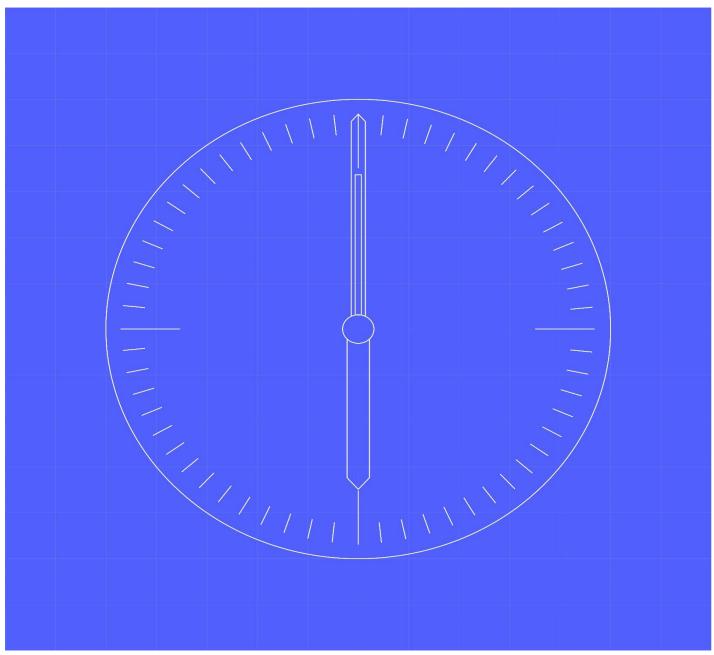


MHHS Design Release Note Interim Release 7.3

Release Date: 08-05-2024



Document owner

Document number

Design Team

DEL1275

Status: **Final**

Date

07/05/2024

Version V1.0

Classification

Public



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1.1 Change Record

Date	Author	Version	Change Detail	
29/04/2024	Design Team	0.1	Initial Draft	
07/05/2024	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 7.3 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 7.3 is a patch to Interim Release 7.

Improvements:

- Changes to correct Swagger
- Changes to align DES138 with swagger

Interim Release 7.3 constitutes an updated version of Swagger, which has been uplifted to address found misalignments.

The below DINs delivered the changes in Swagger and DES138.

- MHHS-DIN-966
- MHHS-DIN-999
- MHHS-DIN-1007
- MHHS-DIN-1012
- MHHS-DIN-1014
- MHHS-DIN-1016
- MHHS-DIN-1030

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

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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	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	19-Apr-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	22-Mar-24
IR7.2	03-Apr-24	5.7.2	1.7.2	10-Jun-24	19-Apr-24
IR7.3	08-May-24	5.7.3	1.7.3	10-Jun-24	17-May-24
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 1.7.1 and 1.7.3 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	V5.7.3	Meter to Bank, Metering Changes, MPAN Ownership	Interface corrections
MHHSPROGRAMME-DataCatalogue-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions

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MHHSPROGRAMME-ResponseCodes-1.7.3-domain.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ResponseCodes-1.7.3-domain.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.3-resolved.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.3-resolved.yaml	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.3-swagger.json	V1.7.3	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.3-swagger.yaml	V1.7.3	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-966	Revision to the PUB-004 Secondary routing logic	Fixed
MHHS-DIN-999	Update routing for [MPANReconnection] and add event to Opt/In Out Matrix	Fixed
MHHS-DIN-1007	Change request body on Validation Endpoints	Fixed
MHHS-DIN-1012	Align webhookresponse on /statusmessage to /dip-channel	Fixed
MHHS-DIN-1014	IF-016-ActivePowerRejected required incorrect	Fixed
MHHS-DIN-1016	REP002 & REP002B require update	Fixed
MHHS-DIN-1030	IF037 DSDeApp CustomBlock requires B002 block	Fixed

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-1007

Description of change: Message Validation Endpoints

The new JSON Message Error Checking End Points are updated so that they can receive an array of messages rather than a single message. In total there are 100+ validation endpoints where messages for all the standard Interface/event code combinations can be tested.

Example:

DIP Mes	ssage Validation Endpoints ^
POST	/validate/IF-001/InitialRegistration
POST	/validate/IF-001/ChangeOfSupplier
POST	/validate/IF-002/GainMPANInfo
POST	/validate/IF-003/ReverseMigNotification
POST	/validate/IF-003/MSDeAppRM
POST	/validate/IF-003/DSDeAppRM
POST	/validate/IF-003/MSDeAppUpdateRM
POST	/validate/IF-003/DSDeAppUpdateRM
POST	/validate/IF-004/CommsHubInfo
POST	/validate/IF-005/MeterInstall
POST	/validate/IF-005/MeterRemoval
POST	/validate/IF-005/MeterUpdate
POST	/validate/IF-005/MeterHistoryUpdate
POST	/validate/IF-006/MeterInstall
POST	/validate/IF-006/MeterRemoval
POST	/validate/IF-006/MeterExchange
POST	/validate/IF-006/MeterUpdate
POST	/validate/IF-006/MeterHistoryUpdate
POST	/validate/IF-007/EnergisationStatusChange
POST	/validate/IF-007/EnergisationStatusFailure

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5.1.2 MHHS-DIN-1012

Description of change:

Align webhook responses on /statusmessage to the same as those on the /dip-channel webhook.

Before change:

```
564
       /statusmessage/config/{recipient-id}:
565
566

    - $ref: '#/components/parameters/MessageRecipientId'

              - $ref: '#/components/parameters/CommonSignatureHeader'
567
              - $ref: '#/components/parameters/CommonSignatureDateHeader'
- $ref: '#/components/parameters/CommonSHA256Header'
568
569
              - $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
570
571
572
            summary: Webhook to pull a series of status messages
            description: Allows a Market Participant to get a series of status messages
573
574
            operationId: postStatusMsgWebhook
575
576
              - Status Messages
577
578
579
580
581
582
                       $ref: '#/components/schemas/WebhookConfig'
583
584
585
              '201':
586
587
                description: Webhook created
588
589
                  description: Unauthorised Error
590
591
592
593
594
595
                 '{$request.body#/callbackURL}':
596
597
                       - $ref: '#/components/parameters/CommonSignatureHeader'
598
                       - $ref: '#/components/parameters/CommonSignatureDateHeader'
599
                       - $ref: '#/components/parameters/CommonSHA256Header
600
                       \hbox{-} \textbf{$ref:} \ '\#/components/parameters/CommonSignatureCertificateHeader'
601
                       - $ref: '#/components/parameters/CommonMPODetails'
602
603
604
605
606
607
608
                                $ref: '#/components/schemas/StandardResponseArray'
609
610
611
                        200":
                         description: OK
612
```

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After change:

```
587
588
589
590
                          - $ref: '#/components/parameters/CommonSignatureHeader'
- $ref: '#/components/parameters/CommonSignatureDateHeader'
- $ref: '#/components/parameters/CommonSHA256Header'
- $ref: '#/components/parameters/CommonSignatureCertifcateHeader'
- $ref: '#/components/parameters/CommonMPODetails'
591
592
593
594
595
596
597
598
599
600
601
                                    $ref: '#/components/schemas/DIPMessageArray'
602
603
604
                           '201':
605
611
                          '207':
612
618
619
                          '400': # no retry
                            description: Bad Request
620
621
                           '401': # no retry
                            description: Unauthorised Error
622
                           '403': # no retry
623
624
                             description: Forbidden
625
                           '404': # no retry
626
                             description: Not found
                           '405': # no retry
628
                             description: Method Not Allowed
629
630
                            description: Not Acceptable
                             description: Request Timeout
                          description: Payload Too Large
'429': # retry
634
635
                            description: Too Many Requests
636
637
638
                            description: Internal Server Error
639
                          '502': # retry
640
641
                            description: Bad Gateway
642
                            description: Service Unavailable
643
644
645
                            description: Gateway Timeout
646
                            description: HTTP Version Not Supported
647
648
649
650
                     description: Publication configured
651
652
653
                     description: Bad Request
654
655
                    description: Unauthorised Error
656
657
                     description: Forbidden
```

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5.1.3 MHHS-DIN-1014

Description of change: Update IF-016 required field from "B900List" to "B900".

Before change:

After change:

```
2363
2364
2365
2366
                               IF-016 replay of IF-014 Rejected - UTC Settlement Period Consumption Data
               type: object
additionalProperties:
false
2368
2368
2369
2370
               required:
- CommonBlock
- CustomBlock
               properties:
CommonBlock:
2371
2422
2423
2424
2425
2426
2427
2428
2429
                    description: Copy of IF014 Custom data block type: object
2430
2431
2432
2433
                            B044
                            B900 # DIN-1014
2434
2435
                         $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B044'
2436
2437
                          $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B067
2438
2439
                            $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/8900'
```

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5.1.4 MHHS-DIN-1016

Description of change: Aligning swagger to the latest changes made to ERI011B, specifically to REP-002 and REP-002B.

Before change - REP-002:

```
REP-002-CustomBlock:

description: REP002 Custom data block - Supplier report for DUOS - aggregated data

type: object

dadditionalProperties:

false
properties:

R807:

# Settlement Run Execution

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'

R002:

# Settlement Run Execution

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'

R009:

# Supplier MPID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R009'

REP002-R027:

# Distributor ID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R009-R027'

8 Fef: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'
```

After change - REP-002:

```
# REP-002 Supplier report for DUOS - aggregated data

REP-002-CustomBlock:
description: REP002 Custom data block - Supplier report for DUOS - aggregated data

type: object
additionalProperties:
false
properties:
R007:
# Settlement Run Execution
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R007'

R002:
# Settlement Run Execution
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'

R009:
# Supplier MPID
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R009'

REP-002-R0027:
# Distributor ID
description: array of Distributor IDS
type: array
items:

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002-R027'
```

Before Change - REP-002B:

```
101  # REP-002B LDSO report for DUOS - aggregated data - new for release 1.5 (9/2023), REP-002 has been split into REP-002 (supplier) and REP-002B (LDSO)

REP-002B-CustomBlock:

description: REP002 Custom data block - LDSO report for DUOS - aggregated data type: object additionalProperties:

false properties:

## DIN-801 added 2 blocks below

R027:

## Distributor ID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R027'

R013:

## GSP Group

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R013'

R0807:

## Settlement Run Execution

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R007'

R002:

## Settlement Run Execution

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'

REP002B-R009:

## Settlement Run Execution

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'

REP002B-R009:

## Supplier MPID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002B-R009'

## Supplier MPID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/REP002B-R009'
```

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After change:

```
REP-002B-CustomBlock:

description: REP002 Custom data block - LDSO report for DUOS - aggregated data
type: object
additionalProperties:
false
properties:
#DIN-801 added 2 blocks below
R027:
#Distributor ID
# pef: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R027'
R013:
# GSP Group
# ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R013'
R037:
# Settlement Run Execution
* fref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R007'
R002:
# Settlement Run Execution
* fref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R007'
R002:
# Settlement Run Execution
* fref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/ECS-CommonBlocks/1.7.2#/components/schemas/R002'
REP002B-R009:
# Supplier MPID
description: array of Suppliers # DIN-1016
type: array
items:

$ false

# Supplier MPID

description: array of Suppliers # DIN-1016
type: array
items:

$ false
# Supplier MPID
# Suppl
```

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5.1.5 MHHS-DIN-1030

Description of change

One of the CR36 changes did not make into swagger: The change to include the B002 block in the IF-037 DSDeApp custom block was missing.

Before:

```
description: IF-037 Service Provider Notification of Appointment for event code DSDeApp type: object
6847
6848
6849
                       - CommonBlock
6850
6852
               properties:
CommonBlock:
6854
6855
6897
6898
6899
                          description: IF037 Custom data block for DSDeApp
6900
                         type: object
6901
6902
6903
                         - B009
properties:
6904
6905
6906
6907
6908
                                 $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B013'
6909
6910
                                # Data Service De-Appointment Details (Mandatory for [DSDeApp])
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommc
6911
6912
6913
6914
6915
                                 # Incoming Data Service Details
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B011'
6916
```

After:

```
n: IF-037 Service Provider Notification of Appointment for event code DSDeApp
              type: object
6848
6849
6850
                     - CommonBlock
                     - CustomBlock
6852
6853
6854
6855
                  CommonBlock:
6897
6898
6899
                       description: IF037 Custom data block for DSDeApp
6900
                       type: object
                       additionalProperties:
6901
6902
6903
6904
                            - B009
6905
6906
                              # CSS Switch ID

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B013'
6907
6908
6909
6910
                              # Data Service De-Appointment Details (Mandatory for [DSDeApp])

$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B009'
6912
6913
6914
                              # Incoming Data Service Details
$ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B011'
6915
6916
6917
                          B002: # Added DIN-1030
# Incoming Metering Service Details
6918
6919
                               $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.2#/components/schemas/B002'
6920
```

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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.

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
5.7.1	06/03/2024	Interim Release 7.1
5.7.2	03/04/2024	Interim Release 7.2
5.5.5	03/04/2024	Interim Release 5.5
5.8	03/04/2024	Interim Release 8

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

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