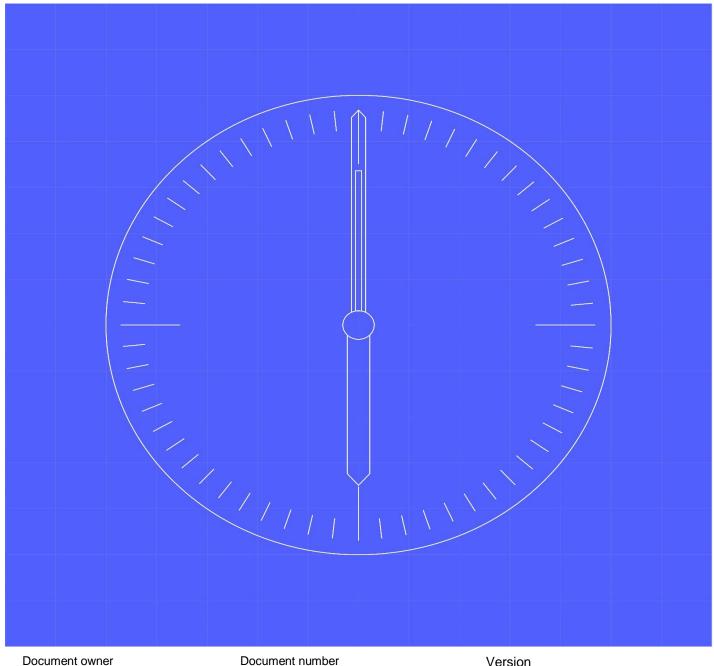


# **MHHS Design Release Note Interim Release 5.5 Release**

Date: 03/04/2024



Document owner

Document number

**Design Team** 

**DEL1275** 

07/02/2024

Status: **Final** 

Date

V1.0

Classification

**Public** 



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## 1.1 Change Record

Date	Author	Version	Change Detail
01/02/2024	MHHS Design Team	0.1	Initial Draft
03/02/2024	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 5.5 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 5.5 is a patch to Interim Release 5.

#### Improvements:

Changes to correct Swagger

Interim Release 5.5 constitutes an updated version of Swagger, which has been uplifted to address found misalignments.

The below DINs delivered the changes in Swagger.

- MHHS-DIN-904
- MHHS-DIN-906
- MHHS-DIN-907
- MHHS-DIN-927
- MHHS-DIN-930
- MHHS-DIN-957
- MHHS-DIN-961

Further guidance on the Release.

#### Versioning:

Interim Releases are NOT a blanket updating of all the design artefacts and models to the next release number. Each Document artefact is separately version controlled and tracked. Interim releases are a collection of updated artefacts which are updated. The version number depends on the last revision of the artefact. Thus, an interim release will publish and consists of documents at different version numbers. Some documents contain multiple models, interfaces, or report definitions which each have a version number. The artefacts' own document version number may contain different objects at different version numbers depending on the changes made to the artefact.

Versions of design artefacts with tracked changes is available on the Red-Lined Design Artefacts page.

Below are the Design Interim Releases and their corresponding Swagger Versions, including the dates of publication and the upliftment of the DIP Simulator to the related Interim Release. Additionally, there is a column to indicate the effective date of each Interim Release during Systems Integration Testing.

Interim Release	Design Interim Release Published	DES138 Version	Swagger Version	SIT Effective from Date	DIP Simulator Uplifted
IR2	05-Jul-23	5.2.1	1.2	30-Oct-23	11-Aug-23
IR2.1	11-Oct-23	5.2.2	1.2.1	30-Oct-23	20-Oct-23
IR2.2	08-Nov-23	5.2.2	1.2.2	08-Nov-23	08-Nov-23
IR2.3	29-Nov-23	5.2.2	1.2.3	20-Dec-23	15-Dec-23
IR3	02-Aug-23	5.3.2	1.3	11-Mar-24	03-Nov-23
IR4	30-Aug-23	5.4.1	1.4	11-Mar-24	03-Nov-23
IR5	04-Oct-23	5.5.2	1.5	11-Mar-24	03-Nov-23
IR5.1	17-Oct-23	5.5.3	1.5.1	11-Mar-24	03-Nov-23
IR5.2	14-Dec-23	5.5.4	1.5.2	11-Mar-24	05-Jan-24

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IR5.3	17-Jan-24	5.5.4	1.5.3	11-Mar-24	26-Jan-24
IR5.4	07-Feb-24	5.5.5	1.5.4	SIT start date for participant	09-Feb-24
IR5.5	03-Apr-24	5.5.6	1.5.5	To be advised by SIT Release Manager	TBC
IR6	01-Nov-23	5.6.1	1.6	10-Jun-24	22-Mar-24
IR7	31-Jan-24	5.7.1	1.7	10-Jun-24	22-Mar-24
IR7.1	06-Mar-24	5.7.2	1.7.1	10-Jun-24	22-Mar-24
IR7.2	03-Apr-24	5.7.3	1.7.2	10-Jun-24	TBC
IR8	03-Apr-24	5.8.1	1.8	02-Sep-24	21-Jun-24

## 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 1.5.5 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 <a href="Design@MHHSprogramme.co.uk">Design@MHHSprogramme.co.uk</a>

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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
MHHSPROGRAMME-DataCatalogue-1.5.5-domain.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.5.5-domain.yaml	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.5-domain.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.5.5-domain.yaml	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.5-domain.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.5.5-domain.yaml	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.5-domain.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.5.5-domain.yaml	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.5-resolved.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.5-resolved.yaml	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.5-swagger.json	V1.5.5	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.5.5-swagger.yaml	V1.5.5	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-904	Missing parameters in webhook callback	Fixed
MHHS-DIN-906	Add MPO Encrypted header parameter to callback	Fixed
MHHS-DIN-907	Response codes on delete operations	Fixed
MHHS-DIN-927	IF-037 mandatory block for [DS MS]DeAppUpdate event codes	Fixed
MHHS-DIN-930	Clarification of response codes that need an associated response body in Swagger	Fixed
MHHS-DIN-957	Update swagger in IF-005	Fixed
MHHS-DIN-961	Update Environment list to reflect those being delivered by Avanade	Fixed

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-904 & MHHS-DIN-906

## Description of change:

Changes align swagger to implementation. Please see below screenshots for change, multiple DIN changes:

#### DIN-904:

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-906:**

Add MPO Encrypted header parameter to callback

## Before change:

```
265
266
       /dip-channel/{id}/pubconfig/{recipient-id}:
267
268
           summary: Configure DIP Channel Publication
           description: Allows a Market Participant to configure the output channel
269
270
           operationId: configurePublication
271
               - DIP Channel Publication Configuration
272
273
           parameters
             - $ref: '#/components/parameters/MessageChannel'
274
275
             - *ref: '#/components/parameters/MessageRecipientId'
               $ref: '#/components/parameters/CommonSignatureHeader'
276
               $ref: '#/components/parameters/CommonSignatureDateHeader'
277
               $ref: '#/components/parameters/CommonSHA256Header
278
               $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
279
280
281
282
283
284
285
                     $ref: '#/components/schemas/WebhookConfig'
286
287
288
           callbacks:
289
             outEvent:
290
                {$request.body#/config.callbackURL}':
291
292
293
294
295
296
297
                              $ref: '#/components/schemas/DIPMessageArray'
298
299
300
                      '201':
301
                       description: Messages Created
302
303
304
                                $ref: '#/components/schemas/StandardResponse'
305
```

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## After change:

```
267
       /dip-channel/{id}/pubconfig/{recipient-id}:
268
269
            summary: Configure DIP Channel Publication
           description: Allows a Market Participant to configure the output channel operationId: configurePublication
270
271
272
                - DIP Channel Publication Configuration
273
274
           parameters
              - $ref: '#/components/parameters/MessageChannel'
275
              - $ref: '#/components/parameters/MessageRecipientId'
276
              - $ref: '#/components/parameters/CommonSignatureHeader'
277
              - $ref: '#/components/parameters/CommonSignatureDateHeader'
278
279
              - $ref: '#/components/parameters/CommonSHA256Header'
280
              - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
281
282
283
284
285
286
287
                      $ref: '#/components/schemas/WebhookConfig'
288
289
            callbacks:
290
291
                 '{$request.body#/config.callbackURL}':
292
293
                      - $ref: '#/components/parameters/CommonSignatureHeader'
294
                      - $ref: '#/components/parameters/CommonSignatureDateHeader'
295
                      - $ref: '#/components/parameters/CommonSHA256Header'
296
                      - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
297
                      - $ref: '#/components/parameters/CommonMPODetails'
298
299
300
301
                      required: true
302
303
304
305
                               $ref: '#/components/schemas/DIPMessageArray'
306
```

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#### 5.1.2 MHHS-DIN-907

## Description of change:

Response codes on delete operations,

Standardise response message for successful delete operations on API calls -204 needs to have the text 'No Content' Need to add other response codes in-line with the other APIs. Please see below screenshots for change:

## **Before Change:**

```
/dip-channel/{id}/pubconfig/{recipient-id}:
267
268
         post:
362
363
364
           summary: Delete existing Publication configuration
365
           description: Delete an exisiting webhook for PUB-001 publication
366
               - DIP Channel Publication Configuration
367
368
           parameters:
375
376
             '204':
377
378
                 description: Publication config deleted
379
                 description: Unauthorised Error
380
201
```

```
515
       /statusmessage/config/{recipient-id}:
         parameters: 📾
516 |
522 +
         post:
564
565
         delete:
566
           summary: Delete existing Status Message configuration
567
           description: Delete an exisiting webhook for Status Messages
568
569
             - Status Messages
570 -
           parameters:
             - $ref: '#/components/parameters/MessageRecipientId'
571
572
             - $ref: '#/components/parameters/CommonSignatureHeader'
573
             - *ref: '#/components/parameters/CommonSignatureDateHeader'
574
             - $ref: '#/components/parameters/CommonSHA256Header'
575
             - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
576
577
           responses:
578
              204':
579
                 description: Publication config deleted
580
581
                 description: Unauthorised Error
582
```

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## After Change:

```
/statusmessage/config/{recipient-id}:
516
          parameters:
          post:
522 •
564
565
566
            summary: Delete existing Status Message configuration
 567
            description: Delete an exisiting webhook for Status Messages
568
569
             - Status Messages
570
             - $ref: '#/components/parameters/MessageRecipientId'
571
572
             - $ref: '#/components/parameters/CommonSignatureHeader'
             - $ref: '#/components/parameters/CommonSignatureDateHeader'
573
             - $ref: '#/components/parameters/CommonSHA256Header'
574
             - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
575
576
577
578
              '204':
                 description: No Content # DIN-907
579
580
581
                 description: Unauthorised Error
582
       /dip-channel/{id}/pubconfig/{recipient-id}:
267
268
         post:
362
363
            summary: Delete existing Publication configuration
364
365
           description: Delete an exisiting webhook for PUB-001 publication
366
                - DIP Channel Publication Configuration
367
368
           parameters:
375
376
           responses:
              '204':
377
378
                 description: No Content # DIN-907
379
380
                 description: Unauthorised Error
381
```

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#### 5.1.3 MHHS-DIN-927

## **Description of change**

IF-037 the B010/B011 blocks are mandatory for the [DS|MS]DeAppUpdate event codes. Please see screenshots below for change:

## **Before Change:**

```
| TENDS PROCEAUPPOINTS
```

## After Change:

```
| Bit | Bit
```

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#### 5.1.4 MHHS-DIN-930

## **Description of change**

The 400 response needs a response body for /dip-channel/{id} API. Please see below screenshots for change:

## **Before Change:**

```
189
190
        /dip-channel/{id}:
           summary: DIP Interface Channels
191
          description: Represents a single DIP messaging channel. Each interface/publication/report is identified by a 'id'
192
193
194
            summary: Submit a series of Interface messages description: Allows a Market Participant to submit a series of messages on a DIP interface
195
196
197
            operationId: sendMessage
198
            - DIP Message Channel parameters:
199
200
206
207
208
            requestBody:
221
222
223
224
               '201':
230
              '207':
237
               '400':
238
                description: Bad Request
239
240
241
                description: Unauthorised Error
```

### After Change:

```
189
190
       /dip-channel/{id}:
         summary: DIP Interface Channels
191
         description: Represents a single DIP messaging channel. Each interface/publication/report is identified by a 'id'
192
193
194
           summary: Submit a series of Interface messages
195
196
           description: Allows a Market Participant to submit a series of messages on a DIP interface
197
           operationId: sendMessage
198
               - DIP Message Channel
199
           parameters:
200
206
207
           requestBody:
208
221
222
224
             '201':
230
             '207':
237
             '400':
238
               description: Bad Request
239
240
241
242
                       $ref: '#/components/schemas/StandardResponse'
243
244
```

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#### 5.1.5 MHHS-DIN-957

## **Description of change**

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

## **Before Change:**

```
1046
1047
            description: IF005 Message for MeterUpdate
1048
            type: object
1049
1050
1051
                - CommonBlock
1052
1053
                - CustomBlock
1054
1055
              CommonBlock:
1095
1096
                description: IF005 Custom data block for MeterUpdate
1097
                type: object
1098
1099
1100
1101
                    - B906
1102
1103
1104
                      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B906'
1105
1106
1107
                      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B030'
1108
1109
                      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B039'
1110
1112
            description: IF005 Message for MeterHistoryUpdate
1114
            type: object
1115
1116
1117
1118
                - CommonBlock
1119
                - CustomBlock
            properties:
CommonBlock:
1120
1121
1161
1162
1163
                description: IF005 Custom data block
                type: object
1165
1166
                required:
- B906
1167
1168
1169
1171
                      $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4#/components/schemas/B906'
1172
                      \textbf{\$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.4\#/components/schemas/B039'} \\
1173
1174
1175
```

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## After Change:

```
F-005-MeterUpdate:
description: IF005 Message for MeterUpdate
type: object
additionalProperties:
1049
1050
1051
 1052
1053
                                                                   - CommonBlock
- CustomBlock
properties:
CommonBlock:
1055
 1056
1057
1097
                                                                                        description: IF005 Custom data block for MeterUpdate type: object additionalProperties:

| false | fal
1098
1099
1100
1101
1101
1102
1103
                                                                                         required:
- B906
properties:
B906:
 1104
1105
1106
                                                                                                        $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.5#/components/schemas/B906a' # DIN-957 B030:
1107
1108
1109
1110
                                                                                                                              \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.5\#/components/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/MHSPROGRAMME/RealCommonBlocks/1.5.5\#/components/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/MHSPROGRAMME/RealCommonBlocks/1.5.5\%/components/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/schemas/box.domains/schemas/B030' \\ \textbf{\$ref:} \ '\texttt{https://api.swaggerhub.com/domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schemas/box.domains/schem
1111
1111
1112
                                                                                                                              $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.5#/components/schemas/B039'
                                                        IF-005-MeterHistoryUpdate:
    description: IF005 Message for MeterHistoryUpdate
    type: object
    additionalProperties:
        | false
1113
1114
1115
1116
1117
                                                                     required:
- CommonBlock
- CustomBlock
1118
1119
1120
1121
                                                                     properties:
CommonBlock:
1122
1162
1163
1164
1165
                                                                                           description: IF005 Custom data block
type: object
additionalProperties:
false
1166
1167
                                                                                           required:
- B906
properties:
B906:
1168
1169
1170
1171
                                                                                                                             $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.5#/components/schemas/B906a' # DIN-957
1173
1174
                                                                                                                                $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.5.5#/components/schemas/B039'
1175
1176
```

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#### 5.1.6 MHHS-DIN-961

## **Description of change**

Add SITB to DT-103-EnvironmentTag Enum. Please see screenshots below for change:

## **Before Change:**

```
DT-013-EnvironmentTag:
277
           description: Environment Tag
278
           type: string
279
           minLength: 3
280
281
           maxLength: 10
282
           enum:
283
             - PROD
284
             - PREPROD
285
             - SIT
286
             - UIT
              - DEV
287
           example: 'DEV'
288
289
```

## After Change:

```
DT-013-EnvironmentTag:
277
           description: Environment Tag
278
           type: string
279
280
           minLength: 3
281
           maxLength: 10
282
           enum:
283
             - PROD
284
              - PREPROD
285
              - SIT
286
              - UIT
287
             - DEV
288
              - SITB # DIN-961
           example: 'DEV'
289
290
```

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## **6 Unaffected Artefacts**

All the other Interim Release 5 files are unaffected by this Interim Release 5.5 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 5.5 changes in the Swagger/YAML, they are not going to be updated retrospectively for any previous Interim Releases.

## 8 Past Releases

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

Release Date	Release type
21/02/2023	Baseline
14/06/2023	Interim Release 1
05/07/2023	Interim Release 2
02/08/2023	Interim Release 3
30/08/2023	Interim Release 4
04/10/2023	Interim Release 5
11/10/2023	Interim Release 2.1
17/10/2023	Interim Release 5.1
01/11/2023	Interim Release 6
11/11/2023	Interim Release 2.2
29/11/2023	Interim Release 2.3
13/12/2023	Interim Release 5.2
17/01/2024	Interim Release 5.3
31/01/2024	Interim Release 7
	21/02/2023 14/06/2023 05/07/2023 02/08/2023 30/08/2023 04/10/2023 11/10/2023 17/10/2023 01/11/2023 29/11/2023 13/12/2023 17/01/2024

<sup>\*</sup> Various version numbering occurs on different documents for each release for details see previous release notes.

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