

## DIP CR Consultation

# 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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### How to return your response

Please send responses, entitled 'DCR0001 Consultation', to [DIPManager@elexon.co.uk](mailto:DIPManager@elexon.co.uk) by 5pm on **Friday 12 December 2024**.

### About This Document

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

The purpose of this Data Integration Platform (DIP) Change Request (CR) Consultation is to invite DIP Users and other interested parties to provide their views on the impacts and the merits of DCR0001. The DIP Manager will then consider the consultation responses before making a decision on whether or not to approve 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.
- [Attachment A](#)<sup>2</sup> contains the DIP CR proposal form.
- [Attachment B](#)<sup>3</sup> contains the proposed redlined changes to deliver the DIP CR solution.
- [Attachment C](#)<sup>4</sup> contains the specific questions on which we seek your views. Please use this form to provide your response to these questions, and to record any further views or comments you wish to be considered.

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

<sup>2</sup> <https://elexon.sharepoint.com/:b:/s/DataIntegrationPlatformDIP/Eb-IYs2X-wdLosmwLj1WA7MB4EqxeUE9mO330bACUGr20w?e=oa3PtM>

<sup>3</sup> <https://elexon.sharepoint.com/:w:/s/DataIntegrationPlatformDIP/EebHVZTcJzZAifOHpTLQ7QoBvo9mPrqxF2h8dPNTxx6s5A?e=0azrao>

<sup>4</sup> <https://elexon.sharepoint.com/:w:/s/DataIntegrationPlatformDIP/EdbSY9jf9WZNs8e71nmJHZABr8iM1KzIbf0N6OAI8KMjg?e=BIeYRB>

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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>5</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 one DSD document.

Cost Estimates			
Organisation	Implementation (£)	On-going (£)	Impacts
DIP Manager	<1k	N/A	Updates to one DSD
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.

<sup>5</sup> <https://bscdocs.elexon.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>6</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>7</sup>.

The DIP Rules were implemented via [P474 'Ongoing governance, funding and operation of the Data Integration Platform \(DIP\)'](#)<sup>8</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>6</sup> <https://www.mhhsprogramme.co.uk/document-search>

<sup>7</sup> <https://www.elexon.co.uk/smg-issue/issue-101/>

<sup>8</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 and IF-021:
  - 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>9</sup>):
  - Peak daily volume of 2,100,000\*PC messages/day;
  - Peak hourly volume of 2,100,000\*PC messages/hour; and
  - Annual volume of 110,000,000\*PC messages/year.
- E2E1010 'Unplanned outages' – where applicable, DIP Users shall not plan for 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>10</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 can be found in Attachment B.

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<sup>9</sup> <https://bscdocs.elexon.co.uk/data-integration-platform/dsd005-dip-funding-and-budget>

<sup>10</sup> <https://bscdocs.elexon.co.uk/data-integration-platform/dsd001-annex-1-dip-rules-implementation-dates-and-transition-arrangements>

#### DIP CR Consultation Question

Do you agree with the proposed solution?

*Please provide your rationale.*

Do you agree that the draft redlining delivers the proposed solution?

*If 'No', please provide your rationale.*

We invite you to give your views using the response form in Attachment C

## 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 only. There are no anticipated impacts to the DIP system or DIP arrangements.

Impact on DIP Rules	
DIP Document	Impact
DSD002 A2 'Detailed DIP Operational Requirements'	Amended to include the five missing NFRs

### 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 update.

Cost Estimates			
Organisation	Implementation (£)	On-going (£)	Impacts
DIP Manager	<1k	N/A	Updates to one DSD
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.

DIP CR Consultation Question
Will this DIP CR impact your organisation? <i>If 'Yes', please provide a description of the impact(s) on your organisation and any activities which you will need to undertake between the approval of this DIP CR and the Implementation Date (including any necessary changes to your systems, documents and processes). Where applicable, please state which of the roles that you operate as will be impacted and any differences in the impacts between each role.</i>
Will your organisation incur any costs in implementing this DIP CR? <i>If 'Yes', please provide details of these costs, how they arise and whether they are one-off or on-going costs.</i>
We invite you to give your views using the response form in Attachment C



DIP CR Materiality Criteria?

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.

Change Tier

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

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	30 December 2024
Decision published	6 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.

DIP CR Consultation Question
Do you agree with the proposed implementation approach for this DIP CR? <i>Please provide your rationale.</i>
We invite you to give your views using the response form in Attachment C