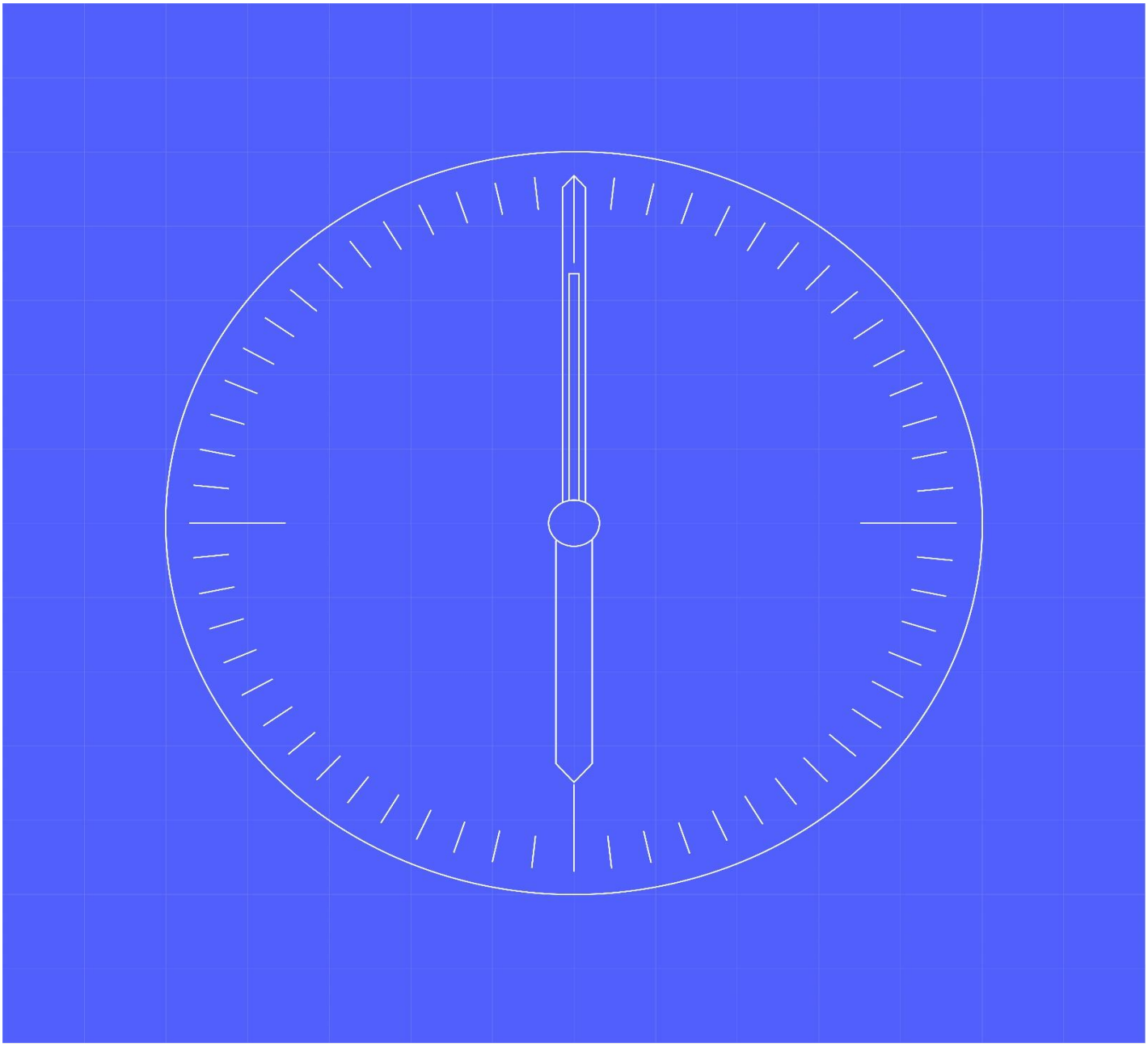
MHHS PROGRAMME
Industry-led, Elexon facilitated

MHHS Design Release Note
Interim Release 7.1
Release Date: 06-03-2024



Document owner	Document number	Version
Design Team	**DEL1275**	**V1.0**
Status:	Date	Classification
Final	**06/03/2024**	**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 4

4 Impacted Artefacts **5**

5 Resolved Issues **6**

5.1 Additional Change information 8

6 Issues/Limitations **29**

7 Past Releases **30**

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1.1 Change Record

Date	Author	Version	Change Detail
27/02/2024	Design Team	0.1	Initial Draft
06/03/2024	Design Team	1.0	Final version

1.2 Reviewers

Reviewer	Role

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2 INTRODUCTION

These are the release notes for Interim Release 7.1 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 7.1 is a patch to Interim Release 7.

Improvements:

- Changes to correct Swagger
- Changes to align DES138 with swagger
- Minor changes to other artefacts

The below DINs delivered the changes in Interim Release 7.1.

- MHHS-DIN-893
- MHHS-DIN-897
- MHHS-DIN-898
- MHHS-DIN-899
- MHHS-DIN-900
- MHHS-DIN-901
- MHHS-DIN-905
- MHHS-DIN-911
- MHHS-DIN-915
- MHHS-DIN-916
- MHHS-DIN-919
- MHHS-DIN-922
- MHHS-DIN-923
- MHHS-DIN-924
- MHHS-DIN-925
- MHHS-DIN-926
- MHHS-DIN-928
- MHHS-DIN-931
- MHHS-DIN-941
- MHHS-DIN-943

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.

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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	11-Mar-24	09-Feb-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	TBD
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:

The best online tool we recommend verify the extent of the changes is: https://www.textcompare.org/yaml/. Comparing the YAML between versions 1.7 and 1.7.1 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

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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
DES-138 Interface Catalogue	**V5.7.2**	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections
E2E001 – End-to-End Solution Architecture	**V3.6.1**	Supporting Documents	Solution Design Correction
E2E002 - Requirements	**V3.2**	Supporting Documents	Requirement corrections
MHHSP - ERI011B – ECS Reports - External	**V5.6.1**	Supporting Documents	Data Correction
MHHSP_EDI021 – ISD - Entities	**V5.5.1**	Supporting Documents	Data Correction
MHHSPROGRAMME-DataCatalogue-1.7.1-domain.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.7.1-domain.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.1-domain.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.1-domain.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.1-domain.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.1-domain.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.1-domain.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.1-domain.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.1-resolved.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions

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MHHSPROGRAMME-SubmitEvents-1.7.1-resolved.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.1-swagger.json	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.1-swagger.yaml	**V1.7.1**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Examples-0.5-domain.json	**V0.5**	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Examples-0.5-domain.yaml	**V0.5**	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-893	Regex for GSP Correction factor	Fixed
MHHS-DIN-897	IF-001 Change Of Supplier s1 block needs to mandatory	Fixed
MHHS-DIN-898	REP-003 fields - Clarification Request	Fixed
MHHS-DIN-899	IR7 Changes to ISD	Fixed
MHHS-DIN-900	IR7 E2E SA Obfuscation rules require updating	Fixed
MHHS-DIN-901	DES138 does not include CR23 opting in for MDRs	Fixed
MHHS-DIN-905	B033 block meterManufacturer IR7	Fixed
MHHS-DIN-911	Update B099 block to show that it is not an array	Fixed
MHHS-DIN-915	Missing swagger updates to align with DIN-801 - ECS reports REP006	Fixed
MHHS-DIN-916	IF-36 Obfuscation	Fixed
MHHS-DIN-919	Reverse Migration - IF003 missing supplier fields	Fixed
MHHS-DIN-922	IF-014 CustomBlock Required list needs updating	Fixed
MHHS-DIN-923	Clarification on Data Service sending consumption data for periods 47/48 during BST	Fixed
MHHS-DIN-924	Missing parameters in webhook callback	Fixed
MHHS-DIN-925	Add MPO Encrypted header parameter to callback	Fixed
MHHS-DIN-926	Response codes on delete operations	Fixed
MHHS-DIN-928	IF-037 mandatory block for [DS|MS]DeAppUpdate event codes	Fixed
MHHS-DIN-931	Clarification of response codes that need an associated response body in Swagger	Fixed
MHHS-DIN-941	Update to DI-122 Profile Class to min length of 1, max length of 2	Fixed

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

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5.1 Additional Change information

5.1.1 MHHS-DIN-893

Description of change

Update regex for to ensure only positive values on regex for DT-026-Group-Correction-Factor. Please refer to the screenshots below for change:

Before change:

```
421   DT-026-Group-Correction-Factor:
422     description: Group Correction Factor (Number 9,9) format
423     type: string
424     pattern: ^-?\d{1,9}\.\d{9}$
425     example: 20.123456789
426
```

After change:

```
423   DT-026-Group-Correction-Factor:
424     description: Group Correction Factor (Number 9,9) format
425     type: string
426     pattern: ^\d{1,9}\.\d{9}$ # DIN-893
427     example: 20.123456789
428
```

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5.1.2 MHHS-DIN-897

Description of change

IF-001 Change Of Supplier S1 block needs to mandatory (the A0 block was marked as mandatory which is incorrect)

Before change:

```
195     IF-001-ChangeOfSupplier:
196       description: IF001 Message
197       type: object
198       additionalProperties:
199           false
200       required:
201           - CommonBlock
202           - CustomBlock
203       properties:
204         CommonBlock:
205           type: object
206           additionalProperties:
207               false
208           required: # DIN-785
209               - S1
210               - A0
211               - M0
212           properties:
```

After change:

```
198     IF-001-ChangeOfSupplier:
199       description: IF001 Message
200       type: object
201       additionalProperties:
202           false
203       required:
204           - CommonBlock
205           - CustomBlock
206       properties:
207         CommonBlock:
208           type: object
209           additionalProperties:
210               false
211           required: # DIN-785
212               - S1
213               - S0 # DIN-897
214               - M0
215           properties:
216               S0:
217                 description: Sender Header block
218                 type: object
```

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5.1.3 MHHS-DIN-900

Description of change

Data items that resolve to DT-027-MPID that need to be obfuscated are written as 'XXXX' rather than 'xxxx' so the regex remains unbroken.

5.1.4 MHHS-DIN-905

Description of change

B033 block meterManufacturer was renamed to manufacturersMakeAndType it wasn't renamed in the 'required' properties.

Before change:

```
856   B033:
857       description: MPAN Meter info
858       type: object
859       additionalProperties:
860           false
861       properties:
862           meterID:
863               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-056-Meter-ID'
864           modifiedMeterID:
865               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-060-Modified-Meter-ID'
866           meterType:
867               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-059-Meter-Type'
868           manufacturersMakeAndType: #DIN-864
869               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-048-Manufacturers-Make-And-Type'
870           ESMEGUID:
871               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-085-ESME-GUID'
872           meterLocation:
873               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-090-Meter-Location'
874           numberOfDisplayedRegisterDigits:
875               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-091-Number-Of-Displayed-Register-Digits'
876           meterInstallationDate:
877               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7#/components/schemas/DI-057-Meter-Installation-Date'
878       required:
879         - meterID
880         - modifiedMeterID
881         - meterType
882         - meterManufacturer
883         - ESMEGUID
884         - meterLocation
885         - numberOfDisplayedRegisterDigits
886         - meterInstallationDate
887
```

After change:

```
858   B033:
859       description: MPAN Meter info
860       type: object
861       additionalProperties:
862           false
863       properties:
864           meterID:
865               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-056-Meter-ID'
866           modifiedMeterID:
867               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-060-Modified-Meter-ID'
868           meterType:
869               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-059-Meter-Type'
870           manufacturersMakeAndType: #DIN-864
871               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-048-Manufacturers-Make-And-Type'
872           ESMEGUID:
873               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-085-ESME-GUID'
874           meterLocation:
875               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-090-Meter-Location'
876           numberOfDisplayedRegisterDigits:
877               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-091-Number-Of-Displayed-Register-Digits'
878           meterInstallationDate:
879               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-057-Meter-Installation-Date'
880       required:
881         - meterID
882         - modifiedMeterID
883         - meterType
884         - manufacturersMakeAndType # DIN-905
885         - ESMEGUID
886         - meterLocation
887         - numberOfDisplayedRegisterDigits
888         - meterInstallationDate
889
```

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5.1.5 MHHS-DIN-915

Description of Change:

Missing swagger updates to align with DIN-801 - ECS reports REP006:

- Add Supplier R015 block to REP006
- DI-375 needs to be nullable
- DI-364 needs to be nullable
- Remove DI-030 Domestic Premise Indicator from R003 block

Before change:

REP-006-CustomBlock original

```
# REP006 - Aggregated Uncorrected volumes by CCC to Market Participants

    REP-006-CustomBlock:
      description: REP006 Custom data block
      type: object
      additionalProperties:
          false
      properties:
        R013:
            #    GSP Group
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7#/components/schemas/R013'
        R007:
            #    Settlement Run Execution
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7#/components/schemas/R007'
        R002:
            #    Settlement Run Execution
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7#/components/schemas/R002'
        REP006-R032:
          description: Array of extended BM Unit records
          type: array
          items:
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7#/components/schemas/REP006-R032'

```

After change:

New REP006-R015 block

```
    REP006-R015:
        description: R015 Supplier - extended records
        type: object
        additionalProperties:
            false
        properties:
          R015:
            $ref:  '#/components/schemas/R015'
          REP006-R032:
              type: array
              items:
                  $ref: '#/components/schemas/REP006-R032'


```

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REP-006-CustomBlock reworked

```
216   REP-006-CustomBlock:
217     description: REP006 Custom data block
218     type: object
219     additionalProperties:
220       false
221     properties:
222       R013:
223           #    GSP Group
224           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.1#/components/schemas/R013'
225       R007:
226           #    Settlement Run Execution
227           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.1#/components/schemas/R007'
228       R002:
229           #    Settlement Run Execution
230           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.1#/components/schemas/R002'
231       REP006-R015:
232         description: Array of extended Supplier records
233         type: array
234         items:
235           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.1#/components/schemas/REP006-R015'
236
```

DI-364 and D-I375 updates

Before change:

```
1583
1584    DI-364-Daily-BM-Unit-Period-Level-Consumption-Losses:
1585        # description : The BM Unit's Period Level Consumption Losses summed across Settlement Periods
1586      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataTypes/1.7.1#/components/schemas/DT-022-Decimal-9-6'
1587
1622    DI-375-Daily-Uncorrected-BM-Unit-Period-Level-Consumption:
1623        # description : The uncorrected BM Unit Allocated Demand Volume  summed across all Settlement periods
1624      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataTypes/1.7.1#/components/schemas/DT-022-Decimal-9-6'
1625
```

After change:

```
1584    DI-364-Daily-BM-Unit-Period-Level-Consumption-Losses:
1585        # description : The BM Unit's Period Level Consumption Losses summed across Settlement Periods
1586      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataTypes/1.7.1#/components/schemas/DT-022N-Decimal-9-6'
1587
1622    DI-375-Daily-Uncorrected-BM-Unit-Period-Level-Consumption:
1623        # description : The uncorrected BM Unit Allocated Demand Volume  summed across all Settlement periods
1624      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataTypes/1.7.1#/components/schemas/DT-022N-Decimal-9-6'
1625
```

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Remove DI-030 Domestic Premise Indicator from R003 block:

Before change:

```
    R003 :
        description :   CCC Determination Data
        type: object
        additionalProperties:
            false
        properties:
            connectionTypeIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-015-Connection-Type
                  -Indicator'
            measurementQuantityID:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-052-Measurement
                  -Quantity-ID'
            marketSegmentIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-050-Market-Segment
                  -Indicator'
            domesticPremiseIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise
                  -Indicator'
            consumptionComponentClassID:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-300-Consumption
                  -Component-Class-ID'
            consumptionComponentIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-080-Consumption
                  -Component-Indicator'
        required:
            - connectionTypeIndicator
            - measurementQuantityID
            - marketSegmentIndicator
            - domesticPremiseIndicator
            - consumptionComponentClassID
            - consumptionComponentIndicator

```

After change:

```
    R003 :
        description :   CCC Determination Data
        type: object
        additionalProperties:
            false
        properties:
            connectionTypeIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-015-Connection-Type-Indicator'
            measurementQuantityID:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-052-Measurement-Quantity-ID'
            marketSegmentIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-050-Market-Segment-Indicator'
#           domesticPremiseIndicator:
#               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise-Indicator'
            consumptionComponentClassID:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-300-Consumption-Component-Class-ID'
            consumptionComponentIndicator:
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-080-Consumption-Component-Indicator'
        required:
            - connectionTypeIndicator
            - measurementQuantityID
            - marketSegmentIndicator
#           - domesticPremiseIndicator
            - consumptionComponentClassID
            - consumptionComponentIndicator

```

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5.1.6 MHHS-DIN-919

Description of Change:

Added B002 block to DES138 IF-003 to provide the Incoming Supplier DIP ID, MPID and Effective From Date on a Reverse Migration de-appointment. Note, all Suppliers will need to be allocated a DIP ID in advance of migration. Required fields in swagger need updating to align with DES-138

IF-003 Custom data block for ReverseMigNotification B013, B094 & B002 marked as required.

Before change:

```
  IF-003-MSDeAppRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
      false
    required:
      - CommonBlock
      - CustomBlock
    properties:
      CommonBlock:


      CustomBlock:
        description: MHHS Custom Block for IF-003 eventcode MSDeAppRM
        type: object
        additionalProperties:
          false
        required:
          - B013
          - B008
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B008:
            # metering Service De-Appointment Details  (Mandatory for [MSDeAppRM])
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B008'



  IF-003-DSDeAppRM:
    description: IF-003 Notification of Reverse Migration De-Appointment eventcode DSDeAppRM
    type: object
    additionalProperties:
      false
    required:
      - CommonBlock
      - CustomBlock
    properties:
      CommonBlock:


      CustomBlock:
        description: IF-003 Custom data block for DSDeAppRM
        type: object
        additionalProperties:
          false
        required:
          - B013
          - B008
          - B009
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B008:
            # metering Service De-Appointment Details  (Mandatory for [MSDeAppRM])
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B008'

          B009:
            # Data Service De-Appointment Details  (Mandatory for [DSDeAppRM])
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B009'

  # end IF-003-DSDeAppRM
```

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```yaml
  IF-003-MSDeAppUpdateRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
        false
    required:
        - CommonBlock
        - CustomBlock
    properties:
      CommonBlock:⟺


      CustomBlock:
        description: IF-003 Custom data block for MSDeAppUpdateRM
        type: object
        additionalProperties:
            false
        properties:
          B013:
              # CSS Switch ID
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B095:
              # Incoming MOP Details
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B095'

  # end IF-003-MSDeAppUpdateRM

  IF-003-DSDeAppUpdateRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
        false
    required:
        - CommonBlock
        - CustomBlock
    properties:
      CommonBlock:⟺


      CustomBlock:
        description: IF003 Custom data block for DSDeAppUpdateRM
        type: object
        additionalProperties:
            false
        properties:
          B013:
              # CSS Switch ID
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B096:
              # Incoming DC Details
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B096'

   # end IF-003-DSDeAppUpdateRM

   IF-003-ReverseMigNotification:
     description: IF-003 Notification of Reverse Migration De-Appointment
     type: object
     additionalProperties:
         false
     required:
         - CommonBlock
         - CustomBlock
     properties:
       CommonBlock:⟺


       CustomBlock:
         description: IF-003 Custom data block for ReverseMigNotification
         type: object
         additionalProperties:
             false
         properties:
           B013:
               # CSS Switch ID
               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

           B094:
               # Incoming MOP Details
               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B094'
```

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After change:

```yaml
  IF-003-MSDeAppRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
      false
    required:
      - CommonBlock
      - CustomBlock
    properties:
      CommonBlock:


      CustomBlock:
        description: MHHS Custom Block for IF-003 eventcode MSDeAppRM
        type: object
        additionalProperties:
          false
        required:
          - B013
          - B008
          - B002
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B008:
            # metering Service De-Appointment Details  (Mandatory for [MSDeAppRM])
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B008'

          B002: #DIN-919
            # Incoming Supplier Information (Mandatory)
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B002'


  IF-003-DSDeAppRM:
    description: IF-003 Notification of Reverse Migration De-Appointment eventcode DSDeAppRM
    type: object
    additionalProperties:
      false
    required:
      - CommonBlock
      - CustomBlock
    properties:
      CommonBlock:


      CustomBlock:
        description: IF-003 Custom data block for DSDeAppRM
        type: object
        additionalProperties:
          false
        required:
          - B013
          - B009
          - B002
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

          B009:
            # Data Service De-Appointment Details  (Mandatory for [DSDeAppRM])
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B009'

          B002: #DIN-919
            # Incoming Supplier Information (Mandatory)
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B002'


```

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```yaml
  IF-003-MSDeAppUpdateRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
        false
    required:
        - CommonBlock
        - CustomBlock
    properties:
      CommonBlock:⟷


      CustomBlock:
        description: IF-003 Custom data block for MSDeAppUpdateRM
        type: object
        additionalProperties:
            false
        required:
            - B013
            - B002
        properties:
            B013:
              # CSS Switch ID
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

            B095:
              # Incoming MOP Details
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B095'

            B002: #DIN-919
                # Incoming Supplier Information (Mandatory)
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B002'

  # end IF-003-MSDeAppUpdateRM

  IF-003-DSDeAppUpdateRM:
    description: IF-003 Notification of Reverse Migration De-Appointment
    type: object
    additionalProperties:
        false
    required:
        - CommonBlock
        - CustomBlock
    properties:
      CommonBlock:⟷


      CustomBlock:
        description: IF003 Custom data block for DSDeAppUpdateRM
        type: object
        additionalProperties:
            false
        required:
            - B013
            - B002
        properties:
            B013:
              # CSS Switch ID
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'

            B096:
              # Incoming DC Details
              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B096'

            B002: #DIN-919
                # Incoming Supplier Information (Mandatory)
                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B002'

  # end IF-003-DSDeAppUpdateRM
```

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```yaml
741    IF-003-ReverseMigNotification:
742      description: IF-003 Notification of Reverse Migration De-Appointment
743      type: object
744      additionalProperties:
745          false
746      required:
747          - CommonBlock
748          - CustomBlock
749      properties:
750        CommonBlock:
791
792
793        CustomBlock:
794          description: IF-003 Custom data block for ReverseMigNotification
795          type: object
796          additionalProperties:
797              false
798          required:
799              - B013
800              - B094
801              - B002
802          properties:
803            B013:
804                # CSS Switch ID
805                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'
806
807            B094:
808                # Incoming MOP Details
809                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B094'
810
811            B002: #DIN-919
812                  # Incoming Supplier Information (Mandatory)
813                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B002'
814
815
```

5.1.7 MHHS-DIN-922

Description of change

IF-014 CustomBlock - needs updating and align required properties, should be B900 not B900List

Before change:

```yaml
2028    IF-014-Payload:
2029      description: IF-014 Rejected - UTC Settlement Period Consumption Data
2030      type: object
2031      additionalProperties:
2032          false
2033      required:
2034          - CommonBlock
2035          - CustomBlock
2036      properties:
2037        CommonBlock:
2083
2084        CustomBlock:
2085          description: IF014 Custom data block
2086          type: object
2087          additionalProperties:
2088              false
2089          required:
2090              - B044
2091              - B067
2092              - B900List
2093          properties:
2094            B044:
2095              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7#/components/schemas/B044'
2096            B067:
2097              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7#/components/schemas/B067'
2098            B900:
2099            # DIN-709 updated from a list to a single item to match IF-021 interface
2100                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7#/components/schemas/B900'
2101
```

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After change:

```
2059    IF-014-Payload:
2060      description: IF-014 Rejected - UTC Settlement Period Consumption Data
2061      type: object
2062      additionalProperties:
2063          false
2064      required:
2065          - CommonBlock
2066          - CustomBlock
2067      properties:
2068        CommonBlock:
2114
2115        CustomBlock:
2116          description: IF014 Custom data block
2117          type: object
2118          additionalProperties:
2119              false
2120          required:
2121              - B044
2122              - B067
2123              - B900 # DIN-922
2124          properties:
2125            B044:
2126              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B044'
2127            B067:
2128              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B067'
2129            B900:
2130            # DIN-709 updated from a list to a single item to match IF-021 interface
2131                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B900'
2132
2133
```

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5.1.8 MHHS-DIN-924 & MHHS-DIN-925

Description of change

Two DINs in the same area of the specification, please note there are multiple DIN changes in below screenshots:

DIN-924: reports there are missing parameters in webhook callback, The definition in the webhook callback in swagger is missing the definition

- $ref: '#/components/parameters/CommonSignatureHeader'
- $ref: '#/components/parameters/CommonSignatureDateHeader'
- $ref: '#/components/parameters/CommonSHA256Header'
- $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

DIN-925: requires a parameter to be added the webhook callback so that the MTLS cert can be authenticated by the MTLS connection. No impact on MPs, Avanade improving the security handshake on the callback

Before change 1:

```
/dip-channel/{id}/pubconfig/{recipient-id}:
  post:
    summary: Configure DIP Channel Publication
    description: Allows a Market Participant to configure the output channel
    operationId: configurePublication
    tags:
        - DIP Channel Publication Configuration
    parameters:
      - $ref: '#/components/parameters/MessageChannel'
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    requestBody:
      required: true
      content:
        application/json:
          schema:
              $ref: '#/components/schemas/WebhookConfig'

    callbacks:
      outEvent:
        '{$request.body#/config.callbackURL}':
          post:
            requestBody:
              required: true
              content:
                application/json:
                  schema:
                      $ref: '#/components/schemas/DIPMessageArray'

            responses:
              '201':
                description: Messages Created
                content:
                  application/json:
                    schema:
                        $ref: '#/components/schemas/StandardResponse'

              '207':
                description: Some Messages Created
                content:
                  application/json:
                    schema:
                        $ref: '#/components/schemas/StandardResponse'

              '400': # no retry
                description: Bad Request
```

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Before change 2:

```yaml
/statusmessage/config/{recipient-id}:
  parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
  post:
    summary: Webhook to pull a series of status messages
    description: Allows a Market Participant to get a series of status messages
    operationId: postStatusMsgWebhook
    tags:
      - Status Messages

    requestBody:
      required: true
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/WebhookConfig'

    responses:
      '201':
        description: Webhook created

      '401':
          description: Unauthorised Error


    callbacks:
      outEvent:
        '{$request.body#/callbackURL}':
          post:
            requestBody:
              required: true
              content:
                application/json:
                  schema:
                    $ref: '#/components/schemas/StandardResponseArray'
            responses:
              '200':
                description: OK

```

After change 1:

```yaml
/dip-channel/{id}/pubconfig/{recipient-id}:
  post:
    summary: Configure DIP Channel Publication
    description: Allows a Market Participant to configure the output channel
    operationId: configurePublication
    tags:
        - DIP Channel Publication Configuration
    parameters:
      - $ref: '#/components/parameters/MessageChannel'
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    requestBody:
      required: true
      content:
        application/json:
          schema:
              $ref: '#/components/schemas/WebhookConfig'

    callbacks:
      outEvent:
        '{$request.body#/config.callbackURL}':
          post:
            parameters:
              - $ref: '#/components/parameters/CommonSignatureHeader'
              - $ref: '#/components/parameters/CommonSignatureDateHeader'
              - $ref: '#/components/parameters/CommonSHA256Header'
              - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
              - $ref: '#/components/parameters/CommonMPODetails'

            requestBody:
              required: true
              content:
                application/json:
                  schema:
                      $ref: '#/components/schemas/DIPMessageArray'

            responses:
              '201':
                description: Messages Created
                content:
                  application/json:
                    schema:
                        $ref: '#/components/schemas/StandardResponse'

              '207':
                description: Some Messages Created
                content:
                  application/json:
                    schema:
                        $ref: '#/components/schemas/StandardResponse'
```

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After change 2:

```yaml
/statusmessage/config/{recipient-id}:
  parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
  post:
    summary: Webhook to pull a series of status messages
    description: Allows a Market Participant to get a series of status messages
    operationId: postStatusMsgWebhook
    tags:
      - Status Messages

    requestBody:
      required: true
      content:
        application/json:
          schema:
              $ref: '#/components/schemas/WebhookConfig'

    responses:
      '201':
        description: Webhook created

      '401':
          description: Unauthorised Error


    callbacks:
      outEvent:
        '{$request.body#/callbackURL}':
          post:
            parameters:
              - $ref: '#/components/parameters/CommonSignatureHeader'
              - $ref: '#/components/parameters/CommonSignatureDateHeader'
              - $ref: '#/components/parameters/CommonSHA256Header'
              - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
              - $ref: '#/components/parameters/CommonMPODetails'

            requestBody:
              required: true
              content:
                application/json:
                  schema:
                      $ref: '#/components/schemas/StandardResponseArray'
            responses:
              '200':
                description: OK

  delete:
    summary: Delete existing Status Message configuration
    description: Delete an exisiting webhook for Status Messages
    tags:
      - Status Messages
    parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
```

After change 3:

```yaml
    CommonMPODetails:
      name: X-DIP-MPO
      schema:
        type: string
      in: header
      required: false
```

5.1.9 MHHS-DIN-926

Description of change

Change the description of the response text associated with a response code 204.

Before change:

```
/dip-channel/{id}/pubconfig/{recipient-id}:
  post:⟷

  delete:
    summary: Delete existing Publication configuration
    description: Delete an exisiting webhook for PUB-001 publication
    tags:
        - DIP Channel Publication Configuration
    parameters:
      - $ref: '#/components/parameters/MessageChannel'
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    responses:
      '204':
          description: Publication config deleted
      '401':
          description: Unauthorised Error
```

```
/statusmessage/config/{recipient-id}:
  parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
  post:⟷

  delete:
    summary: Delete existing Status Message configuration
    description: Delete an exisiting webhook for Status Messages
    tags:
      - Status Messages
    parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    responses:
      '204':
          description: Publication config deleted
      '401':
          description: Unauthorised Error
```

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After change:

```
/dip-channel/{id}/pubconfig/{recipient-id}:
  post:
  delete:
    summary: Delete existing Publication configuration
    description: Delete an exisiting webhook for PUB-001 publication
    tags:
      - DIP Channel Publication Configuration
    parameters:
      - $ref: '#/components/parameters/MessageChannel'
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    responses:
      '204':
        description: No Content
      '401':
        description: Unauthorised Error
```

```
/statusmessage/config/{recipient-id}:
  parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
  post:

  delete:
    summary: Delete existing Status Message configuration
    description: Delete an exisiting webhook for Status Messages
    tags:
      - Status Messages
    parameters:
      - $ref: '#/components/parameters/MessageRecipientId'
      - $ref: '#/components/parameters/CommonSignatureHeader'
      - $ref: '#/components/parameters/CommonSignatureDateHeader'
      - $ref: '#/components/parameters/CommonSHA256Header'
      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'

    responses:
      '204':
        description: No Content
      '401':
        description: Unauthorised Error
```

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5.1.10 MHHS-DIN-928

Description of change

IF-037 [DS|MS] DeAppUpdate event codes the B010/B011 need to be marked as required.

Before change:

```
6914    IF-037-MSDeAppUpdate:
6915      description: IF-037 Service Provider Notification of Appointment for event code MSDeAppUpdate
6916      type: object
6917      required:
6918            - CommonBlock
6919            - CustomBlock
6920      additionalProperties:
6921          false
6922      properties:
6923          CommonBlock:⟷
6966
6967
6968
6969          CustomBlock:
6970              description: IF037 Custom data block for event code MSDeAppUpdate & DSDeAppUpdate
6971              type: object
6972              additionalProperties:
6973                  false
6974              properties:
6975                B013:
6976                    # CSS Switch ID
6977                    $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'
6978                B010:
6979                    # CSS Switch ID
6980                    $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B010'
6981
6982
6983    IF-037-DSDeAppUpdate:
6984      description: IF-037 Service Provider Notification of Appointment for event code DSDeAppUpdate
6985      type: object
6986      required:
6987            - CommonBlock
6988            - CustomBlock
6989      additionalProperties:
6990          false
6991      properties:
6992          CommonBlock:⟷
7035
7036
7037
7038          CustomBlock:
7039              description: IF037 Custom data block for event code DSDeAppUpdate
7040              type: object
7041              additionalProperties:
7042                  false
7043              properties:
7044                B013:
7045                    # CSS Switch ID
7046                    $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'
7047                B011:
7048                    # CSS Switch ID
7049                    $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B011'
7050
```

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After change:

```yaml
  IF-037-MSDeAppUpdate:
    description: IF-037 Service Provider Notification of Appointment for event code MSDeAppUpdate
    type: object
    required:
        - CommonBlock
        - CustomBlock
    additionalProperties:
      false
    properties:
      CommonBlock:{...}
      CustomBlock:
        description: IF037 Custom data block for event code MSDeAppUpdate & DSDeAppUpdate
        type: object
        additionalProperties:
          false
        required:
          - B010
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'
          B010:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B010'

  IF-037-DSDeAppUpdate:
    description: IF-037 Service Provider Notification of Appointment for event code DSDeAppUpdate
    type: object
    required:
        - CommonBlock
        - CustomBlock
    additionalProperties:
      false
    properties:
      CommonBlock:{...}
      CustomBlock:
        description: IF037 Custom data block for event code DSDeAppUpdate
        type: object
        additionalProperties:
          false
        required:
          - B011
        properties:
          B013:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B013'
          B011:
            # CSS Switch ID
            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B011'
```

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5.1.11 MHHS-DIN-931

Description of change

DIP API responses with a 400 return code require a response body as further information as to the failure may be passed in the response.

Before change:

```yaml
paths:
  /dip-channel/{id}:
    summary: DIP Interface Channels
    description: Represents a single DIP messaging channel. Each interface/publication/report is identified by a 'id'

    post:
      summary: Submit a series of Interface messages
      description: Allows a Market Participant to submit a series of messages on a DIP interface
      operationId: sendMessage
      tags:
          - DIP Message Channel
      parameters:⟺


      requestBody:⟺


      responses:
        '201':
          description: Messages created
          content:
            application/json:
              schema:
                  $ref: '#/components/schemas/StandardResponse'

        '207':
          description: Some messages created
          content:
            application/json:
              schema:
                  $ref: '#/components/schemas/StandardResponse'

        '400':
          description: Bad Request
        '401':
          description: Unauthorised Error
```

After change:

```yaml
paths:
  /dip-channel/{id}:
    summary: DIP Interface Channels
    description: Represents a single DIP messaging channel. Each interface/publication/report is identified by a 'id'

    post:
      summary: Submit a series of Interface messages
      description: Allows a Market Participant to submit a series of messages on a DIP interface
      operationId: sendMessage
      tags:
          - DIP Message Channel
      parameters:⟺


      requestBody:⟺


      responses:
        '201':
          description: Messages created
          content:
            application/json:
              schema:
                  $ref: '#/components/schemas/StandardResponse'

        '207':
          description: Some messages created
          content:
            application/json:
              schema:
                  $ref: '#/components/schemas/StandardResponse'

        '400':
          description: Bad Request
          content:
            application/json:
              schema:
                  $ref: '#/components/schemas/StandardResponse'
```

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5.1.12 MHHS-DIN-941

Description

Update to DI-122 Profile Class to allow value to be provided with min length of 1 and max length of 2 in swagger so that, for example, either 1 or 01 are accepted. Original DIN-720 reimplemented.

Before:

```
890     DI-122-Profile-Class:
891       # DIN-720 update
892         description : A legacy classification, retained soley for a subset of Traditional Meters, to assist
              with the allocation of gross consumption to individual Settlement Periods.
893         type : string    # MHHS-DIN-367 - updated to string from integer
894         nullable: true
895         minLength : 2
896         maxLength : 2
897         pattern: ^\d{2}$
898         example : '02'
```

After:

```
891     DI-122-Profile-Class:
892       # DIN-720 update
893       # DIN-941 update
894         description : A legacy classification, retained soley for a subset of Traditional Meters, to assist
              with the allocation of gross consumption to individual Settlement Periods.
895         type : string    # MHHS-DIN-367 - updated to string from integer
896         nullable: true
897         minLength : 1
898         maxLength : 2
899         pattern: ^\d{1,2}$
900         example : '02'
901
```

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.

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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

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

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