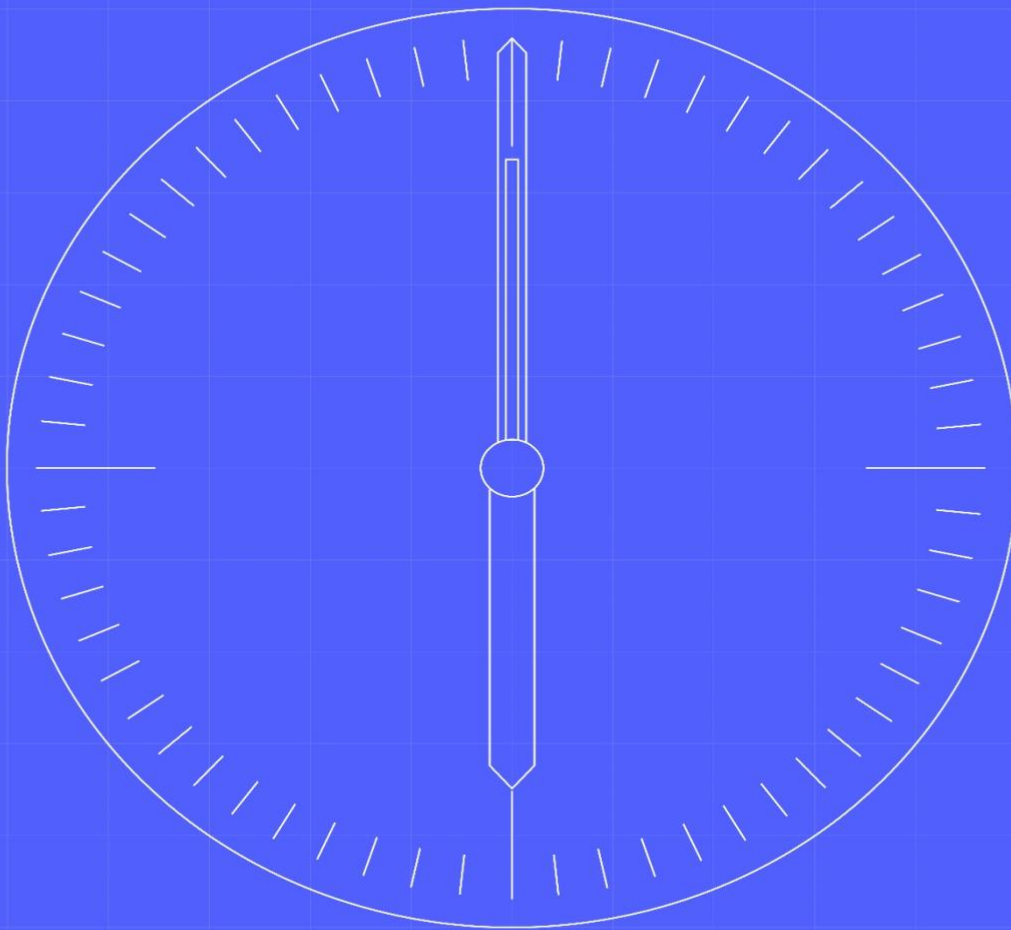


MHHS Design Release Note

Interim Release 5.4 Release

Date: 07-02-2024



Document owner

Design Team

Status:

Final

Document number

DEL1275

Date

07/02/2024

Version

V1.0

Classification

Public

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1.1 Change Record

Date	Author	Version	Change Detail
01/02/2024	MHHS Design Team	0.1	Initial Draft
07/02/2024	MHHS Design Team	1.0	Final version

1.2 Reviewers

Reviewer	Role

2 INTRODUCTION

These are the release notes for Interim Release 5.4 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

Interim Release 5.4 is a patch to Interim Release 5.

Improvements:

- Changes to correct Swagger
- Changes to correct DES138 – Interface Catalogue

Interim Release 5.4 constitutes an updated version of Swagger, which has been uplifted to address found misalignments.

The below DINs delivered the changes in Swagger.

- MHHS-DIN-874
- MHHS-DIN-878
- MHHS-DIN-879
- MHHS-DIN-880
- MHHS-DIN-881
- MHHS-DIN-882
- MHHS-DIN-887
- MHHS-DIN-889
- MHHS-DIN-894

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	Swagger Version	SIT Effective From Date	DIP Simulator Uplifted
IR2	05-Jul-23	1.2	30-Oct-23	11-Aug-23
IR2.1	11-Oct-23	1.2.1	30-Oct-23	20-Oct-23
IR2.2	08-Nov-23	1.2.2	08-Nov-23	08-Nov-23
IR2.3	29-Nov-23	1.2.3	20-Dec-23	15-Dec-23
IR3	02-Aug-23	1.3	11-Mar-24	03-Nov-23
IR4	30-Aug-23	1.4	11-Mar-24	03-Nov-23
IR5	04-Oct-23	1.5	11-Mar-24	03-Nov-23
IR5.1	17-Oct-23	1.5.1	11-Mar-24	03-Nov-23
IR5.2	14-Dec-23	1.5.2	11-Mar-24	05-Jan-24
IR5.3	17-Jan-24	1.5.3	11-Mar-24	26-Jan-24
IR6	01-Nov-23	1.6	10-Jun-24	22-Mar-24
IR7	31-Jan-24	1.7	10-Jun-24	22-Mar-24
IR8	03-Apr-24	1.8	02-Sep-24	21-Jun-24

JSON/YAML:

The best online tool we recommend verify the extent of the changes is: <https://www.textcompare.org/yaml/>. Comparing the YAML between versions 1.5 and 1.5.4 are clearly shown.

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	V5.5.5	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections
MHHSPROGRAMME-DataCatalogue-1.5.4-domain.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.5.4-domain.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.4-domain.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.4-domain.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.4-domain.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.4-domain.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.4-domain.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.4-domain.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.4-resolved.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.4-resolved.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.4-swagger.json	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.4-swagger.yaml	V1.5.4	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Examples-0.3-domain.json	V0.3	Supporting Documents	Updated Swagger definitions

MHHSPROGRAMME-Examples-0.3-domain.yaml	V0.3	Supporting Documents	Updated Swagger definitions
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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-874	Consent Granularity not nullable and N - no consent	Fixed
MHHS-DIN-878	IMS-SendMTD variant for IF-035 does not contain properties B070, B071 and B019 to align with DES-138	Fixed
MHHS-DIN-879	Change B099 to be a single block rather than a list in IF-035	Fixed
MHHS-DIN-880	DI-059 Contains "MAIN" in DI-059-Meter-Type enum, should be MAIN_ to align with ISD	Fixed
MHHS-DIN-881	IF-024 missing required attributes in blocks	Fixed
MHHS-DIN-882	New swagger file ErrorCodes to describe MHHS error messages and updates to error messages in DES138	Fixed
MHHS-DIN-887	Addition of 905 existing meter listing block to all events in IF-006	Fixed
MHHS-DIN-889	Property "type: object" missing from IF-024 variants in Swagger	Fixed
MHHS-DIN-894	DI-123-SSC is nullable in IR7, needs to be the same in IR5.x	Fixed

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

5.1 Additional Change information

5.1.1 MHHS-DIN-874

Description of change

Swagger/ DES-138 Interface Catalogue updated so that DI-838-Supplier-Proposed-Consent-Granularity and DI-017 Consent Granularity includes N - No Consent in the list of allowable values. DI-838 updated to be Mandatory no nulls. DI-838 description updated to align with the data item name in Swagger.

This DIN has two separate changes, please see screenshots below:

Before change 1:

```
2345
2346 DI-838-Supplier-Proposed-Consent-Granularity:
2347   description : Supplier Proposed Domestic Indicator
2348   type : string
2349   nullable: true
2350   maxLength : 1
2351   example : H
2352   enum:
2353     - H # HH Consent Granted
2354     - D # Daily Reads Only
2355     - M # Monthly Reads Only
2356     - x # Obfuscated value #DIN-857
2357     - null # - DIN-815
2358
```

After change 1:

```
2351 DI-838-Supplier-Proposed-Consent-Granularity:
2352   description : Supplier Proposed Consent Granularity
2353   type : string
2354 #   nullable: true # DIN-874
2355   maxLength : 1
2356   example : H
2357   enum:
2358     - H # HH Consent Granted
2359     - D # Daily Reads Only
2360     - M # Monthly Reads Only
2361     - N # No Consent # DIN-874
2362     - x # Obfuscated value #DIN-858
2363 #   - null # DIN-829 need to add null # DIN-878 rescinds 829
2364
```

Before change 2:

```
121 DI-017-Consent-Granularity:
122   description : Describes the granularity of energy settlement data that a customer has deemed to have consented to.
123   type : string
124   maxLength : 1
125   example : H
126   enum:
127     - H # HH Consent Granted
128     - D # Daily Reads Only
129     - M # Monthly Reads Only
130     - x # obfuscated value #DIN-857
131
```

After change 2:

```
121 DI-017-Consent-Granularity:
122   description : Describes the granularity of energy settlement data that a customer has deemed to have consented to.
123   type : string
124   maxLength : 1
125   example : H
126   enum:
127     - H # HH Consent Granted
128     - D # Daily Reads Only
129     - M # Monthly Reads Only
130     - N # No Consent # DIN-874
131     - x # obfuscated value #DIN-857
132
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.2 MHHS-DIN-878

Description of change

Updated Swagger IF-035-IMS-SendMTD: to include B070, B071 and B019 as optional fields in this variant. Please refer to screenshots below:

Before change:

```
5792 IF-035-IMS-SendMTD:
5793   description: MHHS Common Block for IF-035 IMS-SendMTD
5794   type: object
5795   additionalProperties:
5796     false
5797   required:
5798     - CommonBlock
5799     - CustomBlock
5800   properties:
5801     CommonBlock:
5802
5803
5804   CustomBlock:
5805     description: IF035 Custom data block
5806     type: object
5807     additionalProperties:
5808       false
5809     required:
5810       - B007
5811       - B012
5812     properties:
5813       B007:
5814         # Service Provider Appointment Outcome
5815         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B007'
5816       B012:
5817         # Service Provider Appointment Requesting Supplier
5818         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B012'
5819       B013:
5820         # CSS Switch ID
5821         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B013'
```

After change:

```
5792 IF-035-IMS-SendMTD:
5793   description: MHHS Common Block for IF-035 IMS-SendMTD
5794   type: object
5795   additionalProperties:
5796     false
5797   required:
5798     - CommonBlock
5799     - CustomBlock
5800   properties:
5801     CommonBlock:
5802
5803
5804   CustomBlock:
5805     description: IF035 Custom data block
5806     type: object
5807     additionalProperties:
5808       false
5809     required:
5810       - B007
5811       - B012
5812     properties:
5813       B007:
5814         # Service Provider Appointment Outcome
5815         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B007'
5816       B012:
5817         # Service Provider Appointment Requesting Supplier
5818         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B012'
5819       B013:
5820         # CSS Switch ID
5821         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B013'
5822       B070:
5823         # DIN-878
5824         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B070'
5825       B071:
5826         # DIN-878
5827         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B071'
5828       B019:
5829         # DIN-878
5830         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B019'
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.3 MHHS-DIN-879

Description of change

Updated Swagger IF-035 SDS-MDROutcome variant and made B099 a single block rather than a list. Please refer to screenshots below:

Before change:

```
5873 IF-035-SDS-MDROutcome:
5874   description: MHHS Common Block for IF-035 MDROutcome
5875   type: object
5876   additionalProperties:
5877     false
5878   required:
5879     - CommonBlock
5880     - CustomBlock
5881   properties:
5882     CommonBlock:
5923
5924
5925   CustomBlock:
5926     description: IF035 Custom data block for SDS-MDROutcome
5927     type: object
5928     additionalProperties:
5929       false
5930     required:
5931       - B012
5932       - B092
5933       - B099List
5934     properties:
5935       B012:
5936         # Service Provider Appointment Requesting Supplier
5937         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B012'
5938       B013:
5939         # CSS Switch ID
5940         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B013'
5941       B092:
5942         # SDS MDR Outcome
5943         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B092'
5944       B099List:
5945         type: array
5946         items:
5947           # Response Block
5948           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B099'
5949
5950
```

After change:

```
5873 IF-035-SDS-MDROutcome:
5874   description: MHHS Common Block for IF-035 MDROutcome
5875   type: object
5876   additionalProperties:
5877     false
5878   required:
5879     - CommonBlock
5880     - CustomBlock
5881   properties:
5882     CommonBlock:
5923
5924
5925   CustomBlock:
5926     description: IF035 Custom data block for SDS-MDROutcome
5927     type: object
5928     additionalProperties:
5929       false
5930     required:
5931       - B012
5932       - B092
5933       - B099 # DIN-879
5934     properties:
5935       B012:
5936         # Service Provider Appointment Requesting Supplier
5937         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B012'
5938       B013:
5939         # CSS Switch ID
5940         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B013'
5941       B092:
5942         # SDS MDR Outcome
5943         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B092'
5944       B099:
5945         # DIN-879
5946         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B099'
5947
```

This has also necessitated in an update to DES138 to the routing information for IF-035:

MHHS INTERFACE / MESSAGE SPECIFICATION

Registration Service Appointment Status Notification
IF-035 / PUB-035
009

DIP Delivery Pattern
Security Category:
Business Process Docs

Pattern A (JSON via DIP)
Cat 2
BP02 / BP03

Registration Service (REGS)

Supplier (SUP), Incumbent Metering Service, Data Service (ADS, SDS, UMSDS), Metering Service (MSA, MSS, UMSSO)

Registration Service Notification on Appointment Status. This could be that Appointment has been Accepted or Rejected by Service Provider; has become Lapsed (i.e. could not be successfully matched with a SecuredActive Switch). It is also used to advise the Incumbent Metering Service to issue MTDs to incoming Service Providers.

Event Code(s) / Conditions	Always Routing	Primary Routing	Secondary Routing	Correlation ID Created
[MSAppAccepted]		XMSS, SUPS,		Copy
[MSAppRejected]		XMSS, SUPS,		Copy
[MSAppLapsed]		XMSS, SUPS,		Copy
[DSAppAccepted]		XDSS, SUPS,		Copy
[DSAppRejected]		XDSS, SUPS,		Copy
[DSAppLapsed]		XDSS, SUPS,		Copy
[IMS-SendMTD] ~ Created from copy of [MS_AppAccepted] & [DS_AppAccepted]		XMSU		Copy
[SDS-MDROutcome] & 8099.DI-979 = "A"		SDSS, SUPS,		Copy
[SDS-MDROutcome] & 8099.DI-979 = "R"		SDSS		Copy
[DCC-MDROutcome]		SDSS		Copy

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.4 MHHS-DIN-880

Description of change

Updated "MAIN" in DI-059-Meter-Type enum in swagger, to be "MAIN_" to align with ISD. Please refer to screenshots below:

Before change:

```
405 - DI-059-Meter-Type:
406   description : The type of meter, in relation to its capabilities. E.g. AMR.S1, S2, S2ADE
407   type : string
408   maxLength : 5
409   example : S2CDE
410
411   enum:
412     # - val # Description
413     - CHECK # Check
414     - H # Half Hourly
415     - K # Key
416     - LAG # Lag
417     - LEAD # Lead
418     - MAIN # Main
419     - N # Non-Half Hourly
```

After change:

```
405 - DI-059-Meter-Type:
406   description : The type of meter, in relation to its capabilities. E.g. AMR.S1, S2, S2ADE
407   type : string
408   maxLength : 5
409   example : S2CDE
410
411   enum:
412     # - val # Description
413     - CHECK # Check
414     - H # Half Hourly
415     - K # Key
416     - LAG # Lag
417     - LEAD # Lead
418     - MAIN_ # Main # DIN-880
419     - N # Non-Half Hourly
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.5 MHHS-DIN-881

Description of change

DIN-811 missed IF-024-SN-NoComms needing the correct required attributes field set, therefore have updated swagger to include relevant changes. Please refer to the screenshots below:

Before change:

```
3478 - IF-024-SN-NoComms:
3479 -   description: MHHS Common Block for IF-024 SN-Vacant and SN-Comms (same blocks)
3480 -   additionalProperties:
3481 -     false
3482 -   required:
3483 -     - CommonBlock
3484 -     - CustomBlock
3485 -   properties:
3486 -     CommonBlock:
3527 -
3528 -     CustomBlock:
3529 -       description: IF024 Custom data block
3530 -       type: object
3531 -       additionalProperties:
3532 -         false
3533 -       properties:
3534 -         B057:
3535 -           # Supplier Advisory Notification (Mandatory)
3536 -           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B057'
3537 -
```

After change:

```
3478 - IF-024-SN-NoComms:
3479 -   description: MHHS Common Block for IF-024 SN-Vacant and SN-Comms (same blocks)
3480 -   additionalProperties:
3481 -     false
3482 -   required:
3483 -     - CommonBlock
3484 -     - CustomBlock
3485 -   properties:
3486 -     CommonBlock:
3527 -
3528 -     CustomBlock:
3529 -       description: IF024 Custom data block
3530 -       type: object
3531 -       additionalProperties:
3532 -         false
3533 -       required:
3534 -         - B057 # DIN-881
3535 -       properties:
3536 -         B057:
3537 -           # Supplier Advisory Notification (Mandatory)
3538 -           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B057'
3539 -
3540 -
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.6 MHHS-DIN-882

Description of change

New swagger module “ResponseCodes” has been created to capture all the different response codes. Please refer to screenshots below:

After change:

```
1 # OpenAPI version identifier - required for OpenAPI 3.0 domains
2 # (c) Elexon 2024
3 #
4 # MHHS - Data Integration Platform
5 # Response Codes
6 #
7 # ----- update -----
8 # January 2024 Added New module
9 #
10 #
11 # -----
12 # Change history
13 # -----
14 # Ver. Date Ref. Description
15 # -----
16 # 1.7 16/01/2024 DIN-836 Added new module
17 # -----
18 openapi: 3.0.0
19
20 #####
21 # Optional info section
22 #####
23 info:
24 title: MHHS Response Codes
25 description: MHHS Response Codes
26 version: '1.7'
27
28 components:
29
30
31 #####
32 # Common data models
33 #####
34 schemas:
35 DI_999-Response-Codes:
36 description: MHHS Response Codes
37 type: string
38 minLength: 0
39 maxLength: 7
40 example: MSG0000
41 enum:
42 - MSG0000 # Success
43 - MSG1000 # Message Processing Failed
44 - MSG1001 # Schema Failure
45 - MSG1002 # Interface ID Invalid
46 - MSG1006 # Sender Unique Reference Duplicated
47 - MSG1007 # Sender Timestamp Invalid
48 - MSG1009 # Sender DIP ID Invalid
49 - MSG1010 # Sender Role Invalid
50 - MSG1011 # Connection Provider ID Invalid
51 - MSG1012 # Sender Correlation ID Invalid
52 - MSG1030 # Msg Addressing / Routing Error
53 - MSG1031 # Primary Recipient(s) DIP Participant ID Invalid
54 - MSG1032 # Primary Recipient(s) DIP Role ID Invalid
55 - MSG1033 # Secondary Recipient(s) DIP Participant ID Invalid
56 - MSG1034 # Secondary Recipient(s) DIP Role ID Invalid
57 - MSG1035 # Always Recipient(s) DIP Participant ID Invalid
58 - MSG1036 # Always Recipient(s) DIP Role ID Invalid
59 - MSG1037 # Cannot Resolve Secondary Recipient(s) for Missing MPAN
60 - MSG1038 # Cannot Resolve Secondary Recipient(s) for MPAN/Party/Event Combination
61 - RCP0000 # Message Success
62 - RCP1000 # Message Processing Failed
63 - RCP1001 # Schema Failure
64 - RCP1002 # Interface ID Invalid
65 - RCP1003 # Event Code Invalid, Unexpected or Missing
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.7 MHHS-DIN-887

Description of change

Add B905 (existing meter listing) block to the IF-006 [MeterRemoval] variant so that all IF-006 event codes have this optional block. Please refer to screenshots below:

Before change:

```
1257 IF-006-MeterRemoval:
1258   description: IF006 Message for Meter Removal
1259   type: object
1260   additionalProperties:
1261     false
1262   required:
1263     - CommonBlock
1264     - CustomBlock
1265   properties:
1266     CommonBlock:
1304
1305     CustomBlock:
1306       description: IF005 Custom data block for Meter Removal
1307       type: object
1308       additionalProperties:
1309         false
1310       required:
1311         - B039
1312       properties:
1313         B039:
1314           $ref: 'https://api.swaggerhub.com/domains/###ISPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B039'
1315
1316
```

After change:

```
1257 IF-006-MeterRemoval:
1258   description: IF006 Message for Meter Removal
1259   type: object
1260   additionalProperties:
1261     false
1262   required:
1263     - CommonBlock
1264     - CustomBlock
1265   properties:
1266     CommonBlock:
1304
1305     CustomBlock:
1306       description: IF005 Custom data block for Meter Removal
1307       type: object
1308       additionalProperties:
1309         false
1310       required:
1311         - B039
1312       properties:
1313         B039:
1314           $ref: 'https://api.swaggerhub.com/domains/###ISPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B039'
1315
1316     # DIN-887
1317     B905List:
1318       type: array
1319       items:
1320         #074/075
1321         $ref: 'https://api.swaggerhub.com/domains/###ISPROGRAMME/RealCommonBlocks/1.7#/components/schemas/B905'
1322
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.8 MHHS-DIN-889

Description of change

Property "type: object" missing from IF-024 variants in Swagger. This needs to be added to all variants where this is missing. Please refer to details and screenshot, example, below for change:

The line "type: object" has been added to the following definitions:

- IF-024-SN-Vacant
- IF-024-SN-NoComms
- IF-024-SN-RemoteEnabled
- IF-024-SN-RemoteDisabled
- IF-024-SN-SupplierAC
- IF-024-SN-OffPeakDec

Before change:

```
3727
3728 IF-024-SN-OffPeakDec:
3729   description: MHHS Common Block for IF-024 OffPeakDec
3730   additionalProperties:
3731     false
3732   required:
3733     - CommonBlock
3734     - CustomBlock
3735   properties:
```

After change:

```
3750
3751 IF-024-SN-OffPeakDec:
3752   description: MHHS Common Block for IF-024 OffPeakDec
3753   type: object # DIN-889
3754   additionalProperties:
3755     false
3756   required:
3757     - CommonBlock
3758     - CustomBlock
3759   properties:
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

5.1.9 MHHS-DIN-894

Description of change

Updates to DI-123-SSC, to be made nullable as per previous IR5.x releases. Please refer to screenshots below:

Before change:

```
889 DI-123-SSC:
890   description : A legacy classification, retained soley for a subset of Traditional Meters,
      to assist with the allocation of gross consumption to individual Settlement Periods.
891   type : string
892   minLength : 4
893   maxLength : 4
894   #DIN-791
895   pattern: ^\d{4,4}$
896   example : '0123'
897
```

After change:

```
894 DI-123-SSC:
895   description : A legacy classification, retained soley for a subset of Traditional Meters,
      to assist with the allocation of gross consumption to individual Settlement Periods.
896   type : string
897   # DIN-894
898   nullable: true
899   minLength : 4
900   maxLength : 4
901   #DIN-791
902   pattern: ^\d{4,4}$
903   example : '0123'
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR5 (not yet started).

6 Unaffected Artefacts

All the other Interim Release 5 files are unaffected by this Interim Release 5.4 patch.

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.

If there are discrepancies following the Interim Release 5.4 changes in the Swagger/YAML, they are not going to be updated retrospectively for any previous Interim Releases.

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
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

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