

## DIP CR Final Assessment Report

# DCR0001 'Addition of missing Non-Functional Requirements (NFRs) to the DIP Rules to reflect Market-wide Half Hourly Settlement (MHHS) design'



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### About This Document

You can find the definitions of the terms and acronyms used in this document in the [DIP Glossary](#)<sup>1</sup>.

This document is a Data Integration Platform (DIP) Change Request (CR) Final Assessment Report for DCR0001.

There are four parts to this document:

- This is the main document. It provides a summary of the solution, impacts, anticipated costs, and proposed implementation approach. It also summarises the Workgroup views and the views of respondents to the DIP CR Consultation.
- [Attachment A](#) contains the DIP CR proposal form.
- [Attachment B](#) and [Attachment C](#) contain the proposed redlined changes to deliver the DIP CR solution.
- [Attachment D](#) contains the full responses received to the DIP CR Consultation.

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<sup>1</sup> <https://bscdocs.elxon.co.uk/data-integration-platform/dsd007-dip-glossary>



## Not sure where to start?

We suggest reading the following sections:

- Have 5 minutes? Read section 1
- Have 15 minutes? Read sections 1, and 5
- Have 30 minutes? Read all sections
- Have longer? Read all sections and the annexes and attachments

## Background and Issue

There are many requirements developed as part of the Market-wide Half Hourly Settlement (MHHS) Programme design Artefacts that must be replicated in the DIP Rules. Following an assurance traceability exercise, it was found that five necessary Non-Functional Requirements (NFRs) were not included in the DIP Rules. This DIP CR intends to align the DIP Rules with the MHHS design.

## Solution

The proposed solution is to amend [DSD002 Annex 2 'Detailed DIP Operational Requirements'](#)<sup>2</sup> to include five missing NFRs:

- E2E0210 'Participant Idempotency';
- E2E0402 'Participant Downtime';
- E2E1004 'Message throughput';
- E2E1005 'Message throughput (Secure Active)';
- E2E1010 'Unplanned outages'.

## Impacts and costs

The missing NFRs are relevant to all DIP Users, however no impacts are anticipated. The NFRs being added to the DIP Rules via DCR0001 have already been available to MHHS Programme Participants via the MHHS Design Artefacts and should have already been built to. As such, this DIP CR will not create any new requirements for Programme Participants and there are no associated costs for industry. The only cost will be for the DIP Manager, associated with update of two DIP Subsidiary Documents (DSDs).

Cost Estimates			
Organisation	Implementation (£)	On-going (£)	Impacts
DIP Manager	<1k	N/A	Updates to two DSDs
Industry	N/A	N/A	No new requirements for DIP Users
Total	<1k	0	

## DIP CR Progression

DIP Manager initially recommends an Implementation Date for DCR0001 of 27 February 2025. This would allow for the DIP CR to be implemented in advance of M10, while aligning to the standard industry release timelines.

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<sup>2</sup> <https://bscdocs.ellexon.co.uk/data-integration-platform/dsd002-annex-2-detailed-dip-operational-requirements>

## 2. Background and Issue

### What is the issue?

Earlier this year the MHHS Programme Code design team conducted an assurance traceability exercise of all Code drafting to ensure that the contents of MHHS Design Artefacts had been transposed to individual Codes. The DIP Manager worked alongside the MHHS Programme and together they identified that there were five [MHHS-E2E002 Requirements](#)<sup>3</sup> missing from the DIP Rules. All requirements of the MHHS design should be reflected in the relevant industry Codes by MHHS Milestone eight (M8) 'Code changes delivered'.

### Background

Implementation of MHHS is being delivered through Ofgem's Electricity Settlement Reform SCR, which in 2021 concluded that settling all electricity Consumers on a Half-half hourly basis would bring net benefits. Implementation of the MHHS arrangements will impact several different Industry Codes and their parties.

The MHHS Programme is co-ordinating the changes to existing Industry Codes for implementation on M8. The Industry Code changes have been transferred from the MHHS Design Artefacts.

The DIP Rules were not developed as part of the MHHS Programme Code workstream, as there are many aspects of the DIP Rules that fall outside of the MHS Programme scope, e.g. ongoing governance of the DIP. There are, however, requirements developed under the MHHS Programme as part of MHHS Design that are relevant to the DIP and should be reflected in the DIP Rules. This led to MHHS Programme involvement during the development of the DIP Rules via [Issue 101 'Ongoing Governance, Funding and Operation of the MHHS DIP by BSCCo'](#)<sup>4</sup>.

The DIP Rules were implemented via [P474 'Ongoing governance, funding and operation of the Data Integration Platform \(DIP\)'](#)<sup>5</sup>, an Authority Led SCR Modification. This Modification was already in progress by the time the MHHS Programme traceability exercise had concluded, identifying the missing requirements. It was determined between Ofgem and the DIP Manager that instead of correcting the legal text during the Authority Led SCR Modification process, which would have had limited industry visibility, it would be better to delay adding these NFRs until after the DIP Rules Implementation Date as a separate DIP CR.

### Desired outcomes

This DIP CR intends to align the obligations specified in the DIP Rules to the obligations outlined in the MHHS Design Artefacts.

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<sup>3</sup> <https://www.mhhsprogramme.co.uk/document-search>

<sup>4</sup> <https://www.elexon.co.uk/smg-issue/issue-101/>

<sup>5</sup> <https://www.elexon.co.uk/mod-proposal/p474/>

### 3. Solution

The proposed solution involves amending [DSD002 Annex 2](#) to include five missing NFRs:

- E2E0210 'Participant Idempotency' – in terms of handling duplicate messages, DIP User systems are expected to be idempotent, meaning if a DIP User's systems make an identical API call the effect in the system should be the same as if a single call is made.
- E2E0402 'Participant Downtime' – where a DIP User's system will be unavailable, whether as a result of planned maintenance or otherwise, the DIP Manager must be informed via the DIP Service Desk.
- E2E1004 'Message throughput' – DIP Users' Systems shall have the ability to process messages according to the following volumes, excluding IF-035, IF-036, IF-037 IF-021, PUB-013, PUB-014, PUB-021, REP002, REP002A, REP900 and REP901 where used in Distribution Use of System (DUoS) billing by a Distributor:
  - Average daily volume of 66,000 messages/day;
  - Peak daily volume of 300,000 messages/day;
  - Average hourly volume of 2,750 messages/hour;
  - Peak hourly volume of 35,000 messages/hour; and
  - Annual volume of 24,000,000 messages/year.
- E2E1005 'Message throughput (Secure Active)' – in the case of IF-035, IF-036 or IF-037, DIP User Systems shall have the ability to process messages according to the following volumes, where PC (Portfolio Coefficient) is the same as the Supplier's Funding Share calculated in accordance with [DSD005 'DIP Funding and Budget'](#)<sup>6</sup>):
  - Peak daily volume of 1,143,000\*PC messages/day; and
  - Peak hourly volume of 1,143,000\*PC messages/hour.
- E2E1010 'Unplanned outages' –DIP Users shall not plan routine outages within the Secured Active processing window.

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### Proposer's rationale

Although the DIP Rules have been Implemented, the [DSD001 Annex 1 'DIP Rules Implementation Dates and Transition Arrangements'](#)<sup>7</sup> contains the concept of 'DIP Rules First Compliance Date'. This means that specified portions of the DIP Rules, including [DSD002 Annex 2](#), are not yet in force and DIP Users will not have to comply with them until MHHS Milestone ten (M10) 'Central systems ready for migrating MPANs'. The result of this is that until M10, the Design Artefacts have primacy and are the basis of DIP Users compliance. This solution will align the future obligations in the DIP Rules to those in the MHHS Design.

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### Proposed redlining

Proposed redlining for [DSD002 Annex 2](#) and [DSD007 'DIP Glossary'](#)<sup>8</sup> can be found in Attachment B and C.

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<sup>6</sup> <https://bscdocs.elexon.co.uk/data-integration-platform/dsd005-dip-funding-and-budget>

<sup>7</sup> <https://bscdocs.elexon.co.uk/data-integration-platform/dsd001-annex-1-dip-rules-implementation-dates-and-transition-arrangements>

<sup>8</sup> <https://bscdocs.elexon.co.uk/data-integration-platform/dsd007-dip-glossary>

## 4. Impacts and Costs

### DIP User impacts

The missing NFRs are relevant to all DIP Users, however there will be no actual impact. This DIP CR is replicating requirements that have already been available to MHHS Programme Participants via the MHHS Design Artefacts and those specifications should have already been built to. As such, this DIP CR will not create a new requirement on Programme Participants, and it is expected that Programme Participants will demonstrate compliance with these NFRs prior to the end of the MHHS Qualification process.

### DIP impacts

This DIP CR will amend [DSD002 Annex 2](#) and [DSD007](#) only. There are no anticipated impacts to the DIP system or DIP arrangements.

Impact on DIP Rules	
DIP Document	Impact
<a href="#">DSD002 A2 'Detailed DIP Operational Requirements'</a>	Amended to include the five missing NFRs
<a href="#">DSD007 'DIP Glossary'</a>	Amended to include definition of Secured Active

### DIP Manager impacts

There are no anticipated impacts to the DIP Manager.

### Industry Code impacts

There are no anticipated impacts to other Industry Codes or any changes to Industry Codes that are in progress.

### DIP CR Cost estimation

As the NFRs being added in DCR0001 have been available to MHHS Programme Participants via the MHHS Design Artefacts, and should have already been built to, there are no expected costs to industry. The only cost will be for the DIP Manager, associated with the DSD updates.

Cost Estimates			
Organisation	Implementation (£)	On-going (£)	Impacts
DIP Manager	<1k	N/A	Updates to two DSDs
Industry	N/A	N/A	No new requirements for DIP Users
Total	<1k	0	

## Applicable DIP Objectives

The DIP Manager believes that this DIP CR will have the following impacts on the Applicable DIP Objectives:

Impacts to Applicable DIP Objectives		
Applicable DIP Objective	Impact	Rationale
(a) Provide accurate and timely support for the sharing of applicable market data.	Positive	Ensuring the DIP Rules are accurate ensures they support sharing of applicable market data in a timely manner by ensuring all DIP users are operating to the same specification.
(b) Further consumer interests through the appropriately governed sharing of data.	Positive	Adding these NFRs will ensure that the governance around the sharing of data (the DIP Rules) is appropriate.
(c) Facilitate competitive change and innovation through the efficient and economic delivery of reliable and adaptable services.	Neutral	No particular impact on this objective – this DIP CR is not changing anything with the DIP ecosystem, just reflecting the MHHS Design Artefacts.

Change Tier

The DIP Manager believes that DCR0001 has no material impact and should therefore be considered a Tier Two DIP CR.

The criteria for a DIP CR to be considered as material, and therefore a Tier One DIP CR, includes:

- an implementation cost greater than £500,000 for the DIP Manager and/or £250,000 for DIP Users
- placing new obligations on DIP Users and/or the DIP Manager that will require a change to the DIP User's business operating model
- an Implementation Date more than 24 months after the date on which the decision is made.

Progression Timeline

This DIP CR must be implemented prior to M10. There is benefit to the DIP Rules being correct and aligned to the MHHS Design Artefacts as soon as possible, but the amendment is not urgently required. As such, the proposed timeline involves allowing sufficient time for industry consideration and consultation, particularly as the process is new and considering the likelihood of for annual leave in December.

Progression Timetable	
Event	Date
Initial Assessment published	19 November 2024
Industry Consultation (15 WD)	25 November 2024 – 12 December 2024
Final Assessment published	13 January 2024
Decision published	20 January 2025
Proposed Implementation Date	27 February 2025 (Standard February 2025 Release)

Implementation

DIP Manager initially recommends an Implementation Date for DCR0001 of 27 February 2025.

This would allow for the DIP CR to be implemented in advance of M10, while aligning to the standard industry releases. As there are no system impacts from this DIP CR, it would be possible to implement sooner outside of the standard industry releases, if that would be beneficial.

6. Industry Views

The DCR0001 Consultation was issued on 25 November 2024, with responses invited initially by 12 December 2024 but extended to 20 December 2024 following concerns raised that the consultation had not been seen by all relevant parties.

This section summarises the responses received to the DIP CR Consultation. You can find the full responses in Attachment D.

Six responses were received, from four distributors, one Code Body, and NESO.

Summary of DCR0001 DIP CR Consultation Responses				
Question	Yes	No	Neutral/No Comment	Other
Do you agree with the proposed solution?	2	3	1	0
Do you agree that the draft redlining delivers the intent of this DIP CR?	0	5	1	0
Will this DIP CR impact your organisation?	2	3	0	1
Will your organisation incur any costs in implementing this DIP CR?	1	4	0	1
Do you agree with the proposed implementation approach?	2	3	0	1
Do you have any further comments on this DIP CR?	3	3	0	0

The majority of respondents did not agree with the proposed solution, the draft redlining, and the implementation approach, due to the change not including the amendments required by MHHS Programme CR054 ‘Change to Non-Functional Requirements for LDSOs’. The intention was for the consequential changes from CR054 to be progressed as a separate DIP CR, which will be raised in January 2025. In response to the consultation comments the redlining for DCR0001 has been updated to reflect CR054 for the five missing NFRs, but the rest of the changes for CR054 will still be progressed under a separate DIP CR.

Another major concern was that the profile coefficient used within the requirements was incorrectly stated to be the same as the DIP User’s Supplier’s Funding Share (FSS), which would apply only to Suppliers. The wording has been updated to reflect an equivalent that can apply to any DIP Users to which the profile coefficient may apply.

One respondent felt that the DIP Change and Advisory Board (DCAB) should be updated on the progress of DCR0001 ahead of the DIP Manager decision. While we do believe that the DCAB has an important role within the change process, there is no requirement for the DCAB to be presented a Tier Two DIP CR before a DIP Manager decision. The DCAB will receive a full update on all DIP CRs at each DCAB Meeting and will be able to question any DIP Manager decisions and will adjudicate any appeals raised.

Comments on the proposed redlining

The table below summarises the comments received and any amendments made to the redlining.



## Comments on the DCR0001 Proposed Redlining

Document & Location	Comment	Elaxon's Response
DSD002 Annex 2 8.13.1	This paragraph states that the DIP Manager will inform DIP Users of outages “if required” but it is not clear what the criteria would be used to decide when notification is necessary.	As per the example given in 8.13.1, the intention was that the DIP Manager will inform DIP Users of an outage where it will impact their ability to meet obligations. The text has been amended to clarify that the DIP Manager will inform other DIP Users of such outages if an outage means that DIP Users may not be able to deliver or receive messages within the time frames required of them.
DSD002 Annex 2 8.13.2	The term ‘secured active processing window’ has not been added as a defined term and therefore it is not clear what this refers to.	The Secured Active processing window is the period in which a Registrant is processing Secured Active messages in accordance with BSCP706 ‘Supplier Meter Registration Service for MHHS Metering Systems’. The text has been amended to clarify this and a definition added to <a href="#">DSD007</a> .
DSD002 Annex 2 8.13.2	The inclusion of ‘Where applicable’ at the start of this clause has not been clarified. Further information should be provided on when this requirement is applicable or the reference removed.	This is applicable to those DIP Users to whom Secured Active Messages apply, but the phrase has been removed.
DSD002 Annex 2 9.8.1	This paragraph does not include the specific exclusions described in the MHHS Design. E2E1004 Column K excludes various IF and PUB messages and also requires a Profile Co-efficient to be applied.	The subsequent paragraphs address the exclusions, thought 9.8.4 has been amended to include the additional PUB messages that should be excluded.
DSD002 Annex 2 9.8.2	This paragraph does not reflect the latest values as per approved MHHS Programme CR054 and the annual volume of messages should be removed.	The intention was for this DCR0001 to simply add in the missing NFRs, with a separate DIP CR raised to align with CR054. The new paragraphs added in

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		DCR0001 have been updated to reflect CR054, but the rest of the changes required for CR054 will still be made via a separate DIP CR. This consequential change will be raised shortly
DSD002 Annex 2 9.8.3	This paragraph states that the Profile Coefficient shall be the same as the DIP User's Supplier's Funding Share. This does not work for DIP Users that are not Suppliers.	The profile coefficient definition has been updated to be the percentage of the total number of MPANs associated with that DIP User.

## 7. Recommendations

The DIP Manager decision panel is invited to:

- **AGREE** that DCR0001:
  - DOES better facilitate DIP Applicable Objective (a); and
  - DOES better facilitate DIP Applicable Objective (b);
- **APPROVE** DCR0001;
- **APPROVE** an Implementation Date of 27 February 2025;
- **APPROVE** the proposed DSD amendments; and
- **APPROVE** the DCR0001 Final Assessment Report.