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Industry-led, Elexon facilitated

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# MHHS Webinar: Interface Code of Connection & PKI Policy

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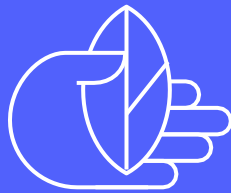
MHHS Webinar

11 May 2023

MHHS-DEL1207

## Introduction

Richard Gwatkin & Kevan  
Gleeson  
5 minutes



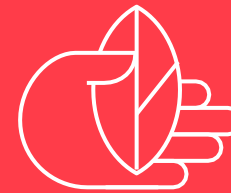
## DIP Manager

Chris Wood  
5 minutes



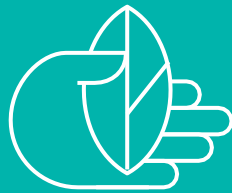
## Interface - Technical Overview

Kevan Gleeson & Rob Golding  
20 minutes



## Reminder of support and Q&A

Facilitated by Kaitlin Jones  
15 minutes





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Please send in your questions using  
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Questions will be answered at the end of the webinar.

A complete Q&A will be made available on the website.

# What we'll cover today



**An overview of the DIP Manager**



**Key components of the Public Key Infrastructure (PKI) Document**



**Key components of the Code of Connection**

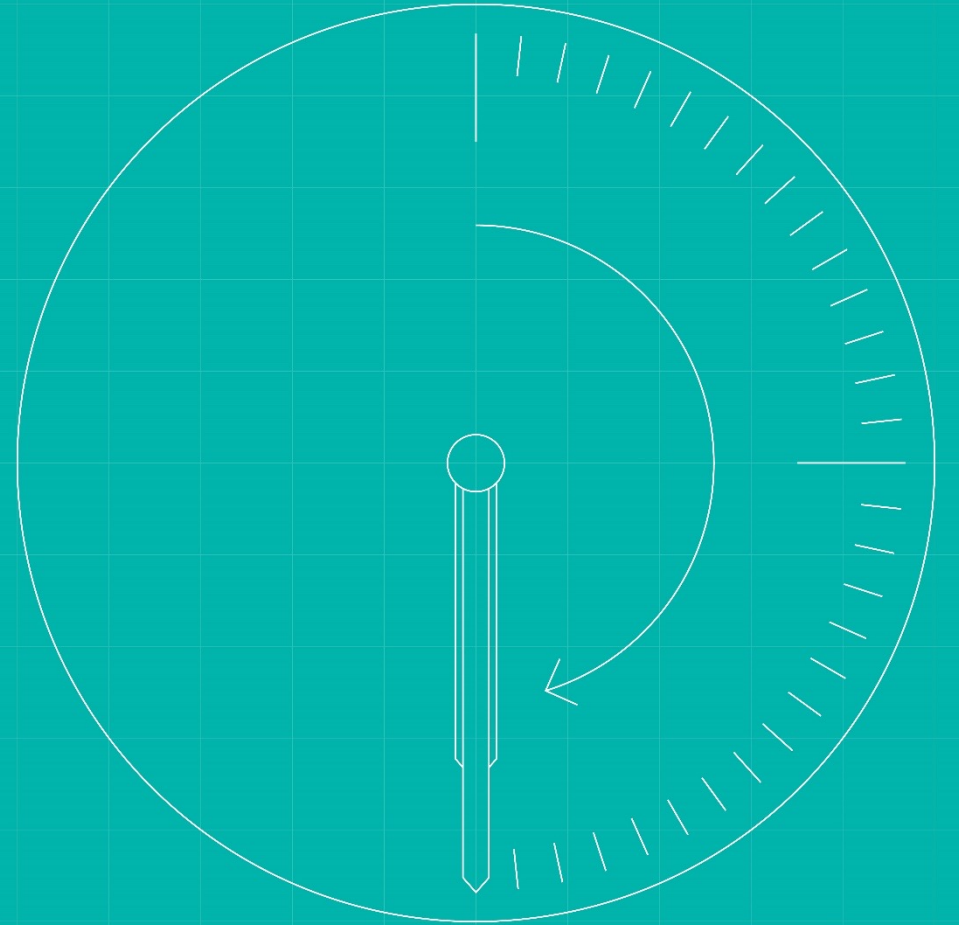


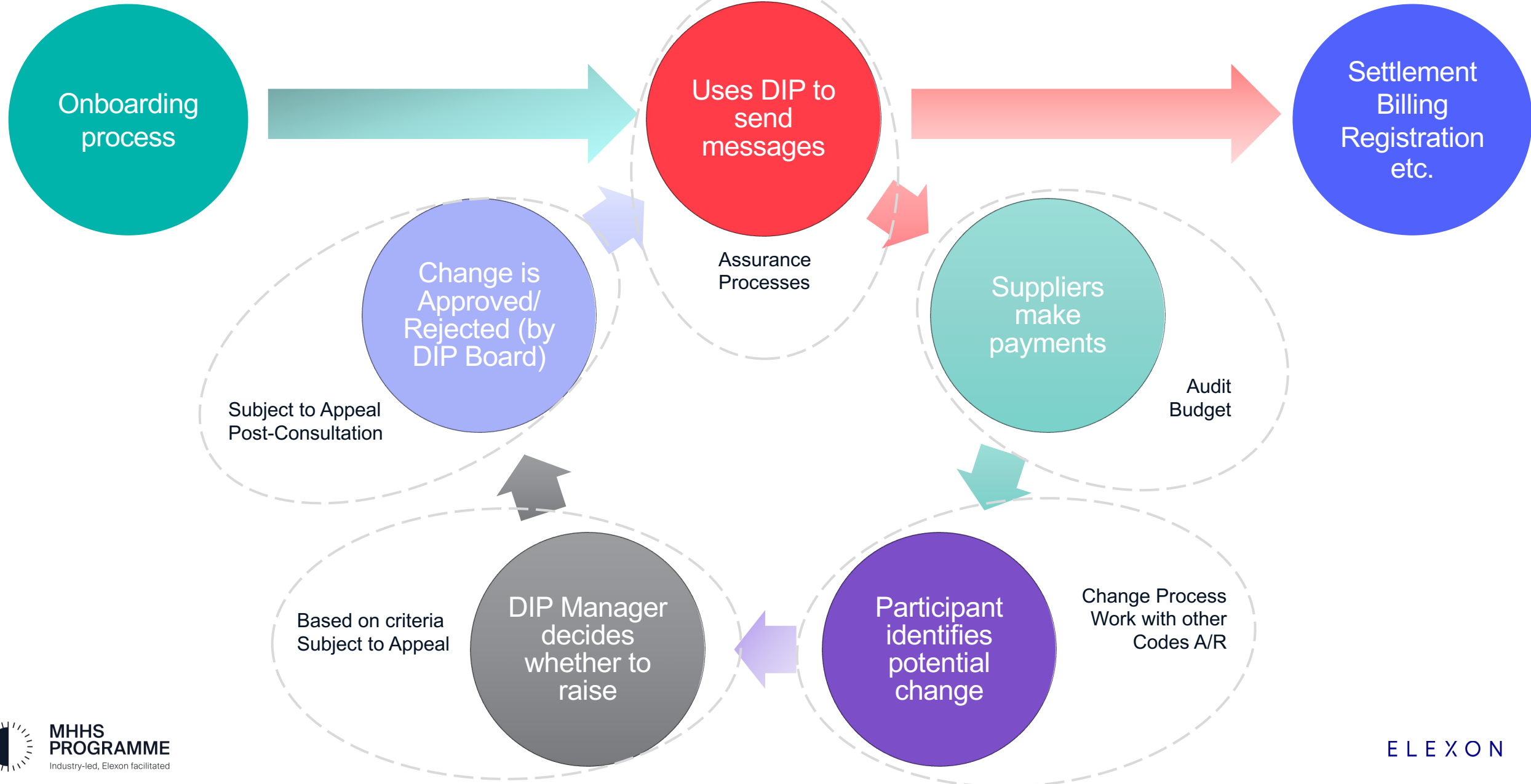
**Next steps**



**Reminder of ways to engage**

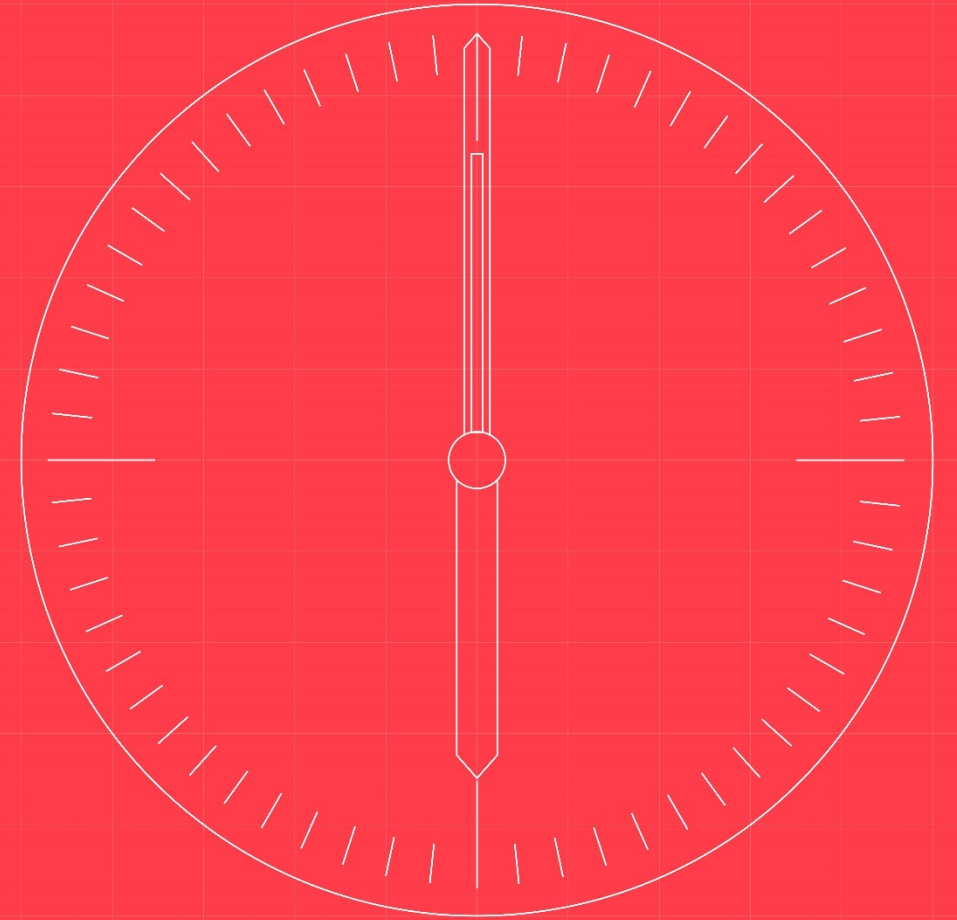
# DIP Manager

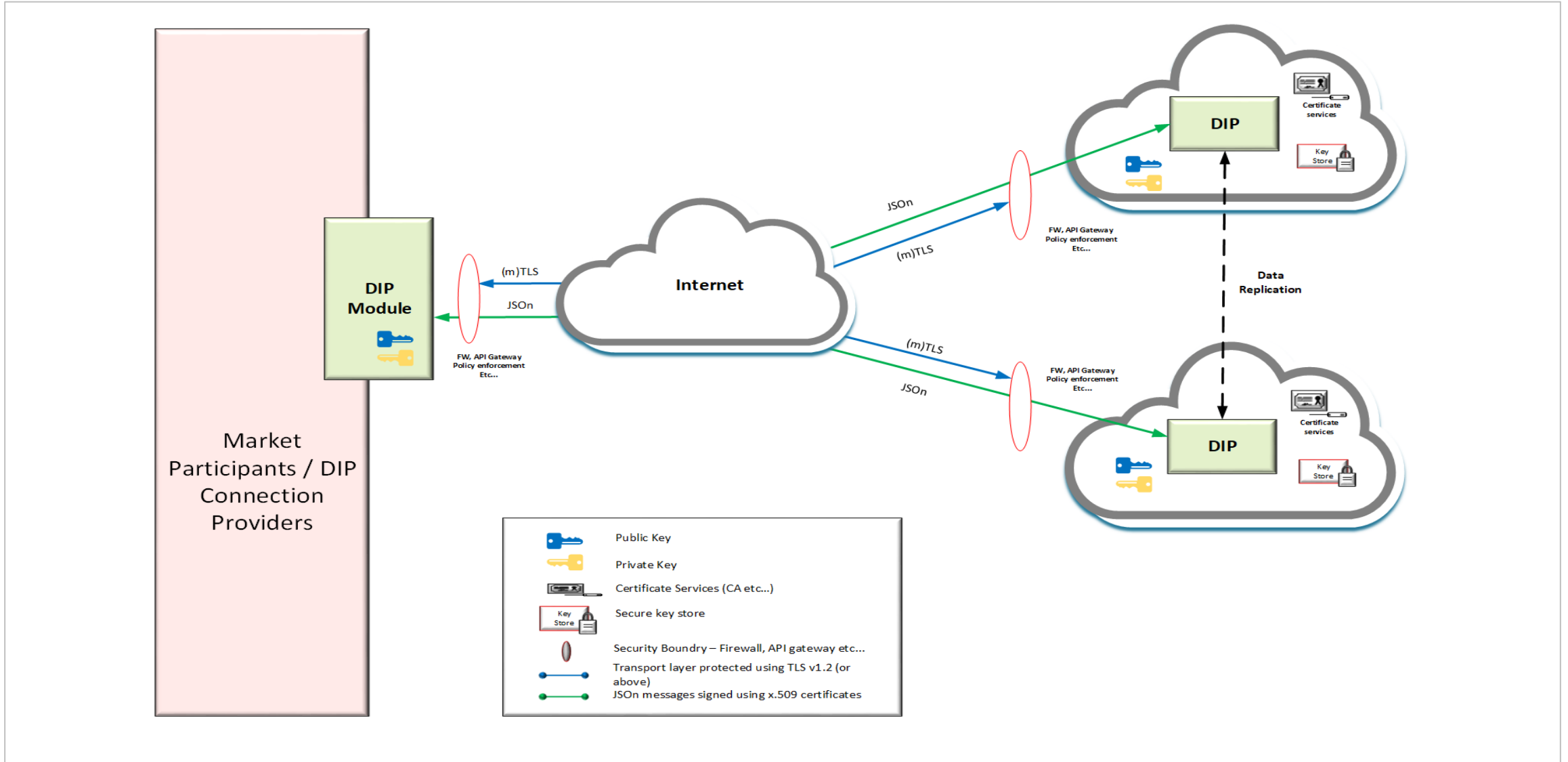




# Technical Overview (CoCo & PKI)

Kevan Gleeson & Rob Golding







# Public Key Infrastructure

## PKI Provider

- GlobalSign chosen by Avande as the PKI service provider

## PKI Policy

- The DIP will be following similar processes to those implemented by the Faster Switching Programme and, where possible, will use the same terminology

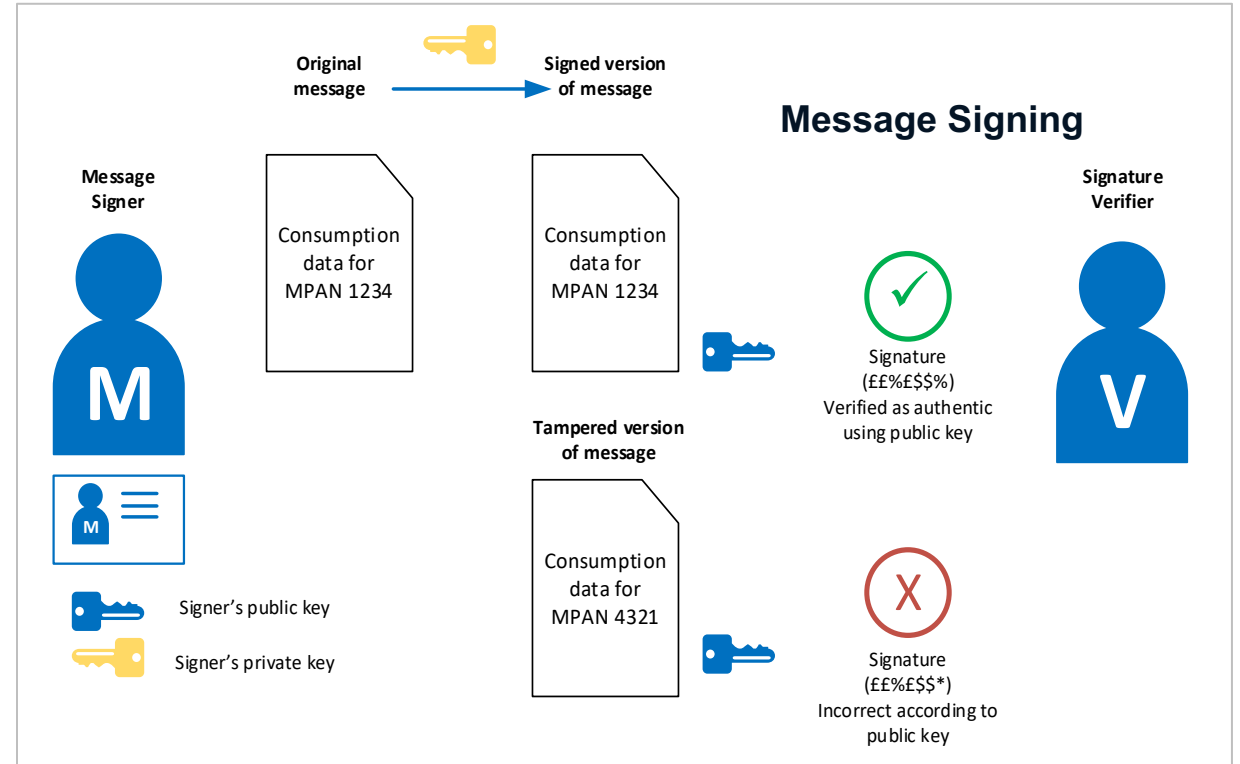
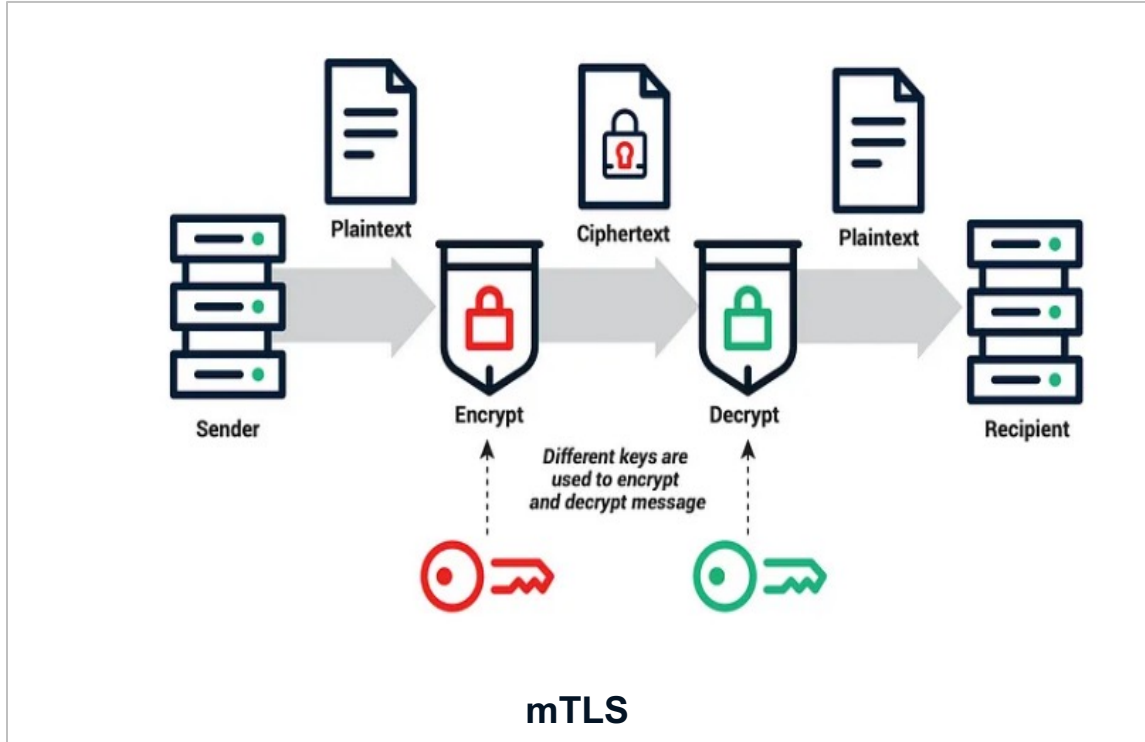
## Certificate Governance

DIP service users will be required to assign the following (where applicable):

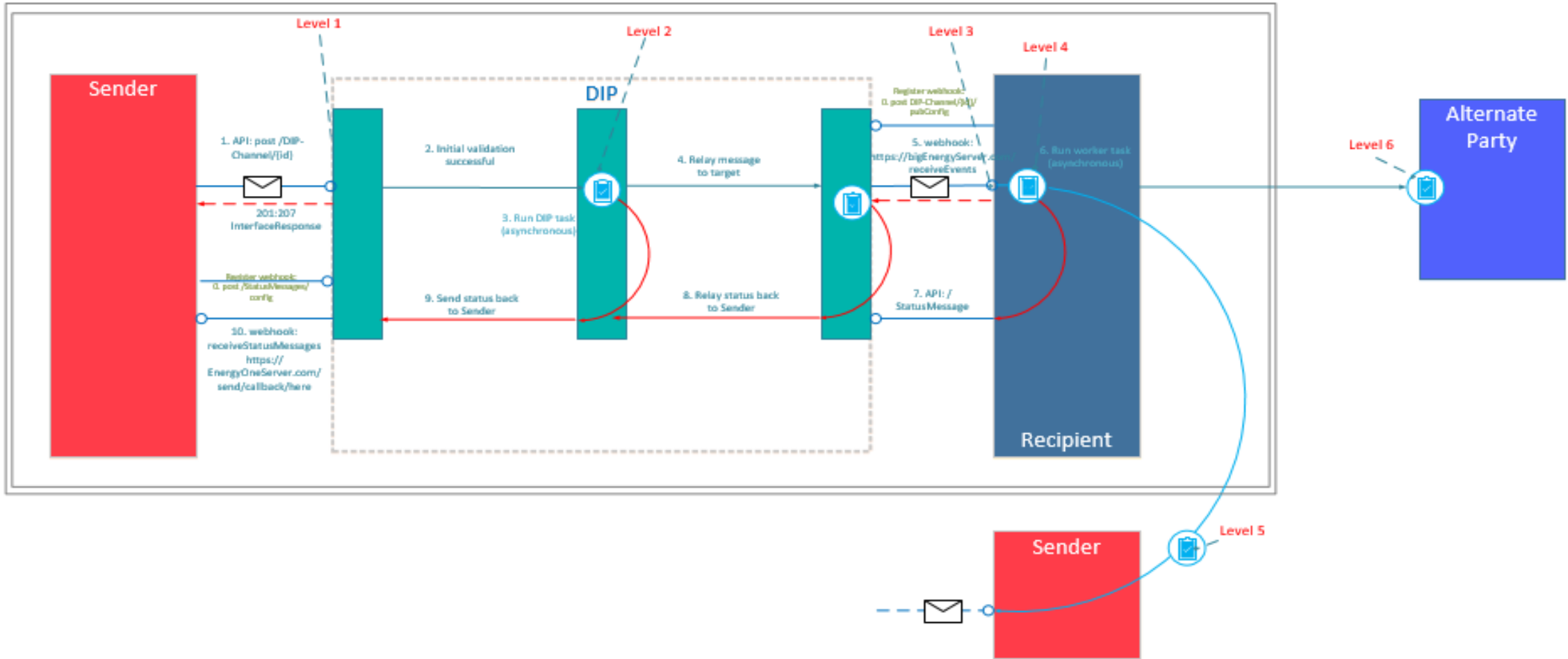
1. Nominating officer
2. Senior Responsible Office SRO
3. Appointed Responsible Office (ARO)
4. Technical Contact (TC ) Can be employees of another organisation approved by the Market Participant.

## Certificate Management

- Certificate requests, renewals and certificate revocations can all be undertaken directly from within the DIP User Portal (Self service)

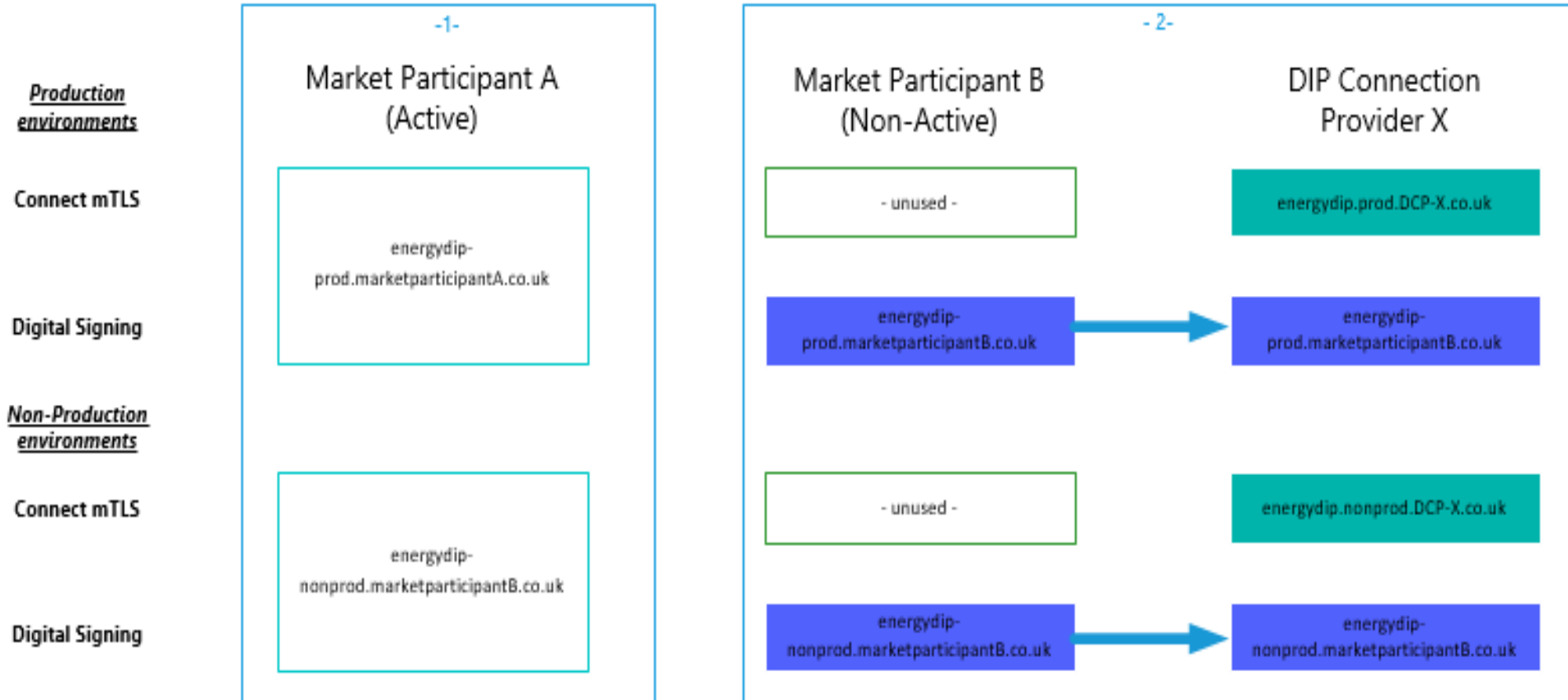


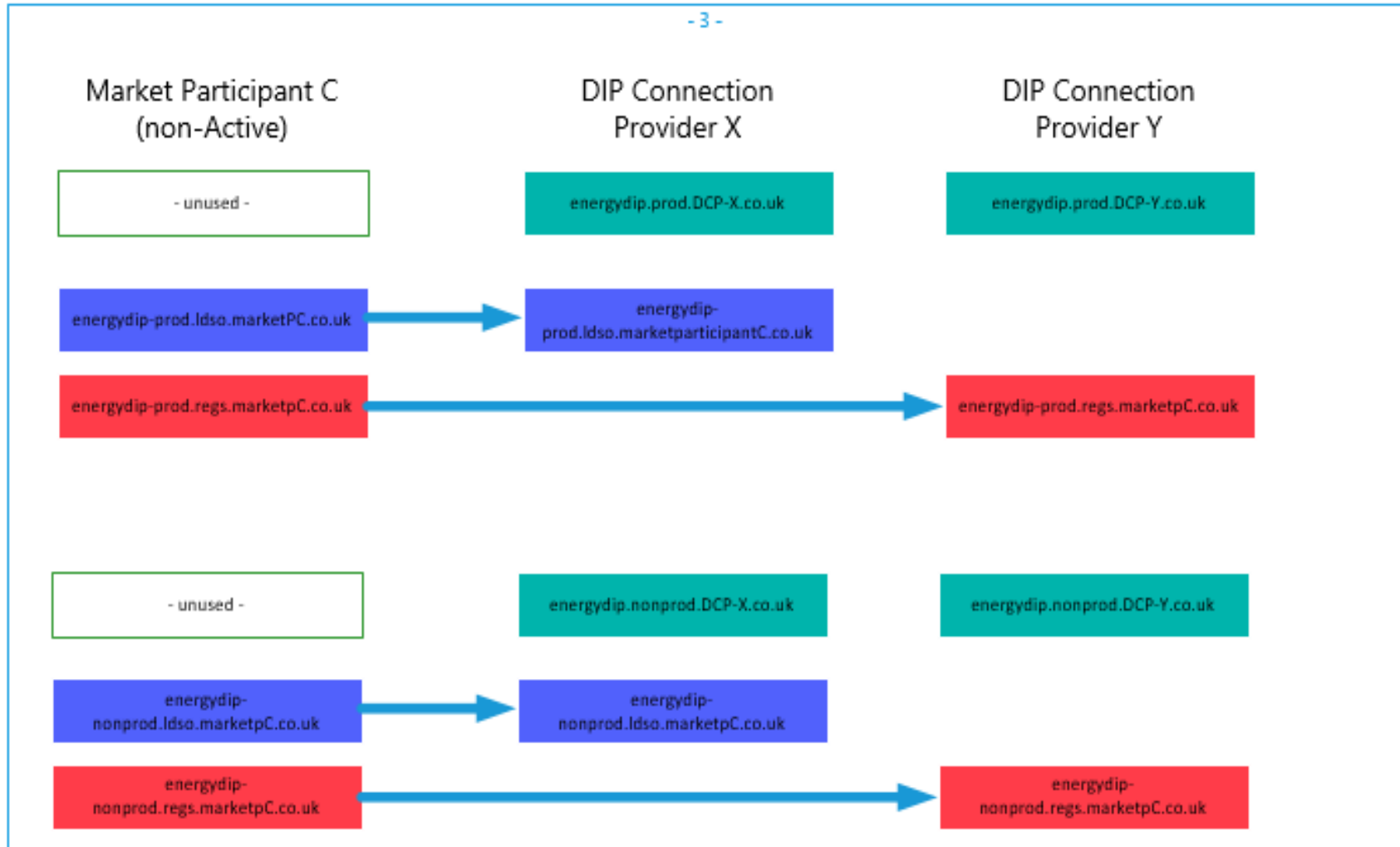
# APIs & Webhooks



## How are certificates used in the DIP?

Party	TLS Certificate	Digital Signature Certificate	Notes
Market Participant (active)	Yes	Yes	<ul style="list-style-type: none"> <li>DIP Digital Signature Certificate is made available to allow Parties to verify signed messages from the DIP</li> <li>The same certificate is used for both mTLS connections and message signing</li> </ul>
Market Participant (non-active)	No	Yes	<ul style="list-style-type: none"> <li>These parties give authority to Dip Connection Providers (DCPs) to sign messages on their behalf</li> </ul>
DIP Connection Provider	Yes	No	<ul style="list-style-type: none"> <li>DCPs supporting multiple clients need only a single connection between their service and the DIP</li> <li>Messages must be signed using a certificate provided by the DIP Market Participant who they are representing</li> </ul>





A DIP message signature represents digitally signed content using JSON data structures and base64url encoding. A message contains the following values:



### X-DIP-Signature

- This represents the message signature



### X-DIP-Signature-Date

- This represents the message signature date



### X-DIP-Signature-Certificate

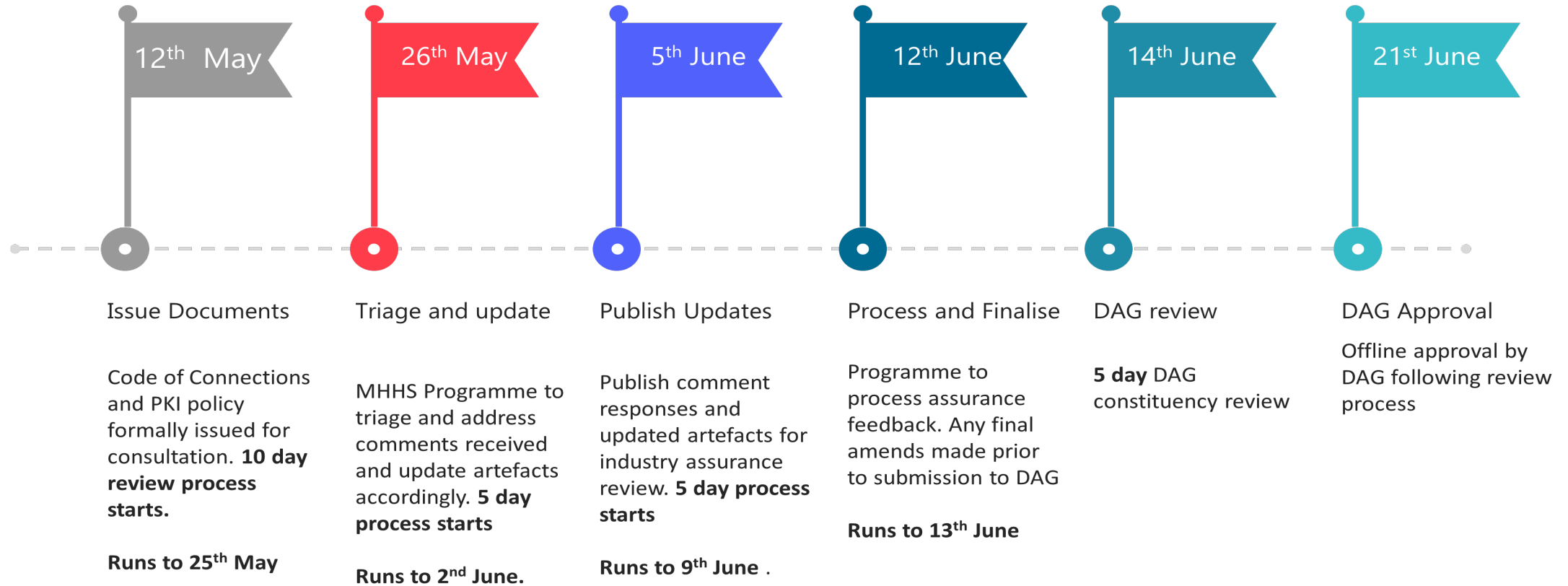
- This represents the public key certificate of the sender (private key used to generate signature)



### X-DIP-Content-Hash

- Base64 URL encoded JSON payload using UTF-8 Character encoding

# CoCo & PKI Timeline







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Any questions for the DIP team?  
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A complete Q&A will be made available on the website.

DIP queries & Technical Support

- If you have a query in relation to the DIP, either contact your PPC representative – or email the PPC team at [PPC@MHHSProgramme.co.uk](mailto:PPC@MHHSProgramme.co.uk)
- For technical support, including access to the Collaboration Base, please contact our IT Helpdesk at [ITHelp@mhhsprogramme.co.uk](mailto:ITHelp@mhhsprogramme.co.uk)

PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme participants
- The sessions are used to enable a two-way conversation between the participants and the Programme – wider Programme team members can join these sessions as requested
- Contact [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) to schedule your next meeting

MHHS Website & Collaboration Base

- The [MHHS website](#) provides access to publicly available information on the Programme. It includes the latest information on the Programme workstreams, governance, news and upcoming events
- The Collaboration Base is the window to the Programme, providing access to documents for information, collaboration and review
- The Code of Connection and PKI Policy are available to view on the [Data Integration Platform \(DIP page on the Collaboration Base\)](#).

Working Groups

- There are a number of active Level 4 Working Groups which are key for engaging across all elements of the Programme impacted by the DIP
- This includes the **Security Design Working Group (SDWG)** and the **Technical Design Working Group (TDWG)**
- These working groups are open to all participants
- If you'd like to attend please email [PMO@MHHSProgramme.co.uk](mailto:PMO@MHHSProgramme.co.uk)

Newsletter

- The Clock is the Programme's weekly newsletter
- It provides you with updates and key information to support delivery of the Programme
- It signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery
- To sign up, please contact the PPC team [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) or register by clicking in the footer of any page on the [MHHS website](#)