
5199   required:
5200     - payload
5201   properties:
5202     payload:
5203       oneOf:
5261
5262
5263

```

5.1.3 MHHS-DIN-959

Description of change: Removed “chargeBand”, “dailyUncorrectedVolumeForChargeBand” and “totalVolumeChargeForChargeBand” fields from R901-07. Please see screenshots below:

Before change:

```
1436 - R901-07:
1437   description: Tariff Characteristics
1438   type: object
1439   additionalProperties:
1440     false
1441   properties:
1442     DUoS Tariff ID:
1443       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-345-DUoS-Tariff-ID'
1444     energyDirection:
1445       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-035-Energy-Direction'
1446     domesticPremiseIndicator:
1447       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise-Indicator'
1448     dailyTariffNumberOfMSIDs:
1449       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-603-Daily-Tariff-Number-Of-MSIDs'
1450     dailyTariffMSIDCharge:
1451       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-604-Daily-Tariff-MSID-Charge'
1452     chargeBand:
1453       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1454     dailyUncorrectedVolumeForChargeBand:
1455       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1456     totalVolumeChargeForChargeBand:
1457       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1458   R901-08:
1459     description: Charge Bandlist
1460     type: array
1461     items:
1462       $ref: '#/components/schemas/R901-08'
```

After change:

```
1436 - R901-07:
1437   description: Tariff Characteristics
1438   type: object
1439   additionalProperties:
1440     false
1441   properties:
1442     DUoS Tariff ID:
1443       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-345-DUoS-Tariff-ID'
1444     energyDirection:
1445       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-035-Energy-Direction'
1446     domesticPremiseIndicator:
1447       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise-Indicator'
1448     dailyTariffNumberOfMSIDs:
1449       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-603-Daily-Tariff-Number-Of-MSIDs'
1450     dailyTariffMSIDCharge:
1451       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-604-Daily-Tariff-MSID-Charge'
1452 # DIN-959 | chargeBand:
1453 #   $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1454 #   dailyUncorrectedVolumeForChargeBand:
1455 #     $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1456 #   totalVolumeChargeForChargeBand:
1457 #     $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1458   R901-08:
1459     description: Charge Bandlist
1460     type: array
1461     items:
1462       $ref: '#/components/schemas/R901-08'
```

5.1.4 MHHS-DIN-960

Description of change: Swagger updated to include facility for new JSON Message Error Checking End Points and response message. Please see screenshot below:

Before change: N/A

After change*:

DIP Message Validation Endpoints ^

POST /validate/IF-001/InitialRegistration
POST /validate/IF-001/ChangeOfSupplier
POST /validate/IF-002/GainMPANInfo
POST /validate/IF-003/ReverseMigNotification
POST /validate/IF-003/MSDeAppRM
POST /validate/IF-003/DSDDeAppRM
POST /validate/IF-003/MSDeAppUpdateRM
POST /validate/IF-003/DSDDeAppUpdateRM
POST /validate/IF-004/CommsHubInfo
POST /validate/IF-005/MeterInstall
POST /validate/IF-005/MeterRemoval
POST /validate/IF-005/MeterUpdate
POST /validate/IF-005/MeterHistoryUpdate
POST /validate/IF-006/MeterInstall
POST /validate/IF-006/MeterRemoval
POST /validate/IF-006/MeterExchange
POST /validate/IF-006/MeterUpdate
POST /validate/IF-006/MeterHistoryUpdate
POST /validate/IF-007/EnergisationStatusChange
POST /validate/IF-007/EnergisationStatusFailure
POST /validate/IF-008/EnergisationStatusChange
POST /validate/IF-009/MPANDisconnection
POST /validate/IF-009/CSSDeRegistration
POST /validate/IF-013/ActivePowerDefaulted
POST /validate/IF-014/ActivePowerRejected
POST /validate/IF-014/ConsumptionOnDeEnergisedMPAN
POST /validate/IF-015/ConsumptionReplay
POST /validate/IF-018/AddressChg
POST /validate/IF-018/GSPChg

**Further details – please see swagger for complete list*

5.1.5 MHHS-DIN-964

Description of change: For IF-005 events codes [MeterUpdate] and [MeterHistoryUpdate] need to be updated so that B906a block is used rather than existing B906 (ie use 906a block rather than 906) . This will ensure the B034 block is optional for these events. Note, no change is required to IF-006 as this already uses 906a. Please see screenshots below:

Before change:

```
1088 IF-005-MeterUpdate:
1089   description: IF005 Message for MeterUpdate
1090   type: object
1091   additionalProperties:
1092     false
1093   required:
1094     - CommonBlock
1095     - CustomBlock
1096   properties:
1097     CommonBlock:
1137
1138     CustomBlock:
1139       description: IF005 Custom data block for MeterUpdate
1140       type: object
1141       additionalProperties:
1142         false
1143       required:
1144         - B906
1145       properties:
1146         B906:
1147           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B906'
1148         B039:
1149           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B039'
1150         B030:
1151           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B030'
1152
1153 IF-005-MeterHistoryUpdate:
1154   description: IF005 Message for MeterHistoryUpdate
1155   type: object
1156   additionalProperties:
1157     false
1158   required:
1159     - CommonBlock
1160     - CustomBlock
1161   properties:
1162     CommonBlock:
1202
1203     CustomBlock:
1204       description: IF005 Custom data block
1205       type: object
1206       additionalProperties:
1207         false
1208       required:
1209         - B906
1210       properties:
1211         B906:
1212           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B906'
1213         B039:
1214           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B039'
1215
```

After change:

```
1087 #####
1088 IF-005-MeterUpdate:
1089   description: IF005 Message for MeterUpdate
1090   type: object
1091   additionalProperties:
1092     false
1093   required:
1094     - CommonBlock
1095     - CustomBlock
1096   properties:
1097     CommonBlock:
1137
1138     CustomBlock:
1139       description: IF005 Custom data block for MeterUpdate
1140       type: object
1141       additionalProperties:
1142         false
1143       required:
1144         - B906
1145       properties:
1146         B906:
1147           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B906a' # DIN-964
1148         B039:
1149           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B039'
1150         B030:
1151           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B030'
1152
1153 IF-005-MeterHistoryUpdate:
1154   description: IF005 Message for MeterHistoryUpdate
1155   type: object
1156   additionalProperties:
1157     false
1158   required:
1159     - CommonBlock
1160     - CustomBlock
1161   properties:
1162     CommonBlock:
1202
1203     CustomBlock:
1204       description: IF005 Custom data block
1205       type: object
1206       additionalProperties:
1207         false
1208       required:
1209         - B906
1210       properties:
1211         B906:
1212           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B906a' # DIN-964
1213         B039:
1214           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.8#/components/schemas/B039'
1215
```

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

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