

ELEXION

P375 Webinar

P375 - Settlement of Secondary BM Units
using Metering behind the site Boundary
Point

7 December 2021



Agenda

	Topic	Presenter	Time
1	Introduction and objectives	Mahesh Gogtay	09:30-09:35
2	P375 Overview	Colin Berry	09:35-10:20
3	The new Kinect process	Jon Spence	10:20-10:40
	Break		10:40-10:50
4	Party Agent Process, Meter Compliance	Iain Nicoll	10:50-11:10
5	Qualification process	Colin Berry	11:10-11:20
6	Assurance	Beth Procter	11:20-11:40
7	Industry testing	Diljot Gulshan	11:40-12:00
8	Q&A and Close	All	12:00-12:30

Releases@elexon.co.uk

Objectives

- Engage the industry by providing common understanding, generating interest and having active participation.
- Provide detailed understanding of what P375 changes are how they will be implemented.
- Describe new roles and processes starting from Registration and Qualification to Assurance techniques.
- Invite you to take part in industry testing.

ELEXION

P375 Overview

Colin Berry

7 December 2021

What will P375 do?

- P375 'Settlement of Secondary BM Units using metering behind the site Boundary Point'
 - Unanimously recommended by the Panel on 10 December 2020
 - Approved by Ofgem on 24 February 2021
 - Implementation date of 30 June 2022
- Metering systems situated 'behind' the defined Boundary Point can be used for Settlement purposes in place of the Boundary Point Metering systems
- Will allow balancing-related services on-site provided by smaller assets to be separated from imbalance-related activities, more accurately reflecting the balancing-energy volumes provided by the Balancing Service Provider (BSP)

How will P375 do it?

- Asset Metering VLP (AMVLP) registers Asset(s), AMVLP Agents & related Asset Metering System(s) with SVAA
- SVAA generates AMSID Pair for valid Asset(s) & notifies AMVLP
- AMVLP allocates AMSID Pair to Secondary BM Unit(s) for:
 - Asset Metering; or
 - Asset Differencing
- AMVLP submits to SVAA :
 - MSID Pair Delivered Volumes where AMSID Pairs used for Asset Differencing; or
 - AMSID Pair Delivered Volumes where AMSID Pairs used for Asset Metering
- HHDCs submit HH AMSID Metered Volumes to SVAA
- Second AMVLP may allocate same AMSID Pair to Secondary BM Unit

P375 - Asset Metering System Registration Process (1 of 3)

○ Three-stage Registration Process for Asset Metering Systems:

■ Stage 1: Asset Registration

- AMVLP submits Asset Registration (P0297) to SVAA
- SVAA validates details

If Asset Registration fails validation:

- SVAA sends Rejection of Asset Registration (P0298) to AMVLP

If Asset Registration passes validation:

- SVAA generates AMSID Pair for valid Registration
- SVAA sends AMSID Pair to AMVLP in the Confirmation of Asset Registration (P0299)

AMSID Pair cannot be allocated to a Secondary BM Unit at this point

P375 – Asset Metering System Registration Process (2 of 3)

■ Stage 2: AMVLP Agent Registration

- AMVLP completes appointment of AMVLP Agents on receipt of AMSID Pair
- AMVLP must appoint the same AMVLP Agents to both AMSIDs in an AMSID Pair
- AMVLP registers AMVLP Agent details (P0300) with SVAA
- SVAA validates details

If AMVLP Agent Registration fails validation:

- SVAA sends Rejection of AMVLP Agent Registration (P0301) to AMVLP

If AMVLP Agent Registration passes validation:

- SVAA sends Confirmation of AMVLP Agent Registration (P0302) to AMVLP

AMSID Pair still cannot be allocated to a Secondary BM Unit at this point

P375 – Asset Metering System Registration Process (3 of 3)

■ Stage 3: Asset Meter Registration

MOA / AMMOA installs Asset Meter(s) and informs AMVLP of details

- AMVLP submits Asset Meter Registration details (P0303) to SVAA
- SVAA validates details

If Asset Meter Registration fails validation:

- SVAA sends Rejection of Asset Meter Registration (P0304) to AMVLP

If Asset Meter Registration passes validation:

- SVAA sends Confirmation of Asset Meter Registration (P0305) to AMVLP

AMSID Pair can now be allocated to a Secondary BM Unit

P375 – Allocation of AMSID Pair to Secondary BM Unit

- All Secondary BM Units will include an “Associated MSID Pair Indicator”:
 - *any existing Secondary BM Units will be amended as part of P375 deployment*
 - ‘T’ - no AMSID Pairs associated with the MSID Pair (P344 solution)
 - ‘A’ - AMSID Pair(s) that the MSID Pair is associated with used for Asset Metering
 - ‘D’ - AMSID Pair(s) that the MSID Pair is associated with used for Asset Differencing
- When allocating an AMSID Pair to a Secondary BM Unit, the AMVLP will:
 - Set the Associated MSID Pair Indicator to “A” or “D”, as required; and
 - Set the AMSID Pair Differencing Indicator to:
 - “F” if the Associated MSID Pair Indicator is set to “A”; or
 - “T” if the Associated MSID Pair Indicator is set to “D”
 - Specify the EFD for the MSID Pair / AMSID Pair combination

Jon Spence will cover the new Kinect processes in detail

P375 – Asset Metering and Asset Differencing

○ Asset Metering

- The AMVLP submits AMSID Pair Delivered volumes to SVAA
- The AMSID Pair Delivered volume will be allocated to the Secondary BM Unit instead of the Boundary Point MSID Pair Delivered Volume
- The Boundary Point MSID Pair is an Associated MSID Pair to the AMSID Pair in the Secondary BM Unit, but is not included in the Secondary BM Unit

○ Asset Differencing

- The AMVLP submits MSID Pair Delivered volumes for the “Associated MSID Pair(s) to SVAA
- The MSID Pair Delivered volume for the Asset Metering System will be deducted from the Boundary Point MSID Pair Delivered Volume in the Secondary BM Unit
- The Boundary Point MSID Pair is an Associated MSID Pair to the AMSID Pair in the Secondary BM Unit, and is included in Secondary BM Unit

P375 – Submission of AMSID Pair Delivered Volumes

- For P344:
 - VLPs submit MSID Pair Delivered Volumes to SVAA (P0282 v1)

- For P375:
 - VLPs and AMVLPs submit 'Delivered Volume Notification' (P0282 v2) to SVAA:
 - Following validation of P0282 v2 file, SVAA will send response file to AMVLP
 - 'Rejection of Delivered Volume Notification' (P0283 v2); or
 - 'Confirmation of Delivered Volume Notification' (P0284 v1)
 - If SVAA cannot process P0282 v2 in VAR, SVAA will send to AMVLP
 - Delivered Volume Exception Report' (P0285 v2)

- *All of the files (P0282 – P0285) will be transferred via FTP*

P375 - new 'AMVLP Hub'

- AMVLP Hub for Asset Metering Systems – based on Supplier Hub:
 - AMVLP (instead of Supplier)
 - MOA or Asset Meter MOA (AMMOA)
 - HHDC and, optionally, Asset Meter HHDC (AMHHDC)
 - HHDC always submits AMSID metered volumes to SVAA
- AMVLP – new type of BSC Party, distinct from VLP
- New Qualification process for AMVLPs
- New Qualification processes for AMMOAs, AMVLPs & AMHHDCs
 - *I will present a separate slide with more details on Qualification later in this webinar*

P375 – ‘AMVLP Hub’ processes

- ‘AMVLP Hub’ Market Messages based on existing Supplier Hub data flows
 - New instances of Supplier Hub Market Messages with AMVLP replacing Supplier
 - Existing instances of Market Messages between MOAs & HHDCs will be used
 - J0003 “MPAN Core” used for AMSIDs
 - AMSIDs are 13 digit numbers that will always start with “77”, irrespective of GSP Group
 - Participants that have DTN gateways should use them
 - Otherwise send ‘D-flows’ using other mechanism agreed bilaterally
 - Some new ‘P-flows’ introduced where existing Market Messages cannot be used
- New Market Message D0390 - HHDCs send metered AMSID data to SVAA
 - Actual data sent when available
 - Data required for Initial Settlement (“SF”) – can include estimated data
 - Once actual data sent – no requirement to resend data
 - SVAA to send ‘reminders’ for Reconciliation VARs if actual data not received

P375 – new & amended data flows & new report

- P375 will introduce:
 - one new Market Message and new scenario variants of 20 Market Messages (see EMAR)
 - 24 new P-flows
 - New P0310 (Missing Metered Data) & P0311 (Invalid Metered Data)
 - new versions of the P0282, P0283 & P0285
 - AMVLPs and VLPs will need to send / receive new versions
 - P0284 unchanged
 - Amended structure of the P0288 to include 'Asset Metering System Half Hourly Volume Adjustments'
 - No change to the P0287 and the SAA-I014 Settlement Reports
 - Only impact of P375 on VLPs
- New AMSID Pair report for publication on the Elexon Portal

P375 – Assurance of Asset Metering Systems & Industry Testing

- *Beth Procter will cover Assurance of Asset Metering Systems in detail separately*
- *Diljot Gulshan will cover Industry Testing of P375 processes separately*

P375 – BSC Configurable Items impacted by P375 (1 of 3)

- BSC CIs approved for P375 with P375 in Feb 2021
 - New CoP 11 ‘Metering of Balancing Services Assets for Settlement Purposes’
 - Amended BSCP601 ‘Metering Protocol Approval and Compliance Testing’

Approved by the BSC Panel in December 2020

- New BSC CI for P375

- BSCP603 ‘Meter Operation and Data Collection for Asset Metering Systems’
 - replaces changes originally made to BSCP502 & BSCP514

Approved by the BSC Panel in October 2021

Iain Nicoll will give more details on these items in a separate presentation

P375 – BSC Configurable Items impacted by P375 (2 of 3)

- BSC CIs amended for P375 – significant changes
 - BSCP602 'Metering Systems Register and Asset Metering Systems Register'
 - New Processes for registering Asset Metering Systems and allocating AMSID Pairs in SBMUs
 - BSCP537 'Qualification' & Self Assessment Document (SAD)
 - New Qualification processes for AMVLPs, AMHHDCs & AMMOAs
 - No new Qualification processes for HHDCs & MOAs
 - IDD Part 1 document & spreadsheet
 - Structures of new and amended data flows into / from SVAA
 - Includes 3 Registration steps and Allocation of AMSID Pairs to Secondary BM Units

P375 – BSC Configurable Items impacted by P375 (3 of 3)

- Other BSC CIs amended for P375

- BSCP01 – Overview of Trading Arrangements
- BSCP27 – Technical Assurance of HH Metering Systems
- BSCP32 Metering Dispensations
- BSCP38 – Authorised Signatories
- BSCP507 – SVA Standing Data
- BSCP508 – SVAA
- SVA Data Catalogue Vol 1 (Data Flows) & Vol 2 (Data Items)
- SVAA Service Description
- SVAA User Requirements Specification

- *Note that a new Modification will be raised to align the P375 solution in the BSC and Code Subsidiary Documents on the post-REC baseline. Some of the documents amended for P375 will change further as a result.*

P375 – Other activities required for P375

- Raise EMAR CR to include AMVLP as a Market Role
 - Required to allow industry to use DTN for new & amended Market Messages
 - Already underway

- Raise MDD CR to include AMVLP as a Market Role
 - Required to allow AMVLPs to become DTN users
 - Will be raised in Q1 2022

- Register Short Code “77” for use in DTN data flows
 - Required to allow AMSIDs to be sent across the DTN

QUESTIONS

ELEXION

Kinnect Customer Solution

Jon Spence

7 December 2021

Elexon Kinnect – our digital platform

ELEXON KINNECT



First version released January 2021

- **Simpler and quicker online process** for entering the market
- **Online accounts:** register assets, register for new roles
- **Clear visibility** of customer journeys and tasks
- **Instant help:** on screen validation, guidance notes and help features
- **Customer centric:** Customer Solution User Group established for continuous improvement

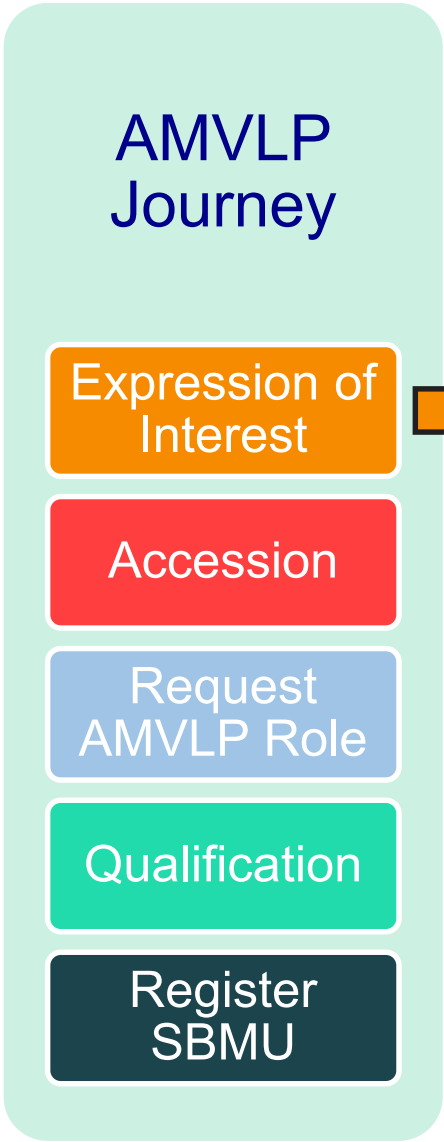
Second version to be released April 2022

- **Cloud-based** technology: rapid expansion
- **Modular** design: faster testing and changes
- **Future ready:** modular and scalable Settlement calculation systems
- **Accurate and fast:** improved settlement accuracy and reduced reconciliation times
- **Open data:** Settlement calculation data will be openly available via APIs

First version to be released November 2021

- **Comprehensive,** cloud-based data and insights service
- **Enhanced data:** essential for smart system
- **Fast and responsive:** customers can 'self-serve' data requests
- **Openly available:** the design will incorporate Open Data principles
- **Customer centric:** Data and Reporting User Group established





BSC

CHANGE COMMITTEES & GROUPS OPERATIONS & SETTLEMENT DATA

Home > Market Entry & Compliance > Market Entry > Submit an “expression of interest” to enter the market

Submit an “expression of interest” to enter the market

If you would like to enter the electricity market you will need to submit a formal request establishing your interest. This will start the process off in participating in the Balancing and Settlement Code procedures.

Establishing your requirements

The Market Entry team is happy to have an initial meeting to discuss and understand your requirements and guide you through the process.

The meeting date will depend on when you are looking to join the BSC and our availability.

We operate a charging policy for companies who do not intend to become a BSC Party and require information.

Sending your company details to our team

To help us understand your requirements and arrange a meeting, please complete the follow form.

Market Entry Meeting Request Form - Expression of Interest

Company Name *

Company Number

First Name *

Last Name *

Contact information

Market Entry team
market.entry@exelon.co.uk

Related reading

- Beginners Guide
- Trading in the electricity market
- About Market Entry

BSC documents

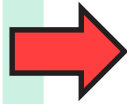
- The Balancing & Settlement Code
- BSC Related Documents

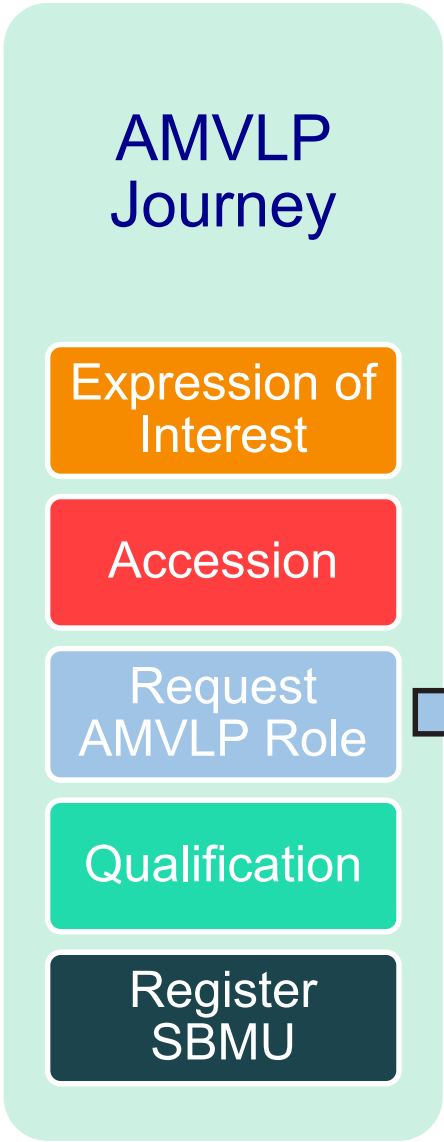
Accessibility

Please let us know if you cannot access this information or need it in an alternative format.

communications@exelon.co.uk

Register SBMU





ELEXON

KINNECT

MY ACCOUNT

MY ASSETS

MY ROLES

QUALIFICATIONS

EXIT THE MARKET

My Company options > Manage Party Roles > Register Market Role

Register Market Role

On this page you can register a new market role.

Market roles registration form

* Market Role

Select

Complete this field.

* From Date

To Date

Licence Details

Description

Cancel

Save as Draft

Authorised Signatory Approval

Contact information

BSC Service desk

bscservicedesk@cgi.com

My Tasks

There are no open Tasks

Further Guidance

Interconnector guidance

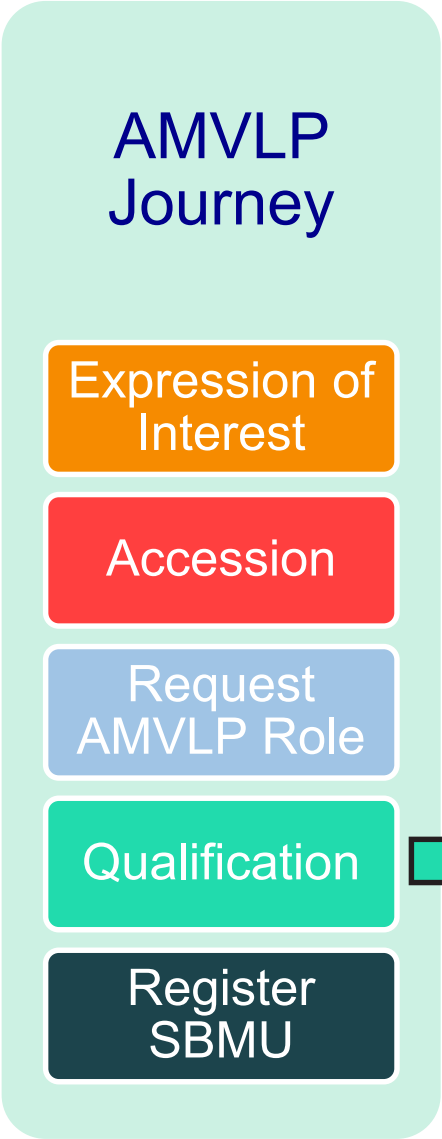
Generator guidance

Metered Volume Reallocation Notification Agent (MVRNA) guidance

Licensed Distribution System

Page 29

ELEXON



COMPLETE CVA QUALIFICATION

ORDER COMMUNICATION LINES

COMPLETE SVA QUALIFICATION

REGISTER IN MDD

My Company options > Qualifications > Complete CVA Qualification

Complete CVA Qualification

All BSC Parties must demonstrate their ability to communicate with BSC Central Systems and comply with the requirements in Section O of the BSC by completing CVA Qualification Testing as part of the Market Entry process.

BSC Section O

For more information on CVA Qualification testing please refer to the Guidance documents.

What do I need to do now?

Note: Download and complete the CVA test booking form and upload it onto this page. [Download](#)

Upload Attachment

Upload Files

Or drop files

Uploaded Files

No Files found

Contact information

BSC Service desk
bscservicedesk@cgi.com

My Tasks

There are no open Tasks

Further Guidance

- [BSCP 70 CVA qualification testing for parties and party agents](#)
- [CVA Qualification Testing diagram](#)

Page 30

ELEXON

Register Secondary BM Unit(s)

AMVLP Journey

Expression of Interest

Accession

Request AMVLP Role

Qualification

Register SBMU



MANAGE ASSETS

ASSETS HISTORY

MANAGE QMIJS

MANAGE GC/DC BREACHES

MANAGE MSID PAIRS

MSID STATUS REPORT

MA

My Company options > My Assets > Manage Assets > Register Energy Asset

Register Asset

On this page you can register a new BM Unit for your organisation.

Balancing Mechanism Unit

Participant ID ⓘ

* From Date

* BM Unit ID ⓘ

To Date

* BM Unit Type ⓘ

Select

Teleswitch Standard Settlement Configuration ⓘ

FPN Flag ⓘ

No

NGC BM Unit Id

Cancel

Save as Draft

Contact information

BSC Service desk
bscservicedesk@cgi.com

My Tasks

There are no open Tasks

Further Guidance

There are currently no guidance notes to display.

Accessibility

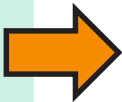
Please let us know if you are unable to access this information or need it in an alternative format.
communications@elexon.co.uk

Key Process Steps for MSID Pairs and AMSID Pairs



P375 stages

MSID Pair
Registration



1 - Asset
Registration

2 - AMVLP agent
registration

3 - Asset Meter
Registration

Allocation to
SBMU

TSASSETS HISTORYMANAGE QMIJSMANAGE GC/DC BREACHESMANAGE MSID PAIRSMSID STATUS REPORTMA

My Company options > My Assets > Manage MSID Pairs

Manage MSID Pairs

On this page you can manage existing and add new MSID Pairs using the 'plus' button or .csv upload functionality.

Search Import MSID

Search Export MSID

Search BMU ID

Import MSID	Export MSID	BM Unit ID	GSP Grou...	From Date	To Date	Status	Validation			
16	597	1	56	V__NI	001	_N	2021-11-09	2021-11-30		
238	05694	2394	1521	2__MI	002	_M	2020-10-09	2046-01-01	✓	2020-10-01
180	064	1800	036	V__NF	001	_N	2020-12-01	2046-01-01	✓	2020-10-19
180	1148	1800	047	V__NF	001	_N	2020-12-01	2046-01-01	✓	2020-10-19
1700	930	1700	134	V__P	001	_P	2020-12-01	2021-12-29	✓	2020-10-26
220	0020	2200	10	V__L	001	_L	2020-04-23	2100-01-01	✓	2021-05-11
220	009	220	138	V__L	001	_L	2020-04-23	2100-01-01	✓	2020-04-22
1012	195			V__A	001	_A	2021-08-01	2046-01-01		
101	219			V__A	001	_A	2021-08-01	2046-01-01		
2700	8924			V__A	001	_A	2021-08-01	2046-01-01		

1

2

3

30 >

Contact information

BSC Service desk
bscservicedesk@cgi.com

My Tasks

There are no open Tasks

Further Guidance

MSID Pair registration:
BSCP602

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format

P375 stages

MSID Pair
Registration

1 - Asset
Registration

2 - AMVLP agent
registration

3 - Asset Meter
Registration

Allocation to
SBMU



BSC Website BSC Portal BM Reports TAAMT Hello Demo Customer - Centrica Energy Limited Log Out

ELEXON KINNECT

MANAGE ASSETS ASSETS HISTORY MANAGE QMIJS MANAGE GC/DC BREACHES MANAGE MSID PAIRS MSID STATUS REPORT MANAGE MSID DISPUTES MANAGE AMSID PAIRS ALLOCATE AMSID PAIRS

My Company options > My Assets > Manage AMSID Pairs > Amend AMSID

Amend AMSID Pair

AMSID Pair 7784207022622_7712843671168

On this page you can amend an existing AMSID Pair.

1 - AMSID Pair details 2 - Agent Appointments 3 - Asset Meters 4 - BM Unit Allocations

My Company Details

Organisation Name AMVLP ID (MPID)

Asset Details

AMSID Pair Detail

* AMSID Pair Name

Date

* Effective From Date Effective To Date

AMSIDs

Import AMSID Export AMSID

Contact information

BSC Service desk
bscservicedesk@cgl.com

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format.
communications@elexon.co.uk

View All Agent Appointments

[View All Agent Appointments](#)

View AMSID Pair Files

[View AMSID Pair Files](#)

P375 stages

- MSID Pair
Registration
- 1 - Asset
Registration
- 2 - AMVLP agent
registration
- 3 - Asset Meter
Registration
- Allocation to
SBMU



Asset Location

* GSP Group
_B - East Midlands

Site Name

* Address Line 1 ru333333333	Address Line 2 acjsjcd	Address Line 3 knwknw
Address Line 4	Address Line 5	Address Line 6
* Postcode 444555		

Asset Technical Detail

Asset Type ⓘ
Battery storage unit

* The connection voltage of the Asset in volts ⓘ
55

* Balancing delivery capacity of the Asset in kW
26

Measurement Transformer Indicator ⓘ
☒

* Measurement Class Id
Select

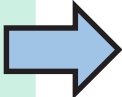
Associated Boundary Point MSID Details

Cancel

Save

P375 stages

- MSID Pair
Registration
- 1 - Asset
Registration
- 2 - AMVLP agent
registration
- 3 - Asset Meter
Registration
- Allocation to
SBMU



My Company options > My Assets > Manage AMSID Pairs > Amend AMSID

Change Asset Metering System VLP Agents

AMSID Pair 7784207022622_7712843671168

On this page you can register new VLP Agents for a specified import AMSID

1 - AMSID Pair details 2 - Agent Appointments 3 - Asset Meters 4 - BM Unit Allocations

AMSID Details

Import AMSID 7784207022622 Export AMSID 7712843671168

AMSID Import/Export Agents

MOA/AMMOA Details

MPID From Date +

No MOA/AMMOA Agent Appointments found

> HHDC Details > Asset Meter HHDC Details

Cancel Save

Contact information

BSC Service desk
bscservicedesk@cgi.com

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format.
communications@exxon.co.uk

View All Agent Appointments

[View All Agent Appointments](#)

View AMSID Pair Files

[View AMSID Pair Files](#)

P375 stages

- MSID Pair
Registration
- 1 - Asset
Registration
- 2 - AMVLP agent
registration
- 3 - Asset Meter
Registration
- Allocation to
SBMU



My Company options > My Assets > Manage AMSID Pairs > Amend AMSID

Manage Asset Meters

AMSID Pair 7784207022622_7712843671168

Manage Asset Meters

1 - AMSID Pair details

2 - Agent Appointments

3 - Asset Meters

4 - BM Unit Allocations

Create Asset Meter(s)

Asset Meter Details

Serial Number

Make And Model

Asset Metering Type

AMSID

Import/Ex...

From Date ¹

To Date

Status ²

No Asset Meters found

Cancel

Save

Authorised Signatory Approval

Approver ³

Select

Assistant ⁴

Demo Assistant

Create Multiple Asset Meter records

Select upload files and choose a P0303 file to upload multiple Asset Meter records

Contact information

BSC Service desk

bscservicedesk@cgi.com

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format.

communications@elexon.co.uk

View All Agent Appointments

[View All Agent Appointments](#)

View AMSID Pair Files

[View AMSID Pair Files](#)

Page 37

ELEXON

P375 stages

MSID Pair Registration

1 - Asset Registration

2 - AMVLP agent registration

3 - Asset Meter Registration

Allocation to SBMU



ELEXON
KINNECT

SETS HISTORYMANAGE QMIJSMANAGE GC/DC BREACHESMANAGE MSID PAIRSMSID STATUS REPORTMANAGE MSID DISPUTESMANAGE AMSID PAIR ALLOCATIONS

My Company options > My Assets > Manage AMSID Pairs > Amend AMSID

Manage AMSID Pair Allocations

AMSID Pair 7784207022622_7712843671168

Manage AMSID Pair Allocations

1 - AMSID Pair details2 - Agent Appointments3 - Asset Meters4 - BM Unit Allocations

AMSID Details

* Import AMSID ⓘ

Export AMSID ⓘ

Select your Balancing Mechanism Unit

Allocation Details

* Effective From Date ⓘ

* Asset Metering or Differencing ⓘ

CancelSave

Authorised Signatory Approval

Contact information

BSC Service desk
bscservicedesk@cgi.com

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format.
communications@elexon.co.uk

View All Agent Appointments

[View All Agent Appointments](#)

View AMSID Pair Files

[View AMSID Pair Files](#)

Key Process Steps for MSID Pairs and AMSID Pairs and corresponding upload files



File Uploads and Responses (“P – Flows”)

Stage	Upload	Confirmation	Rejection
MSID Pair registration	P0278	P0279	P0280
Asset registration	P0297	P0299	P0298
AMVLP agent registration	P0300	P0302	P0301
Asset Meter registration	P0303	P0305	P0304
Allocation to SBMU	P0306	P0307 *	P0308

Allocation Flows

Stage	Upload	Confirmation	Rejection
MSID Pair registration	P0278	P0279	P0280
Asset registration	P0297	P0299	P0298
AMVLP agent registration	P0300	P0302	P0301
Asset Meter registration	P0303	P0305	P0304
Allocation to SBMU	P0306	P0307 *	P0308

- On allocation, the **P0307** confirms to the originating AMVLP that the allocation is successful
- On re-allocation (i.e. asset metering only), the “losing AMVLP” receives a **P0309**
- When an allocation is end-dated, the other AMVLP using the same AMSID Pair (if applicable) is notified using a **P0320** (in case they need to become the registrant).

At the bottom of all relevant screens . . .

Create Multiple Agent Appointment records

Select upload files and choose a P0300 file to upload multiple Agent Appointment records

Upload Files

Or drop files

Notes Please use the standard template. [Download](#)

View VLP Agent Appointment files

Select file to download

Flow Type	Date/Time	
P0300 - P0000.Csv	10 Nov 2021, 14:02:21	
P0300 - P0000.Csv	10 Nov 2021, 12:33:38	
P0300 - P0000.Csv	10 Nov 2021, 12:26:49	

In the Right Hand Side Tiles . . .

4 - BM Unit Allocations

Contact information

BSC Service desk
bscservicedesk@cgi.com

Accessibility

Please let us know if you are unable to access this information or need it in an alternative format.
communications@elexon.co.uk

View All Agent Appointments

[View All Agent Appointments](#)

View AMSID Pair Files

[View AMSID Pair Files](#)

QUESTIONS

ELEXION

Party Agent process and Meter Compliance

Iain Nicoll

7 December 2021



AMVLP AGENT PROCESSES

We'll cover the processes for P375 in this section

An Industry Expert Group developed the principles for the Asset Metering processes



Based on Supplier Hub principle to minimise impact to industry



Defined the roles and processes to be followed

AMVLP Agents

AMVLP is responsible for appointing qualified Agents to an AMSID

AMVLP **must only** appoint Agents with whom it has agreed contractual terms to provide an Agent service for Asset Metering

Asset Metering is **not a mandatory service** that BSC Qualified Agents have to participate in

Meter Operator Agent (MOA)

Responsible for the installation, commissioning and maintenance of Asset Metering Systems

- 1) SVA Half Hourly (HH) MOA, referred to as a Metering Equipment Manager (MEM) in the REC, can be appointed to any Asset Metering Type
 - a) No additional qualification required for an SVA HH MOA to act as an AMVLP Agent
- 2) Asset Metering MOA (AMMOA) can only be appointed to Asset Metering Type 4, where the Asset Metering is whole current, and Asset Metering Type 5 sites
 - a) AMMOA must have completed qualification under the BSC

Data Collection

Responsible for the collection, validation, estimation and submission of data of Asset Metering Systems

- 1) Half Hourly Data Collector (HHDC) **must** be appointed to all AMSIDs
 - a) No additional qualification required for a HHDC to act as an AMVLP Agent
 - b) The HHDC will submit AMSID data to SVAA
- 2) Asset Metering HHDC (AMHHDC) can be appointed to any AMSID
 - a) AMHHDC must have completed qualification under the BSC
 - b) The AMHHDC will submit AMSID data to the appointed HHDC

Where a Party and Agent have a Data Transfer Network gateway use existing Data Flows to communicate but the option will be available to use other means ('P' Flows)

Meter Operations and Data Collection

The processes for Meter Operations and Data Collection are in the new BSCP603

- 1) Registration Activities
 - a) Installation of new Asset Metering System
 - b) Commissioning of a new Asset Metering System
 - c) Using an existing Metering System as an Asset Metering System
 - d) Change of AMVLP and/or Agent(s)
- 2) Metering Activities
 - a) Energise / De-energise an Asset Metering System
 - b) Removal of an Asset Metering System
 - c) Reconfigure or Replace an Asset Metering System
 - d) Change of Asset Feeder status – Energise / De-energise
- 3) Collection Activities
 - a) HHDC collects directly
 - b) AMHHDC collects directly
 - c) HHDC or AMHHDC investigates inconsistencies
- 4) Asset Metering System Investigation Process
- 5) Proving Test

We'll go through some process examples

Appointment of Agents

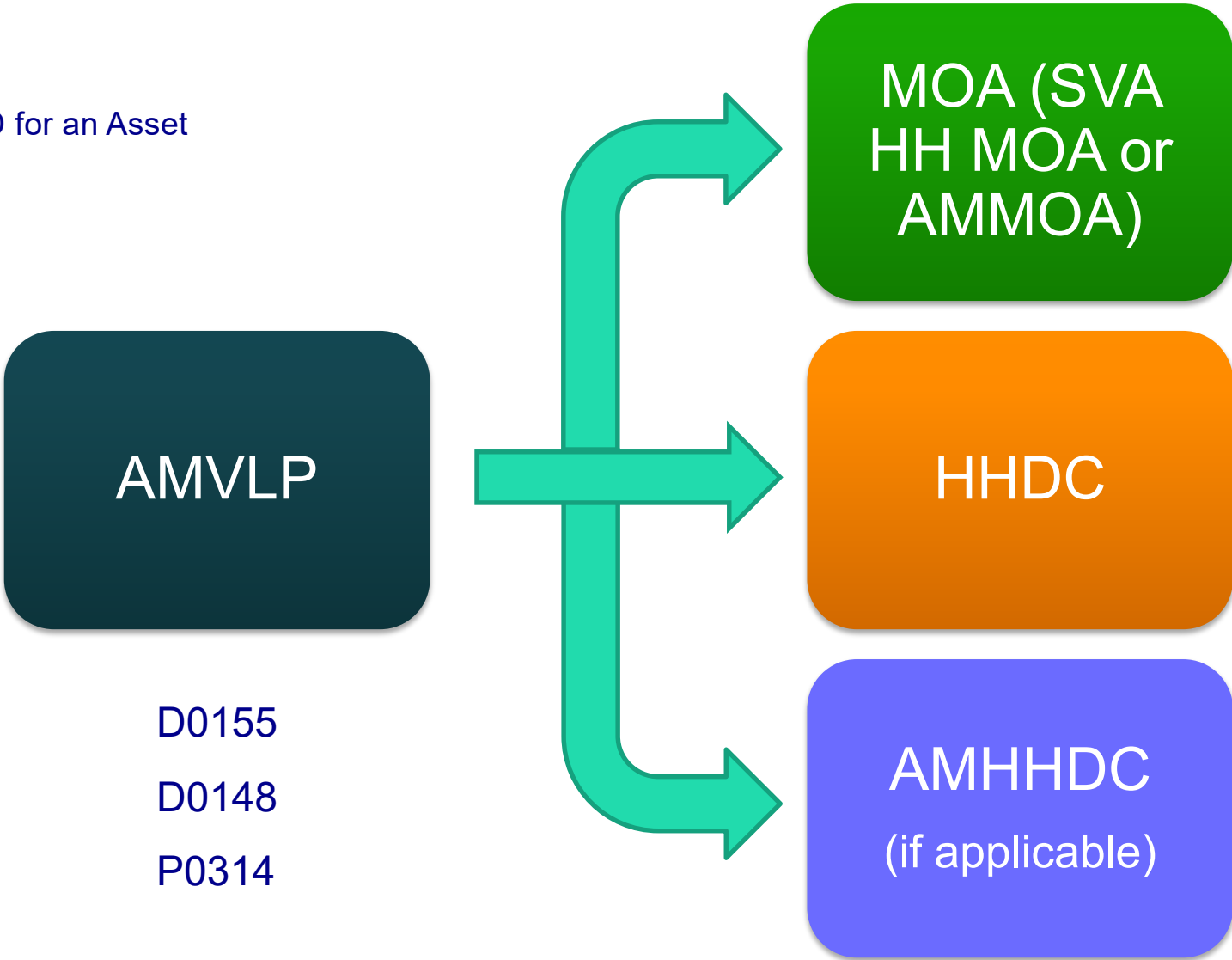
AMVLP will appoint Agents for an AMSID

Where there is an Export and an Import AMSID for an Asset the same Agents **must** be appointed to both

AMVLP notifies Agents of appointment

AMVLP notifies identity of other Agents

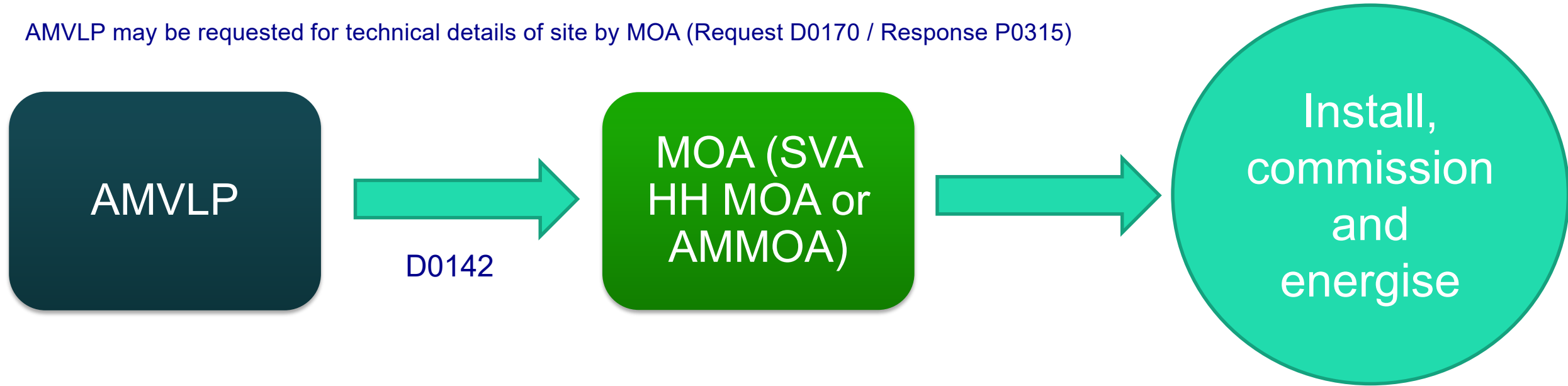
AMVLP notifies Agents if AMHHDC appointed



Installation of Asset Meter

AMVLP will instruct MOA to install Asset Meter

AMVLP may be requested for technical details of site by MOA (Request D0170 / Response P0315)



For measurement transformer connected metering the MOA may not be able to commission the measurement transformers (i.e. Current Transformers and Voltage Transformers)

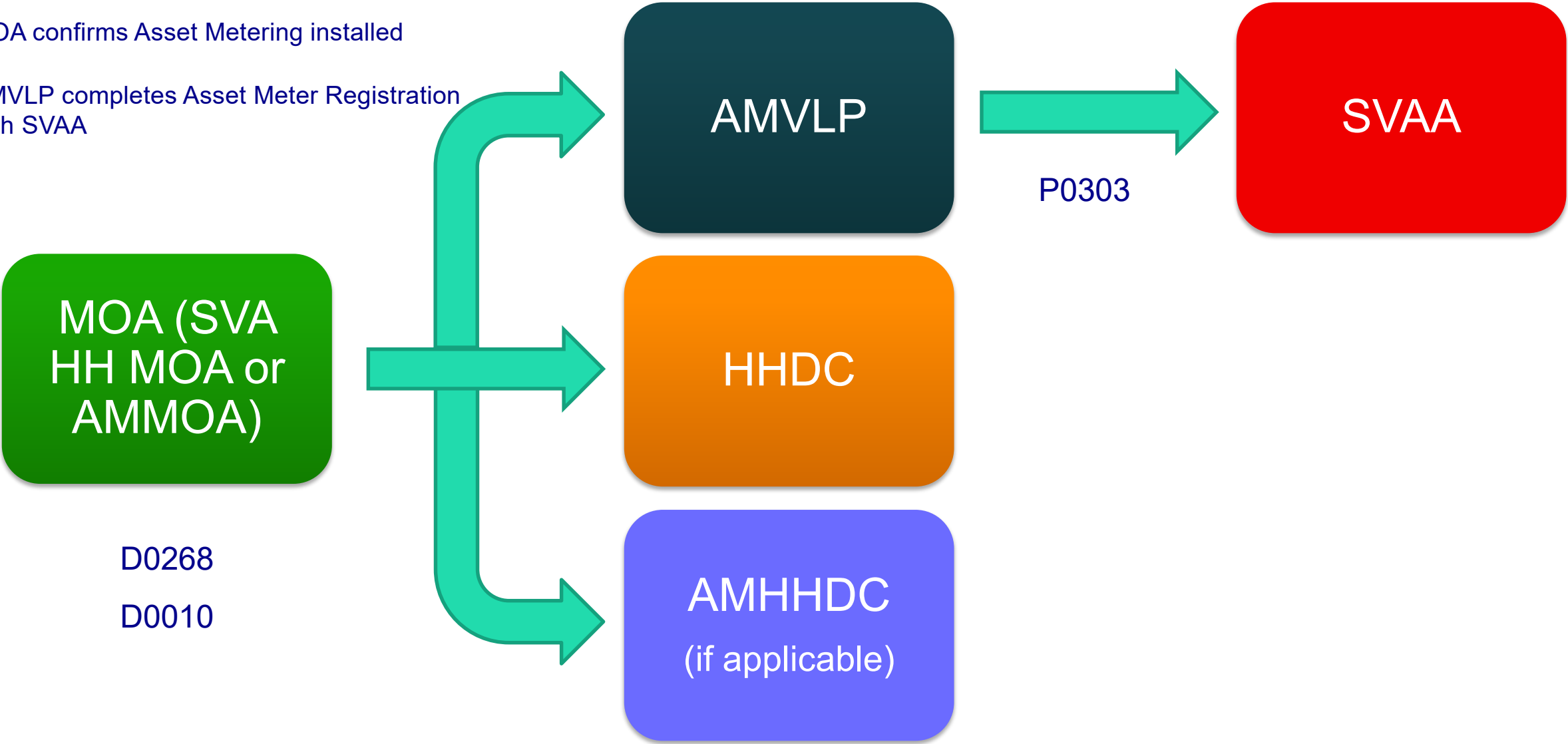
In these instances the AMVLP, in conjunction with Equipment Owner, shall be responsible for commissioning the measurement transformers and sends the commissioning information (D0383)

MOA commissions Asset Meter, and Asset Metering System where they can commission the measurement transformers, and confirms complete to AMVLP (D0384)

Installation of Asset Meter

MOA confirms Asset Metering installed

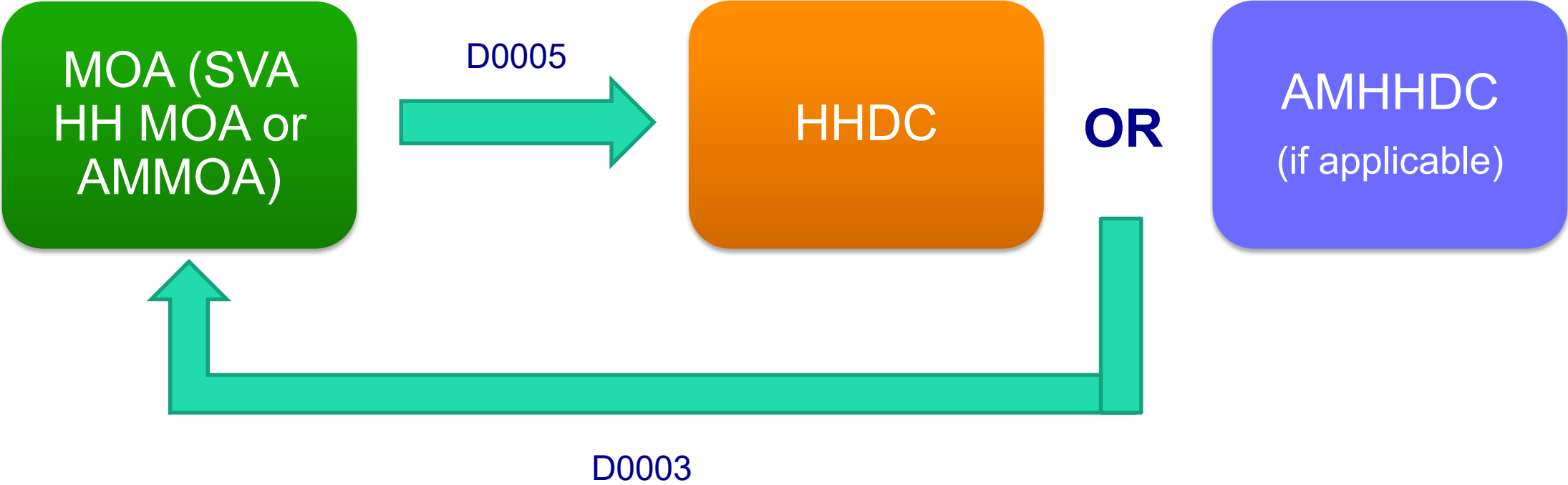
AMVLP completes Asset Meter Registration with SVAA



Installation of Asset Meter

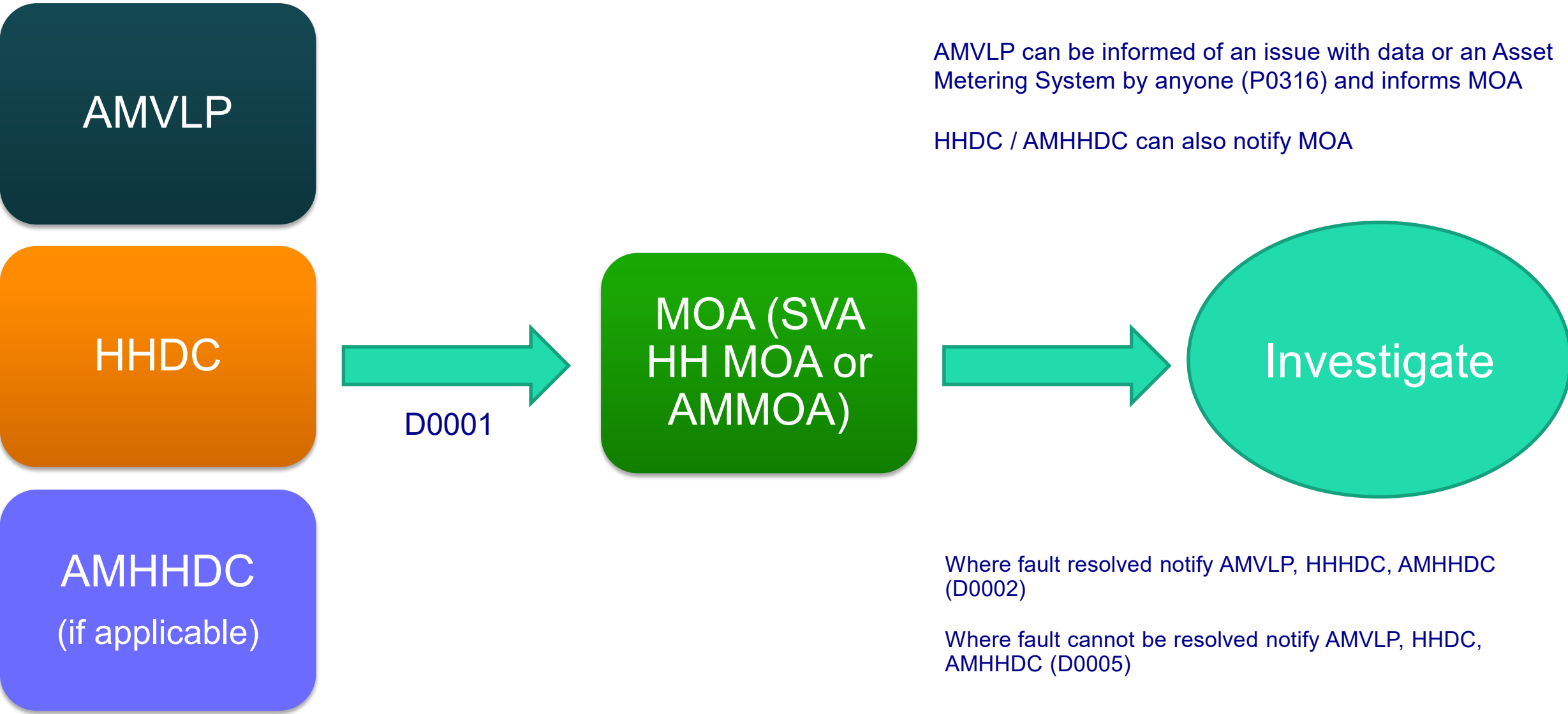
MOA completes Proving Test (if required)

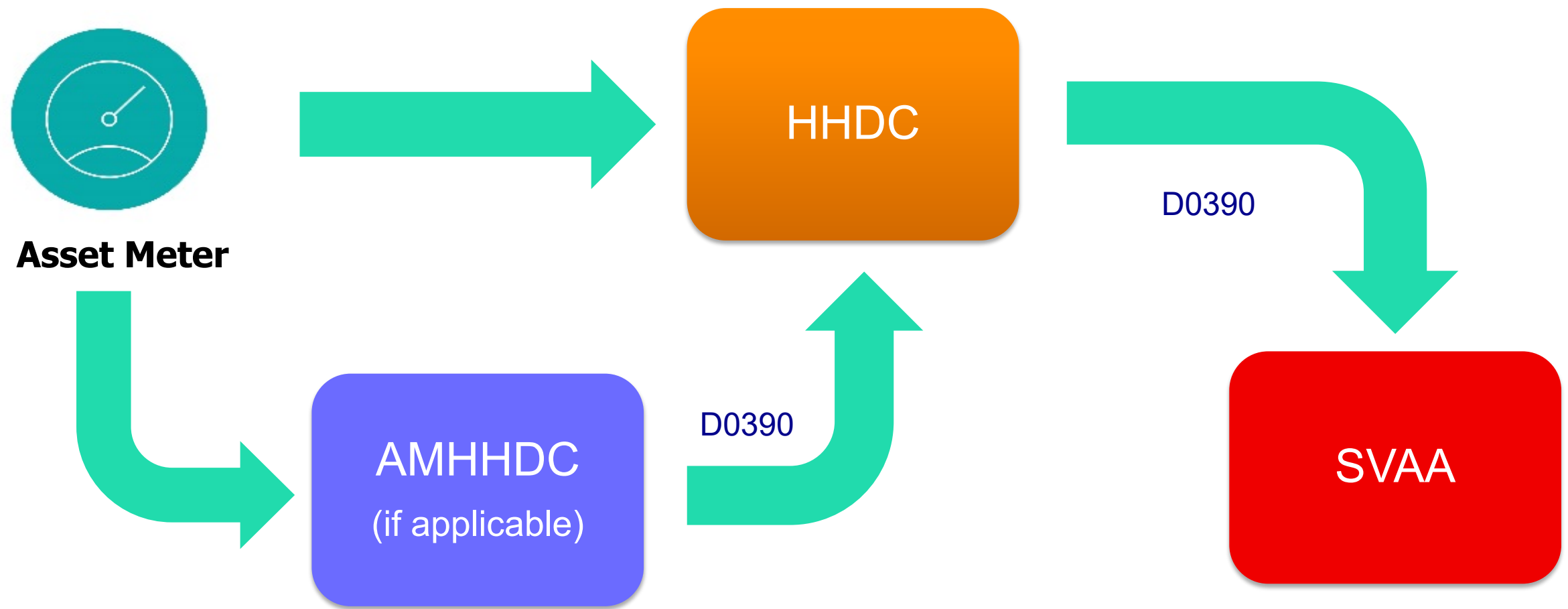
- Pulse Multiplier not 1.000



Where data cannot be retrieved the relevant data collector should notify the MOA of a fault (D0001)

MOA sends notification Proving Test passed (D0214) or failed (D0002)





HHDC sends SVAA actual or estimated data by the SF Volume Allocation Run

AMHHDC sends HHDC actual or estimated date by three working days before the SF Volume Allocation Run

HHDC and AMHHDC not required to resend data for subsequent VARs after submitting actual data, unless more accurate data has become available




ASSET METER COMPLIANCE & PROTOCOL APPROVAL

The modification process for P375 resulted in a number of operational outcomes for metering

1 Code of Practice (CoP) 11 was developed for P375

2 Three categories of Asset Meter Types were created

 BSC approved Half Hourly (HH) Meters/Outstations

 Operational Meters / Non-BSC approved HH Meters

 Metering devices embedded within a product

For all categories data has to be submitted in a 30 minute Settlement Period format e.g. through a system solution linked to the Asset Meter

3 BSC approved Half Hourly Meters/Outstations go through a Compliance and Protocol Approval Test

This will be extended to Asset Meters in Code of Practice 11

The current process for Half Hourly Meters/Outstations is in BSCP601 - Metering Protocol Approval and Compliance Testing

More granular data required for National Grid Electricity System Operator – aggregated up to Secondary BMU level and provided by AMVLP – **Not in scope of CoP11**

BSC approved Half Hourly (HH) Meters/Outstations

An approved Meter for Code Practice 1, 2, 3, 5 and 10 is automatically approved for use in the equivalent Asset Metering Type

Asset Metering Type		Code of Practice
Asset Metering Type 1		Code of Practice 1
Asset Metering Type 2		Code of Practice 2
Asset Metering Type 3		Code of Practice 3
Asset Metering Type 4	Any	Code of Practice 5
	< 100 kW only	Code of Practice 10

Any Data Collector with Protocol Approval for a compliant Meter is automatically approved to be appointed to an Asset Metering System using that Meter Type

Currently approved Meters and Data Collectors can be found on the Elexon website:

<https://www.elexon.co.uk/guidance-note/cop-compliance-protocol-approvals/>

Compliance Testing

All other types of Asset Meter **must** complete Compliance Testing

Applications are made against a particular Asset Metering Type defined in CoP11:

- i. Asset Metering Type 1 - Metering of circuits with a rated capacity greater than 100MVA;
- ii. Asset Metering Type 2 - Metering of circuits with a rated capacity not exceeding 100MVA;
- iii. Asset Metering Type 3 - Metering of circuits with a rated capacity not exceeding 10MVA;
- iv. Asset Metering Type 4 - Metering of energy transfers with a Maximum Demand of up to (and including) 1MW; and
- v. Asset Metering Type 5 - Metering (embedded within another device) for energy transfers with a Maximum Demand of up to (and including) 100kW.

Compliance testing will be carried out by an independent test laboratory

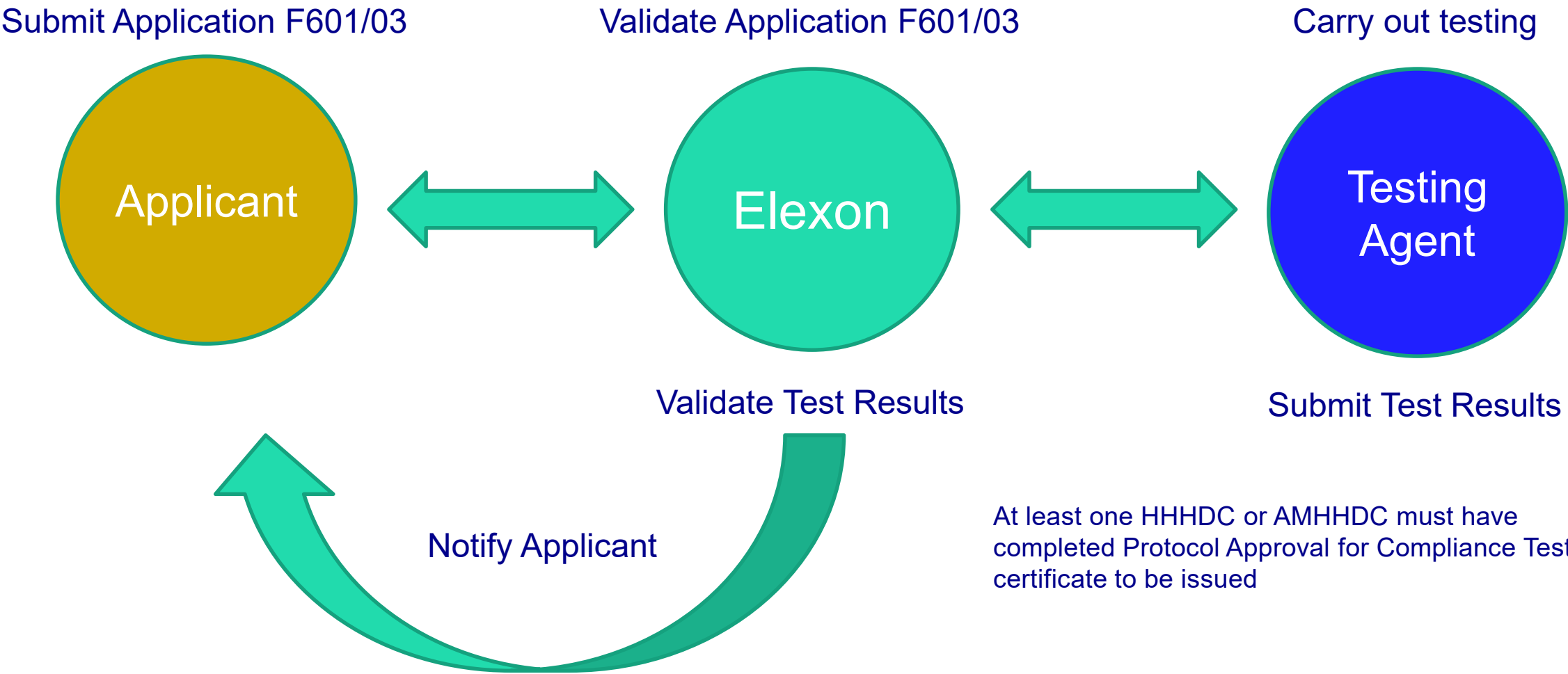
The Applicant shall provide a minimum of two samples of the chosen Asset Metering Equipment and any supporting software and hardware necessary to fulfil testing

Where an Asset Meter is being submitted against multiple Asset Metering Types this should be made clear in the application and the samples provided shall be for the highest accuracy class (e.g. if application for Asset Metering Types 1, 2 and 3 a class 0.2/0.2S Asset Meter should be provided)

The tests are detailed in Section 3.6 of BSCP601 'Metering Protocol Approval and Compliance Testing'

The application and test report will be submitted to Elexon for confirmation that the Asset Meter is compliant with CoP11 (i.e. for required accuracy and functionality).

Compliance Testing Process



Protocol Approval

All HHDCs and AMHHDCs **must** complete Protocol Approval testing for Asset Meters they wish to be appointed to

HHDC and AMHHDC will complete testing.

Elexon will witness testing.

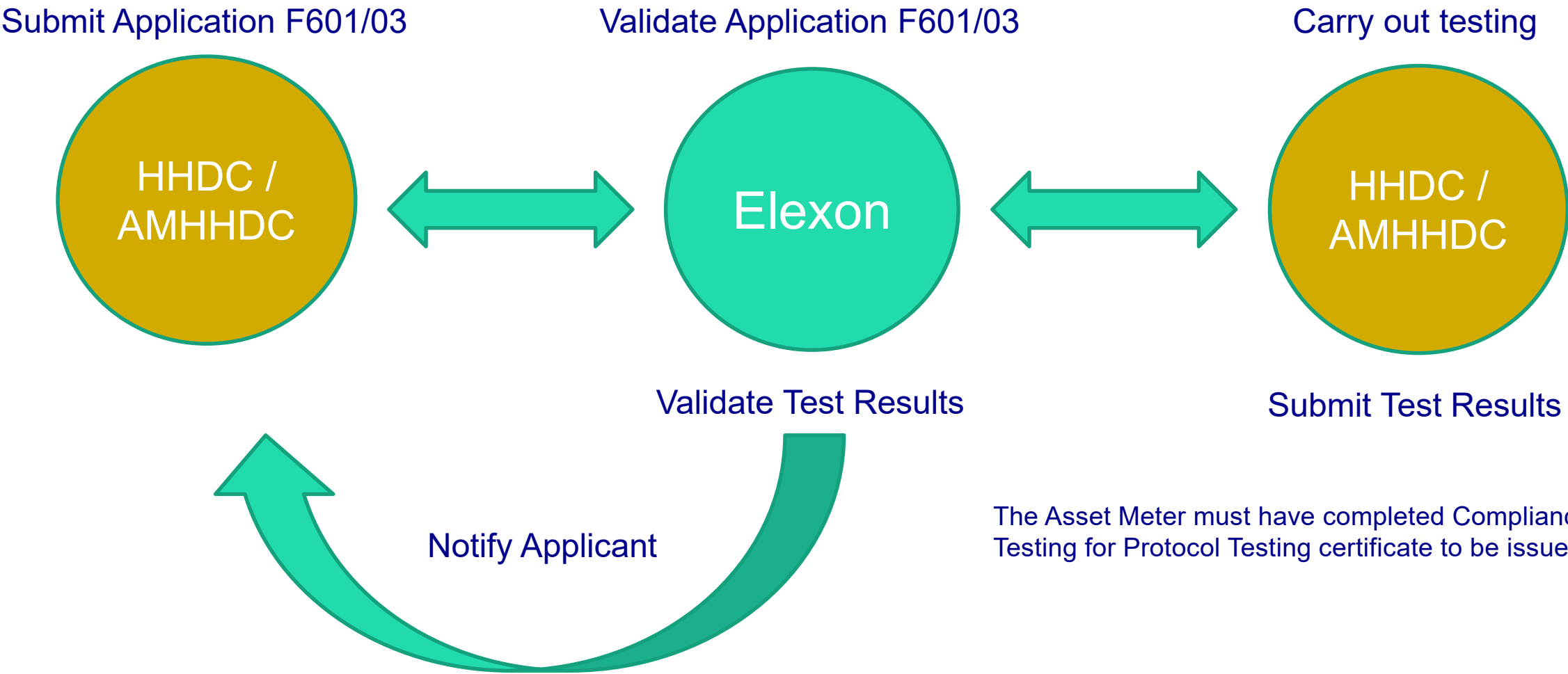
The areas being checked in Protocol Approval are:

- i. Data retrieval;
- ii. Data security;
- iii. Time reset; and
- iv. Data file creation.

The tests are detailed in Section 3.3.3 of BSCP601 'Metering Protocol Approval and Compliance Testing'

The application and test report will be submitted to Elexon for confirmation that the HHDC or AMHHDC is compliant for the relevant Asset Meter

Protocol Approval Process



Compliance Testing and Protocol Approval

Once Compliance Testing has been completed and at least one HHDCs or AMHHDCs **must** has completed Protocol Approval Elexon will issue the certificates:

- i. Certificate of Compliance (F601/01) to Applicant; and
- ii. Certificate of Protocol Approval (F601/02) to HHDC or AMHHDC.

Elexon will update the list of approved Meters and Data Collectors on the Elexon website:

<https://www.elexon.co.uk/guidance-note/cop-compliance-protocol-approvals/>

Elexon will add the Asset Meter and HHDC / AMHHDC to the tables to allow AMVLPs to register Meter Technical Details (i.e. Outstation Type) and appoint the relevant data collection Agent for an AMSID

Elexon will notify industry via a circular that a new Asset Meter has been approved or a new data collector has completed Protocol Testing

Applications should be made to metering@elexon.co.uk

QUESTIONS

ELEXION

Qualification process

Colin Berry

7 December 2021

P375 – Qualification for Asset Metering Systems

- Qualification for new BSC Party and new Party Agents for P375
 - New BSC Party 'Asset Metering Virtual Lead Party' (AMVLP)
 - Different to VLP
 - New Qualification process for AMVLP
 - No requirement to be a VLP first
 - New Party Agents (AMVLP Agents)
 - 'Asset Metering Meter Operator Agent (AMMOA)
 - Can only be appointed to certain types of Asset Meter – in place of MOA
 - New Qualification process for AMMOA
 - 'Asset Metering Half Hourly Data Collector (AMHHDC)
 - Can be appointed in addition to HHDC
 - New Qualification process for AMHHDC
 - Existing HHDCs and MOAs do not need to Re-Qualify for Asset Metering Systems

QUESTIONS

ELEXION

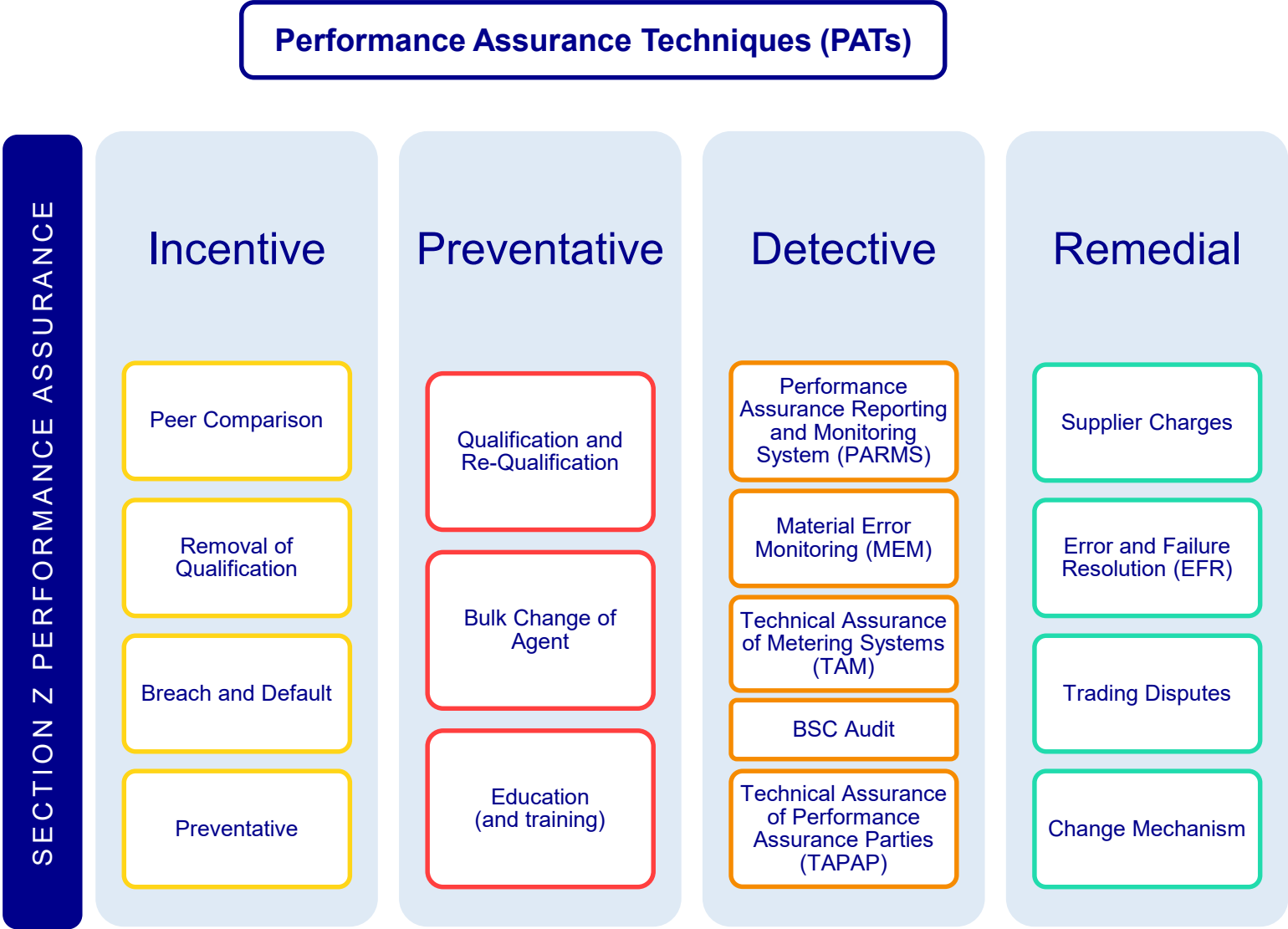
Assurance for P375

Beth Procter

7 December 2021

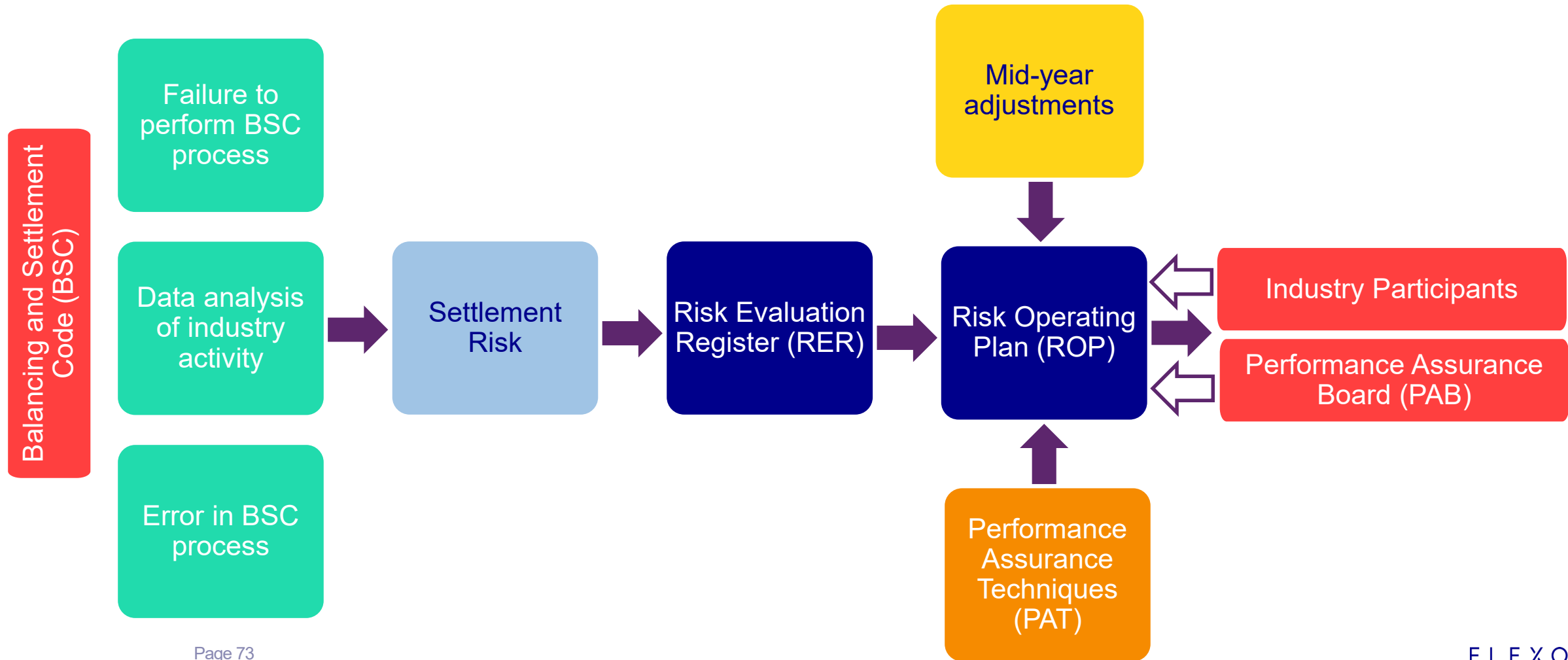


Performance Assurance Framework (PAF)



Performance Assurance Framework (PAF)

Performance Assurance Period (PAOP) 1 April – 31 March





R0025: The risk that Balancing Services provided by Virtual Lead Parties, Asset Metering Virtual Lead Parties and Suppliers allow error to enter Settlement, such that the energy volumes required for Settlement are incorrect or missing.



Assuring Asset Independence

BSCCo will perform statistical monitoring to identify AMSIDs that may not be acting independently of the other assets on-site

Six months after implementation

Report to PAB by exception
If investigation needed a Risk Management Determination can be taken to PAB to decide if we need to take further action
Report to feed into risk assessment of Risk 25

Enduring solution

Quarterly reporting
Report to PAB by exception.
If investigation needed a Risk Management Determination can be taken to PAB to decide if we need to take further action Report to feed into risk assessment of Risk 25 and annual ROP process

Note if this Risk is not a focus risk in any given year no work by the PAF will be done on this Risk.



Assuring Metering Systems

Risk 25 Inclusion in Risk Operating Plan and TAA Annual Scope
(pending PAB approval)

2022/2023 PAOP
Six months after implementation

TAA specific sample
Supported by ad hoc targeted visits triggered by statistical monitoring
Reported to PAB and TAMEG within the normal TAA reporting

2022/2023 PAOP
10 months after implementation

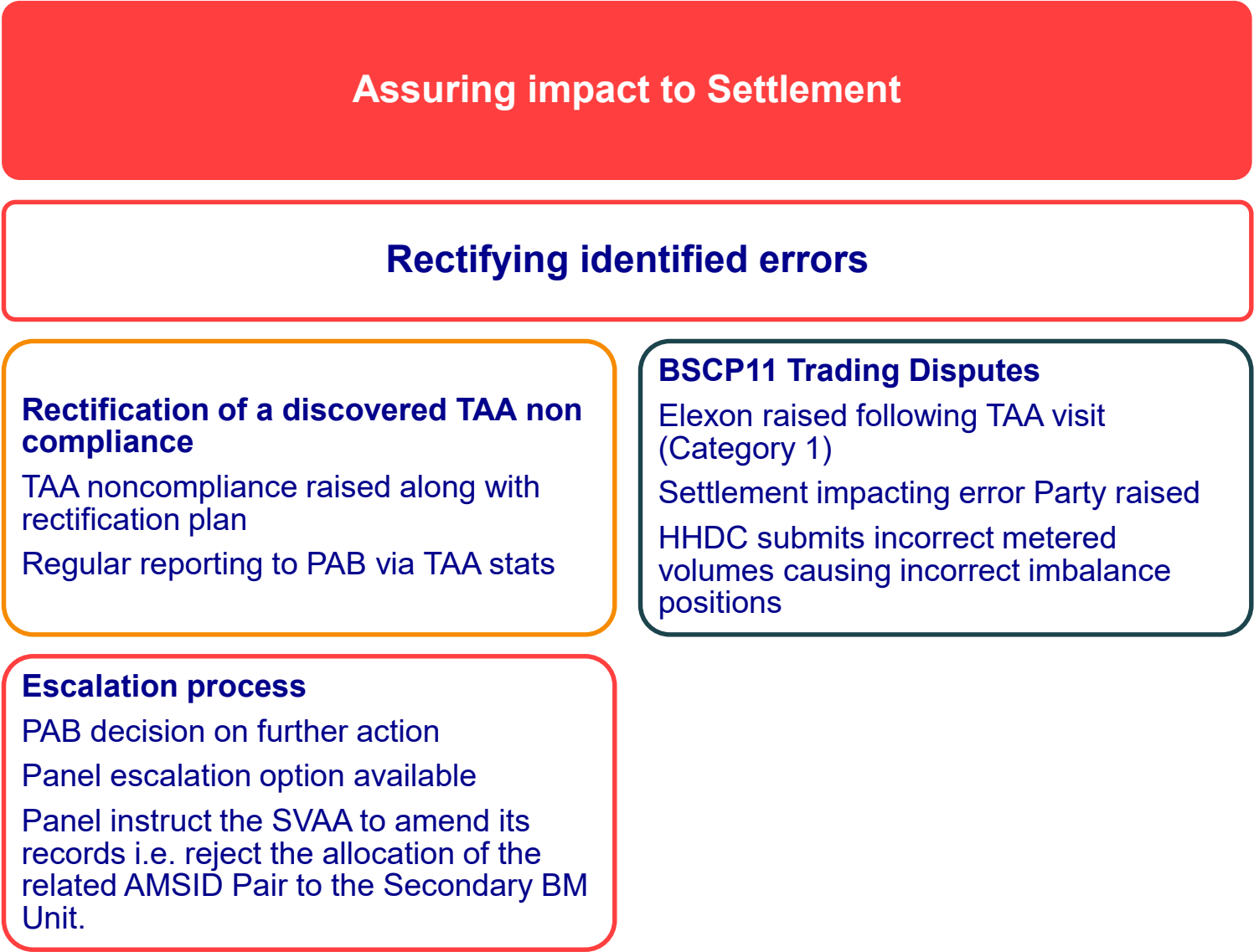
TAA specific sample
Supported by ad hoc targeted visits triggered by statistical monitoring
Reported to PAB and TAMEG within the normal TAA reporting

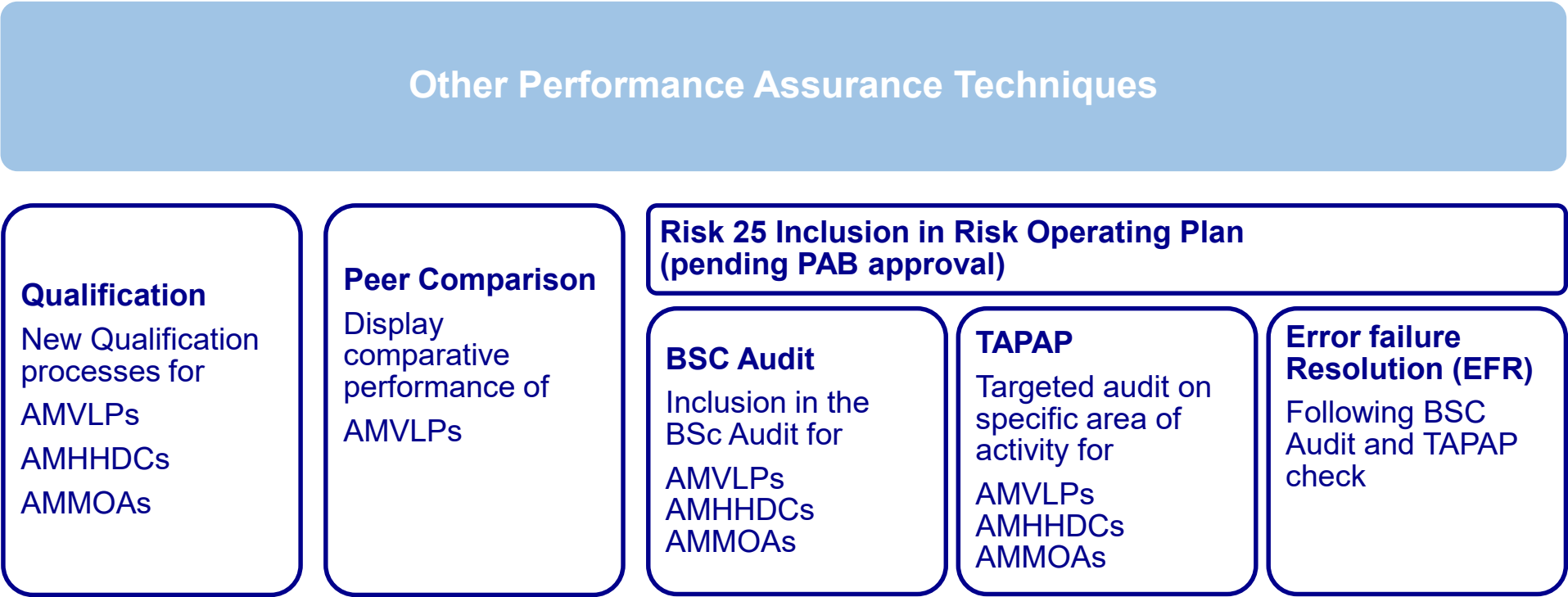
Asset registration evidence check

AMVLP will be requested to provide evidence that the asset is independent of other site loads

Enduring Solution

Annual Settlement risk, (risk 25) assessment
Included in annual prioritisation exercise and Risk Operating Plan (ROP)
Deployment of relevant PATs







WWW.ELEXON.CO.UK



CONTACT DETAILS

BETH PROCTER
TECHNIQUE MANAGER
BETH.PROCTER@ELEXON.CO.UK

RISK TEAM EMAIL
RISK@ELEXON.CO.UK

QUESTIONS

ELEXION

Industry testing

Diljot Gulshan

7 December 2021

Testing – Introduction & Scope

The P375 changes will need to be tested by industry participants impacted by the changes (i.e. Virtual Lead Parties that intend to use Asset Metering, Half Hourly Data Collectors, Meter Operator Agents and Half Hourly Data Aggregators).

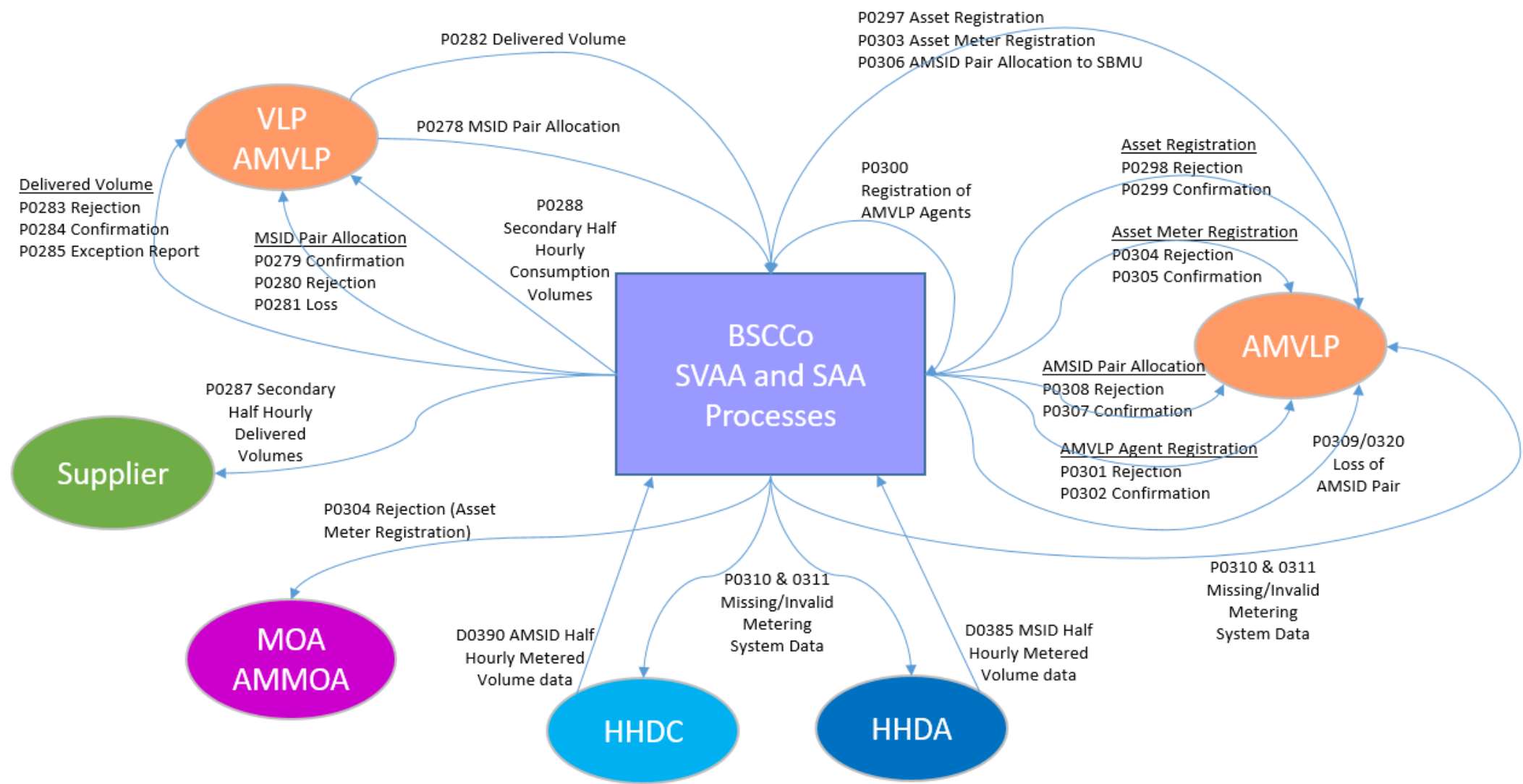
By this point, the release will have already undergone System, Integration, Operational Acceptance and User Acceptance testing by the P375 project team. Therefore, this will be the final validation phase before the release goes live in June 2022.

Industry testing execution is scheduled to take place between 6 June and 17 June 2022.

Scope of Testing

- Validation of the 24 new P-flows introduced for P375 and new versions of 5 of the P-flows that were introduced for P344 (*as shown is diagram on next slide*). This includes validation of new and amended interfaces associated with the provision of AMSID data.
- Validation of the P375 business process stages below via Salesforce Communities screens and P-flow testing
 - ✓ *Registration of an Asset by AMVLP (Stage 1)*
 - ✓ *Registration of Asset Metering System AMVLP Agent (Stage 2)*
 - ✓ *Registration of Asset Meter Details (Stage 3)*
 - ✓ *Allocation of AMSID Pairs to Secondary BM Units (Stage 4)*
 - ✓ *Sending Data to SVAA (HHDC submits AMSID Metered Data Volume and AMVLP submits MSID/AMSID Pair Delivered Volume)*
- AMVLPs to provide system usability feedback for the new and amended PMP Salesforce Communities screens for any future enhancements

Testing – Scope (P-flows diagram)



Testing – Approach

Testing will be carried out via below two methods:

1. Exchange of sample data flow files (for testing the P-flows)
2. Manual input via the Salesforce Communities screens (for testing the Registration Stages 1-4)

1. Exchange of data flow files

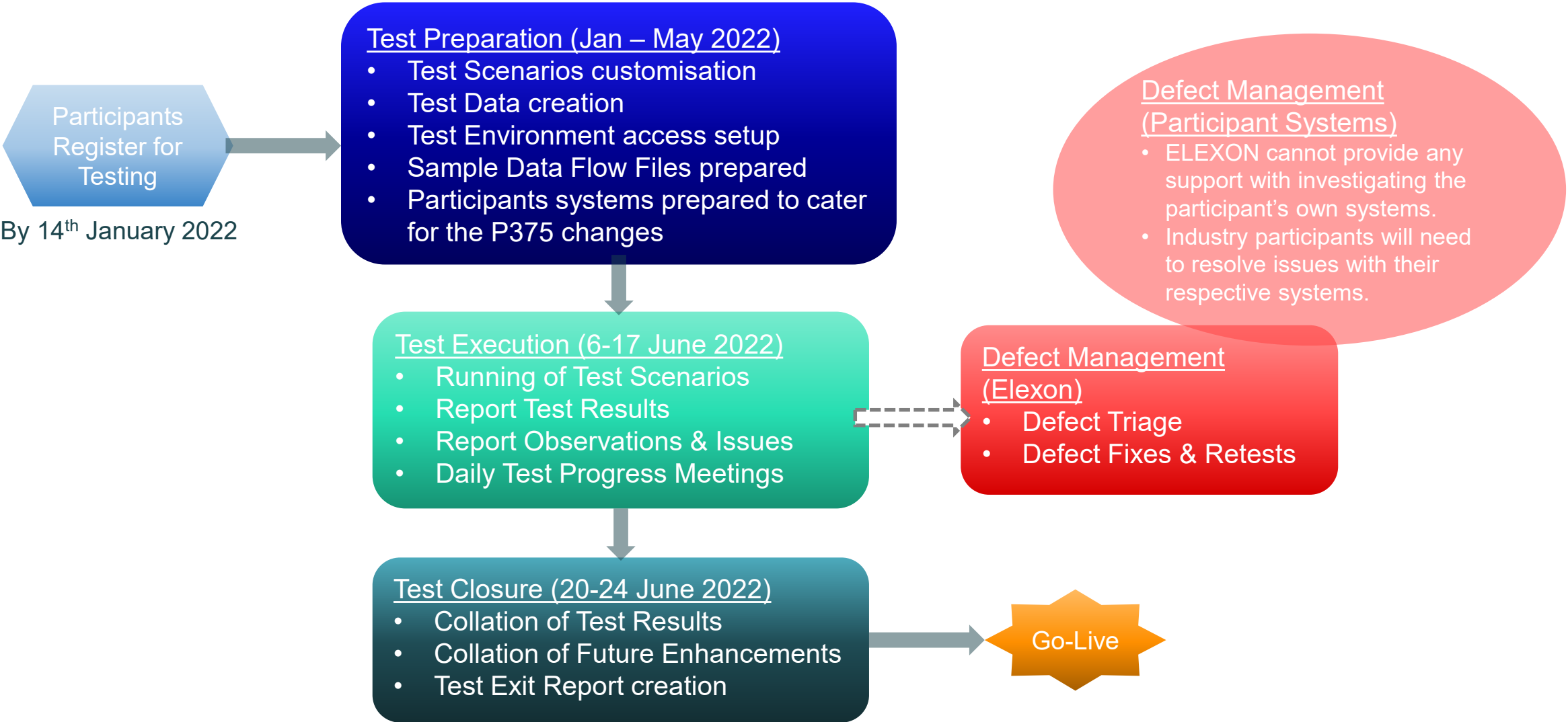
- Elexon will provide the participants with relevant sample files for the data flows in scope.
- Where possible, sample files will be exchanged using the actual mechanisms and paths planned for live operation such as FTP or upload via Salesforce Communities screens. Where this is not possible, sample files will be exchanged manually via email or a web page (whichever is most suitable). Where the content is confidential it will be encrypted and password protected.
- Full details on the process for exchanging files via FTP or otherwise will be shared with the participants prior to the start of testing. Elexon will also need certain information from participants in order to complete the FTP setup. Elexon will request this information from participants in due course.

2. Salesforce Communities screens

- Both P-flow and Communities screens tests have been included in the Test Scenarios list for each of the Registration stages. It is recommended that participants carry out testing via the Salesforce Communities screens as far as possible for this functionality. However, where this is not possible then, testing can be carried out via exchange of p-flow data files.
- Details of how to access Salesforce Communities screens will be provided by the Elexon project team.

Participants will also be given the required set of **Test Data** to use for testing. This will include relevant dummy Organisations, qualified AMVLPs, CoP complaint Asset Meters, AMVLP Agents, MSID Pairs and Secondary BM Units.

Testing – Process



Testing – Next Steps

1. The Industry Test Strategy & Scope and Industry Test Scenarios documents have been shared with potential participants. Please review these if you haven't already done so and email the Elexon 'Releases' mailbox Releases@elexon.co.uk if you have any questions.
2. **Please register your interest to take part in testing via email to Releases@elexon.co.uk by 14 January 2022, stating which BSC Party and role you will be testing for.**
3. Once participants have registered for testing, Elexon will engage these participants to further customise the test scenarios and also to coordinate plans for test preparation and test execution. Relevant further sessions with participants will be arranged as appropriate for next year (2022).
4. A testing kick off session will be held prior to the start of test execution in June to run through test activities planned, responsibilities, timelines and to answers any questions.

QUESTIONS

ELEXON

THANK YOU

Release webpage: <https://www.elexon.co.uk/release/june-2022-release/>

Circulars subscription: <https://www.elexon.co.uk/news-events/subscriptions/>

Q&A and close

Releases@elexon.co.uk

7 December 2021