



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

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# Defect 43971 – DUoS Tariff ID

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20 January 2025

V1.4

MHHS-DEL3400

# Problem Statement

## Problem Statement

The REP-002a/b is failing to be loaded by SSEN\*, via Durabill, as it contains duplicate DUoS Tariff IDs which are based on combinations of (DUoS Tariff ID/DUoS Tariff Energy Direction/DUoS Tariff Domestic Premise Indicator).

Durabill, used by all DNOs, expects a single DUoS Tariff ID within the REP-002a/b. When this error occurs within a file the whole file is rejected and DUoS Billing cannot proceed against any record within that file.

This means that no REP-901s can be produced as they use this data and therefore Suppliers cannot be billed for DUoS.

**There is no “do nothing” option.**

The programme recognises this issue introduces significant risk to DNO activities. If duplicate DUoS Tariff IDs are reported in REP-002a/b the file will not be ingested, and billing will not be possible.

\* BUUK and a number of other IDNOs are not affected as the C&C DUBS solution loads the REP-002a/b. There are participants outside of SIT that do not use Durabill or DUBS that may be impacted.

# REP-002a/b Design and Build

ERI011b stipulates the R010 is populated based on Registration Service data.

It is noted that this may not have been the original intent as per Working Groups. However, this is what has been documented in the baselined design. Some participants have therefore built against what has been documented in ERI011b, whereas some have built against the original intent.

>> R010 - Tariff Characteristics (Repeated for each combination of Values) parent is R010					
DI-345	DUoS Tariff Id	Reference to identify the DUoS Tariff assigned to an MPAN.	Registration Service	/a	String 3
DI-485	DUoS Tariff Energy Direction	A flag that indicates if the DUoS Tariff is for import or export.	Registration Service	/a	String 1
DI-486	DUoS Tariff Domestic Premise Indicator	A flag that indicates if the DUoS Tariff is for domestic premises.	Registration Service	/a	BOOLEAN
>>> R012 - Embedded Consumption data by Settlement Period (Repeated for each Settlement Period) parent is R010					
DI-496	Settlement Period	The reference number for a Settlement Period, unique within Settlement Date. Settlement Period reference numbers are assigned sequentially to each period in the local time day.	BSC	n/a	INT(3)
DI-081	Settlement Period Duration	The settlement period duration in minutes.	BSC	n/a	INT(2)
DI-491	Embedded Total Uncorrected Volume	The Total embedded energy, before GSP Group Correction, summed for a Embedded Network, within a GSP Group, split by Tariff Characteristics, and Settlement Period.		DT-022	String 17(±9.6)
DI-487	Total Number Energised MPANs	The Total number of Energised MPANs by Settlement Period.		n/a	INT(10)
DI-488	Total Number De-Energised MPANs	The Total number of De-Energised MPANs by Settlement Period.		n/a	INT(10)
>>> R0105 - Daily volumes on Actuals or Estimates - parent is R010					
DI-489	Daily total volume based on Actual Data	The Daily total volume of MPANs with 'A' flagged Settlement Period Consumption		DT-022	String 17(±9.6)
DI-490	Daily total volume based on Estimated Data	The Daily total Consumption Volume of MPANs not with 'A' flagged Settlement Period Consumption		DT-022	String 17(±9.6)

### Related assumption

During Transition there will be a 1-2-1 mapping of LLFCs to DUoS Tariff IDs. DNO/IDNOs will create LLFCs and DUoS Tariffs to replace existing LLFCs that are used for Domestic and Non-Domestic. New DUoS Tariff ID's can be added via a mid-year submission to Elexon.

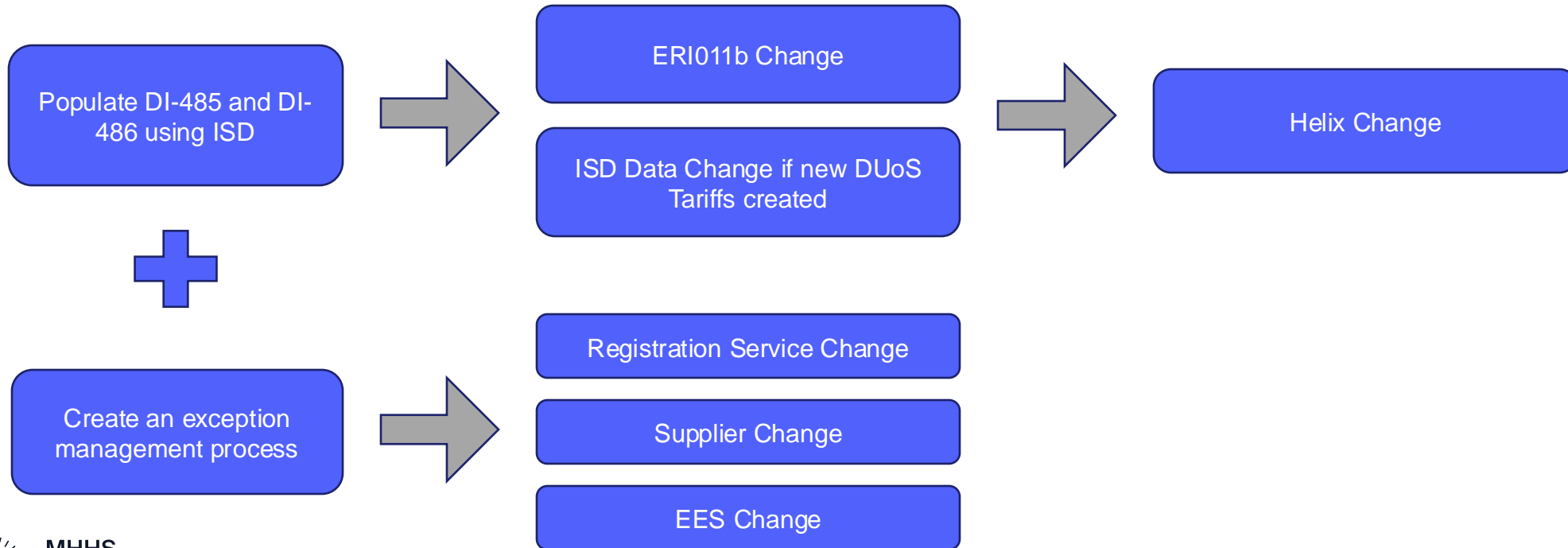
# Detailed Option Analysis

# Option 1 – Populate REP-002, REP-002a/b using ISD Data

DUoS Tariff Domestic Premises Indicator (DI-486) and DUoS Tariff Energy Direction (DI-485) to be populated in the REPs as per Data held within ISD for the DUoS Tariff. DI-485 and DI-486 will reflect generic values set within ISD, so will no longer be MPAN specific.

>> R010 - Tariff Characteristics (Repeated for each combination of Values)  
parent is R006

DI-345	DUoS Tariff Id	Registration Service
DI-485	DUoS Tariff Energy Direction	<del>Registration Service</del> ISD
DI-486	DUoS Tariff Domestic Premise Indicator	<del>Registration Service</del> ISD



## Option 1 – Pros and Cons

Aligns to the original intent as per discussions in the Working Groups

No system change for LSDOs

DIN-1131 would no longer be required if DUoS Tariffs are created - this would require a ISD Data update

Prevents Parties from having to look up data within ISD

Potentially no system change for Supplier DUoS Billing Validation Tools (e.g SONET)

Domestic Premise Indicator value interpretation changes. Previously provided an MPAN view. This will now reflect generic DUoS value from ISD set – which will not be MPAN specific

Suppliers will no longer get an accurate picture of Domestic/Non-Domestic data

Robust process required for LSDOs to manage changes in Domestic Premises Indicator and creation of LLFCs and DUoS Tariffs to replace existing LLFCs that are used for Domestic and Non-Domestic

ISD and MPAN validation rules related to valid combinations of DUoS Tariffs and Domestic Premises

Helix development times

Impacts all accuracy testing to date as Helix will need to change how they aggregate the reports

## Option 2 – Remove additional Tariff Characteristics within R010

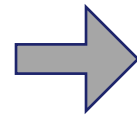
DUoS Tariff Domestic Premises Indicator (DI-486) and DUoS Tariff Energy Direction (DI-485) to be removed from the REPs.

>> R010 - Tariff Characteristics (Repeated for each combination of Values)  
parent is R006

DI-345	DUoS Tariff Id	Registration Service
<del>DI-485</del>	<del>DUoS Tariff Energy Direction</del>	<del>Registration Service</del>
<del>DI-486</del>	<del>DUoS Tariff Domestic Premise Indicator</del>	<del>Registration Service</del>

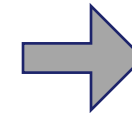
Update Block R010 (REP-002, REP-002a/b, and REP-901)  
Remove:

- DUoS Tariff Energy Direction, and
- DUoS Tariff Domestic Premises Indicator



Swagger Change

ERI011b Change



LDSO Change (all IDNO and DNOs)

Helix Change

Supplier DUoS Billing Validation Tools (e.g SONET)



## Option 2 – Pros and Cons

Supports Durabill build logic - DUoS Tariff ID would not be linked to DUoS Tariff Domestic Premises Indicator within the REPs

DIN-1131 would no longer be required if DUoS Tariffs are created - this would require a ISD Data update

REPs would not be reporting superfluous reference data which can be sourced from ISD

Domestic Premise Indicator value interpretation changes. Previously provided an MPAN view. This will now reflect generic DUoS value from ISD set – which will not be MPAN specific

Impacts all accuracy testing to date as Helix will need to change how they aggregate the reports

There is a significant change across all parties. Aggregation, validation and interfaces across multiple central services will need to change

Robust process required for LSDOs to manage changes in Domestic Premises Indicator and creation of LLFCs and DUoS Tariffs to replace existing LLFCs that are used for Domestic and Non-Domestic

ISD and MPAN validation rules related to valid combinations of DUoS Tariffs and Domestic Premises

Consequential Change - Supplier DUoS Billing Validation Tools (e.g SONET)

Suppliers would need to use ISD to cross reference data the REPs

Helix, Supplier and LDSO development times

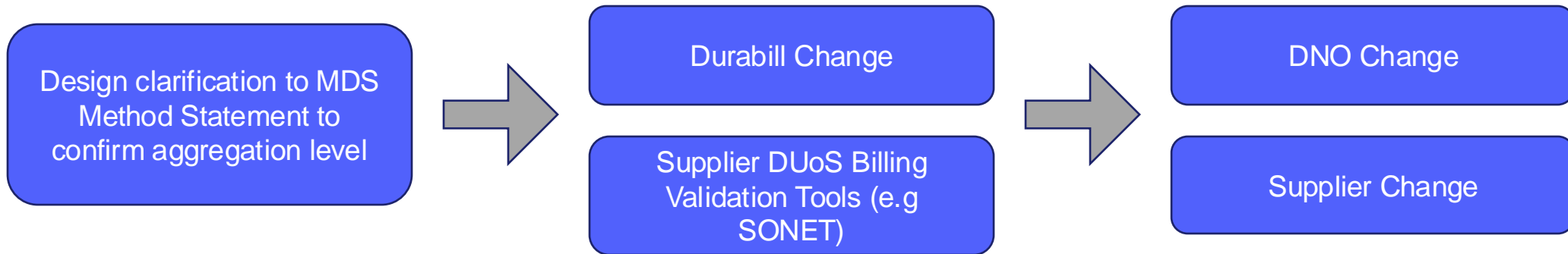
Suppliers will no longer get an accurate picture of Domestic/Non-Domestic data

## Option 3 – Alignment to ERI011b

R010 block to continue to be populated using MPAN level data. Where duplicate DUoS TariffID groups are identified then exception mgt process kicks in to process these in the same way as the first set of data processed. This may mean re-aggregating or additional processing, but the scenario of receiving multiple DUoS TariffID groups within a REP-002A / REP-002B file needs to be managed so that the REPs are still processed successfully.

>> R010 - Tariff Characteristics (Repeated for each combination of Values)  
parent is R006

DI-345	DUoS Tariff Id	Registration Service
DI-485	DUoS Tariff Energy Direction	Registration Service
DI-486	DUoS Tariff Domestic Premise Indicator	Registration Service



## Option 3 – Pros and Cons

Maintains aggregation at MPAN level

No Swagger change required

SIT Exit Criteria can be met by successful BUUK testing

No change to current validation exception management rules

Inconsistencies between Domestic Premise Indicator and DUoS Tariff ID combinations within ISD and at MPAN level will not cause settlement process exceptions

Helix accuracy testing is not invalidated

Alignment to Helix, IDNO and Supplier builds being use for SIT testing

DNOs will be required to make a Durabill change and pass qualification testing

SCS development times

Does not align with the original intent as per discussions in the Working Groups

Consequential Change - Supplier DUoS Billing Validation Tools (e.g SONET)

# Thank you