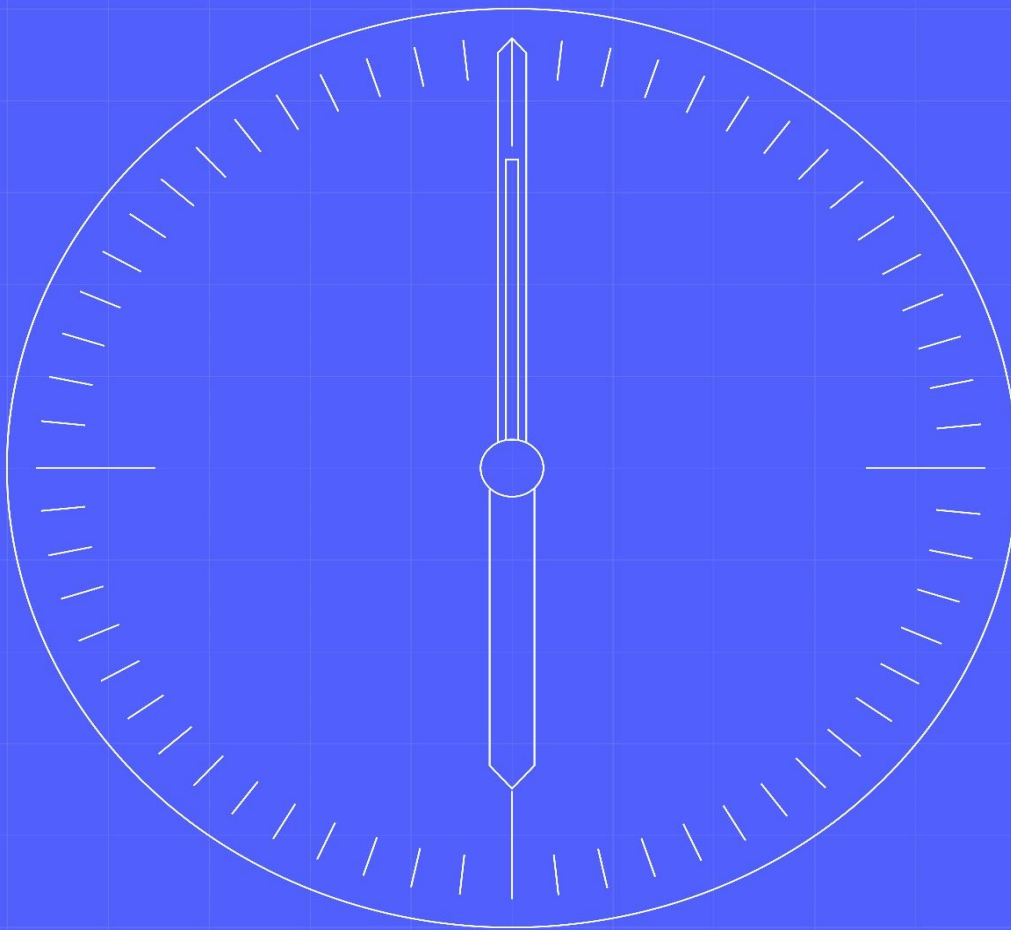




# MHHS Design Release Note

## Interim Release 7.2

### Release Date: 03-04-2024



Document owner

**Design Team**

Status:

**Final**

Document number

**DEL1275**

Date

**03/04/2024**

Version

**V1.0**

Classification

**Public**



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## 1.1 Change Record

Date	Author	Version	Change Detail
27/02/2024	Design Team	0.1	Initial Draft
03/04/2024	Design Team	1.0	Final version

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## 1.2 Reviewers

Reviewer	Role

## 2 INTRODUCTION

These are the release notes for Interim Release 7.2 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 7.2 is a patch to Interim Release 7.

### Improvements:

- Changes to correct Swagger

Interim Release 7.2 constitutes an updated version of Swagger, which has been uplifted to address found misalignments.

The below DINs delivered the changes in Swagger.

- MHHS-DIN-942
- MHHS-DIN-947
- MHHS-DIN-963
- MHHS-DIN-965

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
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

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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

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### Design Models:

Design Models available on the collaboration are also updated in line with the published artefact models within the release.

### JSON/YAML:

The best online tool we recommend verify the extent of the changes is: <https://www.textcompare.org/yaml/>. Comparing the YAML between versions 1.7 and 1.7.2 are clearly shown.

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## 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](mailto: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
MHHSPROGRAMME-DataCatalogue-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataCatalogue-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-DataTypes-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-CommonBlocks-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-ECS-Reports-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-Interfaces-EventCodes-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.2-domain.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-RealCommonBlocks-1.7.2-domain.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.2-resolved.json	V1.7.2	Supporting Documents	Updated Swagger definitions

MHHSPROGRAMME-SubmitEvents-1.7.2-resolved.yaml	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.2-swagger.json	V1.7.2	Supporting Documents	Updated Swagger definitions
MHHSPROGRAMME-SubmitEvents-1.7.2-swagger.yaml	V1.7.2	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-942	Errors in REP-901 in Swagger	Fixed
MHHS-DIN-947	Changes to Swagger to support Implementation of JSON Error Checking End Points	Fixed
MHHS-DIN-963	Update swagger in IF-005 for events codes [MeterUpdate] and [MeterHistoryUpdate]	Fixed
MHHS-DIN-965	Update Environment list to include SITB	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-942

#### Description of change:

Updated to fix errors in REP-901 in Swagger. Blocks R901-07 & R901-08 do not align with the definition in ERI011B s/s. The fields chargeBand, dailyUncorrectedVolumeForChargeBand and totalVolumeChargeForChargeBand need to be removed from R901-07. Please see below screenshots for change:

#### Before change:

```
1435 - R901-07:
1436   description: Tariff Characteristics
1437   type: object
1438   additionalProperties:
1439     false
1440   properties:
1441     DUoSTariffID:
1442       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-345-DUoS-Tariff-ID'
1443     energyDirection:
1444       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-035-Energy-Direction'
1445     domesticPremiseIndicator:
1446       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise-Indicator'
1447     dailyTariffNumberOfMSIDs:
1448       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-603-Daily-Tariff-Number-Of-MSIDs'
1449     dailyTariffMSIDCharge:
1450       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-604-Daily-Tariff-MSID-Charge'
1451     chargeBand:
1452       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1453     dailyUncorrectedVolumeForChargeBand:
1454       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1455     totalVolumeChargeForChargeBand:
1456       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1457 - R901-08:
1458   description: Charge Bandlist
1459   type: array
1460   items:
1461     $ref: '#/components/schemas/R901-08'
1462
1463 - R901-08:
1464   type: object
1465   additionalProperties:
1466     false
1467   properties:
1468     chargeBand:
1469       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1470     dailyUncorrectedVolumeForChargeBand:
1471       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1472     totalVolumeChargeForChargeBand:
1473       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1474
1475
```

#### After change:

```
1436 - R901-07:
1437   description: Tariff Characteristics
1438   type: object
1439   additionalProperties:
1440     false
1441   properties:
1442     DUoSTariffID:
1443       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-345-DUoS-Tariff-ID'
1444     energyDirection:
1445       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-035-Energy-Direction'
1446     domesticPremiseIndicator:
1447       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-030-Domestic-Premise-Indicator'
1448     dailyTariffNumberOfMSIDs:
1449       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-603-Daily-Tariff-Number-Of-MSIDs'
1450     dailyTariffMSIDCharge:
1451       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-604-Daily-Tariff-MSID-Charge'
1452 # DIN-942 chargeBand:
1453 #   $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1454 #   dailyUncorrectedVolumeForChargeBand:
1455 #     $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1456 #     totalVolumeChargeForChargeBand:
1457 #       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1458 - R901-08:
1459   description: Charge Bandlist
1460   type: array
1461   items:
1462     $ref: '#/components/schemas/R901-08'
1463
1464 - R901-08:
1465   type: object
1466   additionalProperties:
1467     false
1468   properties:
1469     chargeBand:
1470       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-605-Charge-Band'
1471     dailyUncorrectedVolumeForChargeBand:
1472       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-606-Daily-Uncorrected-Volume-For-Charge-Band'
1473     totalVolumeChargeForChargeBand:
1474       $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/DataCatalogue/1.7.1#/components/schemas/DI-607-Total-Volume-Charge-For-Charge-Band'
1475
```



---

## 5.1.2 MHHS-DIN-947

### Description of change:

Updates made to fix message validation endpoints. Swagger to be updated to include facility for new JSON Message Error Checking End Points. In total there are 100+ validation endpoints where messages for all the standard Interface/event code combinations can be tested. Please see below screenshots for change:

### Example:

#### DIP Message 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

### 5.1.3 MHHS-DIN-963

#### Description of change:

For IF-005 for events codes [MeterUpdate] and [MeterHistoryUpdate] use B906a block rather than existing B906. 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:

```
1087 IF-005-MeterUpdate:
1088   description: IF005 Message for MeterUpdate
1089   type: object
1090   additionalProperties:
1091     false
1092   required:
1093     - CommonBlock
1094     - CustomBlock
1095   properties:
1096     CommonBlock:
1136
1137     CustomBlock:
1138       description: IF005 Custom data block for MeterUpdate
1139       type: object
1140       additionalProperties:
1141         false
1142       required:
1143         - B906
1144       properties:
1145         B906:
1146           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B906'
1147         B039:
1148           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B039'
1149         B030:
1150           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B030'
1151
1152 IF-005-MeterHistoryUpdate:
1153   description: IF005 Message for MeterHistoryUpdate
1154   type: object
1155   additionalProperties:
1156     false
1157   required:
1158     - CommonBlock
1159     - CustomBlock
1160   properties:
1161     CommonBlock:
1201
1202     CustomBlock:
1203       description: IF005 Custom data block
1204       type: object
1205       additionalProperties:
1206         false
1207       required:
1208         - B906
1209       properties:
1210         B906:
1211           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B906'
1212         B039:
1213           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B039'
1214
```

#### After change:

```
1087 IF-005-MeterUpdate:
1088   description: IF005 Message for MeterUpdate
1089   type: object
1090   additionalProperties:
1091     false
1092   required:
1093     - CommonBlock
1094     - CustomBlock
1095   properties:
1096     CommonBlock:
1136
1137     CustomBlock:
1138       description: IF005 Custom data block for MeterUpdate
1139       type: object
1140       additionalProperties:
1141         false
1142       required:
1143         - B906
1144       properties:
1145         B906:
1146           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B906a' # DIN-963
1147         B039:
1148           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B039'
1149         B030:
1150           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B030'
1151
1152 IF-005-MeterHistoryUpdate:
1153   description: IF005 Message for MeterHistoryUpdate
1154   type: object
1155   additionalProperties:
1156     false
1157   required:
1158     - CommonBlock
1159     - CustomBlock
1160   properties:
1161     CommonBlock:
1201
1202     CustomBlock:
1203       description: IF005 Custom data block
1204       type: object
1205       additionalProperties:
1206         false
1207       required:
1208         - B906
1209       properties:
1210         B906:
1211           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B906a' # DIN-963
1212         B039:
1213           $ref: 'https://api.swaggerhub.com/domains/MHHSPROGRAMME/RealCommonBlocks/1.7.1#/components/schemas/B039'
1214
```

---

#### 5.1.4 MHHS-DIN-965

##### Description of change:

Update Environment list (DT-03-EnvironmentTag) to include the SITB environment. Please see screenshots below for change:

##### Before change:

```
287 ▾ DT-013-EnvironmentTag:
288     description: Environment Tag
289     type: string
290     minLength : 3
291     maxLength : 10
292 ▾     enum:
293         - PROD
294         - PREPROD
295         - SIT
296         - UIT
297         - DEV
298     example: 'DEV'
299
```

##### After change:

```
288 ▾ DT-013-EnvironmentTag:
289     description: Environment Tag
290     type: string
291     minLength : 3
292     maxLength : 10
293 ▾     enum:
294         - PROD
295         - PREPROD
296         - SIT
297         - UIT
298         - DEV
299         - SITB # DIN-965
300     example: 'DEV'
301
```

---

## 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

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