

P379 - Multiple Suppliers

BRD

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Business Requirements Document
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P379 MULTIPLE SUPPLIERS BRD



CONTENTS

P379-TXT-1 INTRODUCTION.....	6
1. P379-TXT-2 Purpose.....	6
P379-TXT-3 BSC CHANGE SUMMARY	6
2. P379-TXT-4 Problem Statement	6
3. P379-TXT-5 Objectives and Scope	6
4. P379-TXT-6 Architecture Fit	7
5. P379-TXT-7 References	8
6. P379-TXT-10 Current State (as-is situation)	8
7. P379-TXT-11 Changes to be introduced	9
8. P379-TXT-12 Future State	9
9. P379-TXT-14 Summary of obligations	10
BUSINESS REQUIREMENTS	11
10. P379-TXT-13 Business Requirements Introduction	11
11. Parties	12
12. Party and Asset Relationships.....	14
13. Register AMSIDs	16
14. Register AMSID Pairs.....	19
15. Register Secondary Supply.....	26
16. Register non-Asset Secondary Supply	30
17. Appointments and Instructions.....	34
18. Obtain Metered Volumes.....	36
19. Meter Splitting / Calcs.....	39
20. Exceptions	56
21. Change of Supplier / Change of Agent	56
22. Performance Assurance	57
23. Reporting.....	58
BUSINESS RULES.....	59
24. P379-BRL-1 AMSID Pair is associated to atleast one import boundary point MSID Pair	59
25. P379-BRL-2 One CNA can provide non-AMSID volumes at a Boundary Point	59
26. P379-BRL-3 Suppliers cannot use Secondary BM Units for P379	59



P379 MULTIPLE SUPPLIERS BRD

27. P379-BRL-4 Behind the meter AMSID Pair vol priority over non asset vol 59

28. P379-BRL-5 CVNs from new CNAs rejected unless original cancelled..... 59

P379-TXT-15 BUSINESS SCENARIOS59

P379-TXT-16 DATA RELATIONSHIPS60

P379-TXT-17 APPENDIX A P375 REQUIREMENTS FOR ASSET METERS61



P379 MULTIPLE SUPPLIERS BRD

P379-TXT-1 INTRODUCTION

1. P379-TXT-2 Purpose

The BSC Change Business Requirements document is produced as part of the 'End to End BSC Change Process' during the BSC Change Assessment process.

The purpose of this document is to communicate the Business Requirements of BSC Change [P379 to industry members and service providers](#). It enables an initial impact assessment to be carried out by a Service Provider.

In addition it describes the anticipated impact on BSCCo (people, processes and systems), the BSC, Code Subsidiary Documents, and other Configurable Items.

P379-TXT-3 BSC CHANGE SUMMARY

2. P379-TXT-4 Problem Statement

The BSC does not enable the splitting of volumes supplied or exported by two or more different suppliers of electricity through a single Meter without the concerned suppliers having to enter into an agreement which they must re-establish if the Customer decides to utilise any other supplier not in the agreement, for any purpose.

A successful solution must enable multiple suppliers and different types of suppliers (e.g. Electric Vehicle Suppliers, Community Energy Schemes, exempt suppliers) to compete for the supply or export of electricity through a single Meter without needing to establish an agreement between any of the suppliers involved.

The solution should ensure any code provisions and procedures are not an obstacle to participation and must ensure that each meter registrant's imbalance position is not materially and adversely impacted by other suppliers operating across the meter. All relevant calculations to achieve the solution must be reasonable and should be achieved in a timely manner.

3. P379-TXT-5 Objectives and Scope

Modification P379 aims to achieve the following objectives:

1. Enable multiple suppliers to supply electricity to a single customer (behind a single Boundary Point) without the need for a prior agreement.
2. Each meter registrant's imbalance position is not materially and adversely impacted by other Suppliers operating across the meter.

It defines the rules for the following by building on existing solutions and capabilities in place for P344 'Project TERRE', P354 'ABSVD', P375 'Metering behind the Boundary Point'.^[1]

- Introducing a new BSC Party: Contract Notification Agent (CNA);
- Associating meter information: enabling metering systems (both at the boundary point and behind the boundary point) to be associated with multiple BM Units;
- Registering meter information: enabling behind-the-meter metering systems to be registered by a Supplier
- Notifying Parties of multiple supply activities in a timely manner;
- Obtaining metered volumes;
- Applying contract volume notifications;
- Splitting the boundary point metered volumes and allocating the correct volumes to each Party;

P379 MULTIPLE SUPPLIERS BRD

- Reporting on multiple supply activity; and
- Providing performance assurance.

[1] Some P375 business requirements are replicated in this document to ensure they are captured if P375 is not approved and this Modification is.

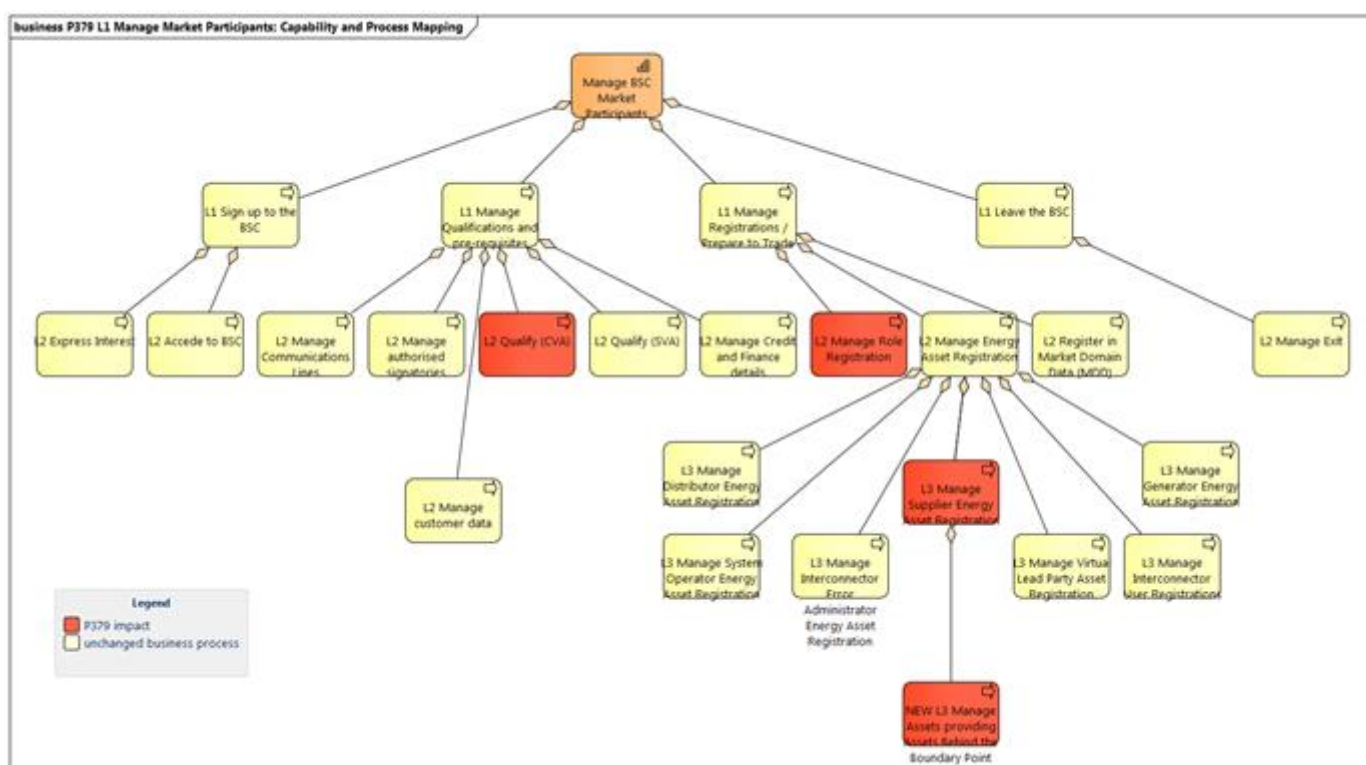
4. P379-TXT-6 Architecture Fit

P379 proposed solution builds on the business capabilities that are being enhanced for P344 and P375, particularly around registration and validation of assets and meters behind the boundary point.

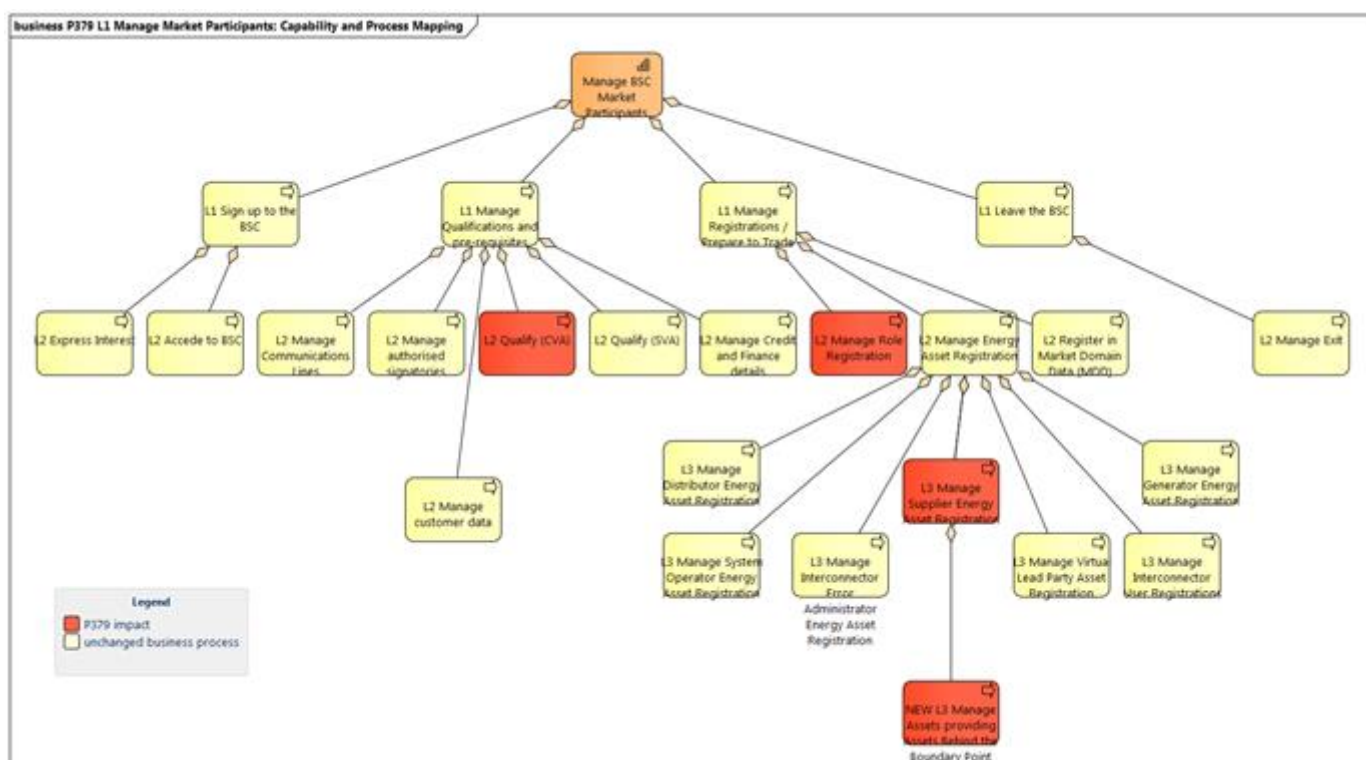
Similarly, the technical capabilities required manage split meter volumes, if a requirement of SVAA, should be based on those developed for SVAA in support of P344 and P375.

All processes and data flows must be digital, and automated where possible.

The following capabilities and business processes within the BSC are impacted by P379.



P379 MULTIPLE SUPPLIERS BRD



5. P379-TXT-7 References

Document	Author	Date
Workgroup (WG) Slides	ELEXON	
P344 Business Requirements v5.0	ELEXON	
P375 Business Requirements v1.0	ELEXON	02 Sept 2019
P376 Business Requirements (draft)	ELEXON	

6. P379-TXT-10 Current State (as-is situation)

Shared SVA Metering Arrangements (pre-agreed arrangements between suppliers for meter splitting)

Currently, the SVA Shared Metering Arrangements as set out in BSCP550 'Shared SVA Meter Arrangements' enable two or more Suppliers to split the volumes at an Metering System Identifier (MSID) in accordance with a pre-agreed allocation schedule or by using a non-settlement meter located 'behind' the boundary MSID. A pseudo Secondary MSID is created by the Licensed Distribution System Operator (LDSO) for the Secondary Supplier to enable this to work. It enables Parties to revise the allocation schedule up until Gate Closure. The appointed HHDC of the Primary Supplier is responsible for collecting and validating the metering data for the physical Shared SVA Metering System between the Primary MSID and the pseudo Secondary MSID(s) in accordance with the method specified in the Allocation Schedule.

P379 MULTIPLE SUPPLIERS BRD

Project TERRE (*use of MSID level data in Settlement and the association of MSID Pairs with other Parties with the relationships held in a Balancing Services Register*)

BSC Modification P344 “Project TERRE implementation into GB market arrangements” has enabled Parties to participate in Balancing Services such as Bid-Offer Acceptances or the Replacement Reserve Balancing Services Product at the MSID level.

P344 has created a new Party type ‘Virtual Lead Party (VLP)’ that can register Boundary Point MSIDs against Secondary BM Units (virtual BM Units also registered by VLPs) for the purposes of delivering Balancing Services. A Secondary BM Unit will contain MSIDs registered by another Supplier. The SVAA validates the information provided by the VLP and upon successful registration, it then instructs the MSID registrant’s HHDA to report Metered Volume data for a given MSID in line with the SVAA calendar.

VLPs must provide the Delivered Volumes to SVAA for adjustment of the Supplier Imbalance position and calculation of non-delivery of the instructed volumes for TERRE Replacement Reserve. SVAA then aggregates both Metered Volume and Delivered Volume data and passes it on to SAA, which in turn adjusts the Imbalance Position of the BSC Party who is the Registrant of the Boundary Point MSID used by the VLP.

P344 introduces the concept of a Balancing Services Register that enables MSID Pairs to be linked to Virtual Lead Parties, their primary Suppliers and the relevant agents. SVAA holds a central register of MSIDs that are registered against Secondary BM Units for all VLPs.

7. P379-TXT-11 Changes to be introduced

Metering Behind the Boundary Point (*use of associated MSID Pairs in Settlement, relationships managed via the Balancing Services Register*)

The market is seeing new business models with diverse and smaller scale assets such as EV chargepoints and domestic appliances. These smaller assets tend to share a site with other demand and generation assets, whose flows are all measured and then settled using the Boundary Point MSID. When providing a balancing service it is necessary to submit a Physical Notification to the NETSO. The Physical Notification is a forecast of flows for the relevant settlement period. This Physical Notification turns final (FPN) at gate closure and is used by the NETSO to dispatch the asset and is subsequently used in the Settlement of the Balancing service.

If this FPN is inaccurate, it can lead to Imbalance and/or Non-delivery charges in settlement. As the Boundary Meter measures total flows for the site and not just the asset, Virtual lead Parties (VLPs) have difficulties in being able to forecast the FPN accurately which they state is a significant blocker to the provision of Balancing Services. This creates a need to allow Settlement to acquire data from metering behind the Boundary Point, i.e. at the asset, which is delivering the Balancing Service. By allowing this, the VLP can install metering or use existing metering which can isolate the flows to a specific asset, which the VLP can therefore forecast accurately in its FPN.

The process for collecting and aggregating Metered Volume data for Assets located behind the Boundary Point is being introduced by Modification P375 ‘Metering behind the Boundary Point’. P375 builds on the P344 solution by enabling data to be held about Assets behind the Boundary Point MSID, these will be known as Asset Metering System Identifiers (AMSIDs). The P375 solution extends the capabilities of the Balancing Services Register to include providing and keeping a record of AMSIDs and identifies the metering standards and requirements for AMSIDs. It also defines the processes used for instructing agents and requesting metered volumes for AMSIDs.

AMSID Pair metered volumes are held in both Secondary BM Units and Primary Supplier Base BM Units. The Settlement Administration Agent (SAA) adjusts the balancing services volume during the relevant Settlement Run.

Where these business requirements refer to an AMSID or AMSIDs this applies to both Import and Export AMSIDs where applicable.

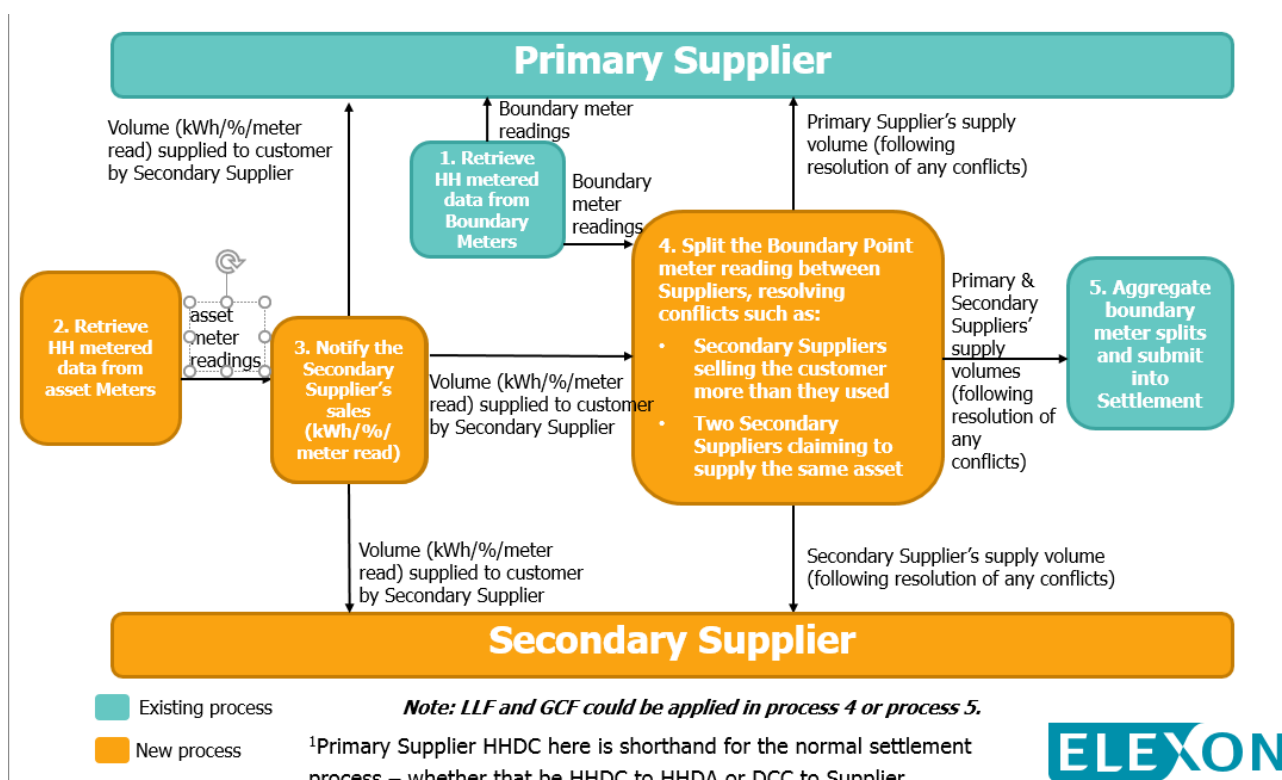
8. P379-TXT-12 Future State

P379 MULTIPLE SUPPLIERS BRD

P379 introduces the ability to split a boundary point meter reading by subtracting metered volumes for assets behind the meter and/or splitting volumes by a percentage or fixed amount allocated to the suppliers involved in meter splitting. It builds on the capabilities introduced by P344 'Project TERRE' and P375 'Metering Behind the Boundary Point' in particular the use of metering system level data and the storing of these relationships with Parties and BM Units associated with these metering systems.

There are several options for a BSC solution to enable P379. The key difference between two solutions discussed so far at the Workgroup meetings is that in the proposed the SVAA calculates the meter splitting and in the alternative, the Primary Supplier's HHDC is responsible for meter splitting.

The diagram below summarises the key changes made by P379. Orange indicates a new process and teal indicates existing processes.



9. P379-TXT-14 Summary of obligations

Role	Key focus / obligation
Primary Supplier	Receives notifications of Secondary Supply at the boundary point, behind the boundary point metered volumes and Primary Supplier's share of the metered volume that has been split
Secondary Supplier	Notifies sales of Secondary Supply to CNA, notifies change of occupier at a Boundary Point MSID, receives notification of activity at the boundary point other than the Secondary Supplier and Secondary Supplier's share of the metered volume that has been split
PS Half Hourly Data Collector (PS HHDC)	Obtain Boundary Point MSID metered volumes Receive Secondary Supplier's AMSID Pair metered volumes and calculate split [Option 2]

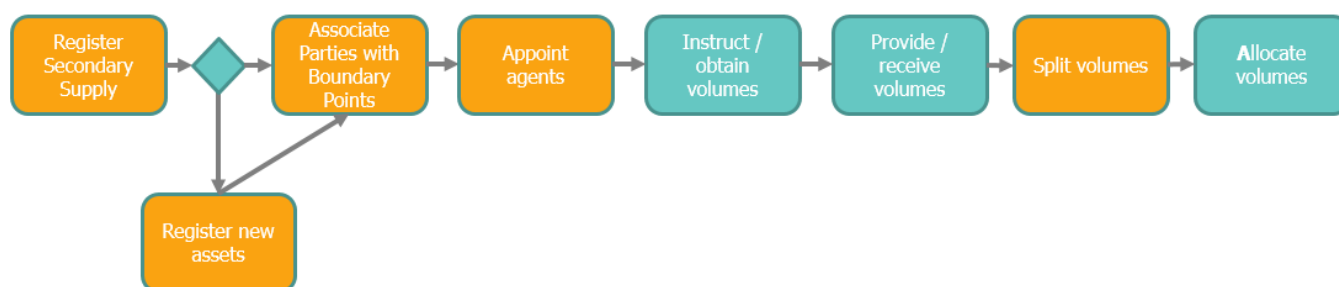
P379 MULTIPLE SUPPLIERS BRD

Role	Key focus / obligation
SS Half Hourly Data Collector (SS HHDC)	Obtain and provide metered volumes for AMSID Pairs behind the Boundary Point
PS Half Hourly Data Aggregator (PS HHDA)	Provide Boundary Point MSID Pair metered volumes to calculation entity [Option 1]
Customer Notification Agent (CNA)	Convert sales of Secondary Supply into Settlement data Provide Secondary Supply volumes to calculation entity (SVAA or Primary Supplier's HHDC) via Customer Volume Notifications Resolves any conflicts in customer volume notifications on behalf of more than one Secondary Supplier before providing to the calculation entity
BSC Central Systems (SVAA)	Notify and split boundary point metered volumes [Option 1] Allocate volumes to each Supplier as per existing processes Request/instruct Primary Supplier's Half Hourly Data Aggregator to provide metered volumes for the Boundary Point MSID Pairs Manage AMSID registrations (if agreed)

BUSINESS REQUIREMENTS

10. P379-TXT-13 Business Requirements Introduction

The business requirements are grouped by the following areas within the settlement lifecycle to achieve the outcome of correct volumes for each party. Each requirement is stated at high-level and additional description is provided where necessary. Requirements are labelled to indicate whether they apply to the [Option 1](#) solution option, [Option 2](#) solution option or both.



Orange boxes indicate a change to existing arrangements and teal indicates existing processes.

The P379 solution uses many of the capabilities introduced by P375 'Metering behind the Boundary Point' which is currently undergoing the BSC Change Assessment phase. To ensure alignment, requirements from P375 have been re-used and applied for P379 where applicable and marked as re-used.

P379 MULTIPLE SUPPLIERS BRD

Requirements table

Below is a list of the requirement topics.

Requirement area
Party requirements
Party and Asset relationships
Register Secondary Supply (asset based – Secondary Supply applies to asset based metered volumes)
Register Secondary Supply (non-asset based) (Secondary Supply applies to a fixed or percentage volume of the Boundary Point metered volume)
Register AMSIDs for new sites
Register AMSID Pairs for new and existing assets
Appoint agents
Instruct agents and obtain volumes
Provide and receive volumes
Split volumes
Allocate volumes (include split volumes in SVA Volume Allocation Run)
Reporting requirements
Performance Assurance requirements
Change of Supplier / Change of Agent requirements
Manage exceptions

11. Parties

Topic	Ref. no	Requirement/Rule
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P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-1	<p>Suppliers must be able to provide Secondary Supply in the following ways</p> <p>If a Supplier chooses to provide Secondary Supply to a customer, they may do so in the following ways:</p> <ul style="list-style-type: none"> - BR1.1 (a) Asset based Supply (e.g. an electric vehicle) - BR1.1 (b) Fixed volume of Secondary Supply at the Boundary Point - BR1.1 (c) Percentage volume of Secondary Supply at the Boundary Point <p>Throughout this document a Supplier providing Secondary Supply will be referred to as a Secondary Supplier. The concept of Secondary Supply can be applied equally to a boundary or asset meter, where the asset meter acts as the Boundary Point meter if its meter reading is to be split between multiple Secondary Suppliers.</p> <p>[Option 1 & Option 2]</p>
Functional	P379-BR-2	<p>New Customer Notification Agent (CNA)</p> <p>[Option 1 & Option 2] P379 will introduce the following Party type: Customer Notification Agent (CNA). The purpose of the CNA would be to notify the calculation entity (Option 1: SVAA; Option 2: Primary Supplier's HHDC) of the % or fixed volume of Secondary Supply at the Boundary Point.</p>
Functional	P379-BR-3	<p>CNA will need to qualify</p> <p>[Option 1] The CNA must be subject to SVA qualification as it will provide volume notifications to SVAA. The qualification requirements should be materially similar to those of an Energy Contract Volume Notification Agent (ECVNA) and Metered Volume Reallocation Notification Agent (MVRNA) in respect of the notifications those agents sent to the Energy Contract Volume Allocation Agent (ECVAA)</p> <p>[Option 2] The CNA must be subject to SVA qualification as it will provide volume notification to the Primary Supplier's HHDC. The qualification requirements should be materially similar to those of an Energy Contract Volume Notification Agent (ECVNA) and Metered Volume Reallocation Notification Agent (MVRNA) in respect of the notifications those agents sent to the Energy Contract Volume Allocation Agent (ECVAA).</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-4	<p>SS register asset metering behind boundary point</p> <p>[Option 1 & Option 2] If an AMSID Pair does not exist for the asset, the Secondary Supplier must be able to request an AMSID from the Secondary Supply registration agent and register it within an AMSID Pair. See requirement P379-BR5 below. The AMSID Pair must be associated with at least one Boundary Point MSID (MSID Pair if present).</p> <p>P375- enables a VLP to register asset metering, P379 opens this up to Suppliers.</p> <p>The Secondary Supply registration agent will be the entity that is responsible for maintaining a register of MSID Pairs, AMSID Pairs, BM Units, Suppliers and appointed agents for the purposes of providing asset meter volumes.</p> <p>Technical solution consideration: the SVAA Balancing Services Register currently holds this info, and would be used as a starting point.</p> <p>SVAA acts as a Secondary Supply registration agent in the P375 solution, and therefore P379 can re-use this capability.</p> <p>Alternatively, the Central Switching Service (CSS) is a candidate to act as the Secondary Supply registration agent.</p>
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12. Party and Asset Relationships

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-5	<p>Maintain key relationships</p> <p>The solution must enable the relationships provided in Section 3.7 'Data Relationships'. Key relationships are highlighted in the following business requirements.</p>
Functional	P379-BR-6	<p>enable AMSID Pairs to be associated with Boundary Point MSID Pairs.</p> <p>[Option 1 & Option 2] It must be possible to associate an AMSID Pair with an existing Boundary Point MSID Pair.</p> <p>For new sites please see section 3.4.5 'Register AMSID Pairs for new and existing assets'.</p>
Functional	P379-BR-7	<p>enable MSID Pairs to be associated with a Supplier's BM Unit.</p> <p>[Option 1 & Option 2] It must be possible to associate an MSID Pair with an existing Supplier's Base or Additional BM Unit for the purpose of Secondary Supply. The association must not result in any automatic allocation of volumes from the associated MSID to the BMU.</p> <p>The association must not confer any responsibilities to the associated Supplier with respect the function or assurance of the function of the Metering Equipment associated with the MSID.</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-8	<p>enable AMSID Pairs to be associated with a Supplier's BM Unit.</p> <p>[Option 1 & Option 2] It must be possible to associate an AMSID Pair with an existing Supplier's Base or Additional BM Unit.</p>
Functional	P379-BR-9	<p>enable Suppliers to disassociate an AMSID Pair from its Supplier BM Unit</p> <p>[Option 1 & Option 2] It must be possible for a Supplier to disassociate an AMSID Pair from its Primary BM Unit or Additional BM Unit.</p>
Functional	P379-BR-10	<p>Visibility of a site's CNA and registered AMSIDs to other Suppliers.</p> <p>[Option 1 & Option 2] the relationship between an MSID Pair and a CNA or an MSID Pair and AMSID must be viewable by Suppliers. This data must available near real time.</p>
Functional	P379-BR-127	<p>SVAA must create Register of Asset Meters BR1</p> <p>SVAA must create and maintain a Register of Asset Meters. For the purposes of these Business Requirements, we shall call this register the Asset Meter Central Register (AMCR). test test</p>
Functional	P379-BR-128	<p>Asset Meter contents BR2</p> <p>[Option 1 & Option 2] Within the Secondary Supply registration agent, the asset management entity must be able to receive and store details of all Asset Metering Systems (AMS) (past and current) registered by Primary Suppliers, Secondary Suppliers or Virtual Lead Parties (VLPs).</p> <p>The details (data) to be stored:</p> <ul style="list-style-type: none"> Import/Export AMSID (if asset based) Half Hourly Data Collector (HHDC) Id (MPID[1]) for Import AMSID/Export AMSID AMSID pair Effective from Date AMSID pair Effective to Date (optional) HHDC Effective from Date HHDC Effective to Date Meter Operator Id (MPID) for Import AMSID/Export AMSID (where applicable) MOA Effective from Date (where applicable) MOA Effective to Date (where applicable) Associated Supplier Boundary Point Import MSID(s)/MSID Pair The connection voltage at the Asset Meter System The connection voltage at the Supplier Boundary Point MSID Balancing delivery capacity of the asset in kW [P375 only]

P379 MULTIPLE SUPPLIERS BRD

		<p>Asset type (e.g. diesel generator, battery storage unit, Electric Vehicle charging unit) [P375 only]</p> <p>Line Loss Factor Class[2] (LLFC)</p> <p>AMS make and model</p> <p>AMS IEC standard</p> <p>Asset Meter Serial Number</p> <p>MOA alternative used</p> <p>AMSID GSP Group Id</p> <p>Secondary Supplier Supplier ID</p> <p>Secondary Supplier BMU ID</p> <p>Supplier BMU-AMSID relationship Effective from date (if asset based)</p> <p>Supplier BMU-AMSID relationship Effective to date (if asset based)</p> <p>CNA (if not asset based)</p> <p>Secondary Supplier BMU and asset relationship effective from date</p> <p>Secondary Supplier BMU and asset relationship effective to date</p> <p>The MSID of the Import Metering System</p> <p>The MSID of the Export Metering System (where applicable)</p> <p>The MSID Pair Effective From Settlement Date</p> <p>The MSID Pair Effective To Settlement Date</p> <p>A Import Metering System Customer Consent Flag</p> <p>A Import Metering System Customer Consent Flag Effective From Settlement Date</p> <p>A Import Metering System Customer Consent Flag Effective To Settlement Date</p> <p>A Export Metering System Customer Consent Flag</p> <p>A Export Metering System Customer Consent Flag Effective From Settlement Date</p> <p>A Export Metering System Customer Consent Flag Effective To Settlement Date</p> <p>Re-use of P375-BR2</p>
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13. Register AMSIDs

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-129	SS requests AMSID from SVAA

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR5.1 Secondary Supplier must be able to request AMSID from Secondary Supply registration agent.</p> <p>[Option 1 & Option 2] For new Asset Metering Systems that a Secondary Supplier wishes to use to provide additional supply, the Secondary Supplier must request a unique AMSID from the Secondary Supply registration agent.</p> <p>The Secondary Supplier could list more than one meters against one AMSID as long as the Metering Systems measure the Metered Volumes for Assets located on the same site 'below' the same Boundary Point(s).</p> <p>For avoidance of doubt, the use of asset metering is a commercial choice. The Secondary Supplier will decide what metering solution best suits each individual site.</p> <p>Re-use of P375-BR3</p>
Functional	P379-BR-130	<p>Info required to request AMSID</p> <p>P379-BR5.2 Secondary Supplier must provide the following information when submitting AMSID request.</p> <p>[Option 1 & Option 2] When requesting a new AMSID, the Secondary Supplier must provide the following information:</p> <p>GSP Group Id All Associated Supplier Boundary Point Import MSID(s) or Parent AMSIDs</p> <p>The Secondary Supplier will have to specify how many Import and Export AMSIDs the Secondary Supply registration agent needs to allocate for a given Asset.</p> <p>Re-use of P375-BR4</p>
Functional	P379-BR-131	<p>SSRA validates AMSID</p> <p>P379-BR5.3 Secondary Supply registration agent must validate AMSID request.</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>[Option 1 & Option 2] Within 1WD of receiving a request for a new AMSID(s), the Secondary Supply registration agent must check that it is complete and valid. The Secondary Supply registration agent may liaise with the Secondary Supplier that submitted the request to seek additional information, corrections or a resubmission of the request.</p> <p>If, following any liaison between the Secondary Supply registration agent and the Secondary Supplier, the Secondary Supply registration agent believes the request to be invalid, then Secondary Supply registration agent will reject the request and notify the Secondary Supplier by electronic means with a rationale.</p> <p>The Secondary Supply registration agent should use information contained within its own database or in external databases (e.g. Secondary Supply registration agent may use, but is not limited to, ECOES [or CSS], Ofgem's Public Register and Companies House) to check the completeness, accuracy and validity of a request.</p> <p>The Secondary Supply registration agent could check: Whether Boundary Point MSID(s) in the request is 'live' (not disconnected). Line Loss Factor Class (LLFC) of the Boundary Point MSID(s). Organisation submitting the request is a BSC Party (VLP).</p> <p>Please note that Secondary Supply registration agent should not be limited to the above checks and could deploy a different check where appropriate.</p> <p>Re-use of P375-BR9</p>
Functional	P379-BR-132	<p>SSRA allocates AMSIDs</p> <p>P379-BR5.4 Secondary Supply registration agent must allocate AMSIDs.</p> <p>[Option 1 & Option 2] Where the validation was successful for a given Asset Metering System, then the Secondary Supply registration agent must allocate AMSID against that/those Asset Metering System(s) and pre-register AMSID Pair(s) within the same Working Day.</p> <p>Re-use of P375-BR10</p>
Functional	P379-BR-133	<p>SSRA notifies VLP of request outcome</p> <p>SSRA must notify Secondary Supplier of AMSID application outcome.</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>Within 1 WD of reviewing the application, determining whether to approve or reject, the SSRA must inform SS of the result.</p> <p>Re-use of P375-BR11</p>
Functional	P379-BR-134	<p>AMSIDs must be unique BR13</p> <p>The AMSIDs created by SSRA need to be unique</p>

14. Register AMSID Pairs

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-143	<p>SS must be able to deregister AMSID</p> <p>P379-BR6.11 A Secondary Supplier must be able to de-register an AMSID.</p> <p>Where a Secondary Supplier wishes to stop using an AMSID and effectively de-register that AMSID, the Secondary Supplier must use a defined data flow published in the Code Subsidiary Document on ELEXON website and submit it to the Secondary Supply registration agent.</p> <p>Re-use of P375-BR26</p>
Functional	P379-BR-144	<p>SVAA Balancing Services Register is kept up to date</p> <p>P379 -BR6.9 The SVAA Balancing Services Register is kept up to date</p> <p>If the Secondary Supply registration agent is not the SVAA, it must update the 'SVA Metering System Register' immediately upon registration.</p> <p>Where the validation was successful for a given AMSID Pair, then the Secondary Supply registration agent must inform the SVAA of changes impacting on the 'SVA Metering System Register' made by the Secondary Supplier, (i.e. addition of Boundary Point MSID Pair(s)) linked to that AMSID Pair (see P375-BR19).</p> <p>Re-use of P375-BR28</p>

P379 MULTIPLE SUPPLIERS BRD

	P379-BR-153	<p>AMSID Pairs associated with min 1 import Boundary Point MSID</p> <p>P379-BR6.2 AMSID Pairs must be associated with at least 1 import Boundary Point MSID.</p> <p>[Option 1 & Option 2] Secondary Suppliers must ensure that an AMSID Pair is associated with a Boundary Point MSID i.e. the AMSID Pair is for a site behind the Boundary Point site. If it is not associated with a Boundary Point MSID, the Secondary Supplier must register this as an MSID Pair as per requirement P379-BR6.3 below.</p>
	P379-BR-154	<p>Inform SS if assets are subject to Load Management</p> <p>P379-BR6.6A Secondary Supplier must be informed if the customer's premises is subject to load management by the connecting DSO.</p> <p>[Option 1 & Option 2] The customer is responsible for informing any Secondary Suppliers supplying the premises that the boundary MSID connection is subject to load management activities by the connecting DSO. Otherwise, information on which customers are subject to load management must be freely available to Suppliers.</p>
	P379-BR-155	<p>New Supplier registers an existing AMSID Pair</p> <p>P379-BR6.8 A new Supplier registers an existing AMSID Pair.</p> <p>If a new Supplier registers an existing AMSID Pair the Secondary Supply registration agent must action the registration and inform the losing Supplier that the AMSID Pair is no longer registered to that Supplier's BMU within the same working day.</p> <p>Upon being informed of a loss of AMSID registration from a BM Unit it is the responsibility of the Secondary Supplier of the losing BM Unit to ensure that they no longer submit those AMSID volumes to the Calculation Entity.</p>
Functional	P379-BR-135	<p>SS must register AMSID Pair(s) with SSRA</p> <p>P379-BR6.1 Secondary Supplier must register AMSID Pair(s) with the Secondary Supply registration agent.</p> <p>[Option 1 & Option 2]</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>When completing a registration of an AMSID Pair, the Secondary Supplier who will fulfil the role of 'Asset Metering System Registrant' must provide the following information at least 5 WD prior to the Effective from Date of the AMSID Pair:</p> <p>Import/Export AMSID Data Collector Id (MPID) for Import/Export AMSID HHDC Effective from Date HHDC Effective to Date Meter Operator Id (MPID) for Import/Export AMSID MOA Effective from Date MOA Effective to Date (where applicable) Associated Supplier Boundary Point Import MSID(s) The connection voltage at the Asset Meter System The connection voltage at the Supplier Boundary Point MSID Balancing delivery capacity of the asset in kW Asset type (e.g. diesel generator, battery storage unit, Electric Vehicle charging unit) AMS make and model AMS IEC standard Asset Meter Serial Number MOA alternative used Secondary Supplier's BM Unit</p> <p>For avoidance of doubt, when registering existing AMSIDs into AMSID Pair, Secondary Suppliers should use a defined flow format published on ELEXON website and submit to Secondary Supply registration agent (the data flow will be defined in the applicable Code Subsidiary Document).</p> <p>Re-use of P375-BR5</p>
Functional	P379-BR-136	<p>SS must register Boundary Point MSIDs when registering AMSIDs</p> <p>P379-BR6.3 Secondary Suppliers must register all affected Boundary Point MSID Pair(s) with Secondary Supply registration agent when registering AMSID Pairs.</p> <p>[Option 1 & Option 2]</p> <p>This must be done concurrently to the AMSID Pair registration. For avoidance of doubt, AMSID Pair will not be fully registered if the associated Boundary Point MSID Pairs are not registered in the Secondary Supply registration agent.</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>To register the MSID Pair the Secondary Supplier will have to provide the following details:</p> <ul style="list-style-type: none"> The Secondary Supplier's BM Unit The GSP Group The MSID of the Import Metering System The MSID of the Export Metering System (where applicable) The MSID Pair Effective From Settlement Date The MSID Pair Effective To Settlement Date A Import Metering System Customer Consent Flag A Import Metering System Customer Consent Flag Effective From Settlement Date A Import Metering System Customer Consent Flag Effective To Settlement Date A Export Metering System Customer Consent Flag A Export Metering System Customer Consent Flag Effective From Settlement Date A Export Metering System Customer Consent Flag Effective To Settlement Date <p>For the avoidance of doubt, where there are more than one Secondary Supplier operating Assets located 'behind' a given Boundary Point Metering System, each Secondary Supplier will have to register the Boundary Point MSID Pair against its AMSID Pair.</p> <p>Re-use of P375-BR19</p>
	P379-BR-159	<p>SS must register MSID Pair</p> <p>If an MSID Pair does not exist for the SVA Metering System, the Secondary Supplier must register an MSID Pair</p>
Functional	P379-BR-137	<p>SSRA validates AMSID Pair registration</p> <p>P379-BR6.4 Secondary Supply registration agent must validate AMSID Pair registration.</p> <p>[Option 1 & Option 2] Within 1 WD of receiving all required AMSID Pair registration details, the Secondary Supply registration agent must check that the registration is complete and valid. The Secondary Supply registration agent may liaise with the Secondary Supplier that submitted the registration to seek additional information, corrections or a resubmission of the registration.</p> <p>The completeness of the registration will be validated against the defined flow format published in the Code Subsidiary Document on ELEXON website. For avoidance of doubt, if, following any liaison between Secondary Supply registration agent and the Secondary Supplier, any information is missing, Secondary Supply registration agent will reject the registration and notify the Secondary Supplier by email or other electronic means of its reason.</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>If, following any liaison between Secondary Supply registration agent and the VLP, Secondary Supply registration agent believes the registration to be invalid, then SVAA will reject the registration and notify the VLP by email or other electronic means of its reason.</p> <p>Secondary Supply registration agent should use information contained within its own database or in external databases (e.g. Secondary Supply registration agent may use, but is not limited to, ECOES [or CSS], Ofgem's Public Register and Companies House) to check the completeness, accuracy and validity of a registration.</p> <p>The Secondary Supply registration agent could check:</p> <p>Whether AMSID in the request exists.</p> <p>That the Boundary Point MSID(s) in the registration is 'live' (not disconnected).</p> <p>That the Boundary Point MSID(s) are already registered within a SBMU.</p> <p>Half Hourly Data Collector is BSC Qualified.</p> <p>Meter Operator Agent is BSC Qualified or meets the criteria of 'BSC MOA alternative'.</p> <p>AMSID is already registered against a different VLP or Secondary Supplier.</p> <p>Please note that Secondary Supply registration agent should not be limited to the above checks and could deploy a different check where appropriate.</p> <p>Re-use of P375-BR20</p>
Functional	P379-BR-138	<p>SSRA notifies VLP of validation outcome</p> <p>P379-BR6.5 Secondary Supply registration agent must notify Secondary Supplier(s) upon reviewing AMSID Pair registration.</p> <p>[Option 1 & Option 2]</p> <p>After reviewing AMSID Pair registration, within the same Working Day, the Secondary Supply registration agent will issue a notification to the Secondary Supplier.</p> <p>Where the registration was successful, Secondary Supply registration agent will confirm that AMSID Pair is now registered and can be used for provision of Balancing Services as of 'Effective from Date'.</p> <p>At the same time, Secondary Supply registration agent will check whether Boundary Point MSID Pairs linked to that AMSID Pair are registered in 'SVA Metering System Register' for provision of Balancing Services in line with P344 (i.e. Secondary Supply registration agent will check whether another VLP uses a given Boundary Point MSID Pair for provision of Balancing Services). Where the MSID Pair is used for provision of Balancing Service, the Secondary Supply registration agent will issue a notification to the VLP who registered that MSID Pair.</p>

P379 MULTIPLE SUPPLIERS BRD

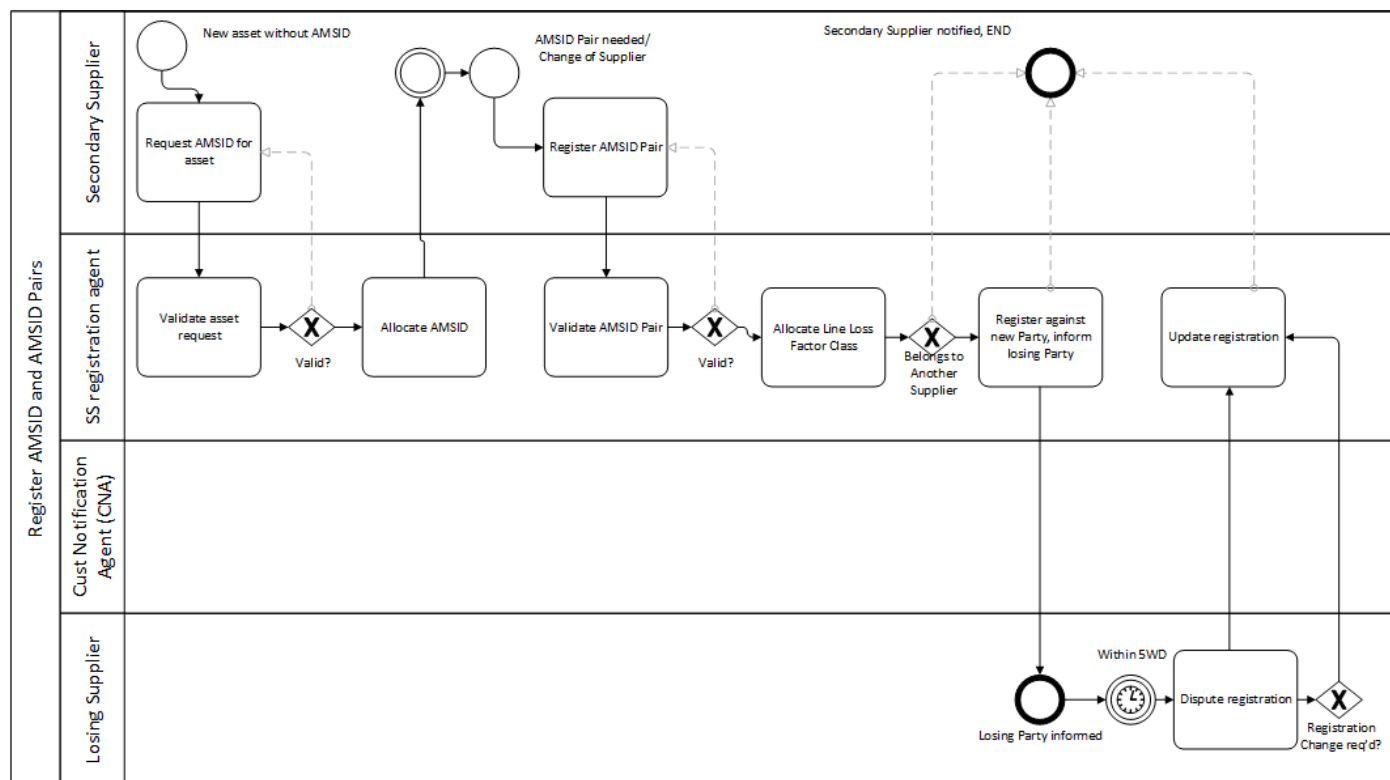
		<p>Where the registration was unsuccessful, Secondary Supply registration agent will provide the rationale in the notification issued to the Secondary Supplier, including a pre-determined code describing the failure that caused rejection. Codes will include specific failure of any individual validation, missing data or incorrect formatting. The list of codes will be defined in accordance with existing practice.[PF1]</p> <p>Re-use of P375-BR21</p>
Functional	P379-BR-139	<p>SSRA allocates LLFC against AMSID</p> <p>P379-BR6.6 Secondary Supply registration agent must allocate Line Loss Factor Class against each Import/Export AMSID.[SJ2] [PF3]</p> <p>[Option 1 & Option 2] At the same time as registering AMSID Pair within the Asset Meter Central Register, the Secondary Supply registration agent must allocate Line Loss Factor Classes against each Import and Export Asset Meter System Id. The Secondary Supply registration agent will allocate the LLFC based on the voltage level of the AMSID connections (including in relation to the MSID connection voltage).</p> <p>The LLFC is allocated by the registration system on receipt of the AMSID details, which will include AMSID connection voltage.</p> <p>Re-use of P375-BR22</p>
Functional	P379-BR-140	<p>SS or VLP notifies SSRA upon the change of SS for an Asset</p> <p>P379-BR6.7 Secondary Suppliers must notify Secondary Supply registration agent upon the change of Secondary Supplier for an Asset.</p> <p>[Option 1 & Option 2] Secondary Suppliers (or VLPs) must notify Secondary Supply registration agent upon change of ownership of an Asset Metering System at least 1WD[SJ4] prior to the Effective from Date of the AMSID Pair. Secondary Supply registration agent should perform the same validation as for a registration of a new AMSID Pair (see P375-BR20). Where the validation is successful, Secondary Supply registration agent will amend its records (to indicate the change of registrant for the asset meter) and ensure that the 'SVA Metering System Register is updated if applicable (to indicate that the Pair should be aggregated under another Secondary Supplier's BM Unit)'.</p> <p>Re-use of P375-BR23</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-141	<p>SVAA must notify new and previous VLP of AMSID Pair re-allocation BR24</p> <p>SVAA must notify new and previous VLP of an AMSID Pair re-allocation.</p> <p>Requirement Description</p> <p>Where an AMSID Pair is re-allocated to a different VLP, the SVAA upon successful validation and amendment of records (in line with BR23), must issue a notification to the new VLP and the VLP that lost the AMSID Pair within the same Working Day as the amendment of records.</p>
Functional	P379-BR-142	<p>Suppliers dispute erroneous transfer of AMSID Pairs</p> <p>P379-BR6.10 A Supplier losing an AMSID Pair may dispute the erroneous transfer within 5WD</p> <p>If a Secondary Supplier believes that one of their AMSID Pairs has been transferred to another Supplier erroneously, they must object within 5WD[SJ8] . The process should follow MRA Procedure for Resolution of Erroneous Transfers (MAP10) if registration agent is MPAS, BSCP602 section 2.3 if registration agent is SVAA and a similar process if registration agent is other.</p> <p>Re-use of P375-BR25</p>

14.1 P379-TXT-19 Register AMSID Pairs for new and existing assets

This section contains requirements based on the P375 solution for registering new and existing assets. The map below provides a brief overview of registering AMSIDs and AMSID Pairs.



P379 MULTIPLE SUPPLIERS BRD

15. Register Secondary Supply

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-19	<p>Notify Calc Entity of Secondary Supply</p> <p>P379-BR3.10 Secondary Supply registration agent notifies the calculation entity of Secondary Supply registration</p> <p>Requirement Description</p> <p>[Option 1 & Option 2] The Secondary Supply registration agent must notify the calculation entity of the ICN so that it can validate the metered volume data it receives.</p>
	P379-BR-158	<p>Notify SS HHDA of appointment</p> <p>[Option 2]</p> <p>The Secondary Supply registration agent must inform the Secondary Supplier's HHDA that they have been appointed to aggregate Secondary Supply volumes in respect of the associated boundary MSID.</p> <p>The Secondary Supplier's HHDA must be able to accept an appointment to aggregate volumes for the associated MSID. HHDA's are currently appointed only to boundary meters via CSS.</p>
Functional	P379-BR-11	<p>Associate MSID Pair with BMU and notify SSRA</p> <p>[Option 1 & Option 2] The Secondary Supplier must associate the MSID Pair to which it is providing Secondary Supply with its Supplier Base or Additional BMU and notify the Secondary Supply registration agent.</p> <p>This notification is the Initial Customer Notification (ICN). The contents of the ICN is as follows:</p> <ul style="list-style-type: none"> · Secondary Supplier Supplier ID · Secondary Supplier BMU ID · Supplier BMU-AMSID relationship Effective from date (if asset based) · Supplier BMU-AMSID relationship Effective to date (if asset based) · CNA (if not asset based)CNA · Import AMSID (if asset based) · Export AMSID (if asset based) <p>Import MSID (if applicable)</p> <p>Export MSID (if applicable)</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-12	<p>Validate ICN</p> <p>P379-BR3.2 The Secondary Supply registration agent must validate details provided in the ICN</p> <p>Requirement description [Option 1 & Option 2] The [Secondary Supply registration agent] must validate the following in the ICN:</p> <ul style="list-style-type: none"> · the effective dates are in future [accept if 'yes'; reject if 'no'] · The AMSID Pair has been registered by a Supplier or VLP [accept if 'yes'; reject if 'no'] · AMSID and BMU are in the same GSP Group [accept if 'yes'; reject if 'no'] · AMSID is associated with at least one Boundary Point MSID [accept if 'yes'; reject if 'no'] · The associated Boundary Point MSIDs are registered within SVAA/other register [accept if 'yes'; reject if 'no'] · Do the AMSID - BP MSID relationships match what exists in SVAA/other register? [accept if 'yes'; reject if 'no']
Functional	P379-BR-13	<p>Notify SS of successful registration</p> <p>P379-BR3.3 The Secondary Supply registration agent must inform successful registration of Secondary Supply via AMSID to the Secondary Supplier via a formal notification.</p> <p>Requirement description</p> <p>[Option 1 & Option 2] Upon validation, if all validation against the rules from BR3.2 result in accept, then the Secondary Supply registration agent confirms successful registration of Secondary Supply to the Secondary Supplier via a formal notification (P0279 or similar)</p>
Functional	P379-BR-14	<p>Notify SS of unsuccessful registration</p> <p>P379-BR3.4 The Secondary Supply registration agent must inform unsuccessful registration of Secondary Supply via AMSID to the Secondary Supplier via a formal notification.</p> <p>Requirement description</p> <p>[Option 1 & Option 2] Upon validation, if any validation against the rules from BR3.2 result in reject, then the Secondary Supply registration agent confirms unsuccessful registration of Secondary Supply to the Secondary Supplier via a formal notification (P0280 or similar). There must be a clear reason for rejection that is communicated to the Secondary Supplier.</p>
Functional	P379-BR-15	<p>Records PS and its appointed HHDA</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR3.5 Secondary Supply registration agent records Primary Supplier and its appointed Half Hourly Data Aggregator (HHDA) of Boundary Point Meter via ECOES [or CSS] [SJ1] within [1WD]</p> <p>Requirement description [Option 1 & Option 2] Upon validating the ICN, the Secondary Supply registration agent identifies the Primary Supplier and their appointed HHDA of the Boundary Point MSID using ECOES [or CSS] and saves this information.</p> <p>[Option 1 & Option 2] Secondary Supply registration agent updates records within [1WD] following a Change of Agent (HHDA) at the MSID.</p> <p>[Option 2] Upon validating the ICN, the Secondary Supply registration agent identifies Primary Supplier's HHDC using ECOES [or CSS] and saves this information.</p> <p>[Option 2] Secondary Supply registration agent updates records within [1WD] following a Change of Agent (HHDC) at the MSID.</p>
Functional	P379-BR-16	<p>Supplier and asset relationships maintain live view</p> <p>P379-BR3.6 Supplier, Agent and asset relationships maintained by the Secondary Supply registration agent must reflect the live view in ECOES [or CSS]. Priority: Should Have</p> <p>Requirement Description [Option 1] Automation of interface between the Secondary Supply registration agent and ECOES [or CSS]. The SSRA should represent the latest relationships between Suppliers, MSIDs, AMSIDs and HHDA's.</p> <p>[Option 2] Automation of interface between the Secondary Supply registration agent and ECOES [or CSS]. The SSRA should represent the latest relationship between Suppliers, MSIDs, AMSIDs, HHDA's and HHDCs.</p>

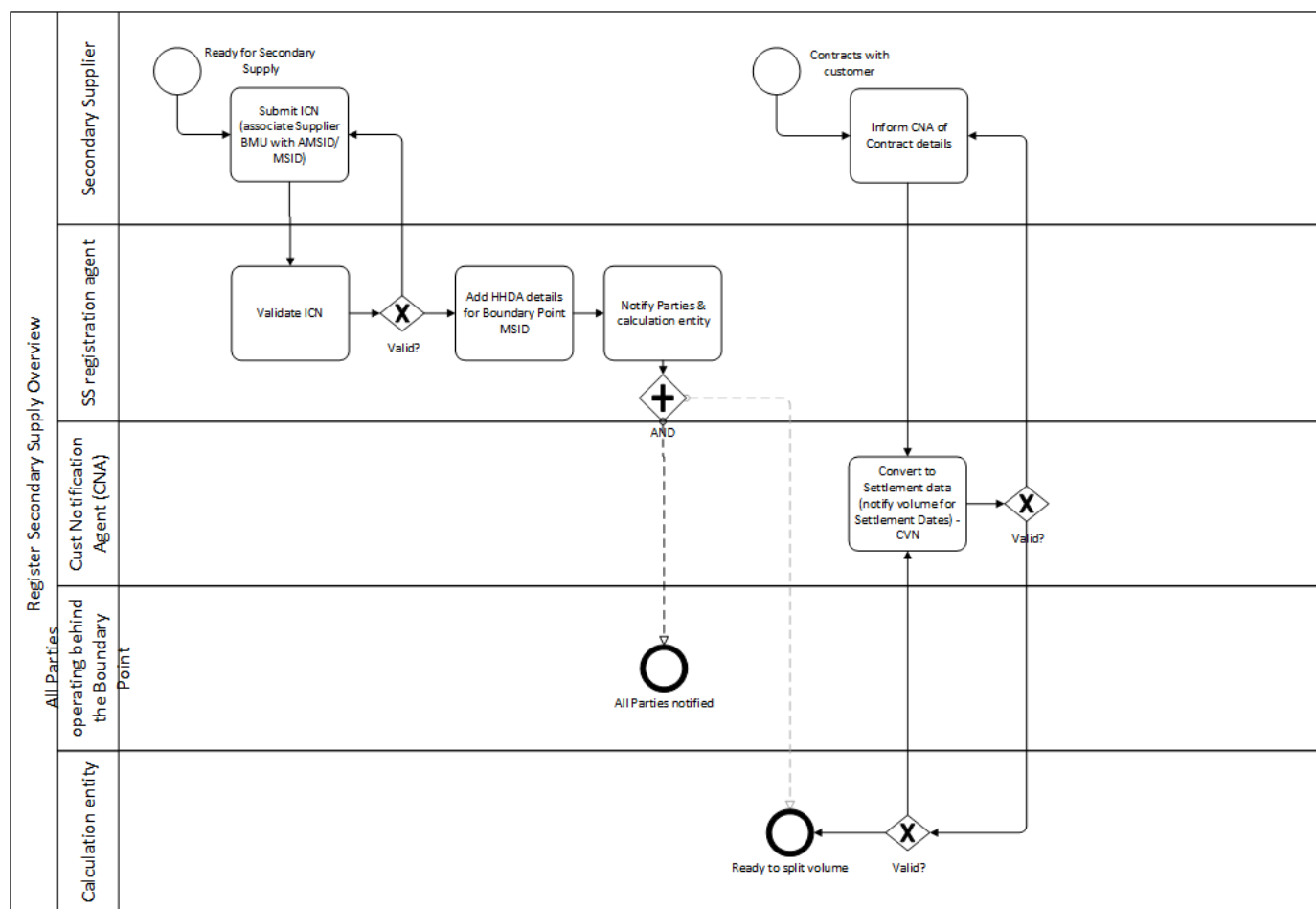
P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-17	Notify Primary Supplier of Secondary Supply P379-BR3.7 Secondary Supply registration agent notifies the Primary Supplier of registered Secondary Supply Requirement Description [Option 1 & Option 2] The Secondary Supply registration agent must notify the Primary Supplier of each associated Boundary Point MSID of Secondary Supply upon successful validation of the ICN. The notification includes the following data items: <ul style="list-style-type: none">- Secondary Supplier- Secondary Supplier BMU and asset relationship effective from date- Secondary Supplier BMU and asset relationship effective to date- Boundary Point MSID of Primary or other Supplier
Functional	P379-BR-18	Notify other Secondary Suppliers of Secondary Supply P379-BR3.9 Secondary Supply registration agent notifies all other Suppliers associated with the Boundary Point MSID Pair or the AMSID Pair registered for Secondary Supply Requirement Description [Option 1 & Option 2] The Secondary Supply registration agent must notify all other Parties (e.g. Suppliers or VLPs) associated with the MSID Pair or AMSID Pair registered for Secondary Supply upon receipt of the ICN.

15.1 P379-TXT-18 Register Secondary Supply

This section covers the requirements for registering Secondary Supply. The map below provides a brief overview of secondary supply registration. See section 3.4.5 for registering new AMSID Pairs.

P379 MULTIPLE SUPPLIERS BRD



16. Register non-Asset Secondary Supply

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-20	<p>SS informs CAN of its SS contract</p> <p>P379-BR4.1 Secondary Supplier informs the CNA of its contract</p> <p>Requirement Description</p> <p>[Option 1 & Option 2]: Upon contracting with the customer, the Secondary Supplier must inform the CNA of effective dates on which meter splitting will be applied, type of split (fixed/%/asset) and for which meters at least [1WD] before commencing supply.</p> <p>The following information must be provided:</p> <ol style="list-style-type: none"> 1. Effective From Date and Effective To Date of the period in which meter splitting is required. 2. Customer MSID / AMSID 3. Type of trade (fixed volume of Secondary Supply, percentage volume of Secondary Supply)

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-30	<p>SS informs PS HHDC of who its HHDA is</p> <p>P379-BR8.6 Secondary Supplier informs Primary Supplier HHDC of who its HHDA is (for existing DC --> DA process)</p> <p>[Option 2] Upon successful registration of Secondary Supply, the Secondary Supplier informs the Primary Supplier's HHDC of who the Secondary Supplier's HHDA is.</p>
Functional	P379-BR-21	<p>SS determines volumes to notify</p> <p>P379-BR4.2 Secondary Supplier determines volume to be notified according to contract</p> <p>[Option 1 Option 2] Upon agreeing a volume with a customer, the Secondary Supplier must inform the CNA[1] of volumes/percentages and their applicable settlement periods for conversion into Settlement details at least [1 hour] ahead of the start of the first Settlement Period the volumes apply to.</p> <p>The following information must be provided:</p> <ol style="list-style-type: none"> 1. For fixed volume trades: volume of energy allocated to Secondary Supplier per MSID / AMSID 2. For percentage volume trades: percentage of energy volume allocated to Secondary Supplier per MSID / AMSID

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-22	<p>CAN converts SS contract to Settlement info</p> <p>P379-BR4.3 CNA converts Secondary Supply contract details into Settlement details and provides to the calculation entity</p> <p>Requirement Description</p> <p>Depending on the proposed or alternative option the calculation entity will either be SVAA or the Primary Supplier's HHDC.</p> <p>[Option 1]: Upon receipt of volume information in requirement [P379-BR4.2] above, the CNA must determine the applicable Settlement Dates and Settlement Periods relevant to the Secondary Supply contract and provide this to Settlement (SVAA) at least [1 hour] ahead of the start of the first Settlement Period that the volumes apply to.</p> <p>[Option 2]: Upon receipt of volume information in requirement [P379-BR4.2] above, the CNA must determine the applicable Settlement Dates and Settlement Periods relevant to the Secondary Supply contract and provide this to the Primary Supplier's HHDC at least [1 hour] ahead of the start of the first Settlement Period that the volumes apply to.</p> <p>This is the Customer Volume Notification (CVN). The CVN comprises:</p> <ol style="list-style-type: none"> 1. The applicable Settlement Dates and Settlement Periods that fall within the Effective From and Effective To dates 2. Secondary Supplier 3. CNA 4. Customer MSID / AMSID 5. Contract volumes/percentages
Functional	P379-BR-23	<p>CAN notifies volumes for multiple SS</p> <p>P379-BR4.4 CNA can notify volumes on behalf of multiple Secondary Suppliers</p> <p>Requirement Description</p> <p>[Option 1 & Option 2]: A CNA must be able to notify volume or percentage based Secondary Supply volumes on behalf of multiple Secondary Suppliers for a single Boundary Point MSID or AMSID.</p>
Functional	P379-BR-24	<p>1 CNA per Boundary Point MSID Pair</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR4.5 Only one CNA can notify volumes on behalf of multiple Secondary Suppliers per Boundary Point MSID Pair.</p> <p>Requirement Description</p> <p>[Option 1 & Option 2]: The Secondary Supply registration agent must accept multiple associations between the Boundary Point MSID and Secondary Supplier's BMU for ICNs where each Secondary Supplier is using the same CNA as the others.</p> <p>Where a Secondary Supplier submits an ICN for an MSID using a different CNA, the Secondary Supply registration agent must trigger the change of Secondary Supplier process (as per existing business requirements). This process would result in the CNA for the MSID being replaced with another CNA. The old CNA would fail validations for submitted contract notifications.</p>
Functional	P379-BR-26	<p>instruct PS HHDA to provide BP vol</p> <p>P379-BR8.1 SVAA instructs Primary Supplier's HHDA to provide Boundary Point metered volumes.</p> <p>[Option 1 only] For all Boundary Point MSIDs related to asset based Secondary Supply, the SVAA will instruct the Primary Supplier's HHDA to provide metered volumes for the Boundary Point MSIDs associated with the Secondary Supplier's registered AMSIDs upon receipt of the ICN. The SVAA will instruct the Primary Supplier's HHDA via the D0354 data flow.</p>
Functional	P379-BR-27	<p>PS HHDA accepts/rejects instruction</p> <p>P379-BR8.2 Primary Supplier's HHDA accepts or rejects instruction</p> <p>[Option 1 only] The Primary Supplier's HHDA accepts or rejects instruction to provide metered volumes for the Boundary Point MSID using the existing D0355 / D0356 flows as applicable.</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-28	<p>SS notifies Calc Entity which HHDC will provide asset vol</p> <p>P379-BR8.3 Secondary Supplier notifies calculation entity which HHDC (Secondary Supplier or VLP appointed) will provide metered volumes for the AMSID Pair.</p> <p>[Option 1] Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must notify SVAA which Secondary Supplier HHDC will provide metered volumes for the AMSID for which duration.</p> <p>[Option 2] Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must notify the Primary Supplier's HHDC which Secondary Supplier HHDC will provide metered volumes for the AMSID for which duration.</p> <p>This will be a d-flow notification with the following data items: Secondary Supplier Secondary Supplier BMU AMSID Pair HHDC Effective From Date Effective To Date</p>
Functional	P379-BR-29	<p>SS instructs its HHDC to provide asset vol</p> <p>P379-BR8.5 Secondary Supplier instructs its appointed Half Hourly Data Collector (HHDC) to provide metered volumes for the AMSID</p> <p>Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must instruct the Secondary Supplier's HHDC to provide metered volumes for the duration of the contract using a new data flow materially similar to D0379, including a requirement to provide data to three decimal places.</p>

17. Appointments and Instructions

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-145	<p>SS must appoint MOA</p> <p>P379-BR7.3 Secondary Suppliers must appoint MOA or MOA Alternative, if not appointed already.</p> <p>Secondary Suppliers must appoint a Meter Operator Agent or Meter Operator Agent Alternative for each AMSID within AMSID Pair. The process must mirror existing appointment performed by Suppliers in line with BSCP514 Section 5.2.</p> <p>Re-use of P375-BR8</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-146	<p>VLP must Appoint MOA</p> <p>P379-BR7.1 MOA must install and maintain Code of Practice (COP) compliant Asset Metering System.</p> <p>The Secondary Supplier must provide its MOA with AMSIDs to be used for a given Asset. The MOA will install the Asset Metering System(s) on the network as agreed with the Secondary Supplier. Asset Metering System must conform to the COP11 requirements. Following meter installation, MOA should send information about the meter (AMS make and model, AMS IEC standard, Asset Meter Serial Number) to the Secondary Supplier.</p> <p>If asset Metering Equipment exists for the asset, the MOA must inform the Secondary Supplier as per P379-BR7.5</p> <p>Re-use of P375-BR6</p>
Functional	P379-BR-147	<p>MOA must install CoP11 Meters BR6</p> <p>MOA must install and maintain Code of Practice (COP) compliant Asset Metering System.</p> <p>Requirement Description</p> <p>Secondary Supplier must provide MOA with AMSIDs to be used for a given Asset. MOA will install the Asset Metering System(s) on the network as agreed with the Secondary Supplier. Asset Metering System must conform to the COP11 requirements. Following meter installation, MOA should send information about the meter (AMS make and model, AMS IEC standard, Asset Meter Serial Number) to the Secondary Supplier, using a new DTC flow (potentially established in P375).</p>
	P379-BR-156	<p>Use of existing AMSID Pair for Balancing Services</p> <p>P379-BR7.4 VLPs and Secondary Suppliers must use an asset's existing AMSID Pair if they are providing Balancing Services from an asset which already has a registered AMSID.</p> <p>[Option 1 & Option 2]</p> <p>If a VLP does not use an asset's AMSID, VLP Delivered volumes will be shared between all Suppliers (except a Secondary Supplier using an AMSID Pair) on a site in proportion to the volumes each Supplier is responsible for. To enable this to happen, the VLP's must use an AMSID if one has been registered for the asset they are using.</p>
	P379-BR-157	<p>MOA informs Party if asset already has asset metering</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR7.5 MOA must inform its Party that asset already has asset metering</p> <p>[Option 1 & Option 2]</p> <p>If a MOA identifies that an Asset they are attempting to install Metering Equipment for already has metering equipment, they must inform the Party they are working for that Asset Metering Equipment already exists. This supports requirement P379-BR7.4, enabling each Party to use existing AMSID Pairs.</p> <p>P379-BR7.5.1 A Secondary Supplier's MOA must inform the Secondary Supplier that an asset has an AMSID Pair. The Secondary Supplier must then follow the Change of Secondary Supplier process (P379-BR-140).</p> <p>P379-BR7.5.2 A VLP's MOA must inform the VLP that an asset has an AMSID Pair. The VLP must then follow the Change of Secondary Supplier process (P379-BR-140)</p>
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18. Obtain Metered Volumes

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-31	<p>instruct PS HHDA to provide BP vol</p> <p>P379-BR8.1 SVAA instructs Primary Supplier's HHDA to provide Boundary Point metered volumes.</p> <p>[Option 1 only] For all Boundary Point MSIDs related to asset based Secondary Supply, the SVAA will instruct the Primary Supplier's HHDA to provide metered volumes for the Boundary Point MSIDs associated with the Secondary Supplier's registered AMSIDs upon receipt of the ICN. The SVAA will instruct the Primary Supplier's HHDA via the D0354 data flow.</p>
Functional	P379-BR-40	<p>Calc Entity rejects conflicting notifications</p> <p>P379-BR9.4 Calculation entity rejects conflicting notifications</p> <p>Requirement description</p> <p>The Calculation Entity must reject any notifications which create a conflict between multiple Secondary Suppliers upon receipt</p> <p>P379-BR9.4.1 This means that where a CNA submits multiple notifications which add to more than 100%, the calculation entity must reject the notification which results in the total percentage exceeding 100%.</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-32	<p>PS HHDA accepts/rejects instruction P379-BR8.2 Primary Supplier's HHDA accepts or rejects instruction</p> <p>[Option 1 only] The Primary Supplier's HHDA accepts or rejects instruction to provide metered volumes for the Boundary Point MSID using the existing D0355 / D0356 flows as applicable.</p>
Functional	P379-BR-33	<p>SS notifies Calc Entity which HHDC will provide asset vol P379-BR8.3 Secondary Supplier notifies calculation entity which HHDC (Secondary Supplier or VLP appointed) will provide metered volumes for the AMSID Pair.</p> <p>[Option 1] Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must notify SVAA which Secondary Supplier HHDC will provide metered volumes for the AMSID for which duration.</p> <p>[Option 2] Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must notify the Primary Supplier's HHDC which Secondary Supplier HHDC will provide metered volumes for the AMSID for which duration.</p> <p>This will be a d-flow notification with the following data items: Secondary Supplier Secondary Supplier BMU AMSID Pair HHDC Effective From Date Effective To Date</p>
Functional	P379-BR-34	<p>SS instructs its HHDC to provide asset vol P379-BR8.5 Secondary Supplier instructs its appointed Half Hourly Data Collector (HHDC) to provide metered volumes for the AMSID</p> <p>Upon successful registration of Secondary Supply, for all AMSIDs in the ICN, the Secondary Supplier must instruct the Secondary Supplier's HHDC to provide metered volumes for the duration of the contract using a new data flow materially similar to D0379, including a requirement to provide data to three decimal places.</p>
Functional	P379-BR-35	<p>SS informs PS HHDC of who its HHDA is P379-BR8.6 Secondary Supplier informs Primary Supplier HHDC of who its HHDA is (for existing DC --> DA process)</p> <p>[Option 2] Upon successful registration of Secondary Supply, the Secondary Supplier informs the Primary Supplier's HHDC of who the Secondary Supplier's HHDA is. SSRA issues notification to HHDA 'appointing' them to the boundary MSID. This is not an appointment in the same sense as a normal Agent appointment, but provides the information the SS HHDA needs to process split meter data in respect of the boundary MSID.</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-36	<p>PS HHDC provides metered vol for Boundary Points</p> <p>P379-BR9.1 The Primary Supplier's HHDC provides metered volumes for all associated Boundary Points within [1WD] of the applicable Settlement Period[SJ1]</p> <p>Requirement description</p> <p>[Option 1 only] For all MSID Pairs involved in Secondary Supply, the Primary Supplier's HHDA must provide metered volumes for the Boundary Point to the SVAA via the D0385 [PF2] data flow.</p> <p>BR9.1a The Primary Supplier's HHDC must provide metered volumes for all associated Boundary Points to the Primary Supplier's HHDA within 1WD of the applicable Settlement Period</p>
Functional	P379-BR-37	<p>SS HHDC provides metered vol for AMSID Pairs</p> <p>P379-BR9.2 Secondary Supplier's HHDC provides metered volumes for each AMSID Pair to the calculation entity within [1WD] of the applicable Settlement Period.</p> <p>Requirement description</p> <p>[Option 1] The Secondary Supplier's HHDC must provide metered volumes for each AMSID Pair related to the applicable Boundary Point MSID to the SVAA within [1 WD] of the applicable Settlement Period (D0379 or similar).</p> <p>[Option 2] The Secondary Supplier's HHDC must provide metered volumes for each AMSID related to the applicable Boundary Point MSID to the Primary Supplier's HHDC within [1 WD] of the applicable Settlement Period (D0379 or similar).</p> <p>BR9.2A The Secondary Supplier's HHDC provides default volumes if AMSID Pair metered volumes cannot be obtained within 1WD of the applicable Settlement Period</p> <p>In the event of a metering error submitted AMSID volumes should default to 0. For the avoidance of doubt the Primary Supplier's HHDA should continue to submit default values for MSID reading in the case of metering faults as per the standard meter to settlement process, including using estimates if applicable.</p>
Functional	P379-BR-38	<p>SS HHDC Provides default vol</p> <p>P379-BR9.2A The Secondary Supplier's HHDC provides default volumes if AMSID Pair metered volumes cannot be obtained within 1WD of the applicable Settlement Period</p> <p>In the event of a metering error submitted AMSID volumes should default to 0. For the avoidance of doubt the Primary Supplier's HHDA should continue to submit default values for MSID reading in the case of metering faults as per the standard meter to settlement process, including using estimates if applicable.</p>

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-39	<p>CNA provides updated CVNs for each SS at BP</p> <p>P379-BR9.3 CNA provides updated CVNs for each Secondary Supplier at each Boundary Point to the calculation entity upto 1 hour before start of applicable Settlement Period.</p> <p>Requirement description</p> <p>[Option 1] For fixed or percentage based Secondary Supply, the CNA will provide the latest CVN for the duration of Secondary Supply to the SVAA [1 hour] ahead of trading Gate Closure of the earliest Settlement Period in that notification.</p> <p>[Option 2] For fixed or percentage based Secondary Supply, the CNA will provide the latest CVN for the duration of Secondary Supply to the Primary Supplier's HHDC [1 hour] ahead of trading Gate Closure of the earliest Settlement Period in that notification.</p> <p>Requirements for submission [both Options]</p> <p>A single CNA will submit all notifications in a settlement period (j) on behalf of all Secondary Suppliers utilising CVNs in that settlement period. Submitted CVNs can be either total volume or percentage based.</p> <p>For percentage based CVNs, each CVN will be submitted with a Secondary Supplier ID, applicable settlement dates and settlement periods, and a percentage between 0 and 1 to be assigned to the Secondary Supplier. The sum of all CVNs for any given Settlement period must not exceed 1.</p> <p>Secondary Supplier percentage CVN volumes are represented by $SSPCVN_{Znj}$</p> <p>For fixed volume CVNs, each CVN will be submitted with a Secondary Supplier ID, applicable settlement dates and settlement periods, and a volume. The calculation entity will apply the volume adjustments to the Primary Supplier's Scaled Metered volume (BMSSV) to give Boundary Meter System Assigned Volume (BMSAV), until BMSSV reduces to 0. It will apply the CVN adjustments in the order in which they were received.</p> <p>Secondary supplier fixed volume CVN volumes are represented by $SSFCVN_{Znj}$</p>
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19. Meter Splitting / Calcs

Topic	Ref. no	Requirement/Rule
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P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-49	<p>Notify Parties of their meter split</p> <p>P379-BR10.6 The calculation entity will notify Parties of their share of meter split within 1WD of completion of the meter split calculation.</p> <p>[Option 1] The SVAA will notify the Primary and Secondary Supplier(s) of their share of the meter split within 1WD (relevant output of BR9.1).</p> <p>[Option 2] The Primary Supplier's HHDC will notify the Primary and Secondary Supplier(s) of their share of the meter split within 1WD (relevant output of BR9.1).</p>
Functional	P379-BR-50	<p>Calculate share of Supplier Delivered vol</p> <p>P379-BR10.7 SVAA will calculate the share for each Supplier of Delivered Volumes in relation to Balancing Services provided by VLPs behind the Boundary Point.</p> <p>[Option 1] To ensure each Supplier's imbalance position is not affected as a result of Delivered Volumes submitted by VLPs, the SVAA calculates each Supplier's proportion of the Delivered Volumes. This could be for MSID Pairs that are participating in Balancing Services (introduced by TERRE) or AMSID Pairs that are participating in Balancing Services (introduced by P375).</p> <p>[Option 2] The Primary Supplier's HHDC must provide to SVAA disaggregated (MSID Pair and AMSID Pair) volumes by Supplier for each MSID Pair where a Secondary Supplier and VLP are operating.</p> <p>Depending on what is happening behind the Boundary Point, this calculation will need to be updated as per the decision table provided under section [xref] 'Calculation Scenarios'.</p>
Functional	P379-BR-51	<p>Calculation timescales</p> <p>P379-BR10.8 The Calculation entity must run calculations within 2 WD of the applicable Settlement Period and within 8WD of the applicable Settlement Period</p> <p>There will be two Secondary Supplier volume splitting calculation runs, the first prior to the II settlement run and the second prior to the SF settlement run. The second calculation is the last chance to submit data for inclusion in the calculation.</p>
Functional	P379-BR-52	<p>Calculate each Supplier's BMU Allocated Demand Vol</p> <p>P379-BR11.1 SVAA uses the categorised losses (BMMCL) and non-losses (BMMC) metered volumes to calculate each Supplier's BM Unit Allocated Demand Volume [as per the existing SVA Volume Allocation Run timescales]</p> <p>Existing process</p>
	P379-BR-151	<p>Scale behind the meter volumes</p> <p>P379-BR10.1z Scale behind the meter volumes for each Supplier</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>These behind the meter readings will be scaled based on the boundary meter readings to ensure total amount assigned to all Suppliers does not exceed boundary point meter readings. The scaled volumes will be used as inputs for calculating each Supplier's share of the Boundary Point MSID volumes.</p> <p>The scaling is to fairly assign each Supplier a proportion of the boundary meter volume, as the sum of the behind the meter volumes may exceed the boundary meter recorded volume where there is on-site consumption and generation.</p> <p>The scaling calculation uses each supplier's share of the behind the meter allocated volume ($SBTMAV_{ZKj}$ for the Primary Supplier (Z) and $SBTMAV_{ZnKj}$ for each Secondary Supplier (Zn)) and the Boundary Point Supplier Meter Register Consumption ($SMRC_{ZaKj}$). The outputs will be the Boundary Metering System Scaled Volume for each Supplier (Z or Zn) ($BMSSV_{ZKj}$ or $BMSSV_{ZnKj}$). $BMSSV$ is calculated for each of Import and Export, resulting in a $BMSSV^I$ and $BMSSV^E$ volume for each Supplier and Secondary Supplier.</p> <p>For the Primary Supplier, their Boundary Metering System Scaled Volume is calculated as $BMSSV_{ZKj} = (SBTMAV_{ZKj} / (SBTMAV_{ZKj} + \sum^n SBTMAV_{ZnKj})) \times SMRC_{ZaKj}$. For the avoidance of doubt, $\sum^n SBTMAV_{ZnKj}$ represents the sum over all Secondary Suppliers (Zn) of each Secondary Supplier's behind the meter allocated volume. This calculation is performed for each of Import and Export volumes to give each Primary supplier two $BMSSV$ volumes.</p> <p>Each Secondary Supplier's $BMSSV_{ZnKj}$ will consist of their scaled behind the meter allocated volume, calculated as $BMSSV_{ZnKj} = SBTMAV_{ZnKj} / (SBTMAV_{ZKj} + \sum^n SBTMAV_{ZnKj}) \times SMRC_{ZaKj}$</p>
	P379-BR-152	<p>Calculate behind the meter volume</p> <p>P379-BR10.1a calculate behind the meter volumes for each Supplier</p> <p>Calculation entity will determine the behind the meter volumes for each Supplier based on AMSID import/export meter readings and boundary import/export meter readings.</p> <p>The calculation entity will calculate the behind the meter volumes for each Party operating behind at a Premises. The outputs from this calculation will be used as inputs for the scaling calculation (BR10.1z)</p> <p>Behind the meter calculation methodology will use notation derived from BSC Section S, in particular provisions relating to Shared SVA Metering Arrangements set out in BSCP550.</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>The volume submitted by the Primary Supplier's (Z) HHDC for Boundary Metering systems(K), Supplier Meter Register Consumption ($SMRC_{ZaKj}$) (as the splitting calculation is performed for each Settlement Period, $SHMMC_{ZaKj} = SMRC_{ZaKj}$)</p> <p>The volume submitted by the Secondary Supplier's (Zn) HHDC for Asset Metering System (Kn), Secondary Supplier's Metering System Metered Consumption ($SSMMC_{ZnKnj}$) (NB. this is a variation on Secondary Supplier's Metering System Metered Consumption ($SSMMC_{ZnanKnj}$) wherein the SSMMC is linked to a specific HHDA 'an'. The specific HHDA 'an' is not relevant for this application of the SSMMC, and has been removed from the subscript).</p> <p>The behind the meter volume assigned to a Primary Supplier (Z) for a Boundary Metering System (K) is the Supplier Behind The Meter Allocated Volume ($SBTMAV_{ZKj}$). The behind the meter volume assigned to each Secondary Supplier (Zn) is $SBTMAV_{ZnKj}$</p> <p>The scaled Import and Export Active Energy volumes assigned to each Supplier 'n'</p> <p>As Import and Export Active Energy must be distinguished for the calculation, superscript I will be used for data relating to an import metering system and superscript E will be used for data relating to an export metering system.</p> <p>Scaling Step 1 - Determine each Supplier's behind the meter boundary Import and Export volumes</p> <p>For each Secondary Supplier (Zn) with Asset Metering Systems behind a Boundary Point, their 'behind the meter' Import active energy volume is the sum over all of their Import Asset Metering Systems located behind that boundary point, $\sum_{Kn} SSMMC^I_{ZnKnj}$ and for export the sum over all of their Export Asset Metering Systems located behind that boundary point $\sum_{Kn} SSMMC^E_{ZnKnj}$</p> <p>For the Primary Supplier (Z), their 'behind the meter' energy is not metered, and so must be derived as the difference between the Secondary Supplier volumes and the Boundary Meter Metered Volumes;</p>
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P379 MULTIPLE SUPPLIERS BRD

		<p>Where the Supplier Meter Register Consumption (Import) is greater than the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I > \sum_{Kn} SSMMC_{ZnKnj}^I$) and the Supplier Meter Register Consumption (Export) is greater than the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E > \sum_{Kn} SSMMC_{ZnKnj}^E$) the Primary Supplier's Behind the Meter Allocated Volume for imports is Supplier Meter Register Consumption (Import) minus the sum of all Secondary Supplier Import Asset Metering System Volumes ($SBTMAV_{ZKj}^I = SMRC_{ZaKj}^I - \sum_{Kn} SSMMC_{ZnKnj}^I$).</p> <p>Where the Supplier Meter Register Consumption (Import) is greater than the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I > \sum_{Kn} SSMMC_{ZnKnj}^I$) and the Supplier Meter Register Consumption (Export) is less than or equal to the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E \leq \sum_{Kn} SSMMC_{ZnKnj}^E$) the Primary Supplier's Behind the Meter Allocated Volume for imports is Supplier Meter Register Consumption (Import) minus the sum of all Secondary Supplier Import Asset Metering System Volumes plus the sum of all Secondary Supplier Export Asset Metering System Volumes minus the Supplier Meter Register Consumption (Export) ($SBTMAV_{ZKj}^I = SMRC_{ZaKj}^I - \sum_{Kn} SSMMC_{ZnKnj}^I + SMRC_{ZaKj}^E - \sum_{Kn} SSMMC_{ZnKnj}^E$).</p> <p>Where the Supplier Meter Register Consumption (Import) is less than or equal to the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I \leq \sum_{Kn} SSMMC_{ZnKnj}^I$) and the Supplier Meter Register Consumption (Export) is less than the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E < \sum_{Kn} SSMMC_{ZnKnj}^E$) the Primary Supplier's Behind the Meter Allocated Volume for imports is the sum of all Secondary Supplier Export Asset Metering System Volumes minus Supplier Meter Register Consumption (Export) ($SBTMAV_{ZKj}^I = \sum_{Kn} SSMMC_{ZnKnj}^E - SMRC_{ZaKj}^E$).</p> <p>Where the Supplier Meter Register Consumption (Import) is less than or equal to the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I \leq \sum_{Kn} SSMMC_{ZnKnj}^I$) and the Supplier Meter Register Consumption (Export) is greater than or equal to the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E \geq \sum_{Kn} SSMMC_{ZnKnj}^E$) the Primary Supplier's Behind the Meter Allocated Volume for imports is zero ($SBTMAV_{ZKj}^I = 0$).</p> <p>The calculations for Primary Supplier Export volume shares are the inverse of the Import calculations;</p>
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P379 MULTIPLE SUPPLIERS BRD

		<p>Where the Supplier Meter Register Consumption (Export) is greater than the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E > \sum_{Kn} SSMMC_{ZnKnj}^E$) and the Supplier Meter Register Consumption (Import) is greater than the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I > \sum_{Kn} SSMMC_{ZnKnj}^I$) the Primary Supplier's Behind the Meter Allocated Volume for exports is Supplier Meter Register Consumption (Export) minus the sum of all Secondary Supplier Export Asset Metering System Volumes ($SBTMAV_{ZKj}^E = SMRC_{ZaKj}^E - \sum_{Kn} SSMMC_{ZnKnj}^E$).</p> <p>Where the Supplier Meter Register Consumption (Export) is greater than the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E > \sum_{Kn} SSMMC_{ZnKnj}^E$) and the Supplier Meter Register Consumption (Import) is less than or equal to the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I \leq \sum_{Kn} SSMMC_{ZnKnj}^I$) the Primary Supplier's Behind the Meter Allocated Volume for exports is Supplier Meter Register Consumption (Export) minus the sum of all Secondary Supplier Export Asset Metering System Volumes plus the sum of all Secondary Supplier Import Asset Metering System Volumes minus the Supplier Meter Register Consumption (Import) ($SBTMAV_{ZKj}^E = SMRC_{ZaKj}^E - \sum_{Kn} SSMMC_{ZnKnj}^E + SMRC_{ZaKj}^I - \sum_{Kn} SSMMC_{ZnKnj}^I$).</p> <p>Where the Supplier Meter Register Consumption (Export) is less than or equal to the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E \leq \sum_{Kn} SSMMC_{ZnKnj}^E$) and the Supplier Meter Register Consumption (Import) is less than the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I < \sum_{Kn} SSMMC_{ZnKnj}^I$) the Primary Supplier's Behind the Meter Allocated Volume for exports is the sum of all Secondary Supplier Import Asset Metering System Volumes minus Supplier Meter Register Consumption (Import) ($SBTMAV_{ZKj}^E = \sum_{Kn} SSMMC_{ZnKnj}^I - SMRC_{ZaKj}^I$).</p> <p>Where the Supplier Meter Register Consumption (Export) is less than or equal to the sum over all Secondary Supplier Export Asset Metering System Volumes ($SMRC_{ZaKj}^E \leq \sum_{Kn} SSMMC_{ZnKnj}^E$) and the Supplier Meter Register Consumption (Import) is greater than or equal to the sum over all Secondary Supplier Import Asset Metering System Volumes ($SMRC_{ZaKj}^I \geq \sum_{Kn} SSMMC_{ZnKnj}^I$) the Primary Supplier's Behind the Meter Allocated Volume for exports is zero ($SBTMAV_{ZKj}^E = 0$).</p>
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P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-41	<p>Split Boundary Point MSID meter reading between Suppliers</p> <p>P379-BR10.1 Split the Boundary Point MSID meter reading between Suppliers within 2WD of the applicable Settlement Period</p> <p>[Option 1] The SVAA splits the Boundary Point MSID Pair meter reading between Suppliers.</p> <p>[Option 2] The Primary Supplier's HHDC splits the Boundary Point MSID meter reading between Suppliers.</p> <p>Where there are multiple Suppliers behind an AMSID, the AMSID Pair volume is split. AMSID Pair volume takes priority with the remaining volume, if any, split as per the submitted CVN.</p> <p>Boundary point MSID reading: VMMC (Metering System Metered Consumption)(provided by the HHDA) Supplier's share / (Asset Meter Reading): SMMC (Supplier's Metering System Metered Consumption) (provided by the HHDC)</p>
Functional	P379-BR-42	<p>xx calculate and scale behind the meter volumes</p> <p>P379-BR10.1a calculate and scale behind the meter volumes for each Supplier</p> <p>Placeholder BR – Calculation entity will determine the behind the meter volumes for each Supplier based on AMSID import/export meter readings and boundary import/export meter readings.</p> <p>These behind the meter readings will be scaled based on the boundary meter readings to ensure total amount assigned to all Suppliers does not exceed boundary point meter readings. The scaled volumes will be used as inputs for calculating each Supplier's share of the Boundary Point MSID volumes.</p> <p>Methodology to be codified based on '379 calculator v0.3.xlsx' available from ELEXON on request.</p>
Functional	P379-BR-43	<p>Calculate PS share of Boundary Point meter</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR10.1b Calculate the Primary Supplier's share of the Boundary Point MSID</p> <p>[Option 1 & Option 2]</p> <p>MSID Pair volumes are represented as VMMC and AMSID Pair volumes are represented as SMMC</p> <p>If CVN relates to fixed volume and $?SMMC + CVN = VMMC$ then $VMMC = VMMC - ?SMMC$ (behind the Meter AMSID Pairs of Secondary Supplier)) – fixed CVN</p> <p>If CVN relates to fixed volume and $?SMMC + CVN > VMMC$ then $VMMC = ?SMMC$</p> <p>If CVN relates to a percentage volume then $VMMC = (VMMC - ?SMMC) * (1 - \%CVN)$</p> <p>BR10.1a – step 1 (sum AMSID volumes) If there are one or more AMSIDs associated with the Boundary Point MSID and registered by Secondary Supplier(s), sum the metered volumes of these AMSIDs: $?KJ SMMCZaKJj$</p> <p>BR10.1a – step 2 (subtract from BP MSID volume) Subtract the sum in step 1 from the Boundary Point MSID volume: $VMMCZaKJj$ (MSID) - $?KJ SMMCZaKJj$ (AMSID)</p> <p>BR9.1a – step 3 (apply fixed CVN) If CVNs have been submitted and are of the type fixed: for each fixed CVN, subtract the fixed CVN from the value in step 2. The Primary Supplier's metered volume must not be less than zero.</p> <p>BR9.1a – step 4 (apply % CVN) If CVNs have been submitted and are of the type %: for each % CVN: (i) Subtract the % of the CVN from 1 (ii) Multiply the value in step 2 by the value in step 4 (i) and add it to the original value from step 2</p> <p>The above calculation will need to take into consideration AMSID Pair volumes from a VLP if there is a VLP operating behind the Boundary Point Meter, either using the same AMSID Pair as the Secondary Supplier, or via a separate AMSID Pair. See section 3.4.10 'Calculation scenarios'.</p> <p>Where there are multiple Suppliers behind an AMSID, the AMSID Pair volume becomes VMMC and the asset behind the AMSID Pair becomes the SMMC. The AMSID volumes are determined separately, and do not affect the splitting of the MSID volumes.</p> <p>For the Primary Supplier, their Boundary Metering System Assigned Volume is calculated as $BMSAV_{zKj} = BMSSV_{zKj} - CVN$ volumes, for each of Import and Export</p>
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P379 MULTIPLE SUPPLIERS BRD

		For each Secondary Supplier, their $BMMSAV_{ZnKj} = BMSSV_{ZnKj} + CVN$ volumes, for each of Import and Export
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P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-44	<p>Calculate SS share of Boundary Point meter</p> <p>P379-BR10.1c Calculate the Secondary Supplier's share of the Boundary Point MSID</p> <p>[Option 1 & Option 2]</p> <p>MSID Pair volumes are represented as VMMC and AMSID Pair volumes are represented as SMMC</p> <p>If CVN relates to fixed volume and $?SMMC + CVN = VMMC$ then $SMMC = ?SMMC$ (behind the meter assets for a Secondary Supplier) + fixed CVN</p> <p>If CVN related to fixed volume and $?SMMC + CVN > VMMC$ then $SMMC = VMMC$</p> <p>If CVN relates to a percentage volume then $SMMC = ?SMMC$ (behind the meter assets for a Secondary Supplier) + $?SMMC$ (behind the meter assets for a Secondary Supplier) * %CVN</p> <p>$SMMC = ?SMMC$ (behind the meter assets for a Secondary Supplier) + fixed CVN or $?SMMC * \%CVN$</p> <p>Note that following a meter splitting calculation where a %CVN is applied, the result must not exceed AMSID Pair or MSID Pair metered volume.</p> <p>BR10.1a – step 1 (sum AMSID volumes) If there are one or more AMSIDs associated with the Boundary Point MSID and registered by Secondary Supplier(s), sum the metered volumes of these AMSIDs: $?KJ SMMCZaKJj$ (AMSID)</p> <p>BR10.1b – step 2 (apply fixed CVN) If CVNs have been submitted and are of the type fixed: for each fixed CVN, add the fixed CVN from the value in step 2. The Secondary Supplier's metered volume must not be greater than the Boundary Point MSID's metered volume.</p> <p>BR10.1b – step 3 (apply % CVN) If CVNs have been submitted and are of the type %: for each %CVN, multiply the value in BR10.1a – step 1 by the % CVN and add it to the original value from step 1.</p> <p>The above calculation will need to take into consideration AMSID Pair volumes from a VLP if there is a VLP operating behind the Boundary Point Meter, either using the same AMSID Pair as the Secondary Supplier, or via a separate AMSID Pair. See section 3.4.10 'Calculation scenarios'.</p> <p>Where there are multiple Suppliers behind an AMSID, the AMSID Pair volume becomes VMMC and the asset behind the AMSID Pair becomes the SMMC.</p> <p>Where a CNA submits fixed volumes from more than one Secondary Suppliers and those volumes exceed the MSID metered volume, the calculation entity must assign</p>
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P379 MULTIPLE SUPPLIERS BRD

		volumes to each Secondary Supplier in the order that the CVNs were received until there is no more volume to allocate.[SJ1] [PF2]
Functional	P379-BR-45	<p>Sum of assigned vol must not exceed BP meter reading</p> <p>P379-BR10.2 The sum of the assigned Secondary Supply volumes must not exceed the Boundary Point MSID Pair (or AMSID Pair if this applies to behind the asset meter) metered volume, once any asset volumes have been removed.[SJ3]</p> <p>If AMSID metered volumes exceed MSID metered volumes (for import/export) the calculation entity must [assign any excess volume as virtual volumes to the Secondary Supplier OR scale down the Secondary Supplier's allocated volume in the proportion of their share of behind the meter volumes].[PF4]</p> <p>Validation calculation;</p> $\text{BMSAV}^{\text{E}}_{\text{ZKj}} + \sum \text{Zn} \text{BMSAV}^{\text{E}}_{\text{ZnKj}} = \text{SMRC}^{\text{E}}_{\text{ZaKj}}$ $\text{BMSAV}^{\text{I}}_{\text{ZKj}} + \sum \text{Zn} \text{BMSAV}^{\text{I}}_{\text{ZnKj}} = \text{SMRC}^{\text{I}}_{\text{ZaKj}}$
Functional	P379-BR-46	<p>Determine CCC ID</p> <p>P379-BR10.3 The calculation entity determines the CCC ID for the SMMC post-split</p> <p>Requirement Description</p> <p>Metered Data for AMSID Pairs submitted by HHDC will not have been allocated to a CCC. The calculation entity will need to allocate the correct CCC ID, based on:</p> <ul style="list-style-type: none"> Whether the Asset MSID is Import or Export Whether the Asset Meter reading is Actual or Estimated <p>[Option 1] SVAA will allocate the CCC ID to the metered data for AMSID Pairs</p> <p>[Option 2] The Primary Supplier's HHDC will allocate the CCC ID to the metered data for AMSID Pairs</p> <p>Re-use of P375-BR31</p> <p>CCC IDs can be found in BSC Section X-2</p>

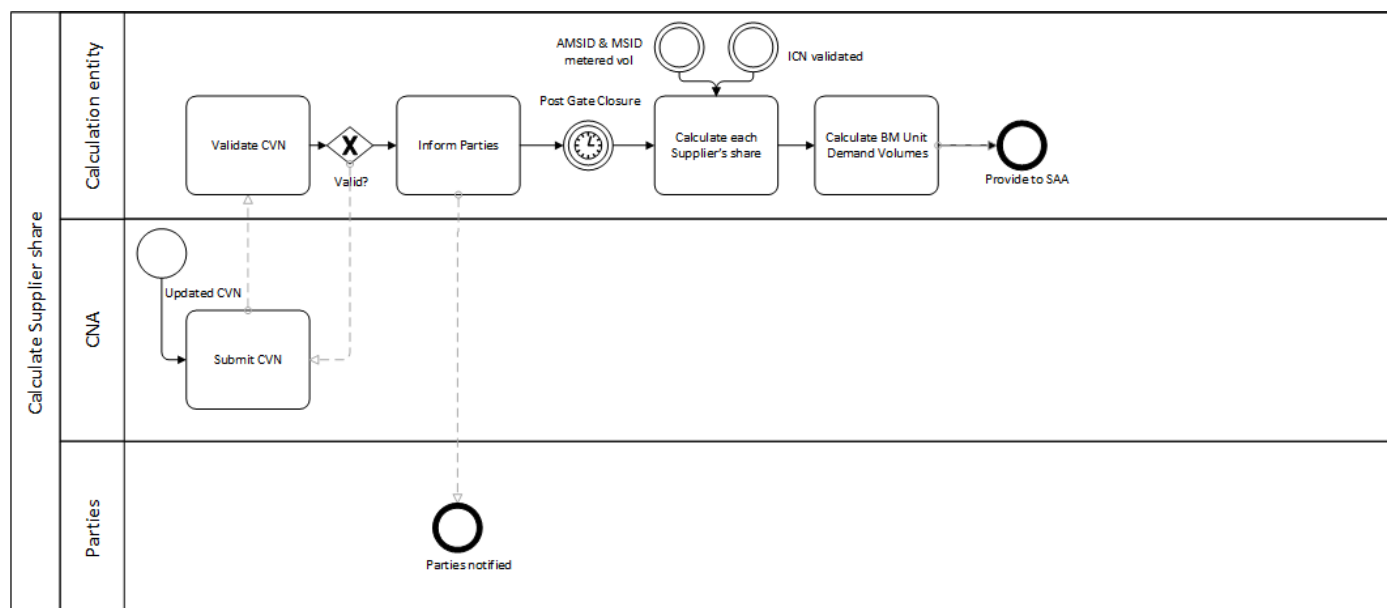
P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-47	<p>Categorise metered vol into ABMMMC</p> <p>P379-BR10.4 The calculation entity must categorise Metered Volume data sent by HHDC into BM Unit's Metering System Metered Consumption (ABMMMC).</p> <p>For each AMSID, SVAA will use the Metered Volume data provided by HHDC, as well as LLFC and CCC Id to group the Metered Volume data into Secondary BM Unit's Metering System Metered Consumption.</p> <p>[Option 1] SVAA will categorise the metered volume data to create ABMMMC [Option 2] The Primary Supplier's HHDC will categorise the metered volume data to create ABMMMC</p>
Functional	P379-BR-48	<p>Separate ABMMMC into losses and non losses</p> <p>P379-BR10.5 The calculation entity must separate the ABMMC value into losses (BMMCL) and non-losses (BMMC)</p> <p>For each AMSID, SVAA will use the Metered Volume data provided by HHDC, as well as LLFC and CCC Id to group the Metered Volume data into Secondary BM Unit's Metering System Metered Consumption.</p> <p>[Option 1] SVAA will separate the ABMMC value into losses (BMMCL) and non-losses (BMMC) [Option 2] The Primary Supplier's HHDC will separate the ABMMC value into losses (BMMCL) and non-losses (BMMC) and provide this to SVAA within XWD of receiving the meter split.</p> <p>BMMC and BMMCL will feed into the standard CLOSS and C calculation carried out by SVAA that aggregates the losses and non-losses by BMU and Settlement Period.</p>

19.1 P379-TXT-20 Split Boundary Point meter readings

This section contains requirements to calculation the share of each Supplier. The map below provides a brief overview of the calculation process.

P379 MULTIPLE SUPPLIERS BRD



19.2 P379-TXT-9 Calculation Scenarios

The following decision table shows the calculation approach to splitting metered volumes depending on the scenario. The scenarios take into consideration P344 and P375 solutions.

If there is a Secondary Supplier operating behind the Boundary Point Meter, and its volumes are not isolated by an AMSID, the Secondary Supplier will be allocated a share of any Delivered Volumes relating to Balancing Services at the Boundary Point meter, provided by a VLP. Note that Delivered volumes are allocated to Suppliers by the SVAA.

Secondary Supply?	SS AMSID?	CVN?	VLP?	VLP AMSID?	PS calc approach	AMSID SS calc approach	CVN SS calc approach
Yes	No	No	No	No	No change	n/a	
Yes	No	Yes – fixed	No	No	MSID - CVN	n/a	CVN at MSID
Yes	No	Yes – fixed	Yes	No	MSID – CVN VLP Delivered Volumes at BP are shared proportionally amongst Suppliers	n/a	CVN at MSID VLP Delivered Volumes at BP are shared proportionally amongst Suppliers

P379 MULTIPLE SUPPLIERS BRD

Yes	No	Yes – fixed	Yes	Yes	MSID – AMSID - CVN	n/a	CVN at MSID
Yes	No	Yes - %	No	No	MSID * (1- CVN)	n/a	MSID * CVN
Yes	No	Yes - %	Yes	No	MSID * (1- CVN) VLP Delivered Volumes at BP are shared amongst Suppliers using % CVN	n/a	MSID * CVN VLP Delivered Volumes at BP are shared amongst Suppliers using % CVN
Yes	No	Yes - %	Yes	Yes	MSID * (1- CVN) VLP Delivered Volumes at BP are shared amongst Suppliers using % CVN	n/a	MSID * CVN VLP Delivered Volumes at BP are shared amongst Suppliers using % CVN
Yes	Yes	No	No	No	MSID – AMSID	AMSID	n/a
Yes	Yes	No	Yes	No	MSID – AMSID VLP Delivered Volumes at BP are shared proportionally amongst Suppliers	AMSID VLP Delivered Volumes at BP are shared proportionally amongst Suppliers	n/a
Yes	Yes	No	Yes	Yes – same as SS	MSID – AMSID	AMSID	n/a

P379 MULTIPLE SUPPLIERS BRD

					VLP Delivered Volumes at AMSID go to SS		
Yes	Yes	No	Yes	Yes – diff to SS	MSID – SS AMSID – VLP AMSID VLP Delivered Volumes at AMSID go to PS	AMSID	n/a
Yes	Yes	Yes - fixed	No	No	MSID – AMSID – CVN	AMSID	CVN
Yes	Yes	Yes – fixed	Yes	No	MSID – AMSID – CVN VLP Delivered Volumes at BP are shared proportionally amongst PS and CVN SS	AMSID	CVN VLP Delivered Volumes at BP are shared proportionally amongst PS and CVN SS
Yes	Yes	Yes – fixed	Yes	Yes – same as SS	MSID – SS AMSID – VLP AMSID - CVN VLP Delivered Volumes at AMSID go to SS	AMSID VLP Delivered Volumes at AMSID go to SS	CVN
Yes	Yes	Yes – fixed	Yes	Yes – diff to SS	MSID – SS AMSID – VLP AMSID - CVN	AMSID	CVN

P379 MULTIPLE SUPPLIERS BRD

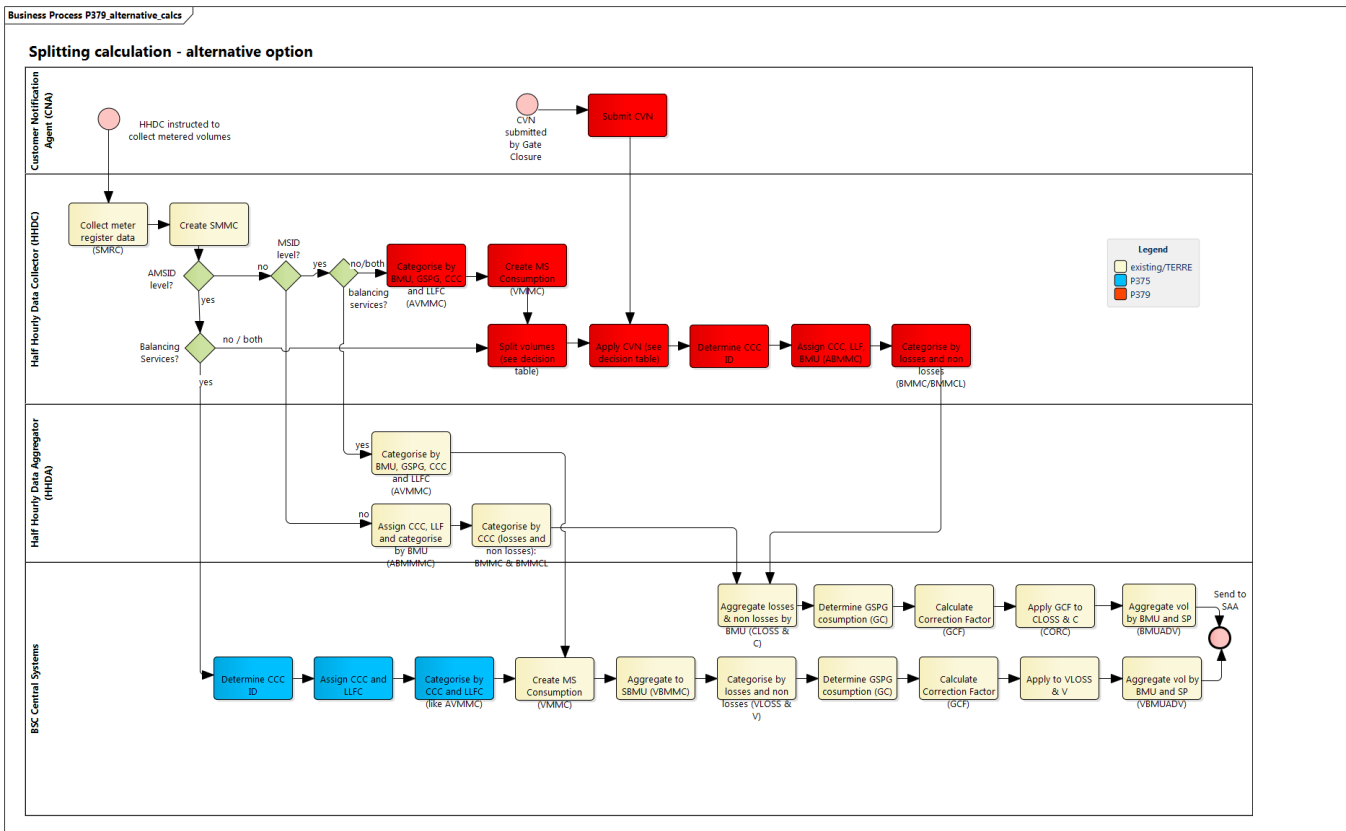
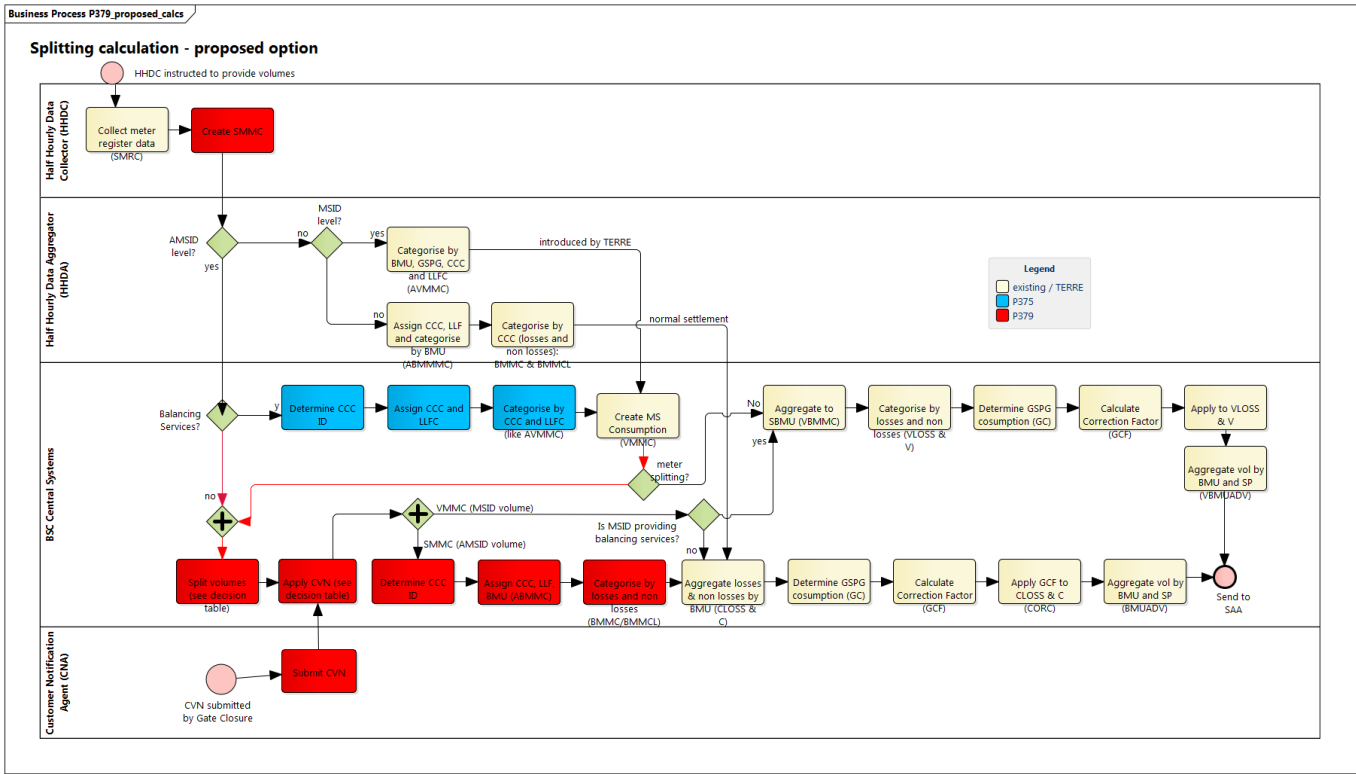
					VLP Delivered Volumes at AMSID go to PS		VLP Delivered Volumes at AMSID go to PS
Yes	Yes	Yes - %	No	No	MSID * (1- CVN)	AMSID	MSID * CVN
Yes	Yes	Yes - %	Yes	Yes – same as SS	MSID – SS AMSID – (remaining MSID * (1- CVN)) VLP Delivered Volumes at AMSID go to SS	AMSID VLP Delivered Volumes at AMSID go to SS	MSID * CVN
Yes	Yes	Yes - %	Yes	Yes – diff to SS	MSID – SS AMSID – VLP AMSID - (remaining MSID * (1- CVN)) VLP Delivered Volumes at AMSID go to PS	AMSID	Remaining MSID * CVN[PF1]

[PF1]PF to check this table against calculation scenarios – ensuring all are accounted for.

19.3 P379-TXT-21 Calculation Scenarios and related changes

The following flow charts following the table illustrate how the P379 meter splitting calculations fit into the calculations for existing/approved changes (e.g. P344) and those required by changes in flight (P375). There is a flowchart for the proposed and alternative options.

P379 MULTIPLE SUPPLIERS BRD



P379 MULTIPLE SUPPLIERS BRD

20. Exceptions

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-53	SVAA will manage exceptions as required. P379-BR15.1 SVAA will manage exceptions as required. [Option 1] SVAA will manage exceptions in scenarios such as the following by liaising with Parties and ELEXON as required: a) Primary Suppliers' HHDA rejects instruction to provide metered volumes b) AMSID / MSID Pair Metered volumes do not arrive when expected c) CVNs do not arrive when expected d) Validation fails for files and notifications
Functional	P379-BR-54	PS HHDC will manage exceptions as required. P379-BR15.2 Primary Supplier's HHDC will manage exceptions as required. [Option 2]: The Primary Supplier's HHDC will manage exceptions in scenarios such as the following: a) AMSID Pair Metered volumes do not arrive when expected b) CVNs do not arrive when expected c) Validation fails for files and notifications

21. Change of Supplier / Change of Agent

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-55	PS ensures metered vol are provided P379-BR14.1 Each Primary Supplier ensures metered volumes for MSID Pairs are provided as expected. Requirement Description [Option 1 & Option 2]: The Primary Supplier must ensure that metered volumes are being provided for the Boundary Point MSID(s) for the duration that it has been instructed to provide metered volumes for. At minimum, the following scenarios must be catered for (1) In the case of any change of Supplier, the Primary Supplier must ensure that CSS is updated as per existing processes. (2) In the case of any change of agent appointments (e.g. HHDA), the Primary Supplier must ensure that CSS is updated as per existing processes (i.e. BSCP503).

P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-56	<p>SS ensures metered vol are provided</p> <p>P379-BR14.2 Each Secondary Supplier ensures metered volumes for AMSID Pairs are provided as expected.</p> <p>Requirement Description [Option 1 & Option 2]: The Secondary Supplier must ensure that metered volumes are being provided for the AMSID(s) for the duration that it has been instructed to provide metered volumes for.</p> <p>At minimum, the following scenarios must be catered for (1) In the case of any change of Supplier, the Secondary Supplier must ensure that the BSC Central Systems [proposed] /the Primary Supplier's HHDC [alternative] are informed as per process introduced by BR7. (2) In the case of any change of agent appointments (e.g. HHDC or CNA), the Secondary Supplier must ensure that the BSC Central Systems and the Primary Supplier's HHDC are informed as per process introduced by BR7.</p>
Functional	P379-BR-57	<p>SS ensures registrations kept up to date</p> <p>P379-BR14.3 Each Secondary Supplier ensures that registrations are kept up to date following a change of contract(s) with its customer(s).</p> <p>Requirement Description [Option 1 & Option 2]: The Secondary Supplier must ensure that registration details are kept up to date following a change of contract(s) with its customer(s).</p> <p>At minimum, the scenarios include: (1) Registration and de-registration of AMSID Pairs (2) Association of AMSID Pair to its Supplier BMU (3) Association of AMSID Pairs with Boundary Point MSID (Pairs) (4) Appointment of agents (i.e. CNA or HHDC)</p>

22. Performance Assurance

Topic	Ref. no	Requirement/Rule
Functional	P379-BR-58	<p>SS subject to same assurance as PS</p> <p>P379-BR13.7 Secondary Suppliers must be subject to the same performance assurance measures as Primary Suppliers</p> <p>Performance assurance measures won't make any distinction between a Supplier providing Secondary Supply or any other Supply volumes.</p>
Functional	P379-BR-148	<p>SSRA could (a/r) review Asset registration evidence as a part of its assurance activities</p>

P379 MULTIPLE SUPPLIERS BRD

		<p>P379-BR13.1 Once AMSID Pair becomes live and starts operating, SSRA could (as required) review (from time to time) the asset registration evidence as a part of its assurance activities.</p> <p>[Option 1 Option 2]</p> <p>Re-use of P375-BR50</p>
Functional	P379-BR-149	<p>Suppliers should be able to raise Trading Dispute against Asset Metering System Metered Volumes</p> <p>P379-BR13.5 Suppliers should be able to raise a Trading Dispute against Asset Metering System Metered Volumes.</p> <p>[Option 1 & Option 2]: A Supplier must be able to dispute erroneous data, for example:</p> <ul style="list-style-type: none"> - Incorrect association between BM Units and AMSID or MSID Pairs - Incorrect registration details entered - Incorrect splitting of metered volumes <p>Re-use of P375-BR54</p>
	P379-BR-150	<p>PAF ensures that an asset doesn't have more than one set of metering</p> <p>P379-BR13.2 The PAF must ensure that an asset doesn't have more than one set of metering</p> <p>This could include TAA checks on installed metering at the asset and/or data check on received AMSID volumes to ensure no duplicate value submitted for AMSIDs that are linked to the same MSID. The AMSID registrants are responsible for non-compliances. In the event of double registration, the second Party to register an AMSID for the same asset will be at fault.</p> <p>[Option 1 & Option 2]: The PAF must check that Parties are not creating multiple AMSID Pairs for an asset. See requirements P379-BR7.4 and P379-BR7.5.</p>

23. Reporting

Topic	Ref. no	Requirement/Rule
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P379 MULTIPLE SUPPLIERS BRD

Functional	P379-BR-59	Report on percentage of Secondary Supply P379-BR12.1 Report on percentage of Secondary Supply [Option 1] The BSC Central Systems must be able to report on 1) number of MSID Pairs and AMSID Pairs used for the purposes of Secondary Supply each month 2) percentage of all meter volumes attributable to Secondary Supply
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BUSINESS RULES

24. P379-BRL-1 AMSID Pair is associated to atleast one import boundary point MSID Pair

An AMSID Pair must be associated to at least one import boundary point MSID Pair

25. P379-BRL-2 One CNA can provide non-AMSID volumes at a Boundary Point

Only one CNA may provide non-AMSID related volumes per Boundary Point MSID or AMSID Pair being split. They may provide volumes on behalf of multiple Secondary Suppliers

26. P379-BRL-3 Suppliers cannot use Secondary BM Units for P379

Suppliers cannot use Secondary BM Units for P379

27. P379-BRL-4 Behind the meter AMSID Pair vol priority over non asset vol

When splitting an MSID Pair or AMSID Pair, the behind the meter AMSID Pair metered volume takes priority over non asset based volume when splitting the metered volumes

28. P379-BRL-5 CVNs from new CNAs rejected unless original cancelled

If a different CNA submits a CVN for an AMSID or MSID, it will be rejected unless the original is cancelled

P379-TXT-15 BUSINESS SCENARIOS

P379 Scenario 1: Electric Vehicles

Secondary Supplier provides electricity to an Electric Vehicle (EV) via an EV Chargepoint containing a COP11 compliant meter. The chargepoint meter is registered as an AMSID, and all AMSID volumes are attributable to the Secondary Supplier. The Primary Supplier retains responsibility for supplying any other consumption on the premises.

P379 Scenario 2: Community Energy Scheme

A customer is a member of a Community Energy Scheme (CES). The CES owns and controls assets and for any given settlement period will be picking up a percentage of exports from some premises and supplying fixed volumes to other premises. For a given customer MSID, the CES will submit a notification up to one hour ahead of real time allocating a fixed volume of the customer's imports or exports to the CES. The MSID customer's Primary Supplier will be responsible for supplying any other volumes at the MSID.

P379 Scenario 3: Peer to Peer Trading

P379 MULTIPLE SUPPLIERS BRD

A customer signs up to a Peer to Peer (P2P) trading platform via their home Energy Services Company (ESCO), specifying a preference for green, local energy volumes. The ESCo has access to export volumes from a range of sources, and matches their customer's consumption to the generation via the platform. When green, local energy is not available the customer's supply defaults to their Primary Supplier (which may or may not be the ESCo).

Balancing Services and Secondary Supply from the same AMSID

A customer has Behind the Meter (BTM) generation supplied by a Secondary Supplier via an AMSID. All other flows at the site are the responsibility of the Primary Supplier. The customer also employs a Virtual Lead Party to provide balancing services from the asset. The entity which performs calculations will subtract the AMSID volumes from the MSID to give the Primary Supply volume, then subtract the balancing services volume from the AMSID volume to give the Secondary Supply volume at the AMSID.

P379-TXT-16 DATA RELATIONSHIPS

The following entity relationship diagram illustrates the data relationships introduced by P379 as well as existing and similar changes.

Summary

A virtual Lead Party (VLP) can register zero or more Secondary BM Units.

A VLP can register zero or more AMSID Pairs (P375).

A Supplier can associate zero or more AMSIDs Pairs with its BM Units (P379).

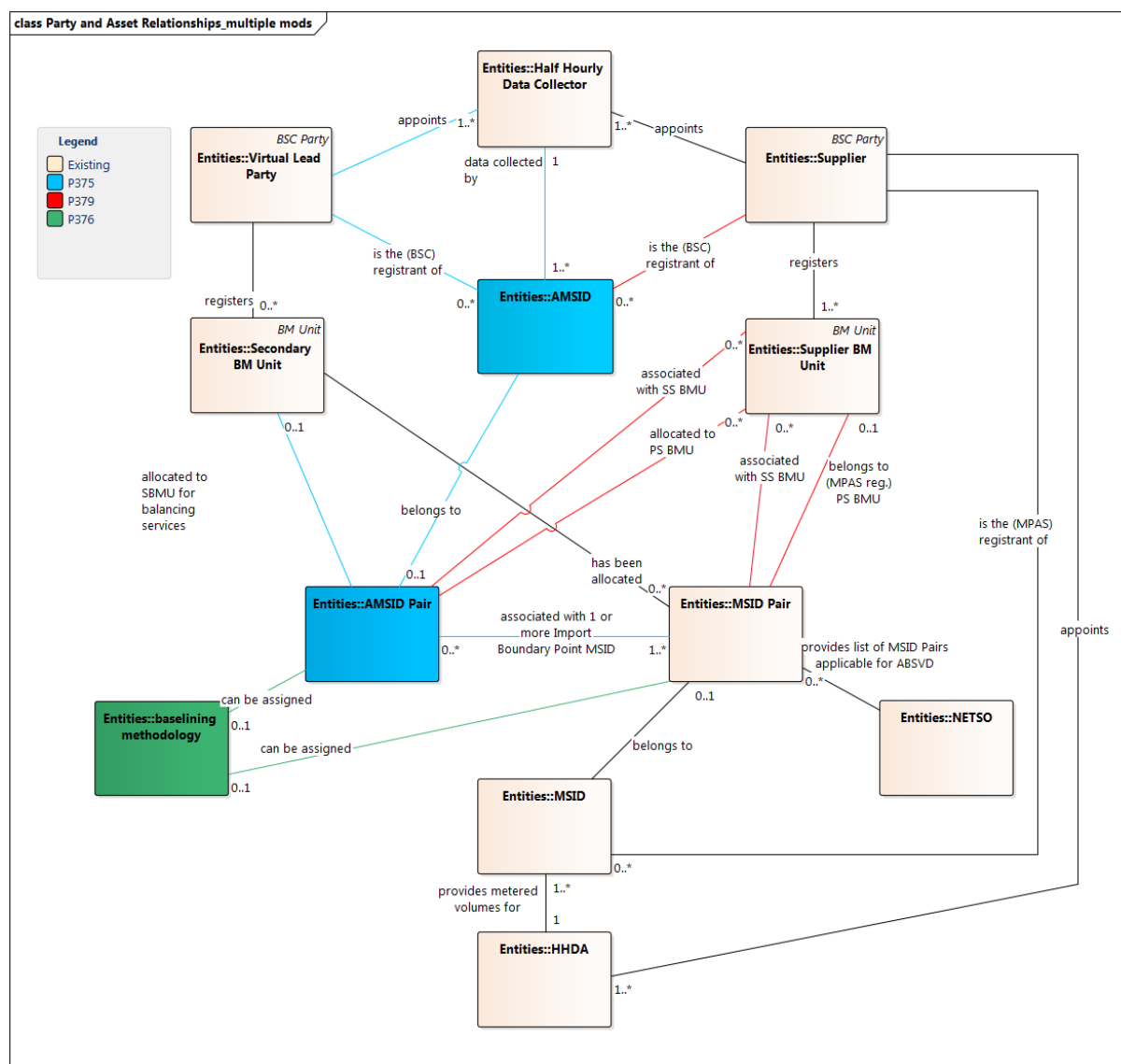
A Supplier can register zero or more MSIDs (for a site behind the meter) (P379).

A Secondary BM Unit can have zero or more AMSIDs allocated to it (P375)

One AMSID Pair can be associated with multiple Boundary Point MSID Pairs (P375).

One Boundary Point MSID Pairs can be associated with multiple AMSID Pairs (P375).

P379 MULTIPLE SUPPLIERS BRD



P379-TXT-17 APPENDIX A P375 REQUIREMENTS FOR ASSET METERS

Compliance Testing of Meters

BSCCo must publish and maintain a list of COP compliant Asset Meter make and models.

P375-BR14	<p>BSCCo must publish and maintain a list of COP compliant Asset Meter make and models.</p> <p><u>Requirement Description</u></p> <p>BSCCo will create and maintain the list of COP Compliant meters. The list will contain at least make and model of the metering device. BSCCo must use reasonable endeavours to ensure that the list is at all times publicly available on the BSC Website.</p> <p>There must be at least one party that can dial the Asset Meter and has been protocol approved before that Asset Meter can be added the approved list.</p>
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P379 MULTIPLE SUPPLIERS BRD

	All parties that can dial that Asset Meter Type will be listed under the protocol-approved section for the relevant Asset Meter type.
P375-BR15	<p>An Applicant must add a new Asset Meter make and model to the COP 11 Meter list.</p> <p><u>Requirement Description</u></p> <p>Where the Asset Metering System metering device is not listed under the COP11 approved list of devices, the applicant must contact the BSCCo to assess Metering System's compliance.</p> <p>The approval process will be laid out in one of the Code Subsidiary Documents.</p> <p>The applicant can be any person, company or a party who wishes that a given device were added to the list.</p>

1. Requirements to be replaced

The following requirement(s) are no longer valid and are superseded by the P379 solution.

P375-BR12	SVAA should not allow AMSID to be registered for other processes than the P375 (e.g. such MSID cannot be registered against a Primary BM Unit).
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