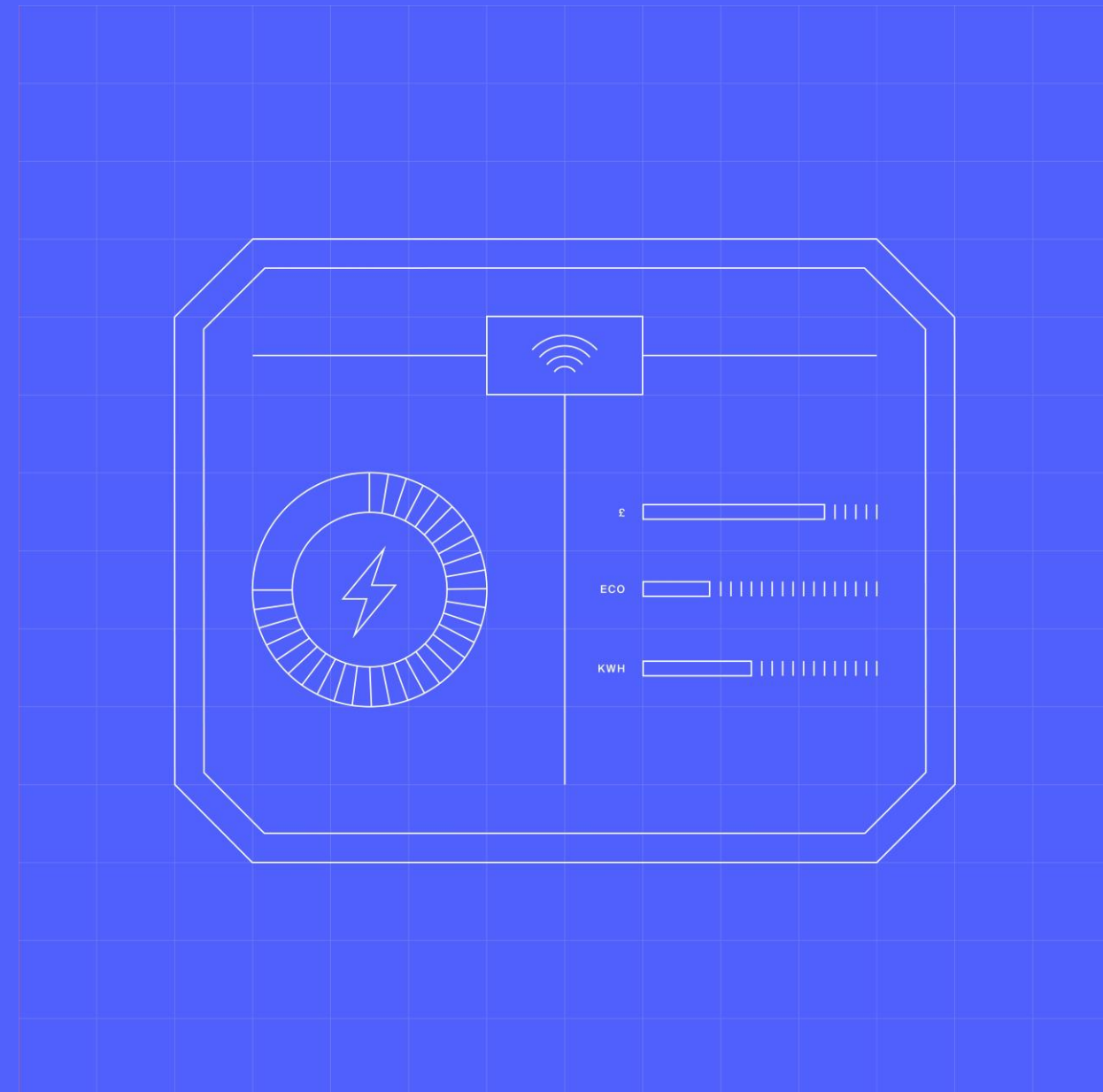


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# Linked and Related MPANs

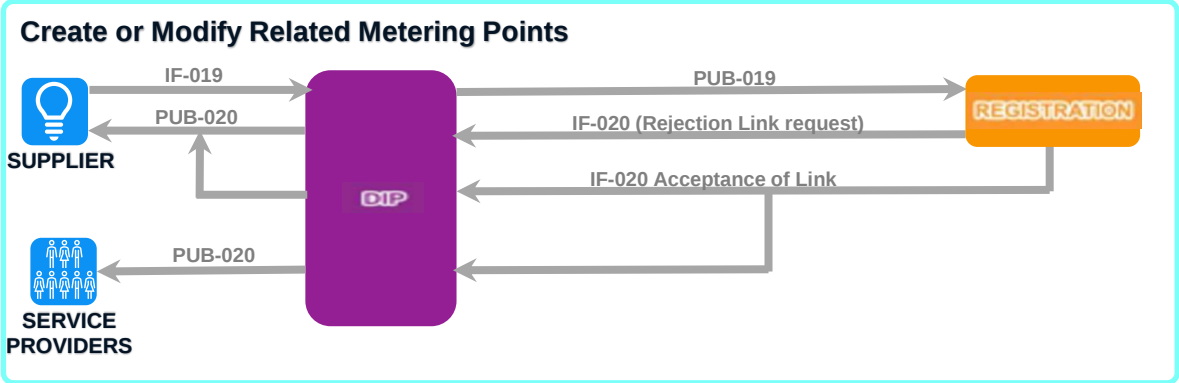
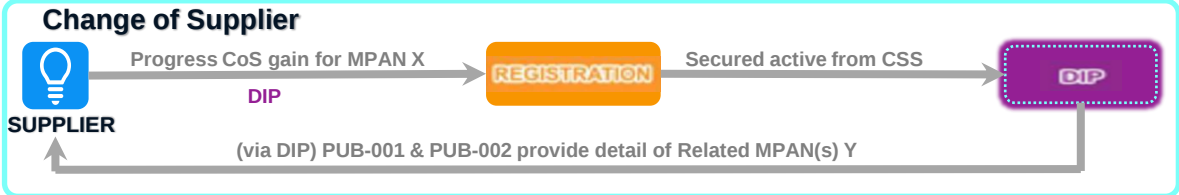
# Contents

- Overview for Related and Linked MPANs
- Approach to appointing Service Providers
- Guidance on when to Link MPANs
- Interface variant breakdown
- Migration Design commentary
- Additional call outs





MPAN X is the Primary (Principle) MPAN – registration activity will automatically associate related MPAN(s) Y

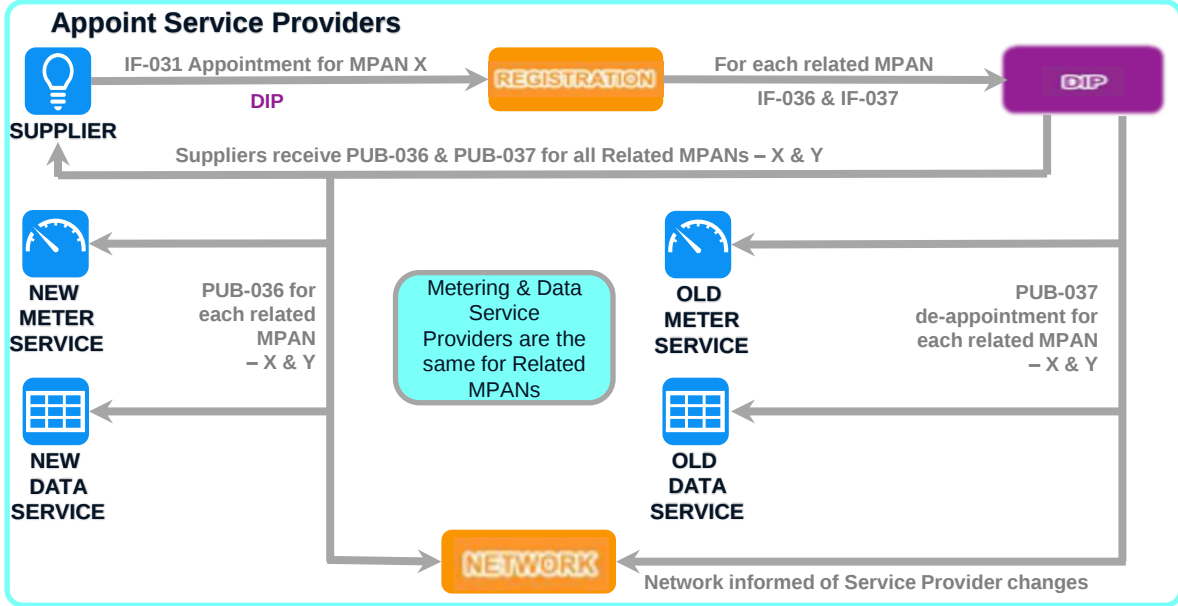
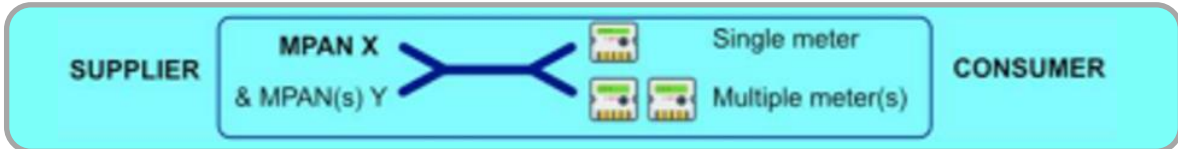


**REC Schedule 28 ‘Related Metering Points’**

Documents the procedures for Electricity Suppliers to create, maintain and end the relationship between two or more Related Metering Points. Related Metering Point relationships are maintained by Electricity Suppliers and notified to SMRS using DIP Interfaces, which is then mastered in the ERDS and notified to Central Switching Service (CSS).

An Electricity Supplier can create a Related Metering Point relationship between two or more *Import Metering Points* (i.e. not Export Metering Points) for which it is the Registered Supplier where:

- (i) all the Metering Points supply electricity to the same Consumer at the same Location (or at any part of the same Location);
- (ii) the Meter Point Location Address and the Retail Energy Location Address are the same for each Metering Point; and
- (iii) the appropriate Distribution Use of System Charge (DUoS) tariff, as set out within the DCUSA, is applicable following creation of the Related Metering Point relationship.



Accepting appointment for MPAN X results in acceptance for related MPAN(s) Y

Interface Guidance - Related

| DIP Interface |                                                  | Primary MPAN             | Secondary MPAN(s)        |
|---------------|--------------------------------------------------|--------------------------|--------------------------|
| IF-001        | Notification of Change of Supplier               | Registration Service →   | Registration Service →   |
|               |                                                  | →Incoming Supplier       | →Incoming Supplier       |
|               |                                                  | →Marketwide Data Service | →Marketwide Data Service |
|               |                                                  | →LDSO                    | →LDSO                    |
| IF-002        | Notification to New Supplier of Site Information | Registration Service →   | Registration Service →   |
|               |                                                  | →Incoming Supplier       | →Incoming Supplier       |
| IF-019        | Manage Meterpoint Relationships                  | Supplier →               |                          |
|               |                                                  | →Registration Service    |                          |
| IF-020        | Manage Meterpoint Relationships Response         | Registration Service →   |                          |
|               |                                                  | →Supplier                |                          |
|               |                                                  | →Data Service            |                          |
|               |                                                  | →Metering Service        |                          |
|               |                                                  | →LDSO                    |                          |
|               |                                                  | →EES                     |                          |

Key

|                           |                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output flow to the DIP →  | Merged cells across Primary and Secondary mean only one instance of that message is sent, with both primary and secondary MPANs present in the one message. |
| → Input flow from the DIP |                                                                                                                                                             |

## Interface Guidance - Related

| DIP Interface |                                                        | Primary MPAN                        | Secondary MPAN(s)                                                                                                                                                           |
|---------------|--------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF-031        | Supplier Service Provider Appointment Request          | Supplier →                          | Appointments will only be accepted for Primary MPANs in a related group                                                                                                     |
|               |                                                        | →Registration Service               |                                                                                                                                                                             |
| IF-032        | Supplier Service Provider Appointment Request Response | Registration Service →<br>→Supplier |                                                                                                                                                                             |
| IF-033        | Registration Service Request for Service Appointment   | Registration Service →              |                                                                                                                                                                             |
|               |                                                        | →Data Service                       |                                                                                                                                                                             |
|               |                                                        | →Metering Service                   |                                                                                                                                                                             |
| IF-034        | Service Provider Appointment Request Response          | Data Service →                      | Appointments will only be accepted for Primary MPANs in a related group. If a MS/DS accepts an appointment for Primary MPAN, it results in acceptance for Secondary MPAN(s) |
|               |                                                        | Metering Service →                  |                                                                                                                                                                             |
|               |                                                        | →Registration Service               |                                                                                                                                                                             |
| IF-035        | Registration Service Appointment Status Notification   | Registration Service →              |                                                                                                                                                                             |
|               |                                                        | →Supplier                           |                                                                                                                                                                             |
|               |                                                        | →Metering Service                   |                                                                                                                                                                             |
|               |                                                        | →Data Service                       |                                                                                                                                                                             |
| IF-036        | Service Provider Notification of Appointment           | Registration Service →              | Registration Service →                                                                                                                                                      |
|               |                                                        | →Supplier                           | →Supplier                                                                                                                                                                   |
|               |                                                        | →Data Service                       | →Data Service                                                                                                                                                               |
|               |                                                        | →Metering Service                   | →Metering Service                                                                                                                                                           |
|               |                                                        | →LDSO                               | →LDSO                                                                                                                                                                       |
|               |                                                        | →Marketwide Data Service            | →Marketwide Data Service                                                                                                                                                    |
|               |                                                        | →EES                                | →EES                                                                                                                                                                        |
| IF-037        | Notification of Service De-Appointment                 | Registration Service →              | Registration Service →                                                                                                                                                      |
|               |                                                        | →Supplier                           | →Supplier                                                                                                                                                                   |
|               |                                                        | →Data Service                       | →Data Service                                                                                                                                                               |
|               |                                                        | →Metering Service                   | →Metering Service                                                                                                                                                           |
|               |                                                        | →LDSO                               | →LDSO                                                                                                                                                                       |
|               |                                                        | →Marketwide Data Service            | →Marketwide Data Service                                                                                                                                                    |
|               |                                                        | →EES                                | →EES                                                                                                                                                                        |

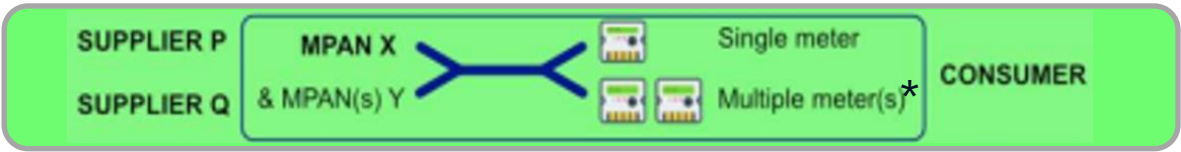
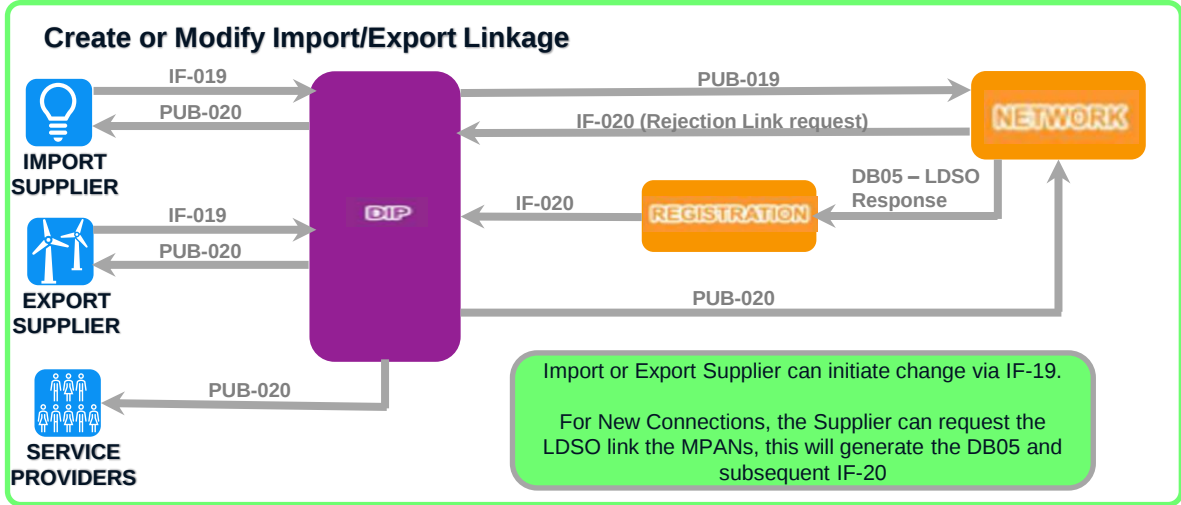
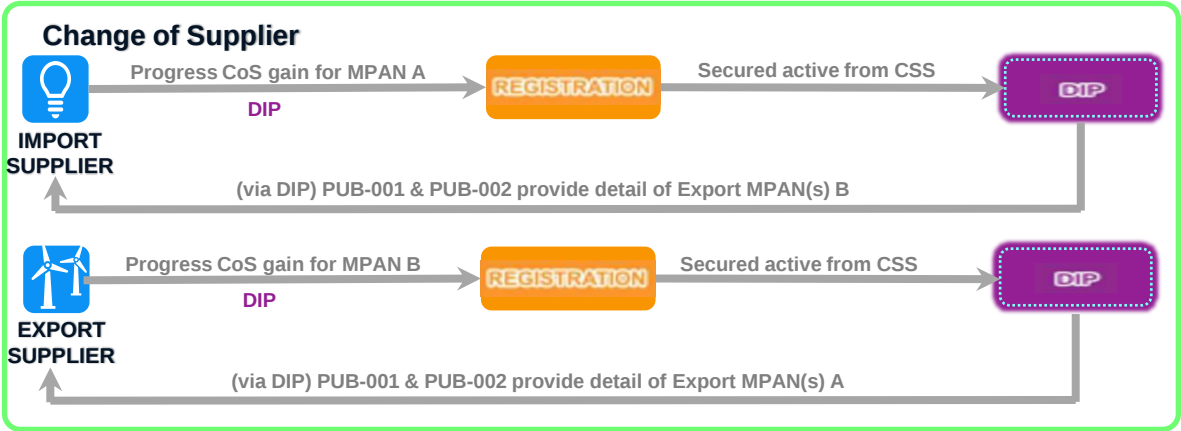
## Key

Output flow to the DIP →  
→ Input flow from the DIP

Merged cells across Primary and Secondary mean only one instance of that message is sent, with both primary and secondary MPANs present in the one message.



MPAN A is the Import MPAN. MPAN B is the Export MPAN(s)



**Linked MPAN Notes**

Networks (LDSO) will maintain details of Linked MPANs in accordance with BSC rules and Supplier requests\*

‘Principle’ and ‘Subsidiary’ are used interchangeably in the design alongside ‘Primary’ and ‘Secondary’ to acknowledge there may be multiple linked export and/or import MPANs (i.e. more than 2)

MPAN X is the Primary (Principle) MPAN – registration activity will automatically associate linked MPAN(s) Y

Where multiple export (subsidiary) MPANs are being specified, a failure for any MPAN in the request will result in the transaction failing. It may be more efficient to process subsidiary MPANs as individual transactions.

Normally a linked MPAN arrangement would consist of a single ‘Import’ (Principle) MPAN and a single ‘Export’ (Subsidiary) MPAN. However, it is possible that more than one Export MPAN may be linked to a single Import MPAN.

Linked MPANs are managed by CSS independently and may be registered to the same or different suppliers. However, the Registration Service will seek to align Service Providers automatically, except in the case of Smart DS

\* - Simplified Linking rules for MHHS Design provided on slide 8

Appoint Service Providers – Linked MPANs

Non-Smart

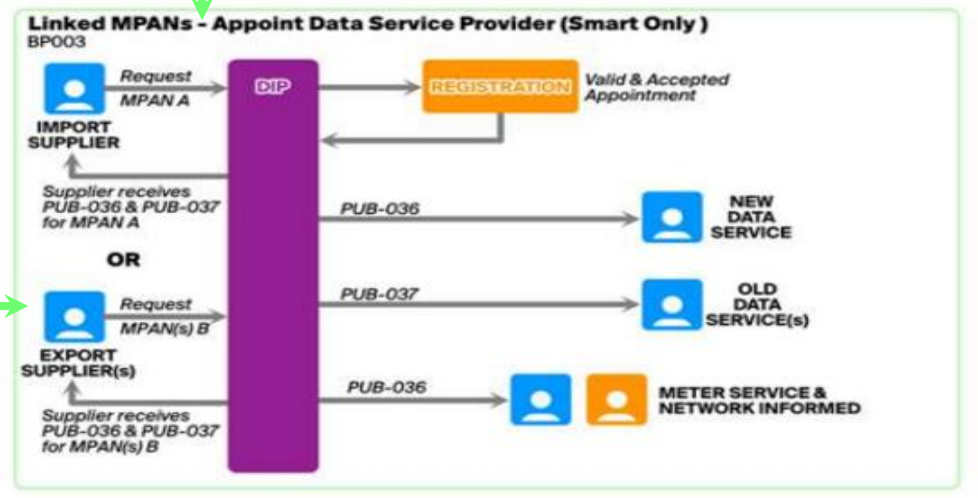
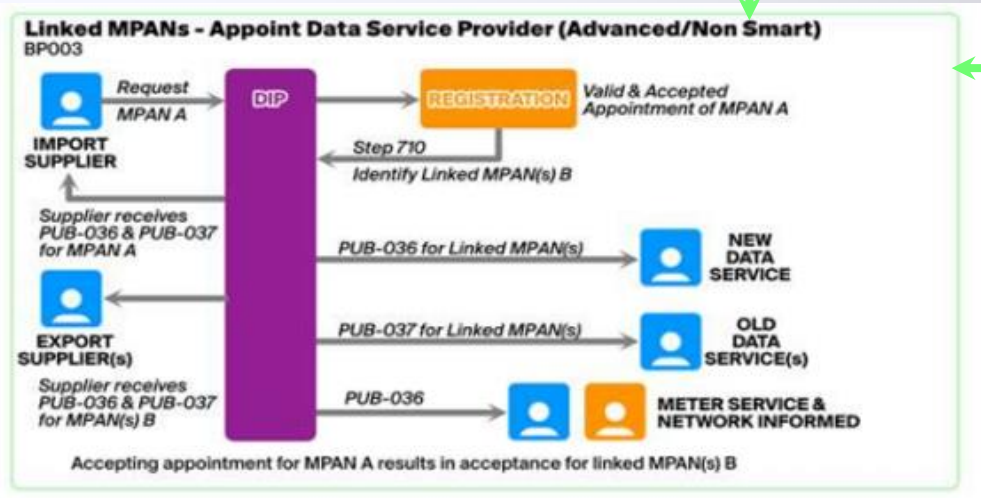
Smart

For all linked MPANs, the Metering Service and Data Service will be common

Except for Data Service provider for Smart Meters, which can be different

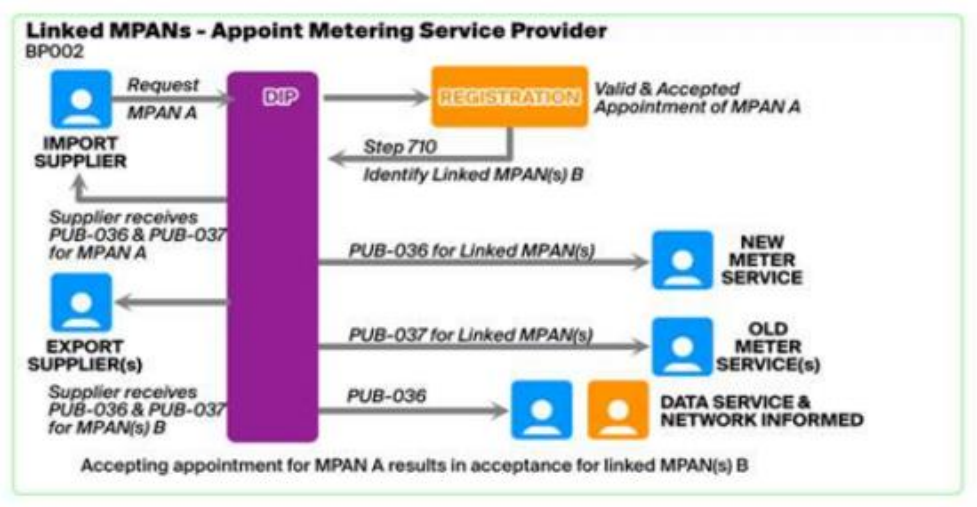
Appointments will only be accepted for 'Import' (Principle) MPANs in a linked group

Except Smart Data Service



For a Metering Service or ADS/UMSDS they will only receive an IF-033 for the Import MPAN (with the details of the Export MPANs included). They are effectively accepting the appointment to any export MPANs by accepting the Import MPAN using the IF-034. They will just receive one IF-035. However, they will receive an individual IF-036 to confirm each MPAN has been appointed.

**For Consideration**  
Contractual implications for Metering Service (and Data Service for Non-Smart) for linked export MPANs where there are different import/export suppliers



For a Smart Data Service, they will receive an IF-033 for both the Import and Export MPAN (assuming they are being appointed to both) and will accept both individually with an IF-034. In this case they would also receive a separate IF-035.

Linking Guidance

Where coloured arrows are depicted, Data issues are likely.

For the Linked MPANs to be one Single Device, neither the Connection Type, Meter Type or Segment should differ from one another

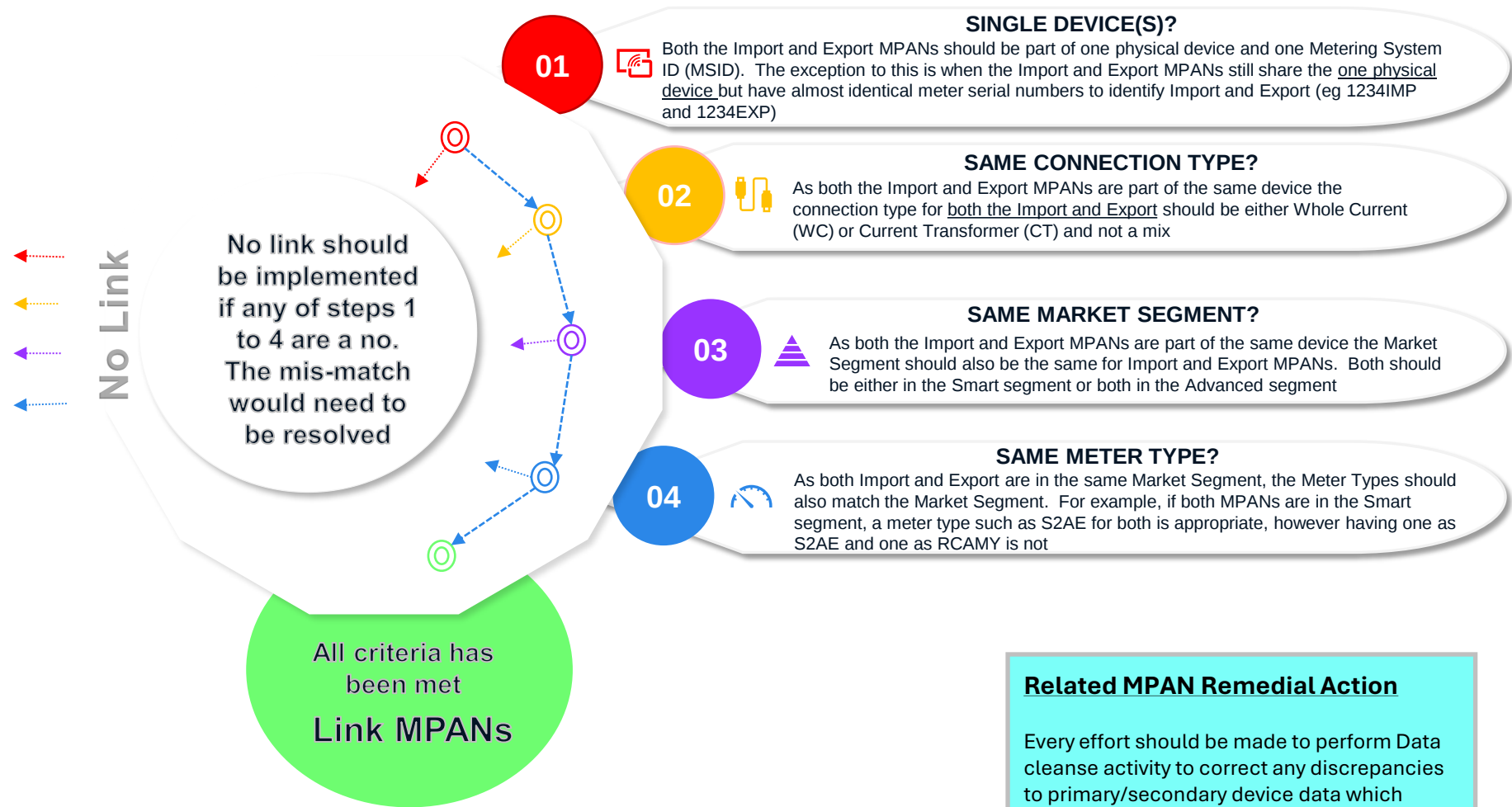
**Linked MPAN Remedial Action**

**Pre-MHHS** – Data cleanse activity should be undertaken to correct any discrepancies to where it is a single device and the Connection Type, Meter Type and Segment all appropriately match. Where they do not match, no linkage should be proposed

**MHHS** – Data cleanse activity should again be completed; however, the initial step is to UNLINK the MPANs to allow Service Providers to be appointed and updates to be made. Once corrections have been completed, where it meets the appropriate criteria the MPANs can be re-linked and agents aligned

If the Export is the lead MPAN/main user, then the Supplier can request that the LDSO does not link the MSIDs.

This model provides a mechanism for large Export led sites to manage their import MSIDs independently



**Linking new Export MPANs to Existing Import MPANs**

When a new Export MPAN is requested for an existing premises the LDSO should identify the Import MPAN and link the MPAN at the point of creation. This will ensure that the correct connection type and market segment is created, aligned to the Import MPAN.

**Related MPAN Remedial Action**

Every effort should be made to perform Data cleanse activity to correct any discrepancies to primary/secondary device data which contains differing Connection Type, Meter Type and/or Market Segment. Where they do not match due to a genuine installation differences, migration activity should be delayed until a resolution is recognised via the REC Issues forum

Interface Guidance - Linked

| DIP Interface                                                                               |                                                  | Import MPAN                 | Export MPAN(s)           |
|---------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------|--------------------------|
| IF-001                                                                                      | Notification of Change of Supplier               | Registration Service →      | Registration Service →   |
|                                                                                             |                                                  | →Incoming Supplier          | →Incoming Supplier       |
|                                                                                             |                                                  | →Marketwide Data Service    | →Marketwide Data Service |
|                                                                                             |                                                  |                             |                          |
|                                                                                             | →LDSO                                            | →LDSO                       |                          |
| As per the routing logic, SUPL will receive a copy of the other Import/Export Supplier flow |                                                  |                             |                          |
| IF-002                                                                                      | Notification to New Supplier of Site Information | Registration Service →      | Registration Service →   |
|                                                                                             |                                                  | →Incoming Supplier          | →Incoming Supplier       |
| IF-019                                                                                      | Manage Meterpoint Relationships                  | Import or Export Supplier → |                          |
|                                                                                             |                                                  | →LDSO                       |                          |
| IF-020                                                                                      | Manage Meterpoint Relationships Response         | Registration Service →      |                          |
|                                                                                             |                                                  | LDSO →                      |                          |
|                                                                                             |                                                  | →Supplier                   |                          |
|                                                                                             |                                                  | →Data Service               |                          |
|                                                                                             |                                                  | →Metering Service           |                          |
|                                                                                             |                                                  | →LDSO                       |                          |
|                                                                                             | →EES                                             |                             |                          |
| As per the routing logic, SUPL will receive a copy of the other Import/Export Supplier flow |                                                  |                             |                          |

Key

|                           |                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Output flow to the DIP →  | Merged cells across Import and Export mean only one instance of that message is sent, with both import and export MPANs present in the one message. |
| → Input flow from the DIP |                                                                                                                                                     |

**Interface Guidance – Linked (BAU ONLY)****For appointments involving  
MSS/MSA/UMSO & ADS/UMSDS****For appointments involving  
SDS**

| DIP Interface |                                                                                                                                                 | Import MPAN              | Export MPAN(s)                                                                                                                                                                 | Import MPAN              | Export MPAN(s)           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| IF-031        | Supplier Service Provider Appointment Request                                                                                                   | Supplier →               | Appointments will only be accepted for "Import" (Principle) MPANs in a linked group - except SDS. Accepting appointment for Import results in acceptance for linked Export(s). | Supplier →               | Supplier →               |
|               |                                                                                                                                                 | →Registration Service    |                                                                                                                                                                                | →Registration Service    | →Registration Service    |
| IF-032        | Supplier Service Provider Appointment Request Response                                                                                          | Registration Service →   |                                                                                                                                                                                | Registration Service →   | Registration Service →   |
|               |                                                                                                                                                 | →Supplier                |                                                                                                                                                                                | →Supplier                | →Supplier                |
| IF-033        | Registration Service Request for Service Appointment                                                                                            | Registration Service →   |                                                                                                                                                                                | Registration Service →   | Registration Service →   |
|               |                                                                                                                                                 | →Data Service            |                                                                                                                                                                                | →Data Service            | →Data Service            |
|               |                                                                                                                                                 | →Metering Service        |                                                                                                                                                                                |                          |                          |
| IF-034        | Service Provider Appointment Request Response                                                                                                   | Metering Service →       | Appointments will only be accepted for "Import" (Principle) MPANs in a linked group - except SDS. Accepting appointment for Import results in acceptance for linked Export(s). | Data Service →           | Data Service →           |
|               |                                                                                                                                                 | Data Service →           |                                                                                                                                                                                | →Registration Service    | →Registration Service    |
|               |                                                                                                                                                 | →Registration Service    |                                                                                                                                                                                |                          |                          |
| IF-035        | Registration Service Appointment Status Notification                                                                                            | Registration Service →   |                                                                                                                                                                                | Registration Service →   | Registration Service →   |
|               |                                                                                                                                                 | →Supplier                |                                                                                                                                                                                | →Supplier                | →Supplier                |
|               |                                                                                                                                                 | →Data Service            |                                                                                                                                                                                | →Data Service            | →Data Service            |
|               |                                                                                                                                                 | →Metering Service        |                                                                                                                                                                                |                          |                          |
| IF-036        | Service Provider Notification of Appointment<br><br>As per the routing logic, SUPL will receive a copy of the other Import/Export Supplier flow | Registration Service →   | Registration Service →                                                                                                                                                         | Registration Service →   | Registration Service →   |
|               |                                                                                                                                                 | →Supplier                | →Supplier                                                                                                                                                                      | →Supplier                | →Supplier                |
|               |                                                                                                                                                 | →Data Service            | →Data Service                                                                                                                                                                  | →Data Service            | →Data Service            |
|               |                                                                                                                                                 | →Metering Service        | →Metering Service                                                                                                                                                              | →Metering Service        | →Metering Service        |
|               |                                                                                                                                                 | →LDSO                    | →LDSO                                                                                                                                                                          | →LDSO                    | →LDSO                    |
|               |                                                                                                                                                 | →Marketwide Data Service | →Marketwide Data Service                                                                                                                                                       | →Marketwide Data Service | →Marketwide Data Service |
|               |                                                                                                                                                 | →EES                     | →EES                                                                                                                                                                           | →EES                     | →EES                     |
|               |                                                                                                                                                 |                          |                                                                                                                                                                                |                          |                          |
| IF-037        | Notification of Service De-Appointment                                                                                                          | Registration Service →   | Registration Service →                                                                                                                                                         | Registration Service →   | Registration Service →   |
|               |                                                                                                                                                 | →Supplier                | →Supplier                                                                                                                                                                      | →Supplier                | →Supplier                |
|               |                                                                                                                                                 | →Data Service            | →Data Service                                                                                                                                                                  | →Data Service            | →Data Service            |
|               |                                                                                                                                                 | →Metering Service        | →Metering Service                                                                                                                                                              | →Metering Service        | →Metering Service        |
|               |                                                                                                                                                 | →LDSO                    | →LDSO                                                                                                                                                                          | →LDSO                    | →LDSO                    |
|               |                                                                                                                                                 | →Marketwide Data Service | →Marketwide Data Service                                                                                                                                                       | →Marketwide Data Service | →Marketwide Data Service |
|               |                                                                                                                                                 | →EES                     | →EES                                                                                                                                                                           | →EES                     | →EES                     |

Output flow to the DIP →

→ Input flow from the DIP

Merged cells across Import and Export mean only one instance of that message is sent, with both import and export MPANs present in the one message.

Slide modified from CGI, with permission

**Interface Guidance – Linked (MIGRATION ONLY)**

| DIP Interface |                                                                          | For appointments involving<br>MSS/MSA/UMSO & ADS/UMSDS |                        | For appointments involving<br>SDS |                        |
|---------------|--------------------------------------------------------------------------|--------------------------------------------------------|------------------------|-----------------------------------|------------------------|
|               |                                                                          | Import MPAN                                            | Export MPAN(s)         | Import MPAN                       | Export MPAN(s)         |
| IF-031        | Supplier Service Provider Appointment Request<br>MIGRATION ONLY          | Supplier →                                             | Supplier →             | Supplier →                        | Supplier →             |
|               |                                                                          | →Registration Service                                  | →Registration Service  | →Registration Service             | →Registration Service  |
| IF-032        | Supplier Service Provider Appointment Request Response<br>MIGRATION ONLY | Registration Service →                                 | Registration Service → | Registration Service →            | Registration Service → |
|               |                                                                          | →Supplier                                              | →Supplier              | →Supplier                         | →Supplier              |
| IF-033        | Registration Service Request for Service Appointment<br>MIGRATION ONLY   | Registration Service →                                 | Registration Service → | Registration Service →            | Registration Service → |
|               |                                                                          | →Data Service                                          | →Data Service          | →Data Service                     | →Data Service          |
|               |                                                                          | →Metering Service                                      | →Metering Service      |                                   |                        |
| IF-034        | Service Provider Appointment Request Response<br>MIGRATION ONLY          | Metering Service →                                     | Metering Service →     | Data Service →                    | Data Service →         |
|               |                                                                          | Data Service →                                         | Data Service →         | →Registration Service             | →Registration Service  |
|               |                                                                          | →Registration Service                                  | →Registration Service  |                                   |                        |
| IF-035        | Registration Service Appointment Status Notification<br>MIGRATION ONLY   | Registration Service →                                 | Registration Service → | Registration Service →            | Registration Service → |
|               |                                                                          | →Supplier                                              | →Supplier              | →Supplier                         | →Supplier              |
|               |                                                                          | →Data Service                                          | →Data Service          | →Data Service                     | →Data Service          |
|               |                                                                          | →Metering Service                                      | →Metering Service      |                                   |                        |

**Key**

Output flow to the DIP →

→ Input flow from the DIP

Merged cells across Import and Export mean only one instance of that message is sent, with both import and export MPANs present in the one message.

## Migration Design

## Related MPANs



The BAU MHHS Design (as explained on the previous slides) **is** utilised to support the migration of Related MPANs



The migration of a Related MPAN group will be initiated by a Supplier sending an IF-031 for the Primary MPAN only



When the migration of the Primary MPAN successfully completes (denoted by the sending of an IF-36) the Registration Service will also send an IF-036 for the Secondary MPANs.



Like the BAU MHHS Design this will occur for the appointment of all Metering and Data Services for each MPAN in the related group.

## Import/Export (Linked)



The BAU MHHS Design (as explained on the previous slides) **will not** be utilised to support the migration of Import/Export MPANs



The BAU MHHS Design rules for Import / Export (e.g. Advanced Metering/Data Services and Smart Metering Services) will not become effective until all MPANs within an Import/Export group have been migrated to the MHHS arrangements



Import / Export MPANs will be migrated via the sending of separate IF-31s



Once all MPANs in a group have migrated the Registration Service will then begin to apply the BAU rules, which could result in the Registration Service automatically aligning the appointments



Suppliers will continue to have code obligations which require the same organisations to be appointed. However, when MPANs exist in both MHHS and Legacy arrangements this could be the same organisation operating MHHS and Legacy roles (i.e. MEM and MS).

**Additional Call outs****Change of segment (Advanced to Smart) for both Linked & Related MPANs**

A workaround needs to be used for Change of Segment from Advanced to Smart where Linked or Related MPANs are in place. The Export/Secondary MPAN is unable to be updated with the new metering details to cause the segment to change. Due to the current hierarchy process continually defaulting to the Advanced segment, neither MPAN can successfully change segment to Smart



The workaround involves de-linking the MPANs before carrying out the change of segment and then re-linking after.

This workaround needs to be in place until the enduring solution under DIN-1194 is implemented

**Secured active for the Export MPAN has a CSS timestamp that is prior to that of the Import (this could be a little as one second earlier)**

At the time of processing the Export secured active, there would be no associated Import MPAN, therefore the Metering service auto alignment would not have been completed to note the Metering Service partner in the Export variant DSAppActive IF-036



Upon secured active of the Import MPAN the auto-alignment will take place, the Export variant MSAppActive IF-036 will be sent to all appropriate parties and contain both the Data Service and the Metering Service

**All Appointments - Gate Closure**

IF-034's from both the MS and DS must be received prior to 18:00 the night before EFD (gate closure could be as early as 15.30 during SIT)  
If both are received in time, then the IF-036 will be sent to both known MS and DS giving each other confirming the MS/DS party



If either of the IF-034's are delayed and not received by EFD the IF-036 will only be sent to the party whose IF-034 has been received, this will not include the other party information as it would not been known as the other required IF-034 has not been received  
Full party information will be shared upon the second IF-036 being processed