



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

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# E2E Onboarding Guide

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## 1.1 UPDATES TO ONBOARDING

	Author	Version	Change Detail
26/09/2023	David Gardiner	V1.0	Approved – Issued document
27/09/2023	David Gardiner	V1.1	Included overview of DIP Member Roles – Section 3.2
28/09/2023	David Gardiner	V1.2	Updated the GlobalSign process with a more detailed 14 steps and included detailed screens for guidance through the GlobalSign registration and verification
03/10/2023	David Gardiner	V1.3	Included updates to the Certificate generation and upload process (Sec 4-7)
23/10/2023	David Gardiner	V1.4	Included changes to DNS and new Section 5 screen.
25/10/2023	David Gardiner	V1.5	Included IMPORTANT new ‘Host’ and ‘Domain’ actions in Section 6
27/10/2023	David Gardiner	V1.6	Inclusion of Addendum with OpenSSL guidance and the FAQ
31/10/2023	Dolapo Adeyemi	V1.7	Additional clarification on certificate generation in sections 5 and 6 (slides 33, 38 and 41)
24/11/2023	Dolapo Adeyemi	V1.8	Clarification on GS vetting, how to request DCP Status and how to Nominate a DCP

This Onboarding guide is published for the CIT phase of the MHHS Programme - this is subject to update and change for future phases / enduring / BAU and will be re-published in line with any updates.

## 1.2 Key Terminology Explained

Term	Description
ADO	Azure DevOps
AKV	Azure Key Vault
API	Application Programmable Interface
ARO	Appointed Responsible Officer
CER	A .CER is an SSL Certificate File Format
CSR	Certificate Signing Request
CSV	Comma-Separated Values
CI	Component Integration Testing
DIP	Data Integration Platform
DCP	DIP Connection Provider
DNS	Domain Name System
GS	GlobalSign
MFA	Multi-Factor Authentication
PFX	Personal Information Exchange
SIT	System Integration Testing
SRO	Senior Responsible Officer
SSL	Secure Socket Layer
SSL OV	SSL Organisation Validation

### 2.1 Support and Assistance

It is understood that the process to onboard to the DIP has many intricate steps. We fully believe that if prepared correctly, these steps should complete successfully and allow a smooth onboarding, however, we understand that sometimes things do not go as you expect, and a helping hand is needed.

If this situation arises, please send an email to [DIP@mhhsprogramme.co.uk](mailto:DIP@mhhsprogramme.co.uk) with your contact details, description of the step/stage you have reached, a short description of the problem you have encountered and someone will respond as soon as possible.

### 2.2 Preparation Reminder

Before onboarding please complete the following actions:

1. Have ready the assigned Certificate Admin details
2. Have your registered Company Name, the associated Company Number and a brief company description
3. Have your DNS admin prepared and ready for the DNS activity (Section 4)
4. Have your Technical Contact, with the ability to manage through the conversion of certificates, on hand to assist (Section 4 and 5)
5. Do not add additional Market Participants during onboarding: wait until onboarding completion. The User Admin can add new members or/and instigate a DIP Connection Provider (DCP) link after an ACTIVE Certificate has been uploaded

### 2.3 Post Onboarding

Ensure you have set up to optimise your DIP experience:

1. Read the DIP User Guides to understand the functions and features in detail
2. Ensure at least 2 each of User Admin, Certificate Admin and Message Admin are invited and joined the DIP to allow cover during holiday or absence situations
3. Remember that members can have multiple roles – use according to your needs
4. Try out the 'links' and supporting materials

### 3.1 Introduction

The E2E Onboarding process involves a fixed sequence of activities which must be followed accurately and in the correct order, to ensure successful onboarding completion and therefore readiness to perform the DIP SIT/CIT. The DIP Certification Process Map (DCPM) (available on the MHHS Collaboration Base) provides guidance on each of the critical 17 steps for all Market Participants. The published DIP High-Level Process Model to CIT/SIT provides advice and guidance on pre-registration preparation, extended process steps and suggested test stage actions for each onboarded Market Participant.

### 3.2 DIP Member Roles

Within the DIP there are four Market Participant member roles which can be assigned. Any organisation member invited to the DIP can have either a single role or be assigned multiple roles (allowing all four assigned to one person).

Section	Section Header	Description
1	User Admin	The User Admin is the person who will receive the invitation from the DIP Team to join the DIP. The User Admin role, when assigned to any member, provides the functions to add other DIP Members and manage DIPID's.
2	Certificate Admin	The Cert Admin is responsible for all certificate management, including registration, GlobalSign verification, completion of the certificate upload, and ongoing certificate maintenance. Given the scope of the role this may be multiple people at different parts of the process. The appointed individual(s) would incorporate the PKI roles of SRO, ARO and TC.
3	Message Admin	Will have the control and ownership of all activities relating to message processing, replay and management.
4	Analytics Reader	Will only have access to review the DIP Dashboard feature.

### 3.2 Onboarding Guide Overview

The following table provides the overview of the onboarding sections requiring completion for onboarding – each to be followed in sequence.

Section	Section Header	Description
1	User Admin Invitation	Invitation to advised User Admin to join the DIP and sign in instructions
2	Cert Admin Registration	Cert Admin sign-in and GlobalSign registration initiation
3	GlobalSign Registration & API Key Generation	Cert Admin conducts the GlobalSign instructions through to validation
4	Create a PFX certificate to Upload to the DIP	Ensure DNS is correctly set up and prepare PFX for DIP
5	Upload the PFX file to the DIP and set DNS	Upload the PFX file to the DIP and ensure DNS has been validated
6	Complete the DIP set up	Activate the certificate and conclude onboarding to the DIP
Optional	How to Add / Edit Members	Provides advice on how to add new members and edit current member roles
Optional	Nominate a DIP Connection Provider (DCP)	Provides the actions required to nominate a DCP for your organisation
Addendum	<b>Advice for using OpenSSL</b>	The set of useful commands for OpenSSL instead of Azure Key Vault, which can be used at the relevant points during onboarding
Addendum	<b>FAQs</b>	A list of common questions and advice needed



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# Section 1 – User Admin Invitation to Join the DIP

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## The Invitation to Join the DIP

The process for onboarding will commence with the Market Participant's (MP) nominated **MP User Admin** receiving an email from the Programme **DIP Manager/Team** inviting them to join the DIP: The DIP Team will contact your organisation prior to your onboarding to receive the name of the MP User Admin.

The email sent to the MP User Admin will contain a link to the DIP 'Sign in' home page which is shown in the forthcoming pages. The MP User Admin must complete sign-in and then verify/complete the company profile and assign a nominated **MP Certificate Admin (SRO/ARO)** who will then request, generate and conclude the creation and upload of their certificate so they are ready to start the relevant DIP CIT/SIT testing.

Multi-Factor Authentication (MFA) is a mandatory set up for all users who will be accessing the DIP. The MFA set up will initiate during the first sign in of each invited user and an MFA request will occur each time any user signs in thereafter.

## Preparation

In advance of the MP User Admin clicking the link to the Elexon DIP 'Sign in' page:

1. Have a name ready for the assignment of the Certificate Admin role
2. Complete and return your **DIP Onboarding Preparation Pro-Forma** to [dip@mhhsprogramme.co.uk](mailto:dip@mhhsprogramme.co.uk)
3. Ensure the Company Name used is the full legal registered name at Companies House

### IMPORTANT

The onboarding process is the same for both MP's and DIP Connection Providers (DCP).



## Invitation to join the DIP

The invitation from the DIP Manager/Team will arrive to the **MP User Admin** email address provided. The process will begin with the MP User Admin clicking on the '[link to the DIP Portal Sign in](#)' within the email invitation they receive from the DIP Team.

### Example email>



NOTE: The DIP has been designed to operate optimally on current or current-1 versions of Chrome or Edge browsers.

Other browsers may work but may not perform in an optimal way.

If you do not receive the invite, once you are advised it has been sent, please use this link to get started:

**[Https://Portal.SIT.energydataintegrationplatform.co.uk](https://Portal.SIT.energydataintegrationplatform.co.uk)**

You should ensure this is WHITE listed and is not subject to quarantine or a suspected phishing delay.

## SECTION 1 – Sign in to the DIP

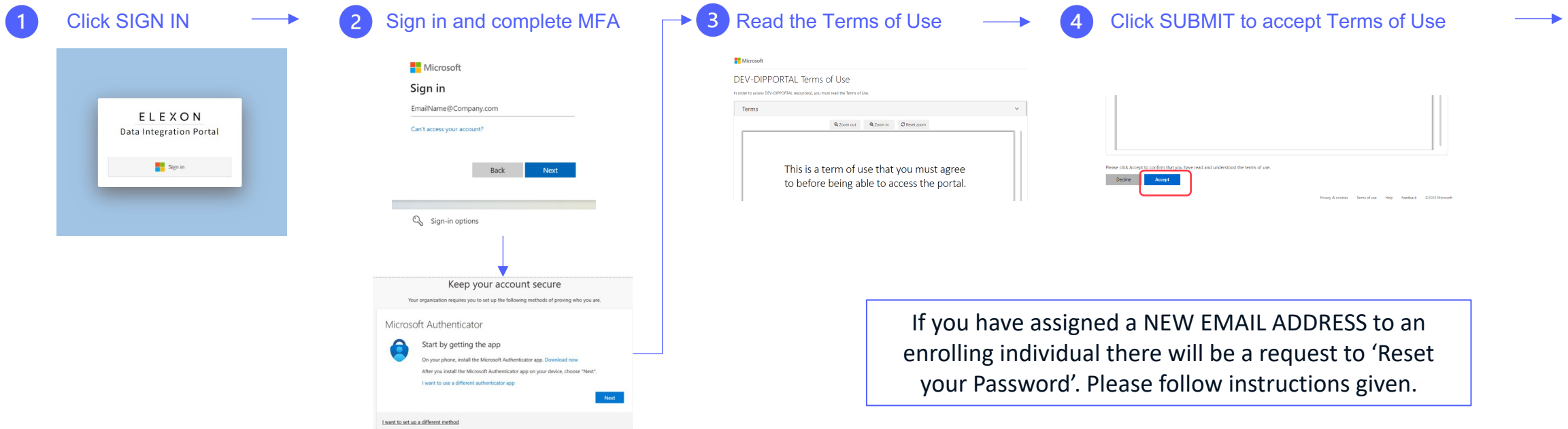
### The initial Sign-in to the DIP

Sign in to DIP:

1. You will be able to use your own, current email address to sign in
2. Set up your authenticator tool on your mobile or secondary device in advance: Microsoft Authenticator is recommended

### Sign-in to the DIP

Please follow steps 1-9 to complete the User Admin set up and Certificate Admin invitation.



## Section 0 – Verify Company Details

### Complete and/or verify Company Details

The User Admin must enter/check the company details and create a Certificate Admin user or assign Cert Admin role to themselves if operating in both roles.

 Optional

 Mandatory

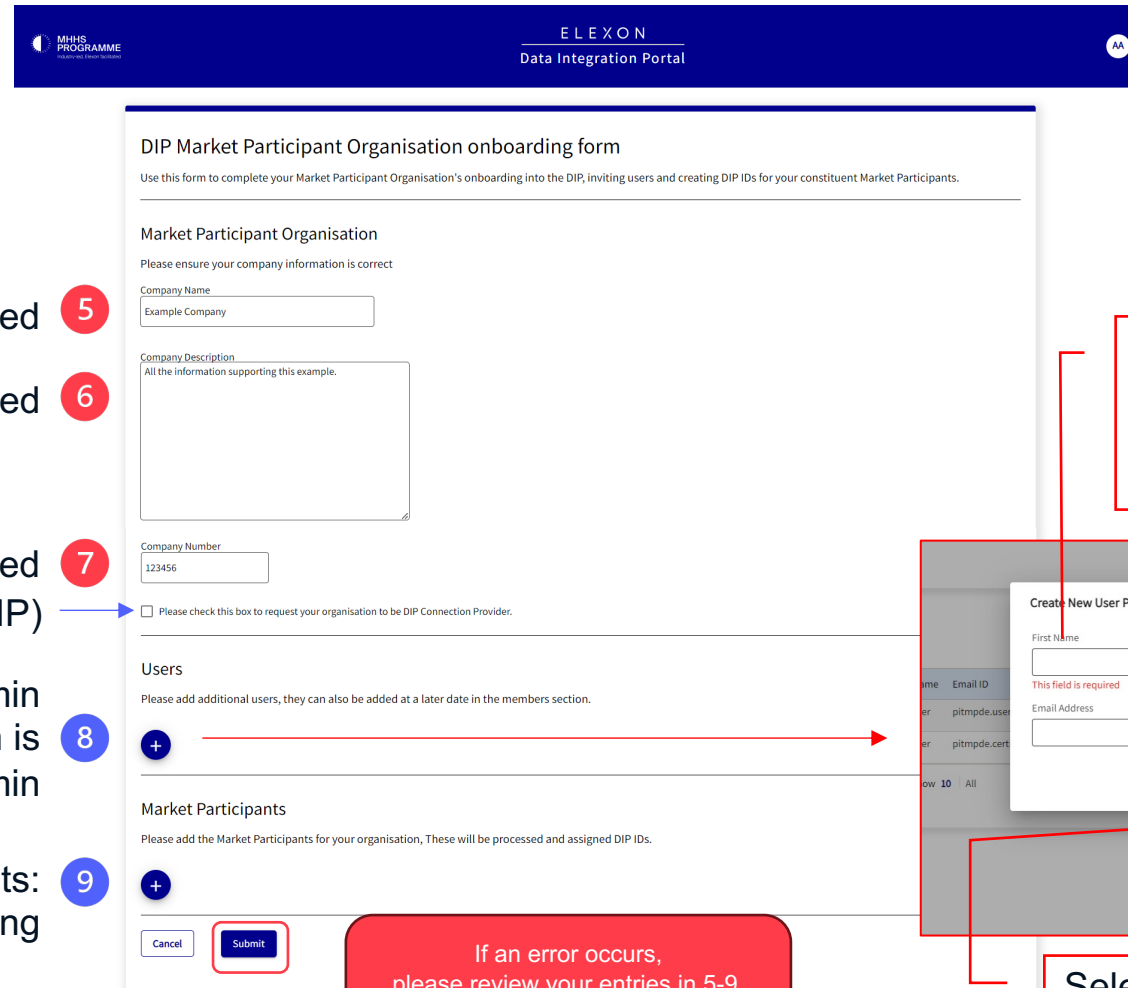
Check/ amend Company Name if required **5**

Check/ amend Company Description if required **6**

Check/ amend Company Number if required **7**  
(Click here if you are acting as a DCP in the DIP)

Click the '+' to create a Cert Admin if the Pro-forma has not advised the User Admin is also the Cert Admin **8**

Please **DO NOT ADD** any Market Participants: This is not relevant to your company's onboarding **9**



### Note for Step **8**

Your first Cert Admin must be a permanent member of your organisation. Once vetting and registration is complete, you may now add more cert admins which may include technical contacts or 3<sup>rd</sup> parties

Enter full name and email of the user

If an error occurs, please review your entries in 5-9, rectify errors and click **SUBMIT** again.

Select the user role from the drop down (a user can have multiple roles)

## Section 1 – User Admin Home Page

### The User Admin Home Page

On completion of a successful submission of the required details the following screen will be displayed for the User Admin.

The User Admin will be provided the 'DIP IDs' and 'Members' tab, Cert Admin the 'Certificates' tab, and if you have both roles all three will appear.

The screenshot displays the ELEXON Data Integration Portal interface. At the top, a dark blue header bar contains the MHHS PROGRAMME logo, the ELEXON logo, and the text 'Data Integration Portal' with a user profile icon labeled 'PU'. Below the header is a navigation menu with 'HOME' and 'MARKET PARTICIPANT ORGANISATION' (highlighted with a red box). The main content area is divided into two columns. The left column features a 'Welcome to the Data Integration Portal (DIP)' message. The right column contains 'Quick Links' and 'Support' sections. A 'Super Energy Co' profile is shown below, including a table of attributes and a 'Members' tab highlighted with a red box. A 'Create Member' button and a search bar are located at the bottom right.

### Portal Area Description

- 1 Identity of the logged in user
- 2 ELEXON Header Bar
- 3 Navigation/Menu options
- 4 Welcome Area
- 5 Common tools and functions

Further details of functions and features, by Portal Role Types, will be available in the **MHHS DIP Portal User Guide**



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# This concludes the User Admin registration

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# Section 2 – Certificate Admin Registration

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## SECTION 2 – Certificate Admin Registration

### Certificate Admin Sign in

Once the User Admin has completed Step 8 of the previous process, the Certificate Admin will receive an email invitation, from the User Admin, to join the DIP.

The email will contain the details for sign in to DIP. Click the 'Link to DIP Portal Sign in' contained within the email invitation to commence registration.



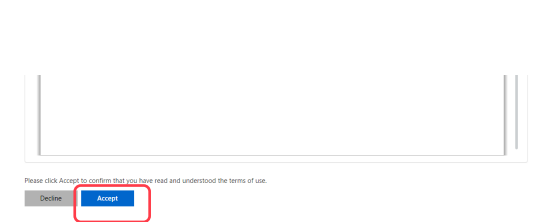
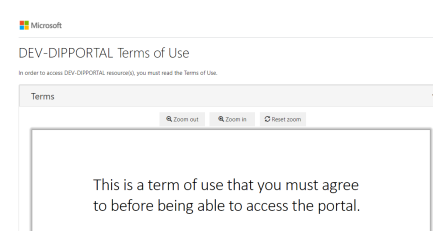
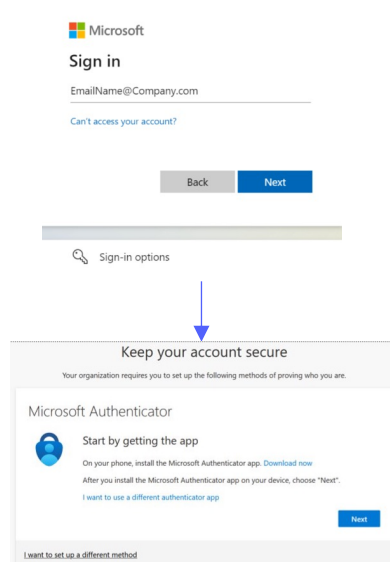
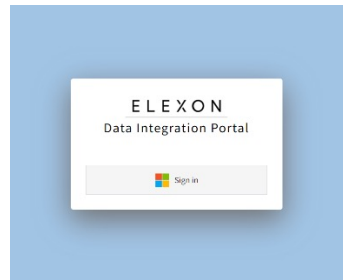
NOTE: The DIP has been designed to operate optimally on current or current-1 versions of Chrome or Edge browsers.

Other browsers may be used but may not perform in an optimal way.

**The Cert Admin can use this link if email is not received-  
[Https://Portal.SIT.energydataintegrationplatform.co.uk](https://Portal.SIT.energydataintegrationplatform.co.uk)**

Follow the 4-step Sign in process to gain access to the GlobalSign Verification process:

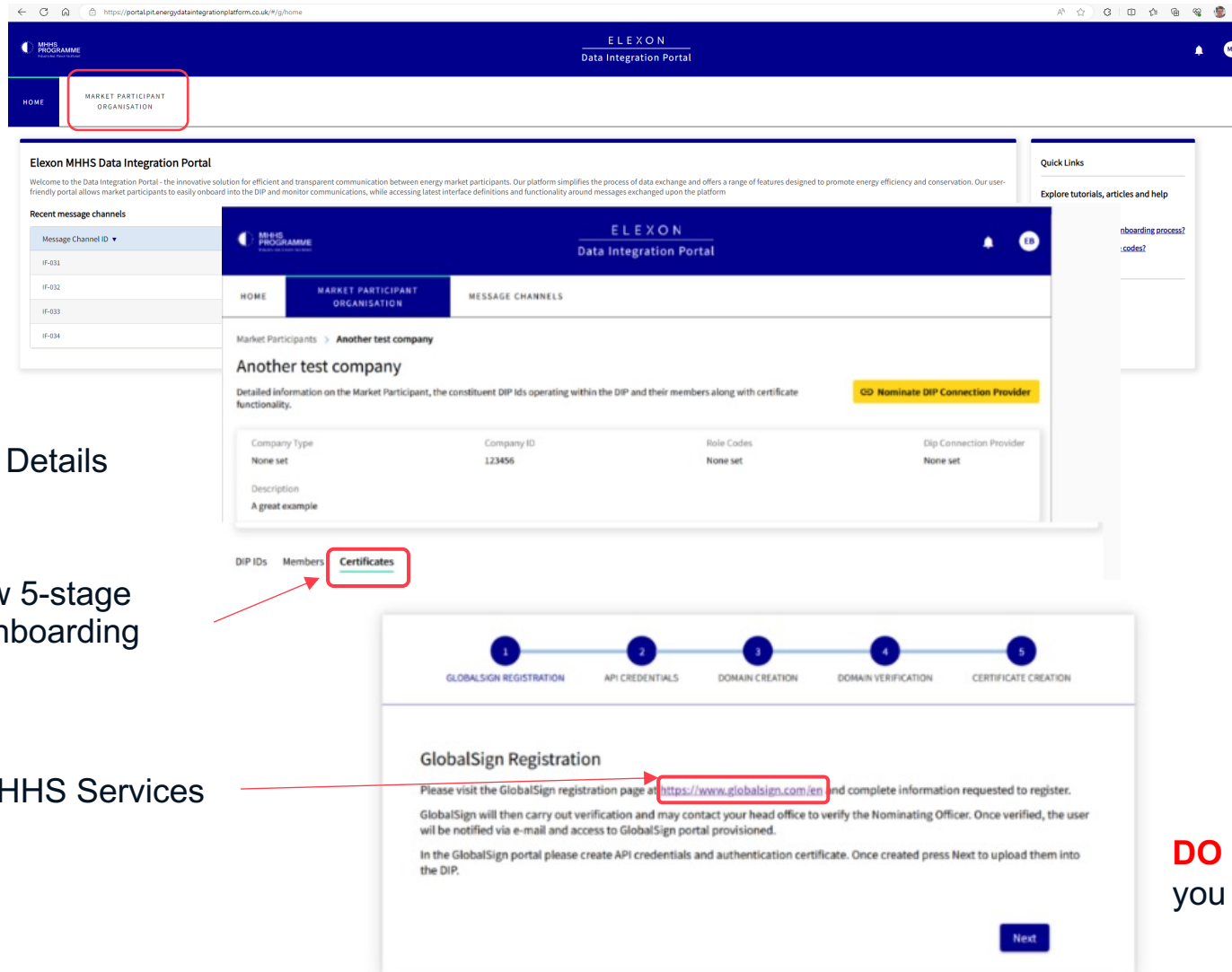
- 1 Click SIGN IN →
- 2 Sign in with email/password →
- 3 Read the Terms of Use →
- 4 Click SUBMIT to accept Terms of Use →



## The DIP Certificate Generation Process (GlobalSign)

The Certificate Admin must follow the following 4 Steps to commence the GlobalSign validation process:

- 1 Select 'Market Participant' from the navigation menu
- 2 Check details of MP Company Details are correct
- 3 Select 'Certificates' tab to show 5-stage GlobalSign Registration and onboarding screen
- 4 Click the 'link' to GlobalSign MHHS Services registration page



**IMPORTANT**

**DO NOT CLICK 'NEXT'** until you complete Sections 3 & 4.





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# Section 3 – GlobalSign Registration & API Key Generation

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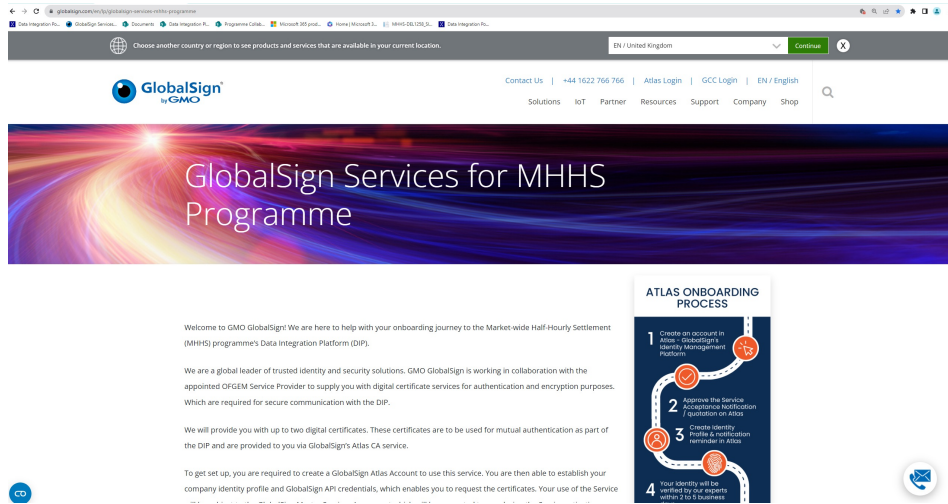
## SECTION 3 – Certificate Admin Registration

### The GlobalSign Registration and Verification

After clicking the link to the GlobalSign Services for MHHS home page, the Certificate Admin must complete the following 5 steps.

1

Read the GlobalSign MHHS introduction and scroll down screen



#### GENERAL NOTES

1. Ensure you follow the GlobalSign steps as outlined in the Onboarding Guide. DO NOT skip any steps / follow steps out of sequence.
2. Always check your spam when you're stuck or expecting an email from GS.
3. Wait for confirmation that account binding is done from GS and API credential ready to use before using your credentials. Otherwise, your certificate will be created before the API Keys gets bound to your account, and you will run into problems with your certificate down the line.

2

Complete the form in the lower half of the GlobalSign MHHS screen

#### Get Started with Atlas

##### About You


Tell us a bit about yourself

First Name *	Last Name *
Job Title *	Contact Phone Number
Email *	

##### Your Organisation

Please provide the official registration details of your organisation

Company Name *	Website *
Address Line One *	Address Line Two
City *	Postal Code *
Country *	

I'm not a robot 

View our [Privacy Policy](#) to understand how we collect and use your personal data.

Submit

3

#### IMPORTANT INSTRUCTIONS

1. The details entered in fields FIRST NAME, LAST NAME, JOB TITLE in the 'About You' section should be the person dealing with the certificate request (Cert Admin) and GlobalSign vetting. Global Sign will contact the named individual and verify they are a current full-time employee and authorised to create a signing certificate.
2. The EMAIL ADDRESS provided is where all Global Sign communications will be sent for vetting only.

This should be the **Certificate Admin's** email address.

It is also acceptable to have a 'generic' email which is available to multiple people to monitor but must be accessible by the Cert Admin.

3. Please enter a direct contact number of the Cert Admin into 'Contact Phone Number': utilised to help in case the primary verification is unsuccessful
4. Click 'I am not a robot' then SUBMIT to conclude

## SECTION 3 – Certificate Admin Registration

### The GlobalSign Registration and Verification

The email from GlobalSign will include their 12-step guide in the way of an itemised checklist – please follow as instructed.

After completing and submitting the GlobalSign Online Form an email will be received (as below) with a 12-step guide

Thank you for starting your GlobalSign onboarding process as part of your onboarding to the Market-wide Half-Hourly Settlement (MHHS) programme's Data Integration Platform (DIP).

To continue your journey, we have listed each of the GlobalSign Atlas Portal steps in the order they will need to be followed in. Please take a moment to read through all of the steps before starting.

Please note, you will not be able to continue your DIP registration until you have completed the GlobalSign onboarding process.

- 1 You will receive an email titled "New User Registration" from [noreply@atlas.globalsign.com](mailto:noreply@atlas.globalsign.com) inviting you to join a GlobalSign Atlas Portal Account. Please follow the instructions in the email to proceed.
- 2 You will receive a email titled "Password Reset Code - GlobalSign Atlas". Please use this code to create a new password. You can now login using your email and new password.
- 3 You will be notified within 24 business hours by email from [noreply-atlas@globalsign.com](mailto:noreply-atlas@globalsign.com) that your service quotation is ready for your approval. You will also receive an email from a representative of GlobalSign from [firstname.lastname@globalsign.com](mailto:firstname.lastname@globalsign.com) with instructions  
Log in to your Atlas Account and Approve the quotation
- 4 Select 'Identity Profile' tab and create a new Identity Profile for your IntranetSSL OV service
- 5 At this stage, your Organization Identity Profile will undergo Vetting. You will be notified once this process is complete, and you will be instructed to continue to the next step.  
Once the vetting process has been completed, and only when instructed to do so, please login to your Atlas Account.
- 6 In the left menu, under the 'Access Credentials' tab, select 'API Credentials' and then click the 'Generate an API Credential' button in the top right corner
- 7 Select 'View and Copy' generation method
- 8 Select the service IntranetSSL (OV) to link your credentials to your vetted Atlas Organization profile
- 9 Input a familiar name - something to help you easily identify the service
- 10 GlobalSign will now configure your Atlas service to connect to the MHHS Programme PKI hierarchy.
- 11 Please wait for confirmation email from a representative of GlobalSign that the service can now be used
- 12 Once completed, continue to the next step of the DIP Onboarding Guide.

The following pages will provide guidance on the key steps of the GlobalSign ATLAS requirements. Steps 1-4 are self explanatory: note the 24hr window for Step 4.

Email arrival time:

within 30 minutes of completing the online form and receiving the 12-step email

Within 1 minute of clicking the 'New User Reg' link

Up to 24hrs

May arrive within 1hr of step 2 completion

1 You will receive an email titled "New User Registration" from [noreply@atlas.globalsign.com](mailto:noreply@atlas.globalsign.com) inviting you to join a GlobalSign Atlas Portal Account. Please follow the instructions in the email to proceed.

2 You will receive a email titled "Password Reset Code - GlobalSign Atlas". Please use this code to create a new password. You can now login using your email and new password.

3 You will be notified within 24 business hours by email from [noreply-atlas@globalsign.com](mailto:noreply-atlas@globalsign.com) that your service quotation is ready for your approval. You will also receive an email from a representative of GlobalSign from [firstname.lastname@globalsign.com](mailto:firstname.lastname@globalsign.com) with instructions

Log in to your Atlas Account and Approve the quotation

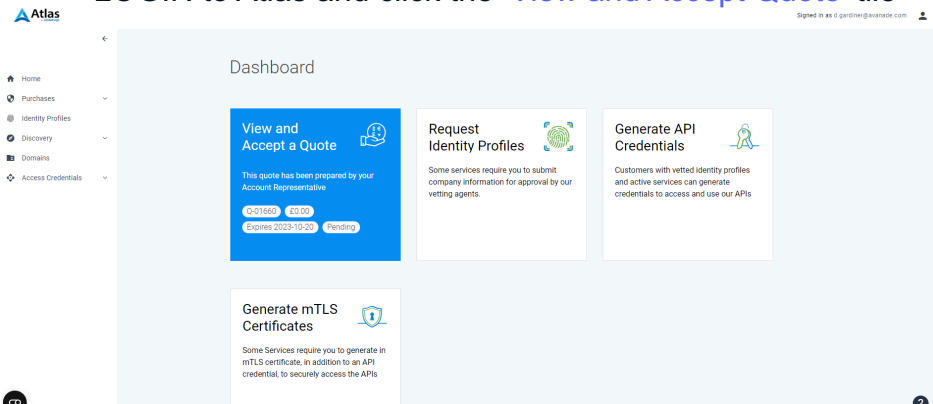
See next 2 pages for screens expected to complete your quotation in the Atlas account

# SECTION 3 – Certificate Admin Registration

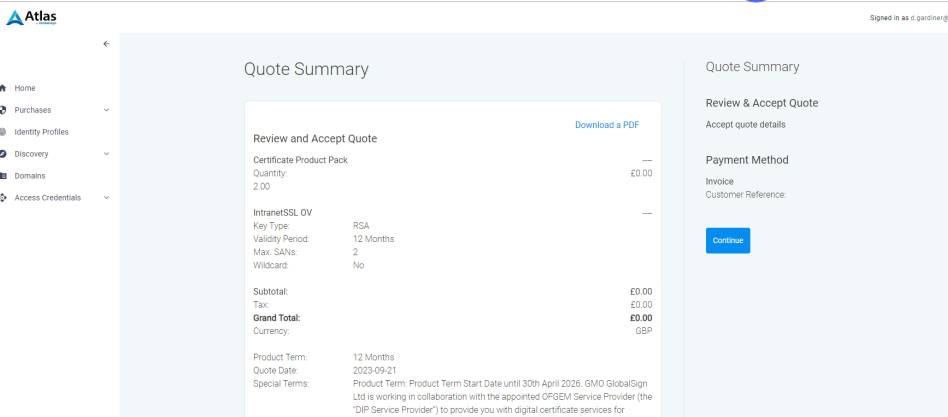
## STEP 5 – Approve the quotation (1 of 2)

NOTICE: Your quotation is ready, a BLUE TILE will appear in your dashboard. Click this to continue through the onboarding process.

1 On receiving the email advising you're your quotation is ready, LOGIN to Atlas and click the 'View and Accept Quote' tile

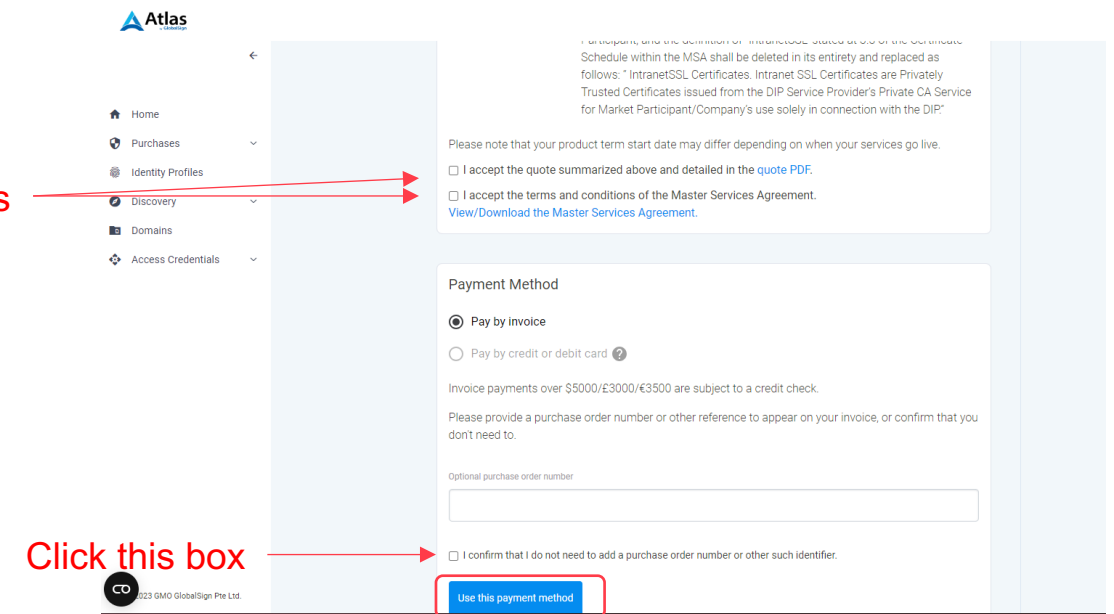


2 The £0 quotation will appear. Scroll down the page to complete the quotation acceptance see step 3



3 Follow the guidance in the email and complete the tick box selections shown

Click both boxes



Click this box

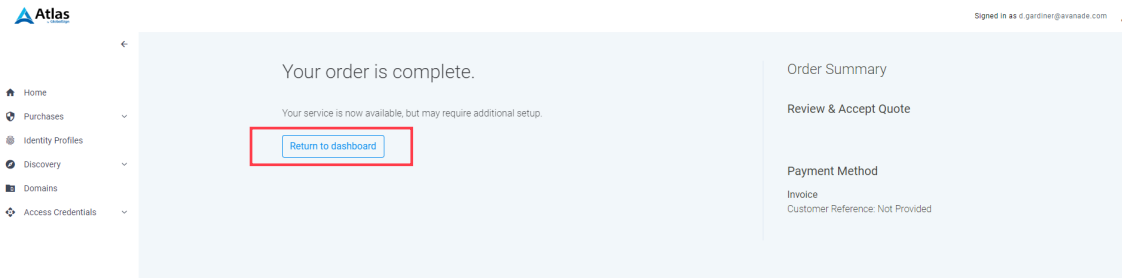
Complete quotation acceptance by clicking 'Use this payment method' button

Please find the link to the [GlobalSign MSA here](https://www.globalsign.com/en/repository/GlobalSign_Master_Services_Agreement.pdf):  
[https://www.globalsign.com/en/repository/GlobalSign\\_Master\\_Services\\_Agreement.pdf](https://www.globalsign.com/en/repository/GlobalSign_Master_Services_Agreement.pdf)

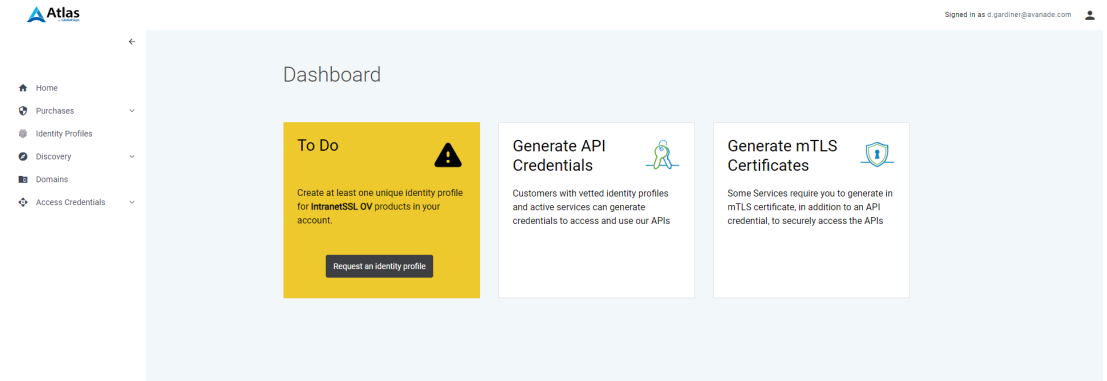
## SECTION 3 – Certificate Admin Registration

### STEP 5 – Approve the quotation (2 of 2)

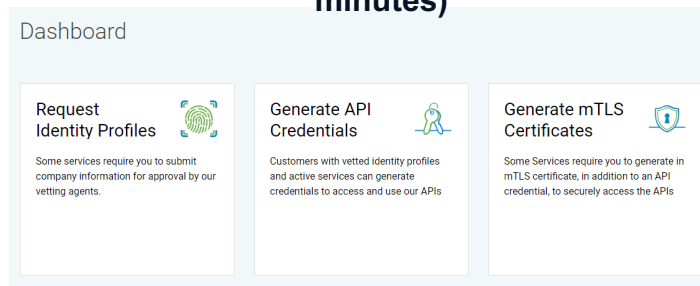
- 4 The following screen will appear when you accept the payment method – please click RETURN to DASHBOARD



- 5 Start STEP 4 (of the 12-step guide on slide 19) by clicking the new mustard coloured tile.



The DASHBOARD will default to the below 3 tiles – please await the **MUSTARD TILE in Step 5** before proceeding (up to 20-30 minutes)



## SECTION 3 – Certificate Admin Registration

### Step 6 – Create the Identity Profile

Step 4 requires accuracy in completion of the Identity Profile. Each field will be used to verify the name provided is a known full-time employee of the company ORGANISATION NAME (O). **ADVICE – let your receptionist know an anonymous call may be received to avoid issue**

- 1 You will receive an email titled "New User Registration" from [noreply@atlas.globalsign.com](mailto:noreply@atlas.globalsign.com) inviting you to join a GlobalSign Atlas Portal Account. Please follow the instructions in the email to proceed.
- 2 You will receive a email titled "Password Reset Code - GlobalSign Atlas". Please use this code to create a new password. You can now login using your email and new password.
- 3 You will be notified within 24 business hours by email from [noreply-atlas@globalsign.com](mailto:noreply-atlas@globalsign.com) that your service quotation is ready for your approval. You will also receive an email from a representative of GlobalSign from [firstname.lastname@globalsign.com](mailto:firstname.lastname@globalsign.com) with instructions  
[Log in to your Atlas Account and Approve the quotation](#)
- 4 Select 'Identity Profile' tab and create a new Identity Profile for your IntranetSSL OV service

Please note that the 'identity profile' tab is the MUSTARD TILE shown step 5 on the previous page



→

Home, Settings, Profile, Add, Search, Help

### Create a profile name

New IntranetSSL OV Identity Profile

Identity profiles are required to store verified identity and domain information. They are also used to create credentials and other system objects.

Profile Name  
Give the profile a memorable name to help identify it later.

Profile Name

Registered Business Information  
This must exactly match the information that is registered with national business authorities. Even small mistakes in punctuation can cause delays.

Country

Which county, region, province, territory, state (S) is it in?

Locality (L)

Organisation Name (O)

Create a profile name

Enter the COUNTY here

Enter the TOWN here

This must be the ACCURATE Registered Company Name and is used to locate and call the company HQ.

Click to start verification

## Step 7 - GlobalSign Verification

Step 5 is the pause in the middle of the process where GlobalSign, through their own mechanisms, will conclude the vetting.

As shown below, there is a 72hr window for verification before you can proceed with steps 6-12.

**Step 5 involves the original submitted name (Cert Admin) being vetted by telephone call, against the 'Organisation Name' entered in the Identity Profile**

**1** You will receive an email titled "New User Registration" from [noreply@atlas.globalsign.com](mailto:noreply@atlas.globalsign.com) inviting you to join a GlobalSign Atlas Portal Account. Please follow the instructions in the email to proceed.

**2** You will receive a email titled "Password Reset Code - GlobalSign Atlas". Please use this code to create a new password. You can now login using your email and new password.

**3** You will be notified within 24 business hours by email from [noreply-atlas@globalsign.com](mailto:noreply-atlas@globalsign.com) that your service quotation is ready for your approval. You will also receive an email from a representative of GlobalSign from [firstname.lastname@globalsign.com](mailto:firstname.lastname@globalsign.com) with instructions

Log in to your Atlas Account and Approve the quotation

**4** Select 'Identity Profile' tab and create a new Identity Profile for your IntranetSSL OV service

**5** At this stage, your Organization Identity Profile will undergo Vetting. You will be notified once this process is complete, and you will be instructed to continue to the next step.

### The completion of the IDENTITY PROFILE starts the 72hr verification process

The time taken for verification may take only a few hours however it should not exceed 72hrs after completing step 6

### DO NOT PROCEED UNTIL A VERIFICATION EMAIL HAS BEEN RECEIVED!

Complete items 6-10 when verification is received.  
Step 11 – you must await the email confirming verification was successful before finishing the onboarding 12

**6** Once the vetting process has been completed, and only when instructed to do so, please login to your Atlas Account.

**6** In the left menu, under the 'Access Credentials' tab, select 'API Credentials' and then click the 'Generate an API Credential' button in the top right corner

**7** Select 'View and Copy' generation method

**8** Select the service IntranetSSL (OV) to link your credentials to your vetted Atlas Organization profile

**9** Input a familiar name - something to help you easily identify the service

**10** GlobalSign will now configure your Atlas service to connect to the MHHS Programme PKI hierarchy.

**11** Please wait for confirmation email from a representative of GlobalSign that the service can now be used

**12** Once completed, continue to the next step of the DIP Onboarding Guide.

See next pages for detailed screens for items 6-10

### What happens during GlobalSign (GS) vetting?

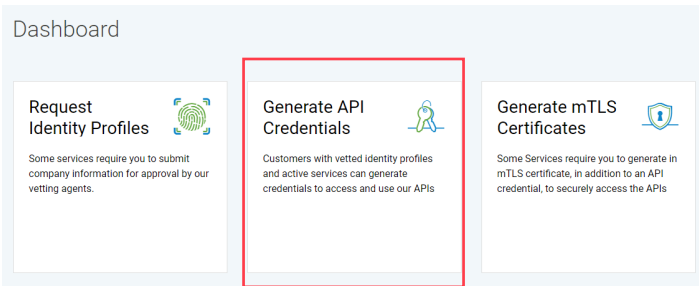
GS will call the HQ number that they have uncovered from their secure vetting process. It doesn't matter if the contact is located at the HQ, or not; what they seek is that the HQ either i) transfers their call to the contact so they can speak with them; or ii) gives them the contact's phone number (can be landline or mobile) or email address so they can contact them. If neither of the above happens, GS they will send a postal challenge letter for that contact, to the registered business address so that they (GS) can be contacted directly.

## SECTION 3 – Certificate Admin Registration

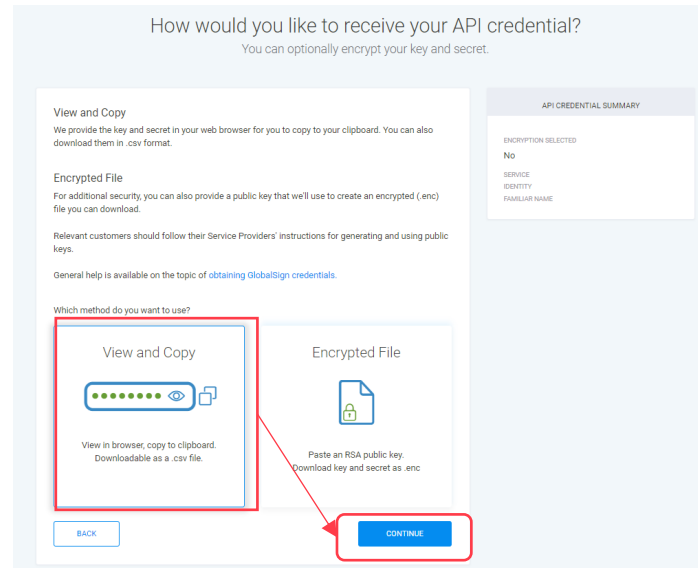
### Steps 6-10 - Generating API credentials

The Certificate Admin must complete the API Certificate generation within the Global Sign Atlas system once 'Identity Validation' has been confirmed.

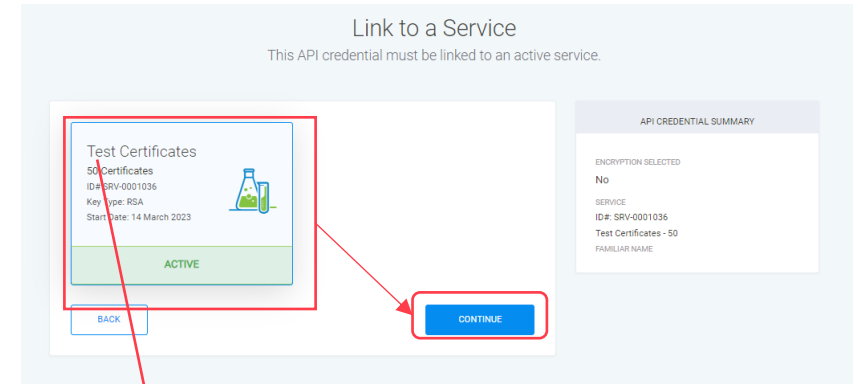
6 Login to GlobalSign Atlas.  
Select 'Generate API Credentials' option



7 You must select 'View and Copy' in the 'How would you like to receive your API credentials' page, then Click CONTINUE



8 Select ACTIVE certificate to assign Internet SSL to your credentials, then Click CONTINUE



This will be titled differently  
e.g. MHHS DIP Certificates



## Generating API credentials with GlobalSign

Continued.....

9

Give the credential a familiar name (any text you wish) and record this safely and click 'CONTINUE'



10

Click 'Download key and secret as .csv' button and save file. Alternatively (and) click both the API Key and API Secret 'Copy Key to clipboard' and store in a .txt file for the next stage.

The screenshot shows a form titled "Add a Familiar Name" with the instruction "Create a label to distinguish this from similar credentials." There is a text input field labeled "FAMILIAR NAME" containing the text "onboarding\_key". Below the input field are two buttons: "BACK" and "CONTINUE". To the right of the form is an "API CREDENTIAL SUMMARY" box containing the following information: ENCRYPTION SELECTED: No; SERVICE: ID#: SRV-0001036; Test Certificates - 50; FAMILIAR NAME: onboarding\_key. A red box highlights the "CONTINUE" button.

Enter and take a note of your 'familiar name' then click CONTINUE

The screenshot shows a success message: "Success! Now Securely Save your API Key & Secret" with a warning: "If you lose this API secret, you'll need to generate a new API credential." It displays the "API KEY" as "186610baff175cae" and the "API SECRET" as a masked string. There are two "COPY TO CLIPBOARD" buttons, one for each field, both enclosed in red dashed boxes. Below these are four buttons: "DOWNLOAD KEY & SECRET AS .CSV" (highlighted with a red box), "API DOCUMENTATION", "VIEW & MANAGE API CREDENTIALS", and "RETURN TO DASHBOARD".

**PLEASE NOTE!**  
You must DOWNLOAD the .CSV.  
Once you navigate away from this page you cannot return to access this content.



---

# Section 4 – Create a PFX Certificate for Upload to the DIP

---

## Guidance for Certificate Admin

Up to this point in the process, the Certificate Admin has been responsible for the vetting process and completion.

At this point of the process you may wish to assign additional Cert Admins to complete the upcoming sections as more technical knowledge is required to complete the next onboarding steps. Please note, this could be someone from the DCP or a 3<sup>rd</sup> Party technical Person.

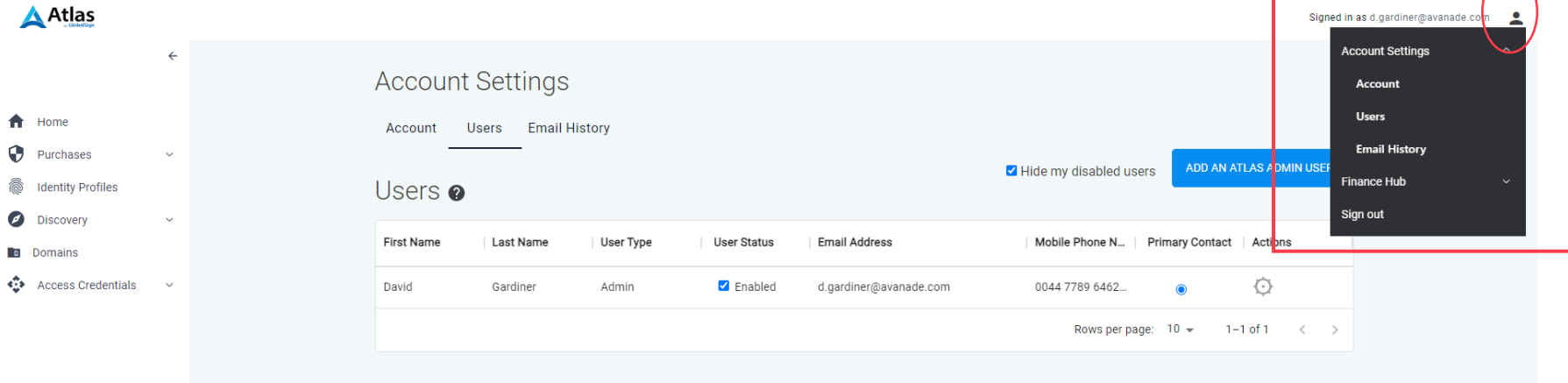
As well as adding the Cert Admin to the DIP they should also be added as a new User Admin within GlobalSign. See next page for details.

**Please Note:**

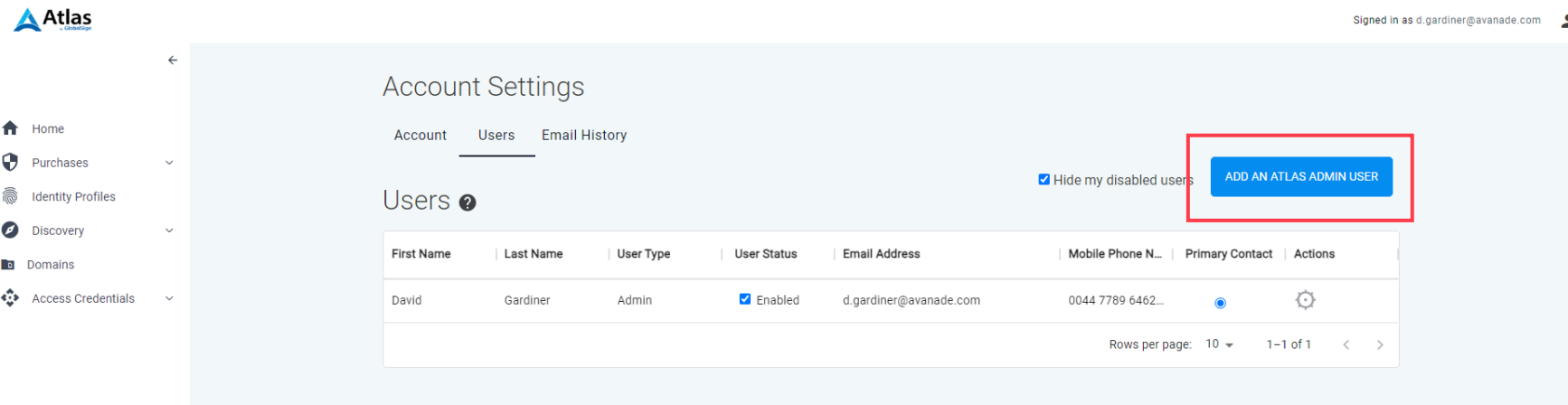
Additional Cert Admins are not mandatory at this point – you can continue through the process should you wish. If you decide to not add a new Cert Admin please ignore the next slide.

See **slide 43** on how to Add a new Cert Admin

## Assigning a new Cert Admin to GlobalSign Atlas account



Click the profile icon in the top-right corner. Select 'Account Settings' and then 'Users' to obtain the new user ADD screen



Select 'Add an Atlas Admin User' and add your new Cert Admin to the account.

This will result in a 'New User Registration' email being sent to that person.

## Generating the Certificate

GlobalSign provided the API Key and Secret. The DIP requires a validated certificate in PFX format together with these API credentials. The following will be conducted outside of the DIP **by someone with technical understanding of generating a certificate.**

Select a CSR generation tool and create a CSR Certificate: All examples shown are based on the use of **Azure Key Vault**. *See Addendum if using OpenSSL.*

1

Decide which tool you wish to use to create your CSR file

2

Create a CSR with any subject name.  
**YOU MUST select Key Size 4096 in Advanced Policy Config.**  
 Click **DOWNLOAD CSR** to save your CSR file.

3

Open the CSR to check structure is correct.

The CSR certificate can be generated using any suitable/preferred tool.

The example here is using **Azure Key Vault**

Please ensure you select **Key Size 4096**

```

NOTES.PERL onboarding-key-GlobalSign-mTLS
File Edit View
-----BEGIN CERTIFICATE REQUEST-----
MIIEqTCCApECAQAwGEXMBGUA1UEAwOb25lb2FyZGluZ19rZkxvZG91IjEwMC5zZG9EBAQAUA4ICDwAggTKAoICAQDAmCsXgbsHsHyKPSmHk8J
1Vweaaz19wZMTT46yepEY5TExcPyZGNZmbjE0MAdhKzhgT0yuv+1UJtYayWp0PKdwd42+Of8DjDy5t33BA4L1F6pbXGTHmY8+26p2Dbt6ZUQQ+
7m5dukcV03R3rG88ucMMCLMlrN3IBjmvVjz3NS9/X/q/oSm1xEM46AYDzhwcMnB3nq84q18sDbjeBxeJknJaeq05fZ1G8cGUUTU/1tuaQ89M9Kp0
pYUuds/yZaDo70RvQfyCR1ry4cKqTprG9Z1UuOf/GbFrYAaUpn4I151rkm0uL5141+C5SYmeH6Zr/zPyWC96gxIq3tH1TFEAUJQFJZm29mCb30K0F
rTQFrLpZmkFKFAh0bnzkE0RLP0FvAa0u59eCM4yN77mpRCM2eg69hqw18RoC2z069R1XkqzQkTA7bpXrF5IC+gYVc41s63w31ykNw+TSxy3FmQFUVzQ
PcXrNh07+mcVmmIT3W61osNs3fJ1WJ+
9ZKvnaPG+R9JEtsh0a12z8KFDLAXs+2w6urtkwrAN4d18rnZX1bRvIMQv8tVhMA1/1tLwZyFhSH+C9kFhxcRuhH+byOndEQKSM8BVkEmRnc6p8rVyk
9d2D/51ba4xTG1B5088dKIwCtFstUrhawILfyB52TPoaFOLRQCYJcsqQIDAQABoEsvSQJKoZlInvcNAQOM1w03A08gMh08BAF8EBAMCBawQYDVR
01BBYwFAyIKuYBQUHwEGCCsGAQUFBwMCAkGA1UdEwQCMAMwDQYJKoZIhvcNAQELBQADggIBAFnN177Y75051wa1R53o/5ccXbqL+HYzY34AxG+
86V8wiZyQdIG1jBkcxHyN72VMtI20QEZ7B3j1RnXvPhwnj40zX651w818Xn1MeZ2nA358tho7r7WqCz7ysOqu/k43GmIv03UmsnrIntd3gVAlapQ
ye4AmAZzenEluMe7k+ms1uITdc8v3dZcTvsf1CtsNf2AhmcRpltkjQVPVQ+
1WYeXb3e/H5MaQZG6CEZBTu0CBNE0zLu0e+N50BVZCb2Xsm1PEQ1LapUcAE3RuyDqXDr6t3fzNqq2NjYU6dG5XNcx8R/wIzccpcqUIAEzJUMBOQ
7cdUzvl+ZRTfTaStpMbfS7u0E7P+s0ZQk+I32k/cZ71Y/ne8JfEvYzBj62aBcXvL/BLqGh7fpjUBw+DQD+iqIuIp7WIMXRX1Z1bdHTCNktnIAF0Dn3k1y5
hQpQ+7mpHfAm1gdy9y9x22VnYx45kyIXYJDDb/AEAS3daMe4ksy2133tyNlg3t0khhS2M0T5
+Z3KPg847FL3fgPY/D4IPk/pXk+FvvtmNTAF+ECXq3k/j5rTKF3a9nYGB1Dk/uQba1EoLHuFPhaFzqZILUqV64S4Q0mK2hVOKL1v1p4cpcseJH+P2
0yJpVfOn31poxocumkLVtW1rbXRET4719pOKKPTSDtmZMP61A
-----END CERTIFICATE REQUEST-----
Ln 3, Col 34 100% Unix (LF) UTF-8
    
```

Please click 'YES' to Enable Cert Transparency

Certificate Type must be blank – no entry!

## Section 4 – Create a PFX Certificate for Upload to the DIP

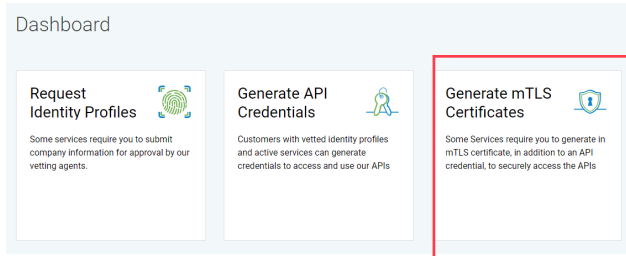
### Generating the correct key format for upload to the DIP

The Certificate Admin must return to the [GlobalSign Atlas](#) system to complete the next stage of certificate preparation for the DIP.

**NOTE:** If you have appointed a new Cert Admin into the Atlas via account, they can complete the following steps.

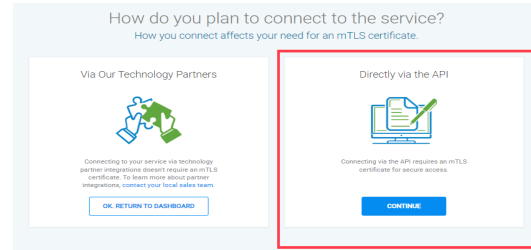
1

Sign in to the Atlas system.  
Open your Dashboard.  
Select 'Generate mTLS Certificates'.



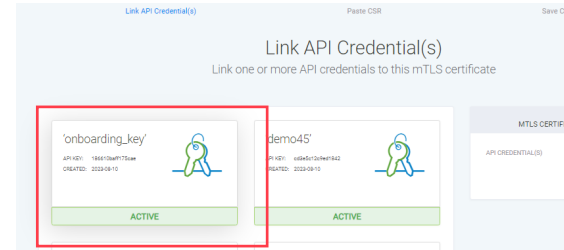
2

On the subsequent screen, select the option 'Directly via the API'



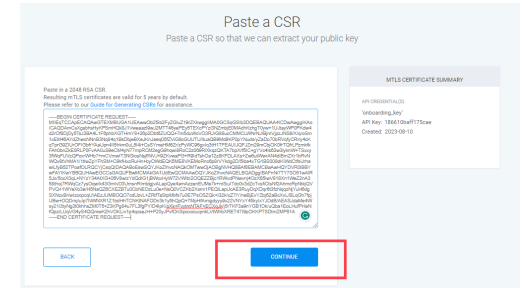
3

Select the API Credentials just made using the 'Familiar Name'



4

Paste the CSR generated into the space provide then click **CONTINUE**

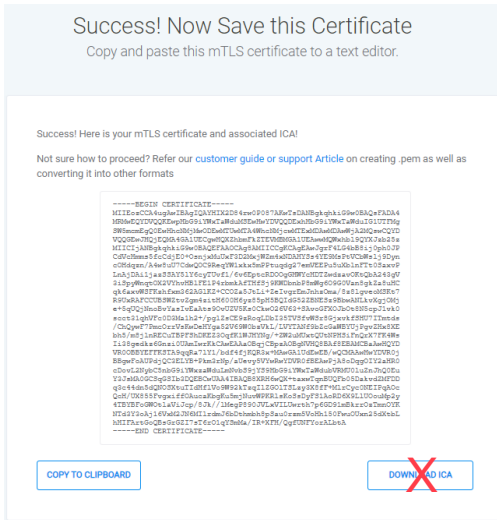


## Global Sign Validation Process Continued....

The output from the GlobalSign system requires the key to be converted to PFX format. This is completed as follows using AKV:

5

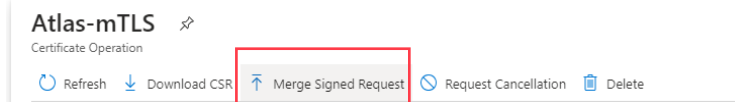
If successful the following screen appears.  
You must now Copy to Clipboard (or Cut-n-paste) the certificate into a **Notepad file**.  
Save the Notepad file as a **.cer**  
e.g. 'certname.cer'



6

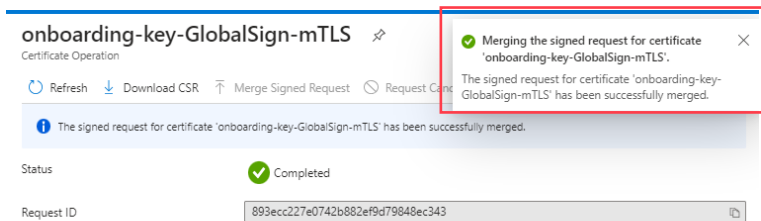
**Re-open the certificate generation tool**  
(example shown is **Azure Key Vault**)

Select '**Merge Signing Request**', or similar option, from the menu  
to **merge the private key and public key**



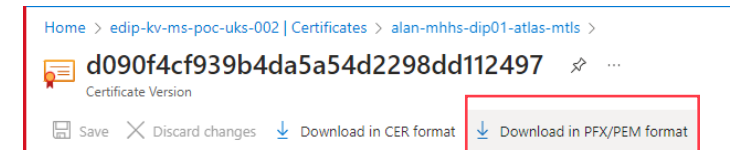
Select the file created in Step 5, e.g. *certname.cer*

A 'toast' pop-up will confirm the merge was successful

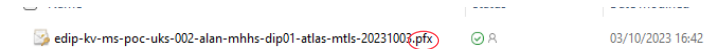


7

Download the certificate as a PFX file, **ensuring no password is specified**.  
(Example shown is Azure Key Vault)



The resulting PFX format file will be listed in a download area ready for the next step



This section is **OUTSIDE DIP and GlobalSign**



---

# Section 5 – Upload the PFX file to the DIP and set DNS

---



## Clarification on DNS and Certificates

As part of the Ofgem requirement around non-repudiation, each Market Participant is responsible for their own message signing, therefore, whether you are using a DIP Connection Provider (DCP/Adaptor Service) or not, the Market Participant must complete the DNS and Certificate process for message signing.

The DNS is validated by GlobalSign and therefore must belong to the Market Participant. The DNS can be the Market Participant's web domain or any other domain associated with the organisation.

If using a DIP Connection Provider (DCP), the DCP should use their own mTLS certificate, and then use the MP's certificates for signing messages. The respective Market Participant's Signing certificate **must** be used to sign their messages.

## SECTION 5 – Upload PFX file to the DIP and validate with Domain

### Return to the DIP to complete the certificate registration

The Certificate Admin will return to the 'Certificates' tab as below and click the **NEXT** button to proceed:

The screenshot shows the ELEXON Data Integration Portal interface. The top navigation bar includes 'HOME' and 'MARKET PARTICIPANT ORGANISATION'. A red box highlights the 'MARKET PARTICIPANT ORGANISATION' menu item, with a blue circle containing the number '1' next to it. Below the navigation bar, the main content area displays 'Another test company' with a 'NOMINATE DIP CONNECTION PROVIDER' button. A table lists company details: Company Type (None set), Company ID (123456), Role Codes (None set), and Dip Connection Provider (None set). Below the table, there are tabs for 'DIP IDs', 'Members', and 'Certificates'. A red box highlights the 'Certificates' tab, with a blue circle containing the number '2' and an arrow pointing to it. Below the main content area, a progress bar shows five steps: 1. GLOBALSIGN REGISTRATION, 2. API CREDENTIALS, 3. DOMAIN CREATION, 4. DOMAIN VERIFICATION, and 5. CERTIFICATE CREATION. The 'GlobalSign Registration' page is displayed, with a blue circle containing the number '3' and a red box highlighting the 'Next' button.

Message Channel ID	Message Channels Name
IF-031	Notification of Annual Consumption
IF-032	Consumption Amendment Request
IF-033	Supplier Service Provider Appointment Request
IF-034	Supplier Service Provider Appointment Request

Company Type	Company ID	Role Codes	Dip Connection Provider
None set	123456	None set	None set

DIP IDs Members **Certificates**

1 GLOBALSIGN REGISTRATION 2 API CREDENTIALS 3 DOMAIN CREATION 4 DOMAIN VERIFICATION 5 CERTIFICATE CREATION

### GlobalSign Registration

Please visit the GlobalSign registration page at <https://www.globalsign.com/en> and complete information requested to register. GlobalSign will then carry out verification and may contact your head office to verify the Nominating Officer. Once verified, the user will be notified via e-mail and access to GlobalSign portal provisioned. In the GlobalSign portal please create API credentials and authentication certificate. Once created press Next to upload them into the DIP.

3 **Next**

Click '**NEXT**' to move on to 'API Credentials' entry

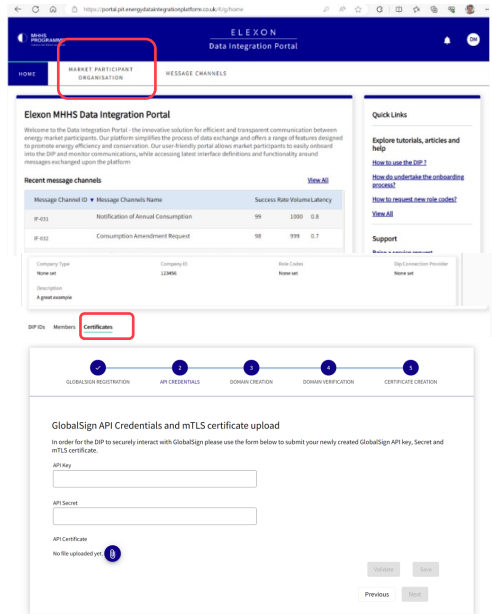
# SECTION 5 – Upload PFX file to the DIP and validate with Domain

## Upload API details and PFX Certificate to the DIP

The Certificate Admin must now upload the GlobalSign API Key & Secret, together with the PFX Certificate, to the DIP.

1

Certificate Admin will Sign In to DIP and click the 'Market Participant' and select 'Certificates' tab to display the process page

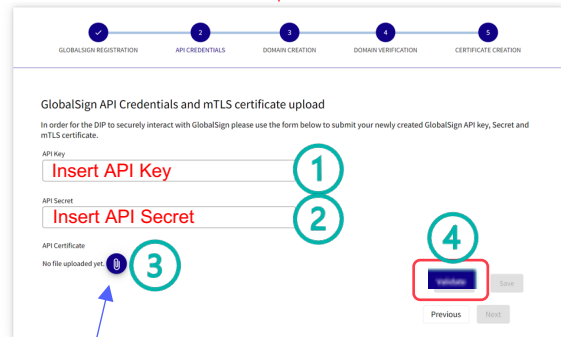


2

The process will have moved to STEP 2 'API Credentials'

Add the Global Sign generated information:

1. Insert the API Key (1)
2. Insert the API Secret (2)
3. Click to upload the PFX Certificate (3)
4. Click 'Validate' button (4)



Click and select your PFX version of the API Certificate

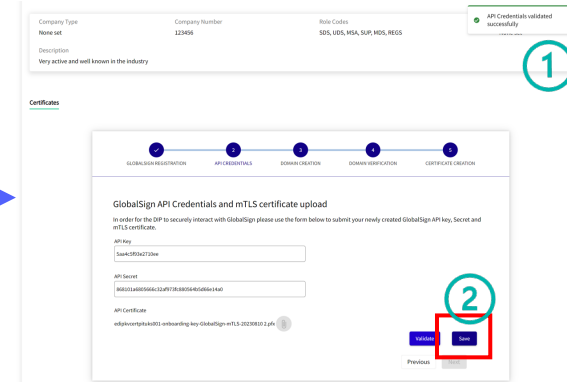


If this error repeats please contact  
DIP@MHHSprogramme.co.uk

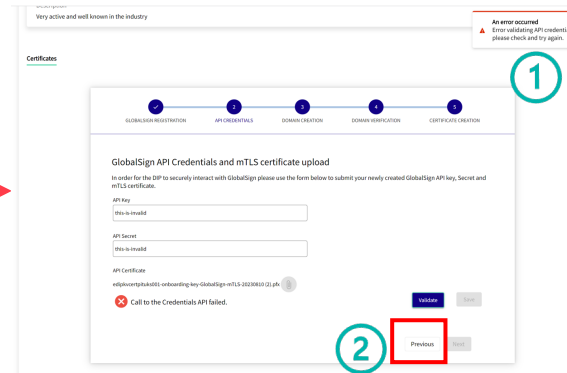
Please review API fields for completeness to continue

3

If the API entries are confirmed, A pop-up 'Added successfully' appears (1) click 'Save' to continue (2)

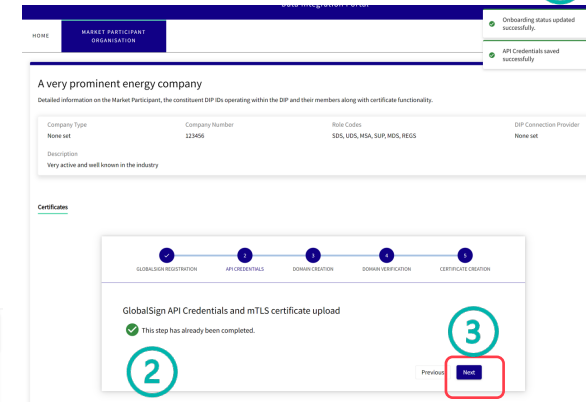


If the message is 'An error has occurred' (1), click 'Previous' (2) and restart upload



4

The following screen will appear 'Onboarding status updated successfully'.  
1. Confirmation with 'Toast' Pop-up (1)  
2. Confirmation onscreen message (2)  
3. Click 'Next' to progress to DNS set up (3)



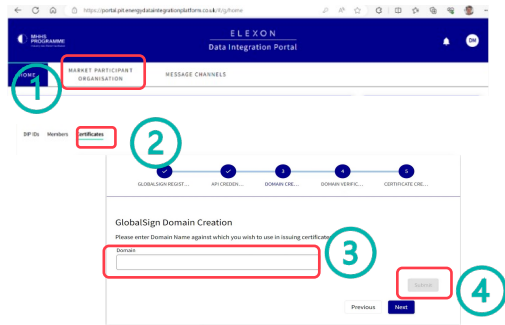
# SECTION 5 – Upload PFX file to the DIP and set Domain in DNS

## Register the Domain in DNS and validate in the DIP Portal

The Certificate Admin will work with a DNS domain admin to complete the Domain registration in DNS.

1

Follow steps 1-3 to enter the MP's **Domain Name** being used for GlobalSign verification into the GlobalSign Domain Creation field **DOMAIN**, then click **'SUBMIT'** (4)

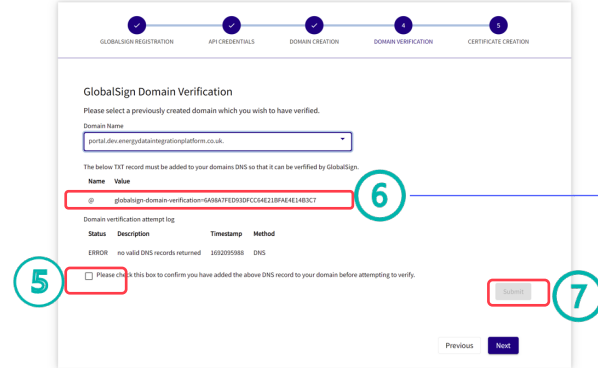


You should get a green tick and message 'This step has already been completed' Click **NEXT** Button (4)



2

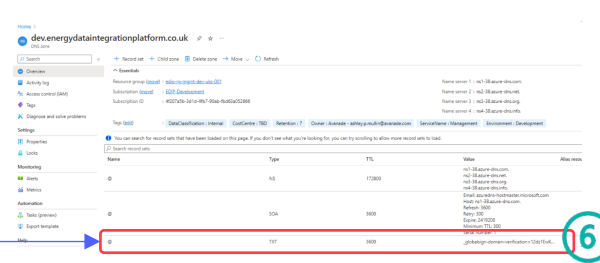
Once you have clicked next, you will be asked to **reselect the DOMAIN Name from the dropdown** and a **TXT Record** will appear (6)  
NOTE that a **'.'** may appear after the Domain Name – this is not an issue and you should proceed



Please take a note of the **'Name'** = '@' and the **VALUE** is a **'txt'**, and pass both to **DNS Admin** for insertion into the DNS **BEFORE** clicking (5).

3

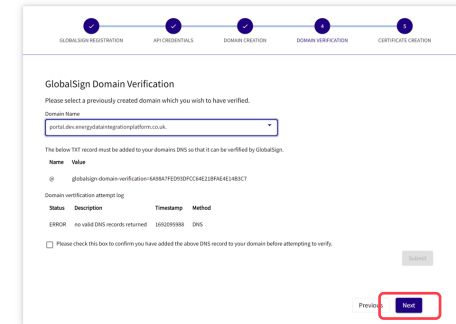
DNS Admin should add the record details into the DNS (6) with the values specified = '@' and the txt into VALUE



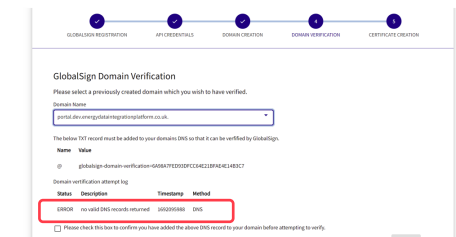
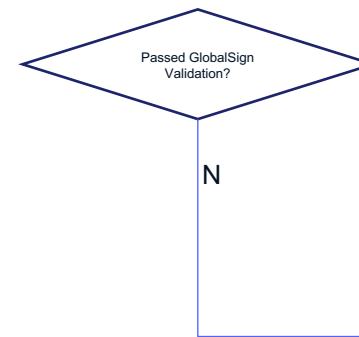
Certificate Admin, on confirmation DNS Record has been added (can be up to 1Hr), will click the Check box (5) and then click the **SUBMIT** button (7)

4

Certificate Admin can check **SUCCESS** or **FAIL** of verification: If Successful click **'Next'**



**Domain Validation Successful**  
The DNS entry should not be removed as it is used for renewals



**Domain Validation Failed!**  
Return to Step 2 and repeat DNS verification process



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# Section 6 – Complete DIP Setup

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# Section 6 – Complete DIP Setup

## Certificate Admin: Generate mTLS & Signing Cert within the DIP

1

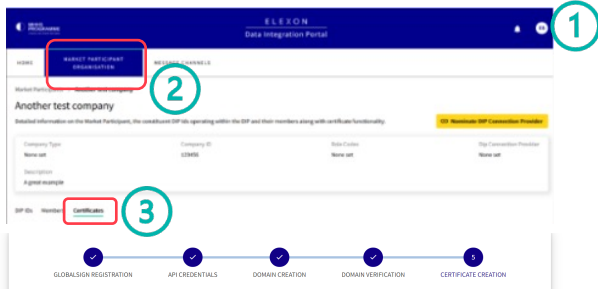
2

3

### Login to the DIP as Certificate Admin (1)

Select MP MENU (2) then 'Certificates' Tab (3)

1. Enter the required Host Name & Domain (4)
2. Select 'Certificate Purpose' to choose a "mTLS" (for DCPs), "Signing" (for MPs) or "mTLS & Signing" certificates (both) (5)
3. SUBJECT NAME is pre-set – CLICK 'COPY' (6)



### Certificate Signing Request Form

This form is used to submit your certificate signing request (csr) to be signed by the DIP certificate authority (Global Sign). You will then be able to download the signed public key (cer) which you will then bind with private key you used to create your csr and thus creating your mTLS certificate, active for use when integrating with the DIP.

Before making a signing request, please ensure you have completed the necessary GlobalSign onboarding and domain verification process, more details can be found on the [globalsign website](#).

Please ensure that the details entered match those used during the organisation onboarding, vetting and verification process.

Host Name:  Domain:  (4)

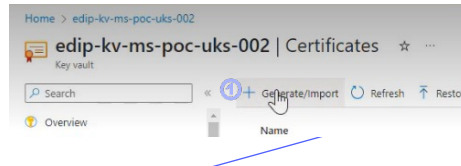
Certificate Purpose:  (5)

Subject Name:  Copy (6)

It is critical that a new CSR is generated using the details from the previous step

### Open the Certificate Creation Tool (e.g. Azure Key Vault)

1. Click (select) to generate a certificate (in AKV click [Generate/Import](#))
2. Give the certificate a name (no spaces)
3. Choose 'Certificate used by non-integrated CA' from drop down
4. Enter 'cn=' then paste the SUBJECT NAME copied in STEP 1 (6)
5. IMPORTANT – click 'DNS Names' and complete the 2 entries
6. Click 'Not configured' next and ensure Key Size is 4096



### Create a certificate

Method of Certificate Creation: Generate

Certificate Name: Webhook-dev

Type of Certificate Authority (CA): Certificate issued by a non-integrated CA

Subject: cn=energydip-dev.543

DNS Names: 0 DNS names

Validity Period (in months): 12

Content Type: PKCS #12

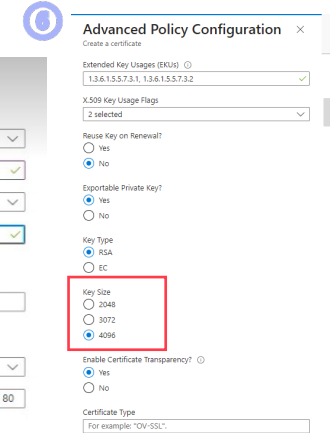
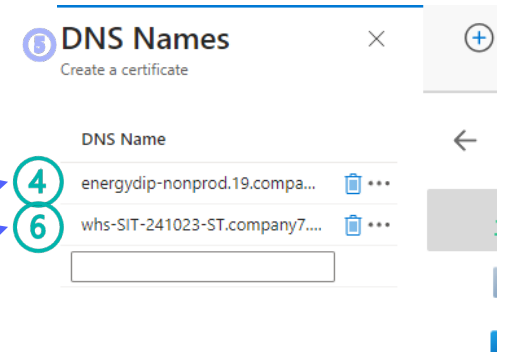
Lifetime Action Type: E-mail all contacts at a given percentage lifetime

Percentage Lifetime: 80

Advanced Policy Configuration: Not configured

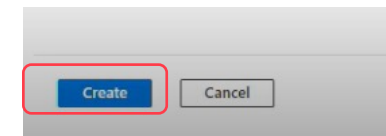
Tags: 0 tags

You must add DNS Name entries as advised from 4 and 6



Enter both fields: overall this should make up the address you want to receive messages on from the DIP (e.g. sit-dipwebhook.testmp.co.uk) where First part is Host Name and second is Domain Name.

To complete the certificate creation click 'Create' button



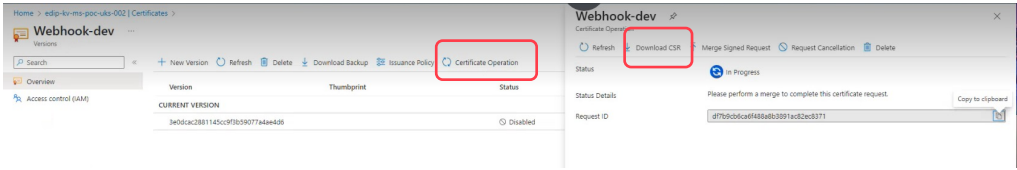
# Section 6 – Complete DIP Setup

## Certificate Admin: Generate mTLS & Signing Cert within the DIP

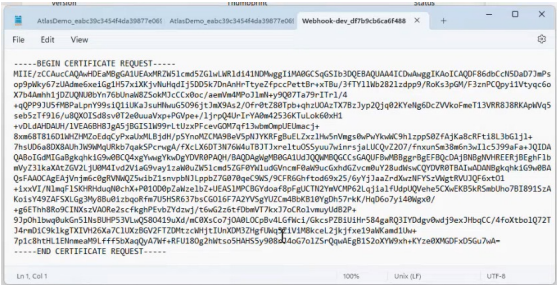
1

Open the generated CSR and download – example here is Azure Key Vault

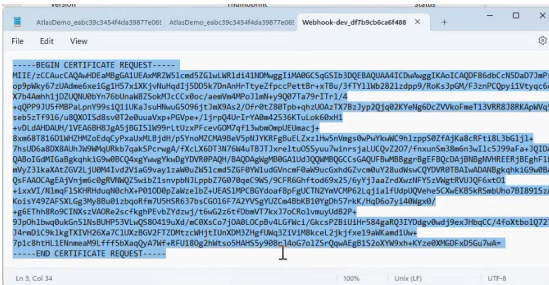
1. Select 'Certificate Operations'
2. Select 'Download CSR'



3. Open the downloaded file in a text editor



4. Select the Certificate Text



2

5. PASTE the Certificate Text into the CSR field in DIP (7)

6. Click 'Create Certificate' (8)

### Certificate Signing Request Form

This form is used to submit your certificate signing request (csr) to be signed by the DIP certificate authority (Global Sign). You will then be able to download the signed public key (cert) which you will then bind with private key you used to create your csr and thus creating your mTLS certificate, active for use when integrating with the DIP.

Before making a signing request, please ensure you have completed the necessary GlobalSign onboarding and domain verification process, more details can be found on the [GlobalSign website](#).

Please ensure that the details entered match those used during the organisation onboarding, vetting and verification process.

Host Name:  Domain:

Certificate Purpose:

Subject Name:

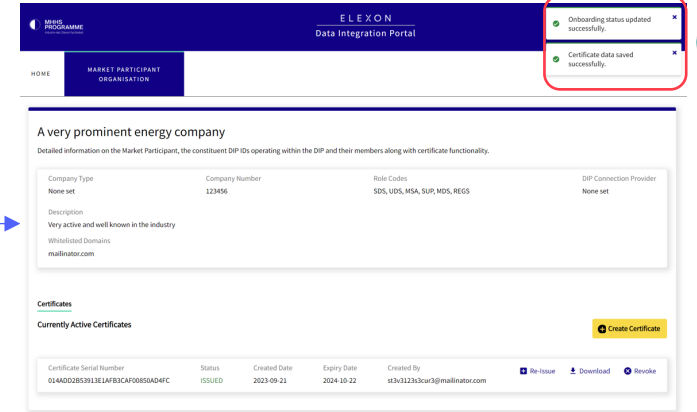
CSR:

7

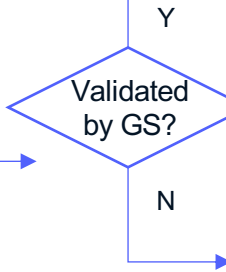
8

3

Certificate Signing Completion  
PROCEED if 'Toast' advises 'Successful' (9)



9



If an ERROR appears (10) please repeat steps 1-6 from previous page and this page again



Error creating certificate. (10)

Create Certificate

## Section 6 – Complete DIP Setup

### Certificate Admin will check certificate is now ACTIVE within the DIP

The Certificate Admin will be presented with a list of certificates associated with the organisation and can DOWNLOAD the ACTIVE certificate.

- 1 The list of your available certificates are displayed within Market Participant menu (1)  
Click 'Certificates' tab (2) and check certificate is ACTIVE (3).  
Click Download (4) to utilise the new ACTIVE certificate.

Market Participant menu (1)

Click 'Certificates' tab (2) and check certificate is ACTIVE (3).

Click Download (4) to utilise the new ACTIVE certificate.

Company Type	Company ID	Role Codes	Dip Connection Provider
None set	123456	None set	None set

Certificate Serial Number	Status	Date Created	Expiry Date	Created By	Actions
7348000010	Active	2022-11-15T15:12:00.147Z	2023-11-15T15:12:00.147Z	Peter Macintosh	Re-issue Download

Certificate Serial Number	Status	Created	Expiry Date	Created By	Actions
7348000009	Active	2022-10-15T12:12:00.147Z	2023-10-15T12:12:00.147Z	Rodrigues M. Washinton	Download
7348000008	Expired	2021-11-20T10:12:00.147Z	2022-11-20T10:12:00.147Z	Peter Macintosh	Download

- 2 Open the downloaded Certificate file and Click 'Details' Tab.  
Check validity by comparing **Serial Number** matches.  
Check **Subject** is as expected.

Windows does not have enough information to verify this certificate.

Issued to: GLOBALSIGN TEST CERTIFICATE - FOR TESTING PURPOSES ONLY

Issued by: GlobalSign Non-Public HVCA Demo

Valid from 07/09/2023 to 06/12/2023

Field	Value
Serial number	01915bbfc28504de8036f8116...
Signature algorithm	sha256RSA
Signature hash algorithm	sha256
Issuer	GlobalSign Non-Public HVCA D...
Valid from	07 September 2023 12:53:58
Valid to	06 December 2023 12:53:58
Subject	GLOBALSIGN TEST CERTIFICA...
Public key	RSAPublicKey



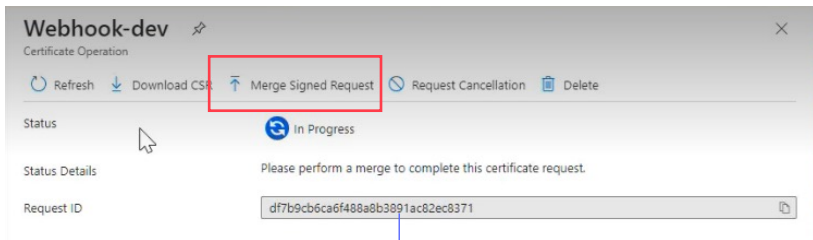
## Merge the signed certificate

Final stage of the process must be conducted within the Certificate Generation tool chosen earlier (e.g. Key Vault)

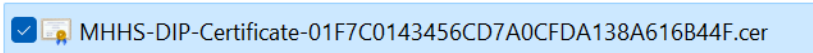
3

At this stage you must **re-open the tool you generated your certificate** from (e.g. Azure Key Vault)

Select menu option **'Merge Signing Request'** (or similar option)

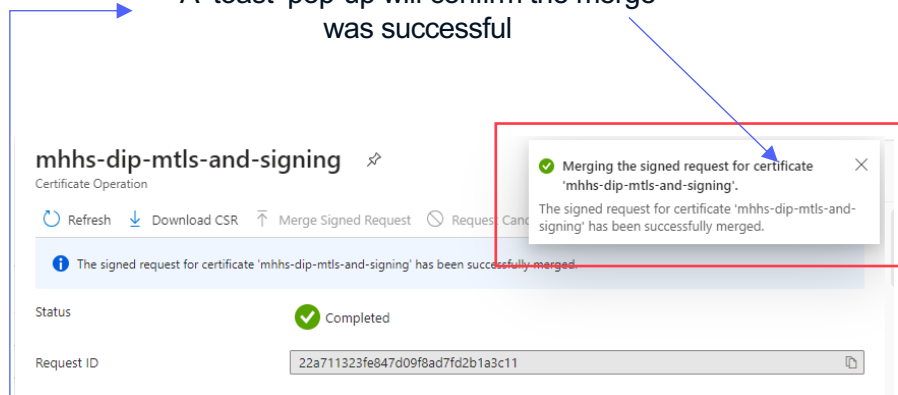


Select the **FILE** downloaded from the DIP Portal  
(a .cer file – example shown below)

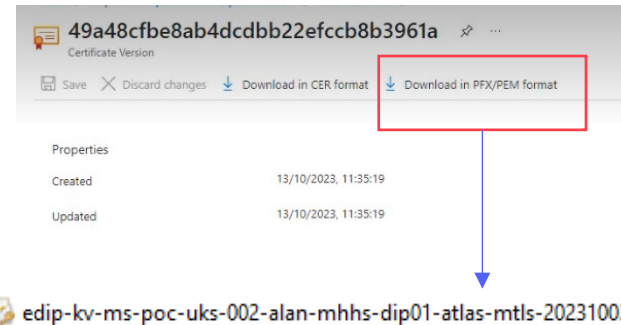


4

A 'toast' pop-up will confirm the merge was successful



The certificate must now be downloaded as a PFX **WITHOUT** Password  
Select the certificate and choose 'Download in PFX/PEM Format'



5

**This certificate is now available to be used for mTLS and signing when sending messages to the DIP**

**If you are using a DCP you must give this to your DCP. Use certificate to sign messages (See CoCo for how to sign a message)**



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You have successfully onboarded  
to the DIP

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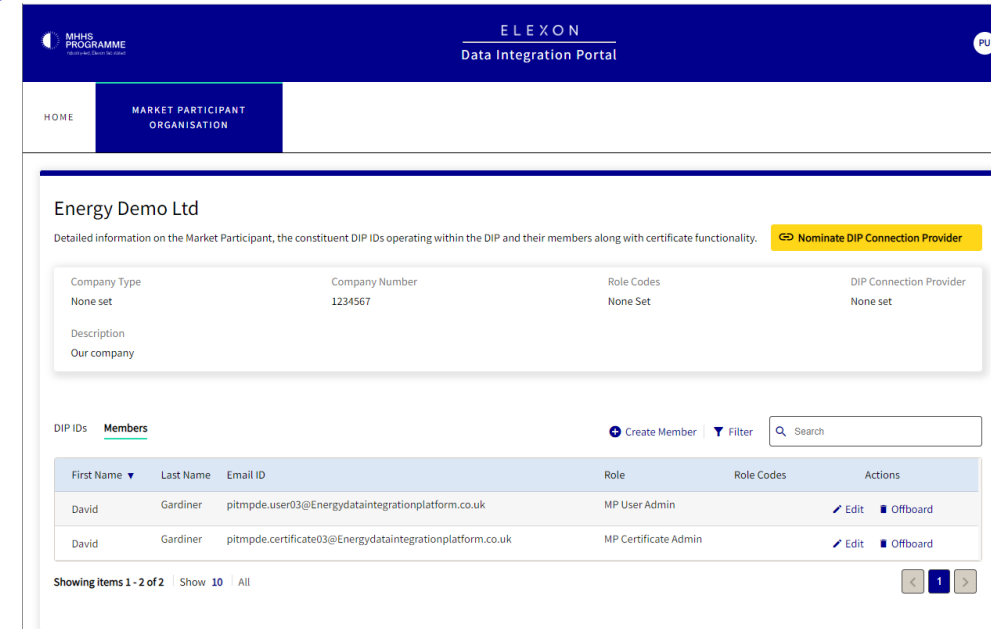
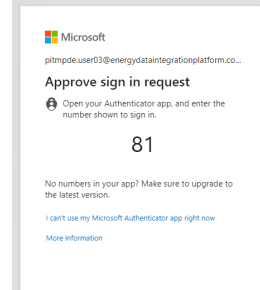
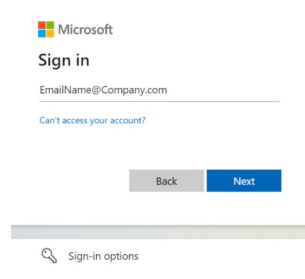
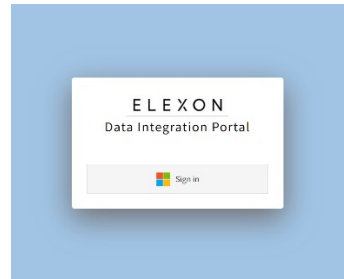
# How to Add/Edit DIP Members

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## User Admin Management of User Roles

The User Admin will 'Sign In' to the DIP and add new members (users). It is advised that a Message Admin is added as a first task.

- 1 Click SIGN IN
- 2 Sign in with email/password
- 3 Complete MFA
- 4 Review the Members list



If using a DCP then the Cert Admin (TC) can be people outside your organisation

# Adding New Members to the DIP

## Adding the Message Admin and Additional Users

The User Admin should sign in, access the Members tab in Market Participants, and create the **Message Admin** using 'Create Member':

1 Click 'Create Member' in the Members tab

First Name	Last Name	Email ID	Role	Role Codes	Actions
David	Gardiner	pitmpde.user03@Energydataintegrationplatform.co.uk	MP User Admin		<a href="#">Edit</a> <a href="#">Offboard</a>
David	Gardiner	pitmpde.certificate03@Energydataintegrationplatform.co.uk	MP Certificate Admin		<a href="#">Edit</a> <a href="#">Offboard</a>

2 Add **First Name, LAST Name** and a valid **Email Address**

Click **drop-down** to see available roles

Select 'MP Message Admin'

Create New User Profile

First Name

Last Name

This field is required

Email Address

Select Organisation Role

- Select All
- MP Message Admin
- MP Certificate Admin
- MP Analytics Reader
- MP User Admin

3 Click 'Confirm' to send the invitation

Select Organisation Role

This field is required

[Cancel](#) [Confirm](#)

4 **Recommended Action:**

It is advised that each Market Participant has at least 2 User Admin, 2 Certificate Admin and 2 Message Admin's to ensure cover is provided during potential situations of absence.

It is also acceptable for one person to hold multiple roles.

Please ensure you have cover for all potential access needs.

To **Edit** a members role, click the Edit button against that members name.



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# Requesting a DCP Status and Creating DCP IDs

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## Requesting a DCP Status

According to the programme, you are a DCP if you will be sending messages into the DIP on behalf of another organisation. Kindly note that previous programmes may have referred to DCPs as an adapter service.

The User Admin gets **2 opportunities to request a DCP status** as follows:

- 1 When you received your invitation to onboard via email, you would have had the option to tick the highlighted box below if you are a DCP,

The screenshot shows the 'DIP Market Participant Organisation onboarding form'. At the top, there is a blue header with the 'ELEXON Data Integration Portal' logo. Below the header, the form title is 'DIP Market Participant Organisation onboarding form'. The form contains several sections: 'Market Participant Organisation' with fields for 'Company Name' (Example Company), 'Company Description' (All the information supporting this example.), and 'Company Number' (123456). At the bottom of this section, there is a checkbox labeled 'Please check this box to request your organisation to be DIP Connection Provider.' which is highlighted with a red box. Below this are sections for 'Users' and 'Market Participants', each with a '+' icon. At the bottom of the form are 'Cancel' and 'Submit' buttons.

Click here if you are acting as a DCP in the DIP

- 2 If you do not tick that box, and you are a DCP, once you get to the home page, click on the "Market Participants" tab and you will see a big yellow button prompting you to "Request DIP Connection Provider Status". Click on that yellow button and your **DCP Status** should change from "Disabled" to "Pending"

The screenshot shows the 'DIP Market Participant Organisation' detail page for 'DCP energy co'. The page has a blue header with 'HOME', 'MARKET PARTICIPANT ORGANISATION', and 'MESSAGE CHANNELS' tabs. Below the header, there is a yellow button labeled 'Request DIP Connection Provider Status'. Below this is a table with the following data:

Company Number	Role Codes
334356	ISD, ADS

Below the table, there is a 'Description' field with the text 'Providing connection for other market participants' and a 'Whitelisted Domains' field with the text 'energydataintegrationplatform.co.uk'. To the right of the table, there is a 'DCP Status' field with the value 'Disabled'. A red box highlights the yellow button, and a red arrow points from it to a modal dialog box titled 'Request Organization to be DCP'. The modal dialog has the text 'Are you sure you want to request your organization as a DIP Connection Provider' and 'Cancel' and 'Confirm' buttons. A red arrow also points from the 'DCP Status' field to a callout box that says 'DCP Status Pending'.

- 3 Your request will be immediately passed on to the DIP Manager, who will then approve your request. At this point, you **DCP Status** will change to "Active"

### Please Note:

Every participant, regardless of whether they are a DCP or not, will see the yellow button above on their organisation detail page. Please ignore the yellow "Request DIP Connection Provider Status" button if you're not a DCP.

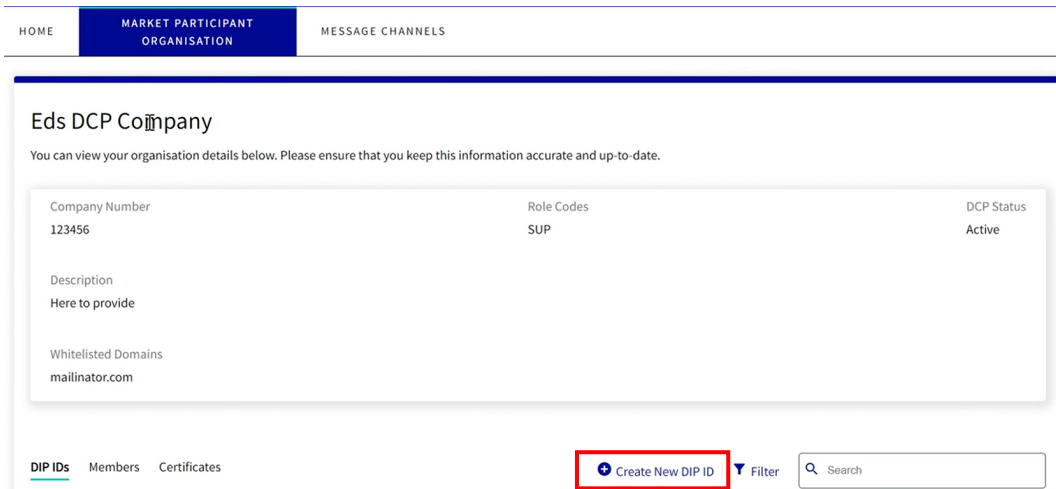
# Creating your DCP ID – USER ADMIN

## Creating your DCP ID

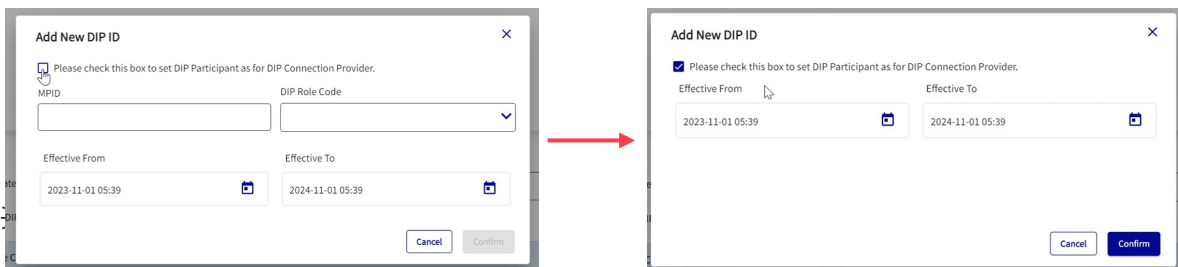
Every DCP is required to create DCP IDs for each role that they will be performing on behalf of another organisation. Once your DCP ID is created, pass it on to your assigning MP as they will need this to nominate you as a DCP.

Follow the steps below to create your DCP ID:

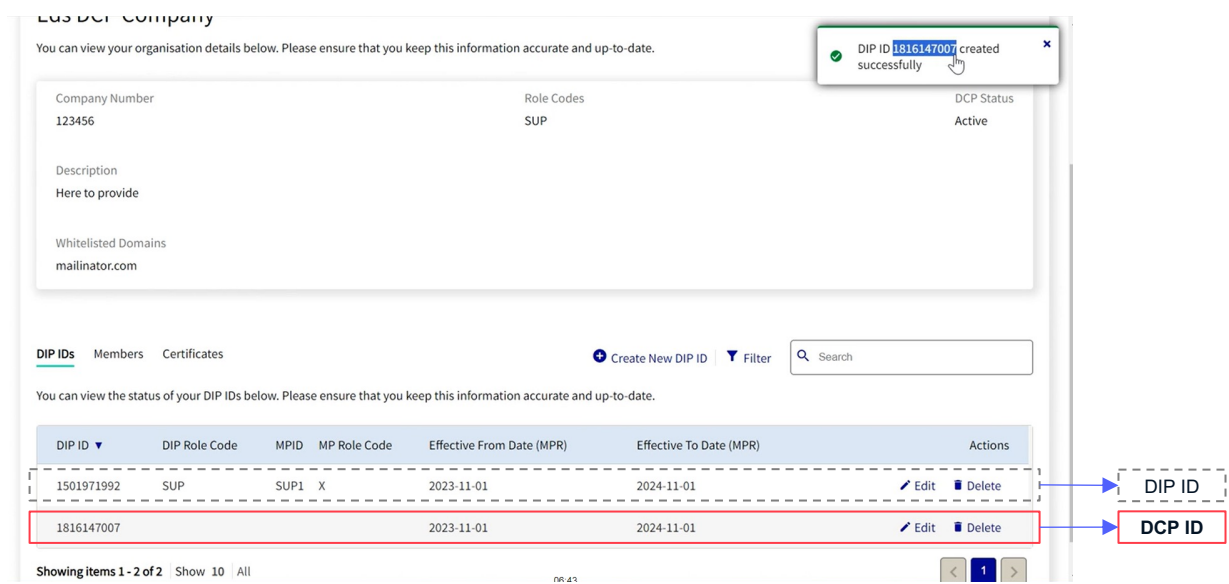
- 1 From the home page, click on the “Market Participants” tab and select “Create New DIP ID”



- 2 You will see the following pop-up. Tick the box to indicate that the DIP ID you're generating is a DCP ID and “Confirm”



- 3 You will receive confirmation on the top right corner of your screen that your DIP ID has been created successfully. A **DCP ID differs from a DIP ID** in that a DCP ID has no “DIP Role Code”, no “MPID” and no “MP Role Code”, These are inherited from the DIP ID that nominates it.



- 4 Communicate your DCP ID (in this case “1816147007”) back to your assigning organisation, and they will now be able to nominate you as a DCP.

**Please Note:**  
Each DCP ID can only be assigned to one role. You therefore need to create a DCP ID for each role you'll be performing for your assigning organisation.





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# Nominating a DCP in the DIP

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# Creating a DCP Connection in the DIP – USER ADMIN

## Nominating a DCP

As a Market Participant Organisation using a DCP, you can assign a particular role to your chosen DCP. To assign one of your company roles to a DCP, the DCP MUST already have 1) Completed their onboarding in advance 2) Requested and approved DCP Status and 3) Created and shared a DCP ID with you. This process needs to be repeated for each role you wish to use a DCP for, requiring a new DCP ID for each.

Your User Admin will 'Sign In' to the DIP and select the 'Market Participant' tab. To nominate your DCP complete the following steps.

- 1 Select the role to which you want to assign a DCP

The screenshot shows a table with columns: DIP ID, DIP Role Code, MPID, MP Role Code, Effective From Date (MPR), Effective To Date (MPR), and Actions. The first row is highlighted in yellow, indicating the role selected for nomination.

DIP ID	DIP Role Code	MPID	MP Role Code	Effective From Date (MPR)	Effective To Date (MPR)	Actions
1397668891	REGS	ABC		2023-11-01	2024-11-01	Edit Delete
1418870217	SUP	SUP2	X	2023-10-26	2024-10-26	Edit Delete
1912215023	ISD	SUP2	n/a	2023-10-26	2024-10-26	Edit Delete

- 2 Select the **YELLOW BOX** - 'Nominate DIP Connection Provider'

The screenshot shows the details page for DIP ID: 1397668891. A yellow box highlights the 'Nominate DIP Connection Provider' button. Below the button is a table with details for the DCP connection.

Company Number	MPID	Market Participant Role Code	DIP Role Code	DIP ID	Effective From Date (MPR)	Effective To Date (MPR)
420240	ABC	P	REGS	1397668891	2023-11-01	2024-11-01

- 3 The pop-up will provide options for the DCP and their DIP ID – type their name or click the down-arrow to see a list of DCPs and corresponding DCP IDs. Select your DCP and click 'Nominate'.

The first screenshot shows the 'Nominate DIP Connection Provider for DIP ID' pop-up with the 'Market Participant' dropdown menu open. A red box labeled 'DCP ID' points to the dropdown. The second screenshot shows the same pop-up with the 'Nominate' button highlighted.

- 4 You will see a notification pop up in the top right corner of your screen that the DCP has been nominated successfully and your **Yellow Box** will now be **red** and read "Revoke DIP Connection Provider"

The first screenshot shows the DIP details page with a notification 'DCP nominated successfully' in the top right corner. The second screenshot shows the same page with the 'Revoke DIP Connection Provider' button highlighted in a red box.



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# Support & Assistance

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## Support and Assistance: REPEAT PAGE FOR CLARITY OF PREPARTION AND SUPPORT

It is understood that the process to onboard to the DIP has many intricate steps. We fully believe that if prepared correctly, these steps should complete successfully and allow a smooth onboarding, however, we understand that sometimes things do not go as you expect, and a helping hand is needed.

If this situation arises, please send an email to [DIP@mhhsprogramme.co.uk](mailto:DIP@mhhsprogramme.co.uk) with your contact details, description of the step/stage you have reached, a short description of the problem you have encountered and someone will respond as soon as possible.

### Preparation Reminder

In advance of starting the onboarding please complete the following actions:

1. Have ready the assigned Certificate Admin details
2. Have your registered Company Name, the associated Company Number and a brief company description
3. Have your DNS admin prepared and ready for the DNS activity (Section 4)
4. Have your Technical Contact, with the ability to manage through the conversion of certificates, on hand to assist (Section 4 and 5)
5. Do not add additional Market Participants during onboarding: wait until onboarding completion. The User Admin can add new members or/and instigate a DIP Connection Provider (DCP) link after an ACTIVE Certificate has been uploaded

### Post Onboarding

Ensure you have set up to optimise your DIP experience:

1. Read the DIP User Guides to understand the functions and features in detail
2. Ensure at least 2 each of User Admin, Certificate Admin and Message Admin are invited and joined the DIP to allow cover during holiday or absence situations
3. Remember that members can have multiple roles – use according to your needs
4. Try out the 'links' and supporting materials



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# FAQ & Advisories

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## Useful information

No	Question/Note	Response
1	What if I do not receive my DIP invitation when expected	We have noticed that the email can land in JUNK or be trapped due to unusual url domain and link. Please see Pg 9 for url required.
2	I have not received a vetting call from GlobalSign	The primary contact is made to a number GS have from a govt database. The call will be made to your registered HQ. If this fails, they will contact the number entered into the first form on the GlobalSign registration to progress vetting. If this also fails a letter will be sent by 1 <sup>st</sup> class post with instructions and the DIP Team will be informed.
3	I am using OpenSSL but examples are Azure for Certs	Please see the instructions in the Addendum section for OpenSSL. There is a short but sizable video available – please contact the DIP Team.
4	I am using a MAC, what tool for txt file can be used?	We can not give direct action but users have used Notepad ++ successfully. The completion of these task is the MPs responsibility.
5	My cert upload to GlobalSign keeps failing (Pg32)	Check you have pasted your API/Cert info without extra characters (e.g. space or '-'). It is possible the CSR may need regenerated.
6	Whitelisting a DCP / 3 <sup>rd</sup> Party Cert Admin domain	Please contact the DIP Manager to help whitelist any additional domains you wish to provide access to your account





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# Advice for OpenSSL users

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### OpenSSL Commands required during onboarding

#### API Credential Certificate

To generate the CSR and Private Key:

```
openssl req -new -newkey rsa:4096 -nodes -keyout apicert.key -out apicert.csr -subj "/CN=<enter API credential Subject Name Here>"
```

To merge the Private Key and Certificate into a PFX:

```
openssl pkcs12 -export -out apicert.pfx -inkey apicert.key -in apicert.cer -password pass:
```

#### mTLS/Signing Certificate

To generate the CSR and Private Key:

```
openssl req -new -newkey rsa:4096 -nodes -keyout mtls-cert.key -out mtls-cert.csr -subj "/CN=<enter Subject Name here>" -addext "subjectAltName = DNS:<enter Subject Name here>, DNS:<enter Hostname plus Domain here>"
```

To merge the Private Key and Certificate into a PFX:

```
openssl pkcs12 -export -out mtls-cert.pfx -inkey mtls-cert.key -in mtls-cert.cer -password pass:
```



# Thank you