

MHHS Design Release Note Interim Release 5.2 Release Date: 13/12/23



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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

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-820
- MHHS-DIN-831
- 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

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

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

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

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
VIHHS-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
VIHHS-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
WHHS-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	
MHHS-DIN-841	Routing table to include LDSO for IF-018	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-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:

7249 -	IF-043-Payload:
7250	description: IF-043 Registration Service Notification of Change in Connection Type
7251	type: object
7252 -	
7253	
7254 -	
7255	- CommonBlock
7256	- CustomBlock
7257 -	
7258	
7259 ×	CommonBlock:
7299	
7300 -	CustomBlock: # DIN-772
7301	description: IF043 Custom data block
7302	type: object
7303 -	
7304	false
7305 -	required:
7306	- B023
7307 -	properties:
7308 -	B023:
7309	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B023'</pre>

Testing Impact

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:



Testing Impact

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:



After update:



Testing Impact

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:

1654 -	DI-487-Total-Number-Energised-MPANs:
1655	description : The Total number of Energised MPANs by Settlement Period.
1656	type : integer #DIN-410
1657	maxLength : 10
1659	
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
1650	

Testing Impact

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:

597	
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/If
607	- \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/If
608	 - \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/If
609	- \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfaces-EventCodes/1.5.2#/components/schemas/If
C10	the Could be the second when the second s

After update:

	Interface defintions found in interfaces file
599	DTDU-second
600 -	DIPMessage:
601	description: DIP message - multiple payloads mapped into single object
602	type: object
603 -	required: # DIN-784
604	- payload
605 -	properties:
606 -	payload:
607 -	oneOf:
608	 \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfac
609	- \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/Interfac

Testing Impact

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 Tr consumption to individual Settlement Periods.	raditional Meters, to assist with the allocation of gross
type : string minLength : 4	
maxLength : 4	
<pre>#DIN-791 pattern: ^\d{4,4}\$ example : '0123'</pre>	

Testing Impact

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 <u>also</u> 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, <u>e.g.e.g.</u> 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.



Testing Impact

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:
1515	description: IF007 Message for Energisation Status Change
1516	type: object
1517 -	additionalProperties:
1518	false
1519 -	required:
1520	- CommonBlock
1521	- CustomBlock
1522 -	properties:
1523 ·	CommonBlock:
1562	
1563	
1564 -	CustomBlock:
1565	description: IF007 Custom data block EnergisationStatusFailure
1566	type: object
1567 -	additionalProperties:
1568	false
1569 -	properties:
1570 -	B025:
1571	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B025'</pre>
1572	

After update (change 1):



Before update (change 2):



After update (change 2):



Testing Impact

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:

description: IF008 - Registration Service Change of Energisation Status Notification
type: object
additionalProperties:
- CommonBlock
- CustomBlock
properties:
CommonBlock:
description: MHHS Common Block for IF-008
type: object
additionalProperties:
required:
- S0
- 51
- M0
properties:

After update:

1643 -	IF-008-Payload:
1644	description: IF008 - Registration Service Change of Energisation Status Notification
1645	type: object
1646	additionalProperties:
1647	false
1648 -	required:
1649	- CommonBlock
1650	- CustomBlock
1651 -	properties:
1652 -	CommonBlock:
1653	description: MHHS Common Block for IF-008
1654	type: object
1655 -	additionalProperties:
1656	false
1657 -	required:
1658	- 50
1659	- 51
1660	- M0
1661	- RØ #DIN-809
1662 -	properties:
1695	
1696 -	CustomBlock:
1697	description: IF008 Custom data block
1698	type: object
1699 -	additionalProperties:
1700	false
1701 -	required:
1702	- B025 #DIN-809
1703 -	properties:
1704 -	8025:
1705	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B025'</pre>

Testing Impact

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:



After update:



Testing Impact

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 -	
2009	description: IF-015 Request Historic Consumption Replay (ADV Sites Only)
2010	type: object
2011 -	additionalProperties:
2012	false
2013 -	required:
2014	- CommonBlock
2015	- CustomBlock
2016 -	properties:
2017 -	CommonBlock:
2018	description: MHHS Common Block for IF-015
2019	type: object
2020 -	additionalProperties:
2021	false
2022 -	required:
2023	- 50

After update:

2004	
2005 - #	INF 015 - Request Historic Consumption Replay (ADV Sites Only)
2006 - #	25/08/22 - ok
2007	
2008 -	IF-015-Payload:
2009	description: IF-015 Request Historic Consumption Replay (ADV Sites Only)
2010	type: object
2011 -	additionalProperties:
2012	false
2013 -	required:
2014	- CommonBlock
2015 - # D	IN-813 - CustomBlock
2016 -	properties:
2017 -	CommonBlock:
2018	description: MHHS Common Block for IF-015

Testing Impact

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:

7412 -	IF-045-Payload:
7413	description: IF045 Registration Service Reminder Notification
7414	
7415	type: object
7416 -	
7417	
7418 -	
7419	- CommonBlock
7420	- CustomBlock
7421 -	
7422	CommonBlock:
7464	
7465 -	
7466	description: IF045 Custom data block
7467	type: object
7468 -	
7469	
7470 -	
7471 -	
7472	# Registration reminder additonal information
7473	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B060'</pre>
7474	

After update:

7412 -	IF-045-Payload:
7412	
7413	description: IF045 Registration Service Reminder Notification
7415	type: object
7416 -	additionalProperties:
7417	false
7418	required:
7419	- CommonBlock
7420	- CustomBlock
7421 -	properties:
7422	CommonBlock: 💴
7464	
7465 -	CustomBlock: #DIN-B14
7466	description: IF045 Custom data block
7467	type: object
7468 -	additionalProperties:
7469	false
7470 -	properties:
7471 -	8060:
7472	# Registration reminder additonal information
7473	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B060'</pre>
7474	

Testing Impact

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 -	DI-838-Supplier-Proposed-Consent-Granularity:
2336	description : Supplier Proposed Domestic Indicator
2337	type : string
2338	nullable: true
2339	maxLength : 1
2340	example : H
2341 -	enum:
2342	- H # HH Consent Granted
2343	- D # Daily Reads Only
2344	- M # Monthly Reads Only

After update:

2333 -	DI-838-Supplier-Proposed-Consent-Granularity:
2334	description : Supplier Proposed Domestic Indicator
2335	type : string
2336	nullable: true
2337	<pre>maxLength : 1</pre>
2338	example : H
2339 -	enum:
2340	- H # HH Consent Granted
2341	- D # Daily Reads Only
2342	- M # Monthly Reads Only
2343	- null # - DIN-815
2344	
2245	

Testing Impact

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):

DUIDIC	
72 -	IF-001-InitialRegistration:
73	description: IF001 Message
74	type: object
75 -	
76	- CommonBlock
77	- CustomBlock
78 -	
79	
80 -	
81 -	CommonBlock:
121	
122 -	CustomBlock:
123	description: IF001 Custom data block
124	type: object
125 -	properties:
126 - 127	B013: Sref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B013'
127	B002:
128	<pre>spect. \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B002'</pre>
130 - #	B003:
131 -	B004:
132	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B004'</pre>
133 - #	8005:
134 -	8006:
135	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B006'</pre>
136 -	
137	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B022'</pre>
138 -	
139	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B023'</pre>
140	

After update (change 1):



Before update (change 2):

174 -	IF-001-ChangeOfSupplier:
174	description: IF001 Message
176	type: object
177 -	additionalProperties:
177	
178	realse
1/9	CommonBlock
180	- Commonsider - CustomBlock
181	- customatock properties:
182	CommonBlock:
222	
223 -	CustomBlock:
223	description: IF001 Custom data block
224	type: object
225	cype; object properties:
226 -	properties: B013:
227	<pre>sous: \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B013'</pre>
228	B002:
229	<pre>species \$ref: 'https://api.swaggerhub.com/domains/MHHSPR0GRAMME/RealCommonBlocks/1.5.2#/components/schemas/B002'</pre>
230	aref: https://api.swaggerhub.com/domains/mnsexcokame/kearcommonbucks/i.s.z#/components/schemas/beez 8003:
231	<pre>Spef: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B003'</pre>
232	pret: https://api.swaggerhub.com/domains/hmns/kodkamer/kearcommonblocks/i.s.z#/components/stremas/boos
233	<pre>Seef: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B004'</pre>
234	aren: https://api.swaggernub.com/domains/minis/kodkarme/keatcommonsicks/i.s.z#/components/sthemas/boo4 8065:
235	seeds: Sref: 'https://api.swaggerhub.com/domains/MHHSPR0GRAMME/RealCommonBlocks/1.5.2#/components/schemas/B005'
230	arer. https://api.swaggerhub.com/ubmains/whis/kouka/we/keatcommonbiotks/i.s.2#/components/schemas/boos

After update (change 2):

	TE ONE Charge OF ward in the
176	IF-001-changeOfSupplier:
177	description: IF001 Message
178	type: object
179 -	additionalProperties:
180	false
181 -	required:
182	- CommonBlock
183	- CustomBlock
184 -	properties:
185	CommonBlock: ====
224	
225 -	CustomBlock:
226	description: IF001 Custom data block
227	type: object
228 -	additionalProperties: #DIN-816
229	false
230 -	properties:
231 -	8013:
232	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B013'</pre>
233 -	8002:
234	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B002'</pre>
235 -	B003:
236	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B003'</pre>
237 -	B004:
238	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B004'</pre>
239 -	B005:
240	<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.2#/components/schemas/B005' Roos:</pre>

Testing Impact

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

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

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	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:

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 -	# DIN-831 add nullable: true :-)
867	nullable: true
868	maxLength : 2000

Testing Impact

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		IEffective	The date and time from which the metering point Connection Type is in effect.	LDSO	DT-003	String 25	М	М	
44	>8045 Blo	ock below Repeated	for each MQID as Required						
45	> B045 - N	> B045 - MQID							
46	DI-052	IMeasurement	Identifies the type of the quantity that is measured by the UTC Period ConsumptionValue.	Data Service		String~2	М	М	

Testing Impact

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
properties: B906: # required \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B906a'
B030: # optional \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B030'
B905List: # optional type : array
items: #074/075
<pre>\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.1#/components/schemas/B905'</pre>

DES-138 Interface Catalogue

54	B039 - Re	moved Meter Infor	mation (Mandatory for Event Type [Mete	erRemoval], [Meterl	Exchange]; C	ptional for Ev	ent [MeterHist	toryUpdate])
55	DI-053	Meter ID	Serial number of the removed physical	Metering Service	DT-029	String 10	м	м

55	DI-053	(Removed)	meter.	Metering Service	DT-029	String 10	М	М
56	DI-058		The date when the meter was removed	Metering Service	DT-003N	String 25	м	0
		Date/time	from a metering point.					

After update:

Swagger

o naggoi	
<pre>properties: B906: # required \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME /RealCommonBlocks/1.5.2#/components/schemas/B906a'</pre>	
B030: # optional \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME /RealCommonBlocks/1.5.2#/components/schemas/B030'	
B039: # optional DIN-840 addtion \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME /RealCommonBlocks/1.5.2#/components/schemas/B039'	
B905List: # optional type : array items: #074/075 \$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME /RealCommonBlocks/1.5.2#/components/schemas/B905'	

DES-138 Interface Catalogue

54	8039 - Removed Meter Information (Mandatory for Event Type [MeterRemoval], [MeterExchange]; Optional for Event [MeterHistoryUpdate] & [MeterUpdate])								
55	DI-053	Meter ID	Serial number of the removed physical	Metering Service	DT-029	String 10	м	м	
55	DI-055	(Removed)	meter.	wetering service	01-029	String 10	IVI	IVI	
56		Meter Removal	The date when the meter was removed	Motoring Convice	DT 002N	String 25	м	0	
30	DI-058	Date/time	from a metering point.	Metering Service	DT-003N	N String 25	IVI	0	

Testing Impact

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

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

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

Details of previous release please refer to the relevant release note for details:

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