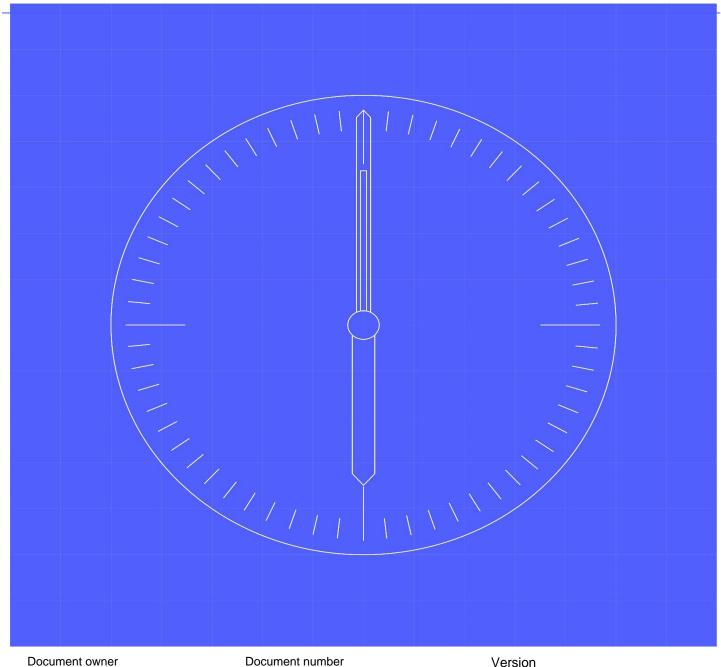


MHHS Design Release Note Interim Release 5.2

Release Date: 13/12/23



Document owner

Document number

Design Team

DEL1275

13/12/2023

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Final

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1.1 Change Record

Date	Author	Version	Change Detail
04/12/2023	MHHS Design Team	0.1	Initial Draft
13/12/2023	MHHS Design Team	1.0	Final

1.2 Reviewers

Reviewer	Role

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2 INTRODUCTION

These are the release notes for Interim Release 5.2 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 5.2 is a patch to Interim Release 5.

Improvements:

- Changes to correct Swagger
- Changes to correct E2E001 End-to-End Solution Architecture
- Changes to correct DES-138 Interface Catalogue

Interim Release 5.2 constitutes updated versions of Swagger, the E2E001 – End-to-End Solution Architecture artefact and the DES-138 Interface Catalogue which have been uplifted to address found misalignments.

The below DINs delivered the changes in Swagger.

- MHHS-DIN-772
- MHHS-DIN-773
- MHHS-DIN-777
- MHHS-DIN-783
- MHHS-DIN-784
- MHHS-DIN-791
- MHHS-DIN-798
- MHHS-DIN-808
- MHHS-DIN-809
- MHHS-DIN-810
- MHHS-DIN-813
- MHHS-DIN-814
- MHHS-DIN-815
- MHHS-DIN-816
- __ _ ...

MHHS-DIN-818

MHHS-DIN-831

- MHHS-DIN-820
- MHHS-DIN-834
- MHHS-DIN-840
- MHHS-DIN-841

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

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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.

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 1.5.2 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	V5.5.4	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections
E2E001 – End-to-End Solution Architecture	V3.5.1	Supporting Documents	Additional Solution Design Details
MHHSPROGRAMME-DataCatalogue-1.5.2-domain.json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.5.2-domain.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.2-domain.json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.2-domain.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.2-domain.json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.2-domain.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.2-domain.json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.2-domain.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.2-resolved.json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.2-resolved.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.2-swagger.json	V1.5.2	Supporting Documents	Updated Swagger definitions

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MHHSPROGRAMME-SubmitEvents-1.5.2-swagger.yaml	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Examples-0.3-domain (1).json	V1.5.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Examples-0.3-domain (2).yaml	V1.5.2	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-772	For IF-043 the validation is failing due to the Custom Block. The required property name is 'CustomBlock' but the actual name is 'IF-043-CustomBlock' so Swagger needs to be updated to align to be CustomBlock.	Fixed
MHHS-DIN-773	Swagger for IF-026 for variant IF-026-SSCandProfileClass contains incorrect enumeration for IF-025. This needs to be updated in the list of enumerated value to be IF-026.	Fixed
MHHS-DIN-777	The required fileds on the common block are set to commonblock and customblock, they need to be set to S1 etc.	Fixed
MHHS-DIN-783	Schema Bug - DI-487-Total-Number-Energised-MPANs.maxLength should not have a maxLength validation attribute as it is an integer type. This means the schema itself does not validate against the rules for these types of schemas.	Fixed
MHHS-DIN-784	SchemaBug - DipMessage.payload is not a required property; therefore, different property names will pass validation without being checked - this means if you spell it "Payload" with a capital P instead it will effectively skip validation resulting in a false positive.	Fixed
MHHS-DIN-791	Update regex patterns for the following data type: DI-123	Fixed
MHHS-DIN-798	E2E001 Architecture document will be updated to reflect the adherence to case sensitivity on the inbound messages, and the removal of the statement in Swagger relating to case insensitivity.	Fixed
MHHS-DIN-808	IF-007 EnergisationStatusChange/Failure CustomBlocks missing required attribute	Fixed
MHHS-DIN-809	IF-008 EnergisationStatusChange, common block for R0 and CustomBlocks for B025 block missing required attribute	Fixed
MHHS-DIN-810	IF-004 common block M0 required attribute is missing	Fixed
MHHS-DIN-811	IF024 SNVacant CustomBlock required B057 IF024 SNRemoteEnabled CustomBlock required B057, B069 IF024 SNSupplierAC CustomBlock required B057, B058	Fixed
MHHS-DIN-813	There is no customblock on IF-015	Fixed
MHHS-DIN-814	For IF-045 the validation is failing due to the Custom Block. The required property name is 'CustomBlock' but the actual name is 'IF-045-CustomBlock' so Swagger needs to be updated to align to be CustomBlock.	Fixed
MHHS-DIN-815	DI-838-Supplier-Proposed-Consent-Granularity requires a null enum	Fixed
MHHS-DIN-816	IF-001 Custom Block missing additional properties false attribute	Fixed
MHHS-DIN-818	IF-014 should contain a B900 block, not a B900 array. This change was made in IR5 for IF-021 but was only applied to IF-014 in IR6. This DIN is to align with IF-021 for IR5 and ensure that B900 used, not an array of B900's.	Fixed
MHHS-DIN-820	IF-041 contains B06465list that uses anyOf when this should be one of either B064 or B065 to align with DES-138. This needs to be updated so that this list contains wither a B064 list OR B065 list.	Fixed
MHHS-DIN-831	DI-120 was made non nullable in IR5.1 in Swagger. This needs to be corrected so that DI-120 is used in multiple places and needs to be mandatory nullable.	Fixed
MHHS-DIN-834	IF-014 - to align with IF-021: Update DES138 to match swagger	Fixed
MHHS-DIN-840	[MeterUpdate]) to be added to data item B039 heading for IF-006	
5 5114 646	. , , , , , , , , , , , , , , , , , , ,	

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

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5.1.1 MHHS-DIN-772

Description of change

Update IF-043 so that it uses the required property name of 'CustomBlock' rather than what is currently defined as 'IF-043-CustomBlock'. Swagger has been updated to use CustomBlock.

Please refer to the screenshots below for change:

Before update:

After update:

Testing Impact

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

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5.1.2 MHHS-DIN-773

Description of change

Swagger for IF-026 for variant IF-026-SSCandProfileClass contains incorrect enumeration for IF-025. This needs to be updated in the list of enumerated value to be IF-026 in Swagger. Please refer to the screenshots below for change:

Before update:

object description: MHHS Common Block for IF-026 for SSCandProfileClass type: object additionalProperties: - S0 - S1 - M0 - R0 description: Sender Header block type: object additionalProperties: pe: string um: ['IF-025'] Version of the message schema used in the exchange

After update:

```
: MHHS Common Block for IF-026 for SSCandProfileClass
description:
type: object
additionalPro
               : Sender Header block
                      Version of the message schema used in the exchange
     interfaceID
schemaVersion
eventCode
```

Testing Impact

- interfaceID - schemaVersion - eventCode

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

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5.1.3 MHHS-DIN-777

Description of change

IF-001-ChangeOfSupplier required fields on CommonBlocks are incorrect. The required fields on the common block are set to CommonBlock and CustomBlock, they need to be set to S1 etc. Please refer to the screenshots below for change:

Before update:

```
167
168
                  type: object
169
170
                  additionalPrope
false
                  required:
- CommonBlock
- CustomBlock
172
                        type: object
176
177
178
179
180
                              - CommonBlock
- CustomBlock
181
182
183
184
                                  description: Sender Header block
type: object
185
186
187
188
                                         type: string
enum: ['IF-001']
189
                                         enum. [4]. https://doi.org/10.1007/j.hemaVersion:
description: Version of the message schema used in the exchange
191
192
193
```

After update:

```
166 description: IF001 Message type: object additionalProperties:
170 false
171 required:
172 - CommonBlock
173 - CommonBlock
174 properties:
175 commonBlock:
176 type: object additionalProperties:
178 false
179 required:
180 - S1
181 - A0
182 - M0
183 properties:
184 see
185 see
186 type: object properties:
187 sequired: # DIN-777
188 false
189 properties:
189 type: string
190 enum: ['IF-001']
191 schemaVersion:
192 description: Version of the message schema used in the exchange type: string
194 example: '009'
195 sequired:
196 - '009'
197 sequired:
198 type: string
199 enum:
199 eventCode:
199 cenum:
190 cenum:
190 cenum:
191 cenum:
192 cenum:
193 cenum:
194 cenum:
195 cenum:
196 cenum:
197 cenum:
198 cenum:
199 cenum:
199 cenum:
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190 cenum:
190 cenum:
191 cenum:
192 cenum:
193 cenum:
194 cenum:
195 cenum:
196 cenum:
197 cenured:
198 cenum:
199 cenum:
199
```

Testing Impact

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

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5.1.4 MHHS-DIN-783

Description of change

DI-487-Total-Number-Energised-MPANs.maxLength should not have a maxLength validation attribute as it is an integer type. This means the schema itself does not validate against the rules for these types of schemas. DI-487-Total-Number-Energised-MPANs maxLength attribute should be length as it is an integer type. Please refer to the screenshots below for change:

Before update:

```
DI-487-Total-Number-Energised-MPANs:
description: The Total number of Energised MPANs by Settlement Period.
type: integer #DIN-410
maxLength: 10
```

After update:

```
1654 DI-487-Total-Number-Energised-MPANs:
1655 description: The Total number of Energised MPANs by Settlement Period.
1656 type: integer #DIN-410, #DIN-748, #DIN-783
1657 minimum: 0
1658 maximum: 9999999999
```

Testing Impact

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

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5.1.5 MHHS-DIN-784

Description of change

DipMessage.payload is not a required property; therefore, different property names will pass validation without being checked - this means if you spell it "Payload" with a capital P instead it will effectively skip validation resulting in a false positive. Therefore 'payload' needs to be a required attribute for the DIPMessage object. Please refer to the screenshots below for change:

Before update:

```
598 # Interface defintions found in interfaces file
599
600 DIPMessage:
601 description: DIP message - multiple payloads mapped into single object
602 type: object
603 properties:
604 payload:
605 oneOf:
606 - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/II
607 - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/II
608 - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/II
609 - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/II
609 - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/II
```

After update:

```
# Interface defintions found in interfaces file
599
600
             description: DIP message - multiple payloads mapped into single object
601
602
              type: object
              required: # DIN-784
603
                - payload
604
605
606
607

    - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfac
    - $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfac

608
```

Testing Impact

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

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5.1.6 MHHS-DIN-791

Description of change

Added regex patterns for the following data type: DI-123. Please refer to the screenshots below for change:

Before update:

```
880 DI-123-SSC:
881 description: A legacy classification, retained soley for a subset of Traditional Meters, to to individual Settlement Periods.
882 type: string
883 nullable: true
884 minLength: 4
885 maxLength: 4
886 example: 0123
887
```

After update:

```
DI-123-SSC:

description : A legacy classification, retained soley for a subset of Traditional Meters, to assist with the allocation of gross consumption to individual Settlement Periods.

type : string
minLength : 4
maxLength : 4
#DIN-791
pattern: ^\d{4,4}$
example : '0123'
```

Testing Impact

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

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5.1.7 MHHS-DIN-798

Description of change

Updated the E2E001 design document to enforce capitalisation checks on the JSON message submitted. The following screenshot shows the changes that have been made to section 4.4.3 of the E2E001 Architecture document.

The DIP will not be enforcing any-capitalisation checks on message ingress for path names and message structure. However-Ddata items within messages are also case sensitive and the DIP will not convert between cases: data will pass through unaltered. This follows OpenAPI standards. Enumeration checks undertaken by the DIP are case sensitive, e.g.e.g., for the CommonBlock/S1/environment the term 'PROD' is accepted, whilst 'prod' or 'Prod' are rejected. A significant amount of legacy data items where case is important pass through the DIP and hence the reason why these checks are applied).

Generate return code based on the results of the above checks for the all the messages received in the single transaction.

The following screenshot shows the changes that have been made in Swagger.

```
MMHS - Data Integration Platform SubmitEvents API
           update notices
ber 2023
## Version 1.5.2 available for pre-release assessment
" Updates to include changes for interim release 1.5.1
# Changes to implement inconsistencies highlighted by internal audit. NO structural change to
# any objects. Changes to event codes and optionality of properties within objects
 # Updates to include changes for interim release 1.5
      see below for details
   Updates to include changes for interim release 1.4
# Updates to include changes for interim release 1.3
"
# Version 1.1 is now published and fixed.
# A version 1.2 will be created to pick up the next set of changes.
  # After consulation with the DIP SP there has been a significant change to the endpoint definitions for the submisison of messages
# Instead of a single endpoint where all messages are submitted, each message interface will be submitted at a different endpoint
# The rationale for this chnage is primarily from a maintainability point-of-view as it allows maintainence on each interface in isolation from
# other interfaces and allows new message channels to be added without impact existing interfaces.
# outstanding work :-
# 1. replace swaggerhub domain with DIP domain name - to do
# none of these items affect the data format
# any comments please relay to design(@)mhhsprogramme.co.uk
   Change history
# Ver Date
# 1.5.2 30/11/2023 DIN-784
# DIN-798
                                                 DIPMessage.payload add as a required property
Removal of comment for relaxing capitalisation checks
Update links to examples 0.3
```

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR 5 (not yet started).

5.1.8 MHHS-DIN-808

IF-007 EnergisationStatusChange/Failure CustomBlocks missing required attribute for B025 (in variant EnergisationStatusChange) and B040 (in variant EnergisationStatusFailure). Swagger update for inclusion of missing attribute in IF-007. There are two changes for this DIN, please refer to screenshots below:

Before update (change 1):

```
| 1514 | IF-007-EnergisationStatusChange: | description: IF007 Message for Energisation Status Change | type: object | additionalProperties: | false | required: | | CommonBlock | CustomBlock | CustomBlock | CustomBlock | CustomBlock | CustomBlock | CommonBlock | CustomBlock | CommonBlock | CustomBlock | CustomBlock | CommonBlock | CustomBlock | Custo
```

After update (change 1):

```
| IF-007-EnergisationStatusChange:
| description: IF007 Wessage for Energisation Status Change | description: IF007 Wessage for Energisation Status Change | type: object | additionalProperties: | false | required: | additionalProperties: | commonBlock | - CustomBlock | - CustomBlock | - CustomBlock | - CustomBlock | - CommonBlock | - CustomBlock | - CustomBlock | - CustomBlock | - CustomBlock | - AdditionalProperties: | description: IF007 Custom data block EnergisationStatusFailure | type: object | additionalProperties: | false | required: | - B025 | #0IN-808 | - B025 | #0IN-808 | - B025 | B0IN-808 | Fore: 'https://api.swaggerhub.com/domains/NMHSPROGRAWME/RealCommonBlocks/1.5.1#/components/schemas/8025' | $ref: 'https://api.swaggerhub.com/domains/NMHSPROGRAWME/RealCommonBlocks/1.5.1#/components/schemas/8025' |
```

Before update (change 2):

```
IF-007-EnergisationStatusFailure:

1581 description: IF007 Message for EnergisationStatusFailure

1582 type: object

1583 additionalProperties:

1584 false

- commonBlock

- CustomBlock

- CustomBlock:

1589 CommonBlock:

1627

1628

1629 CustomBlock:

1630 description: IF007 Custom data block EnergisationStatusFailure

1631 type: object

1631 additionalProperties:

1632 additionalProperties:

1633 | false

1634 properties:

1635 B040:

| $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7#/components/schemas/B040'
```

After update (change 2):

```
1578 | IF-007-EnergisationStatusFailure:
1579 | description: IF007 Message for EnergisationStatusFailure
1580 | type: object | additionalProperties: | false | required: | commonBlock |
1581 | commonBlock | commonBlock |
1585 | false | commonBlock |
1586 | properties: | commonBlock: | description: IF007 Custom data block EnergisationStatusFailure |
1626 | type: object | additionalProperties: | false | required: | false | required: | false | required: | false | false | false | B048 | EIS33 | B048 | EIS35 | B048: | EIS35 | B048: | EIS35 | B048: | EIS35 | EIS36 | EIS36 | EIS36 | Sref: 'https://api.swaggerhub.com/domains/NHHSPROGRAWME/RealCommonBlocks/1.5.1#/components/schemas/B040'
```

Testing Impact

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

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5.1.9 MHHS-DIN-809

Description of change

IF-008 EnergisationStatusChange, common block for R0 and CustomBlocks for B025 block missing required attribute. Swagger update for inclusion of missing attribute in IF-008, please refer to screenshots below for change:

Before update:

```
1642 | IF-008-Payload:
1643 | description: IF008 - Registration Service Change of Energisation Status Notification
1644 | type: object
1645 | additionalProperties:
1646 | false
1647 | required:
1648 | - CommonBlock
1650 | properties:
1651 | CommonBlock:
1652 | description: MHHS Common Block for IF-008
1653 | type: object
1654 | additionalProperties:
1655 | false
1656 | required:
1657 | - S0
1658 | - S1
1659 | - M0
1660 | properties:
```

After update:

Testing Impact

There is no testing impact as these changes relate to SIT functional testing for IR 5 (not yet started)

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5.1.10 MHHS-DIN-810

Description of change

IF-004 common block M0 required attribute is missing. Swagger update for inclusion of missing attribute in IF-004, please refer to screenshots below for change:

Before update:

```
description: IF005 Message
type object
required:
- CommonBlock
- CustomBlock
- CustomB
```

After update:

```
757 IF-004-Payload:
description: IF005 Message
type: object
additionalProperties:
false
required:
- CommonBlock
- CustomBlock
properties:
CommonBlock:
description: MHHS Common Block for IF-004
type: object
additionalProperties:
false
required:
- Se
- si
- M0 # bIN-810
properties:
sa:
description: Sender Header block
type: object
properties:
sa:
interfaceID:
type: string
example: '009'
example: '009'
required:
- '009'
required:
- '009'
required:
- '009'
required:
- 'CommsHubInfo]'
required:
- schemaVersion
- schemaVersion
- converted
```

Testing Impact

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

5.1.11 MHHS-DIN-813

Description of change

IF-015 incorrect required Custom Block. Swagger update for removal of custom block in IF-015, as there is no CustomBlock on IF-015, please refer to screenshots below for change:

Before update:

```
2008
            description: IF-015 Request Historic Consumption Replay (ADV Sites Only)
2009
2010
            type: object
2011
2012
            required:
2013
                CommonBlockCustomBlock
2014
2015
2016
2017
                description: MHHS Common Block for IF-015
2018
                type: object additionalProperties:
2019
2020
2021
                required:
2022
```

After update:

```
# INF 015 - Request Historic Consumption Replay (ADV Sites Only)
2005
      # 25/08/22 - ok
2006
2007
2008
           description: IF-015 Request Historic Consumption Replay (ADV Sites Only)
2009
2010
            type: object
2011
2012
2013
2014
               - CommonBlock
2015
     # DIN-813
                       - CustomBlock
2016
2017
2018
              description: MHHS Common Block for IF-015
```

Testing Impact

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

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5.1.12 MHHS-DIN-814

Description of change

For IF-045 the validation is failing due to the Custom Block. The required property name is 'CustomBlock' but the actual name is 'IF-045-CustomBlock' so Swagger needs to be updated to align to be CustomBlock. Swagger update for incorrect name of custom block in IF-045, please refer to screenshots below for change:

Before update:

After update:

Testing Impact

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

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5.1.13 MHHS-DIN-815

Description of change

DI-838-Supplier-Proposed-Consent-Granularity requires a null value in the enumeration, Swagger update for DI-838 to allow null Enum value, please refer to screenshots below for change:

Before update:

```
2335
2336
              description : Supplier Proposed Domestic Indicator
2337
              type : string
2338
              nullable: true
2339
              maxLength: 1
2340
              example : H
2341
2342
                 - H # HH Consent Granted
2343
                 - D # Daily Reads Only
                  - M # Monthly Reads Only
2344
```

After update:

```
2333
2334
              description : Supplier Proposed Domestic Indicator
              type : string
nullable: true
2335
2336
2337
2338
              example : H
2339
2340
                   - H # HH Consent Granted
2341
                   - D # Daily Reads Only
                   - M # Monthly Reads Only
2342
                   - null # - DIN-815
2343
2344
```

Testing Impact

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

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5.1.14 MHHS-DIN-816

Description of change

IF-001 Custom Block missing "additional properties: false" attribute, Swagger update for inclusion of missing attribute in IF-001, this DIN has multiple changes so please refer to screenshots below for change:

Before update (change 1):

```
| TF-001-InitialRegistration: | description: IF001 Message | type: object | required: | re
```

After update (change 1):

Before update (change 2):

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After update (change 2):

Testing Impact

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

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5.1.15 MHHS-DIN-818

Description of change

IF-014 should contain a B900 block, not a B900 array. This change was made in IR5 for IF-021 but was only applied to IF-014 in IR6. This DIN is to align with IF-021 for IR5 and ensure that B900 used, not an array of B900's. Swagger update to IF-014 to align with IR6 implementation, please refer to the screenshots below for change:

Before update:

After update:

Testing Impact

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

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5.1.16 MHHS-DIN-820

Description of change

IF-041 contains B06465list that uses anyOf when this should be one of either B064 or B065 to align with DES-138. This needs to be updated so that this list contains either a B064 list OR B065 list, not both/either. Swagger update to align IF-041 to DES-138, please refer to screenshots below for change:

Before update:

After update:

Testing Impact

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

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5.1.17 MHHS-DIN-831

Description of change

DI-120 was made non nullable in IR5.1 in Swagger. This needs to be corrected so that DI-120 is used in multiple places and needs to be mandatory nullable. Make DI-120 Additional Information Mandatory nullable in Swagger to align with DES-138. Please refer to the screenshots below for the change:

Before update:

```
861 DI-120-Additional-Information:
862 description: A free format character string for providing additional details.
863 type: string
864 example: This is an example for additional info
865 # DIN 689 remove nullable: true
866 maxLength: 2000
867
```

After update:

```
DI-120-Additional-Information:
861
             description : A free format character string for providing additional details.
862
863
             type : string
864
             example: This is an example for additional info
865
    # DIN 689 remove
                             nullable: true
866 # DIN-831 add nullable: true
                                     :-)
867
868
             maxLength: 2000
```

Testing Impact

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

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5.1.18 MHHS-DIN-834

Description of change

DES-138 Interface Catalogue updated to not repeat B045 for each MQID in IF-014 so that it aligns with IF-021. Please refer to the screenshot below for the change where row 44 in DES-138 is crossed out '>B045 Block below Repeated for each MQID as Required.'

43	DI-016	Connection Type Effective FromDate	The date and time from which the metering point Connection Type is in effect.	LDSO	DT-003	String 25	М	М	
44	>B045 Blo	ock below Repeated	For each MQID as Required						
45	> B045 - N	ИQID							
46	DI-052		Identifies the type of the quantity that is measured by the <i>UTC Period</i> ConsumptionValue.	Data Service		String~2	М	М	

Testing Impact

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

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5.1.19 MHHS-DIN-840

Description of change

DES-138 Interface Catalogue and Swagger updated to include [MeterUpdate] as Optional for B039 in IF-006. Please refer to the screenshots below for the changes.

Before update:

Swagger

DES-138 Interface Catalogue

54	4 B039 - Removed Meter Information (Mandatory for Event Type [MeterRemoval], [MeterExchange]; Optional for Event [MeterHistoryUpdate])							
	DI-053	Meter ID	Serial number of the removed physical	Metering Service	DT-029	String 10		м
55	DI-053	(Removed)	meter.	ivietering service	D1-029	String 10	М	IVI
56	I DI-058	Meter Removal	The date when the meter was removed	Matarina Camina	DT-003N	String 25		
20		Date/time	from a metering point.	Metering Service	D1-003N	String 25	M	0

After update:

Swagger

DES-138 Interface Catalogue

		,	io o o o o o o o o o o o o o o o o o o	1				1	
54	4 8039 - Removed Meter Information (Mandatory for Event Type [MeterRemoval], [MeterExchange]; Optional for Event [MeterHistoryUpdate] & [MeterUpdate])								
E E		Meter ID	Serial number of the removed physical	Metering Service	DT-029	String 10	м		
55	DI-053	(Removed)	meter.	ivietering service	D1-029 String 1	String 10	String 10 IVI	IVI	
E.C	56 DI-058	Meter Removal	The date when the meter was removed	Materine Comice	DT-003N	String 25		0	
56		Date/time	from a metering point	Metering Service	D1-003N	String 25	M	0	

Testing Impact

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

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5.1.20 MHHS-DIN-841

Description of change

The optionality matrix in DES-138 Interface Catalogue shows that LDSOs can additionally receive Event Codes [AddressChg], [GSPChg] and [DUOSTariffIDChg]. The update for this DIN was to add LDSOs to IF-018 secondary routing for these three event codes in DES-138 Interface Catalogue. Please refer to the screenshot below for the change:

Routing Rules	Event Code(s) / Conditions	Always Routing	Primary Routing	Secondary Routing	Correlation ID Created
	[AddressChg]	EES		SUPC, XDSC, XMSC, LDSO	No
	[GSPChg]	MDS, EES		SUPC, XDSC, XMSC, LDSO	No
	[DUOSTariffIDChg]	MDS, EES		SUPC, XDSC, XMSC, LDSO	No
	[DomPremInd]	MDS, EES		SUPC, XDSC, XMSC, LDSO	No
	[EnergyDirection]	MDS, EES		SUPC, XDSC, XMSC, LDSO	No
	[DCCEnrolment]	EES		SUPC	No
	[MUMIndicator]	EES		SUPC, XDSC, XMSC, LDSO	No

Testing Impact

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

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6 Unaffected Artefacts

All the other Interim Release 5 files are unaffected by this Interim Release 5.2 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 5.2 changes in the Swagger/YAML, the DES-138 Interface Catalogue and E2E001 – End-to-End Solution Architecture versions; these 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

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

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