

# ECoS Drop In / Briefing Session

Tuesday 22 November 2022

We believe in making Britain more connected, so we can all lead smarter, greener lives.

# Agenda

No	Topic
1	ECoS Team Introductions
2	<b>Objective of todays session</b>
3	What is ECoS?
4	ADT Guidance
5	MPID Report and next steps
6	Update on Solutions on moving TCoS private key to ECoS party
7	Customer Engagement
8	Next Steps
9	AOB

# Objective of today's session

- To share information related to key areas of the ECoS programme and progress
- To bring all interested parties with us on the ECoS journey
- To ensure a continued positive engagement with all stakeholders
- To provide the opportunity to ask questions and gain a better understanding of ECoS
- To all be a part of the ECoS team

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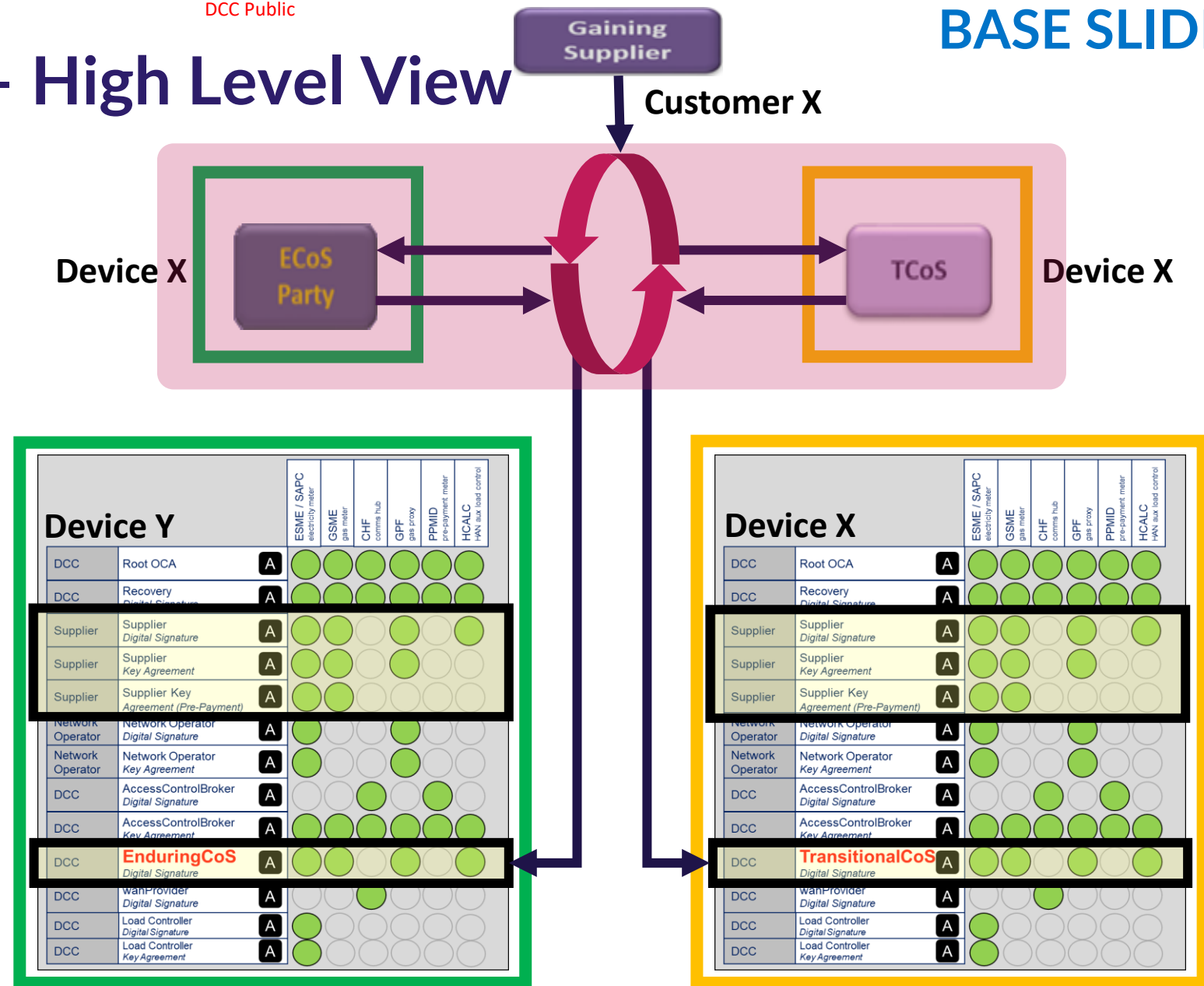
# Recap – What is ECoS – High Level View

## TODAY

1. Gaining Energy Supplier requests a change of “Supplier”
2. After all existing processing takes place..... the TCoS Component sends a CoS SRV 6.23 to the device
3. On the device, the “Supplier” details are updated

## After ECoS

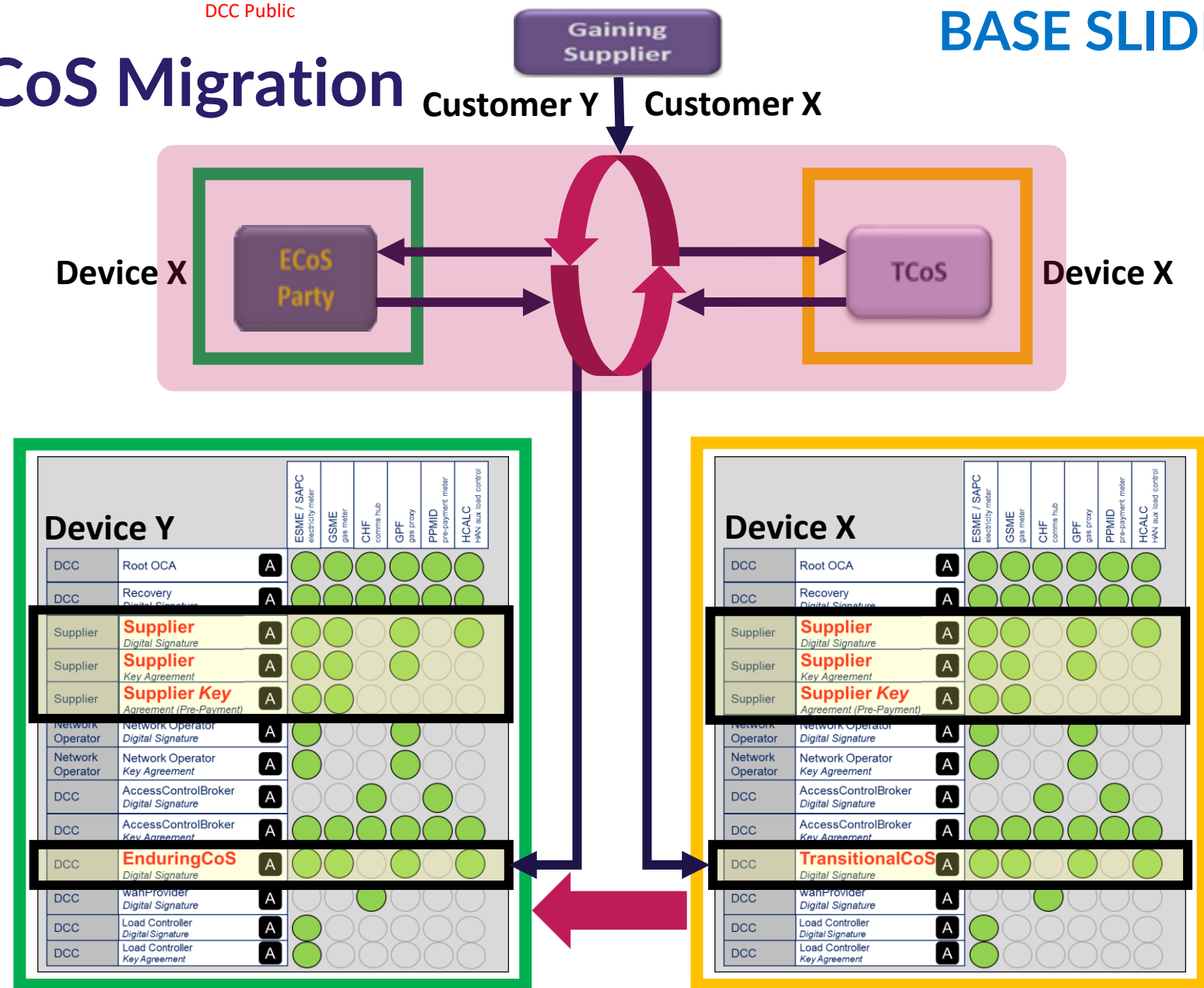
1. Gaining Energy Supplier requests a change of “Supplier”
2. After all existing processing takes place..... the ECoS Party component sends a CoS SRV 6.23 to the device
3. On the device, the “Supplier” details are updated



# Recap – The TCoS to ECoS Migration

The ECoS Migration is about

- The management of the change of credentials on the devices from TCoS to ECoS
- Ensuring the ECoS credentials are created and deployed onto devices at the right time, i.e. to support testing and migration
- Managing the device supply chain and inventory to ensure
  - ECoS credentialed devices are added to the network as soon as possible after Go Live
  - TCoS credentialed devices **stop being added** to the network as soon as possible after Go Live
- Resolving issues associated with devices do not initially accept the new ECoS device credential



# Questions

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# Anomaly Detection Threshold (ADT) June '23 Release

DCC Confidential

The following changes will be applied to the ADT process and file:

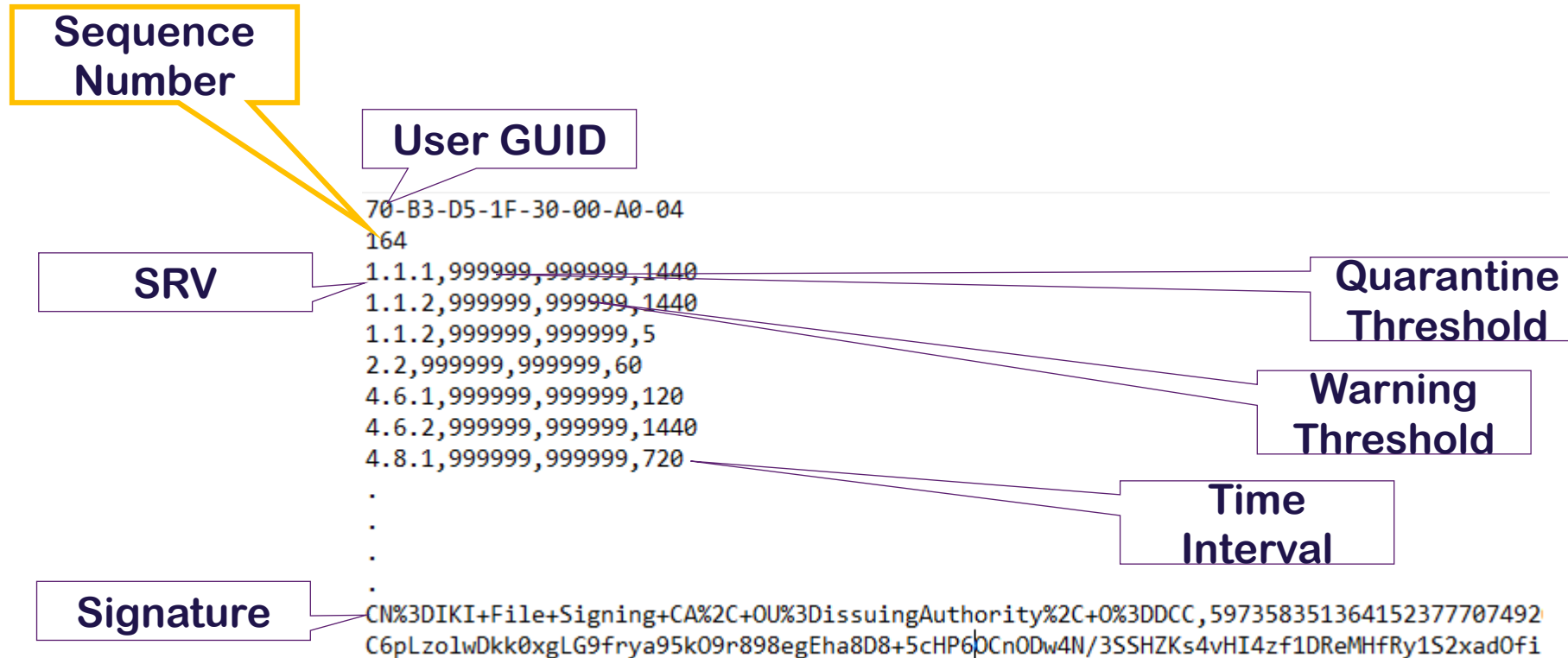
Current SEC	Updated SEC (definition of terms)
No requirement for a daily time interval SRV	Mandates that there is a daily threshold for SR6.23 only
In the event of no valid threshold being in place then set threshold to no threshold	In the event of no valid threshold for an SRV that results in a GBCS Critical Command being in place then set threshold to “zero”.
No requirement for file counter	File counter to avoid replay of file

# CURRENT Anomaly Detection FILE FORMAT

Current User Submission is a csv as follows:

SRV	User GUID	Warning Threshold	Quarantine Threshold	Time Interval
	70-B3-D5-1F-30-00-A0-04			
	1.1.1,999999,999999,1440			
	1.1.2,999999,999999,120			
	1.1.2,999999,999999,1440			
	2.2,999999,999999,60			
	4.6.1,999999,999999,120			
	4.6.2,999999,999999,1440			
	4.8.1,999999,999999,720			
	.			
	.			
	.			
	.			
Signature	CN%3DIKI+File+Signing+CA%2C+OU%3DissuingAuthority%2C+O%3DDCC,597358351364152377707492C6pLzolwDkk0xgLG9frya95k09r898egEha8D8+5cHP60CnODw4N/3SSHZKs4vHI4zf1DReMHfRy1S2xad0fi			

# Anomaly Detection updated FILE FORMAT



# Anomaly Detection Threshold (ADT) June '23 Release

The new regulation is for ALL relevant SRV's Not just a 6.23 (CoS) SRV:

- All ADT submissions from DCC Users must have a **Sequence Number**.
- For Critical messages or messages leading to a critical command - If no threshold set threshold **to zero**.
- For non critical messages, there will be **no threshold set** for that Service Reference Variant
- Must supply **24 hour daily** thresholds for SR6.23 messages

# What will happen to ADT settings during the change period?

During the 2023 release, ADT settings will be managed as follows:

- All ADT settings submitted by users prior to the June 2023 changes will be transferred to the new release and included in the ECoS Database.
- Users will therefore not be required to resubmit ADT files after the June 2023 release to maintain settings
- To change any ADT settings a new ADT file must be submitted that conforms to these changes.

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# DCC MPID Tracking

## October 22 snapshot

*We believe in making Britain more connected,  
so we can all lead smarter, greener lives.*

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## Monthly MPID Usage Tracking Headlines

Distinct SEC Parties  
Sending 6.23 SRV

49

SEC Parties All Success

38

SEC Parties Processing  
with Missing MPID

0

SEC Parties Sending  
No 6.23 SRV

24

(3.5k Meters)

Total 6.23 SRV  
Processed

951,148

Correct Outcomes

932,817

Incorrect Outcomes

18,331

Outcomes Missing MPID

0

Distinct MPID

92

MPID with only Correct  
Outcomes

74

MPID with Incorrect  
Outcomes

18

MPID with Outcomes  
Missing MPID

0

- Of the 49, all SEC Parties sending 6.23 SRVs have an MPID in their XML Signing cert
- Approximately 98% of the total 6.23 SRV CoS messages have the correct MPID & would have succeeded

# MPID Reporting Illustration – (This is what DCC can see)

SECPartyName	SECPartyId	MPID	CertificateSerialNumber	RefDate	Outcome	OutcomeCount
ACME Energy Limited	ACME1	ACMG	86867138299424734227796208443415314284	20220801	I	75
ACME Energy Limited	ACME1	ACBM	86867138299424734227796208443415314284	20220801	I	4
ACME Energy Limited	ACME1	ACEM	86867138299424734227796208443415314284	20220801	I	8
ACME Energy Limited	ACME1	ACMB	86867138299424734227796208443415314284	20220801	I	1
ACME Energy Limited	ACME1	ACMR	86867138299424734227796208443415314284	20220801	I	28
ACME Energy Limited	ACME1	ACMO	86867138299424734227796208443415314284	20220801	I	2
ACME Energy Limited	ACME1	ACMR	86867138299424734227796208443415314284	20220801	I	9
ACME Energy Limited	ACME1	ACME	86867138299424734227796208443415314284	20220802	S	321
Outcome Key						
S – Success: The XML Cert used contained the expected/required MPID						
I – Incorrect: The XML Cert used did not contain the expected/required MPID						
M - Missing: The XML cert did not contain an MPID						
<b>Narrative:</b> SEC Party 'ACME Energy Ltd' is using an XML Signing certificate to sign their CoS messages. The XML Signing certificate contains an MPID - 'ACME'. You can see that the same XML Signing certificate is being used for all of ACME1 CoS messages. The other 6.23 SRVs fail with an error (wrong MPID Used) because they are using the XML Signing cert with the MPID 'ACME'						

This XML Signing Certificate contains an MPID that matches the

The **S** tells us that this (ACME) CoS message has been signed with an XML Signing credential that contains the correct MPID. The messages with a status of 'I' show the MPID is present but is not the right one for that 6.23 SRV.

# Next Steps

- Check you have an MPID in place - Parties expecting to use SRV 6.23 (CoS) must have obtained an XML Signing cert for every MPID that will be sending SRV 6.23 (CoS) messages
- DCC will start to pro-actively provide support to Industry by sharing the MPID reporting details for their SEC Party and assist in identifying the problem starting in December.

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# Update on technical option to move the TCoS Private Key to the ECoS Party

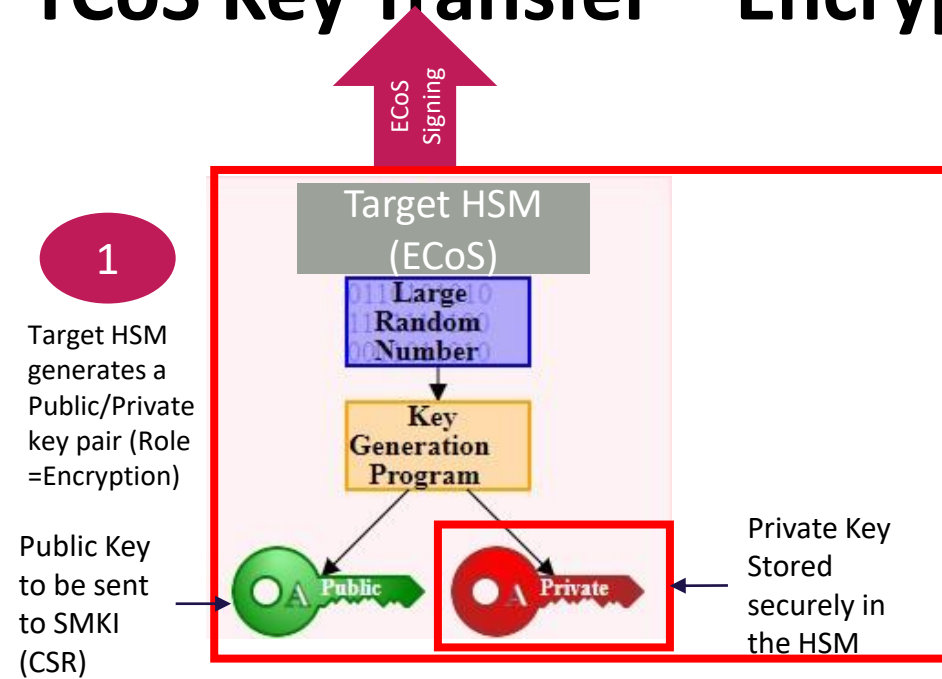
October 2022

# Moving of the TCoS Private Key to ECoS party

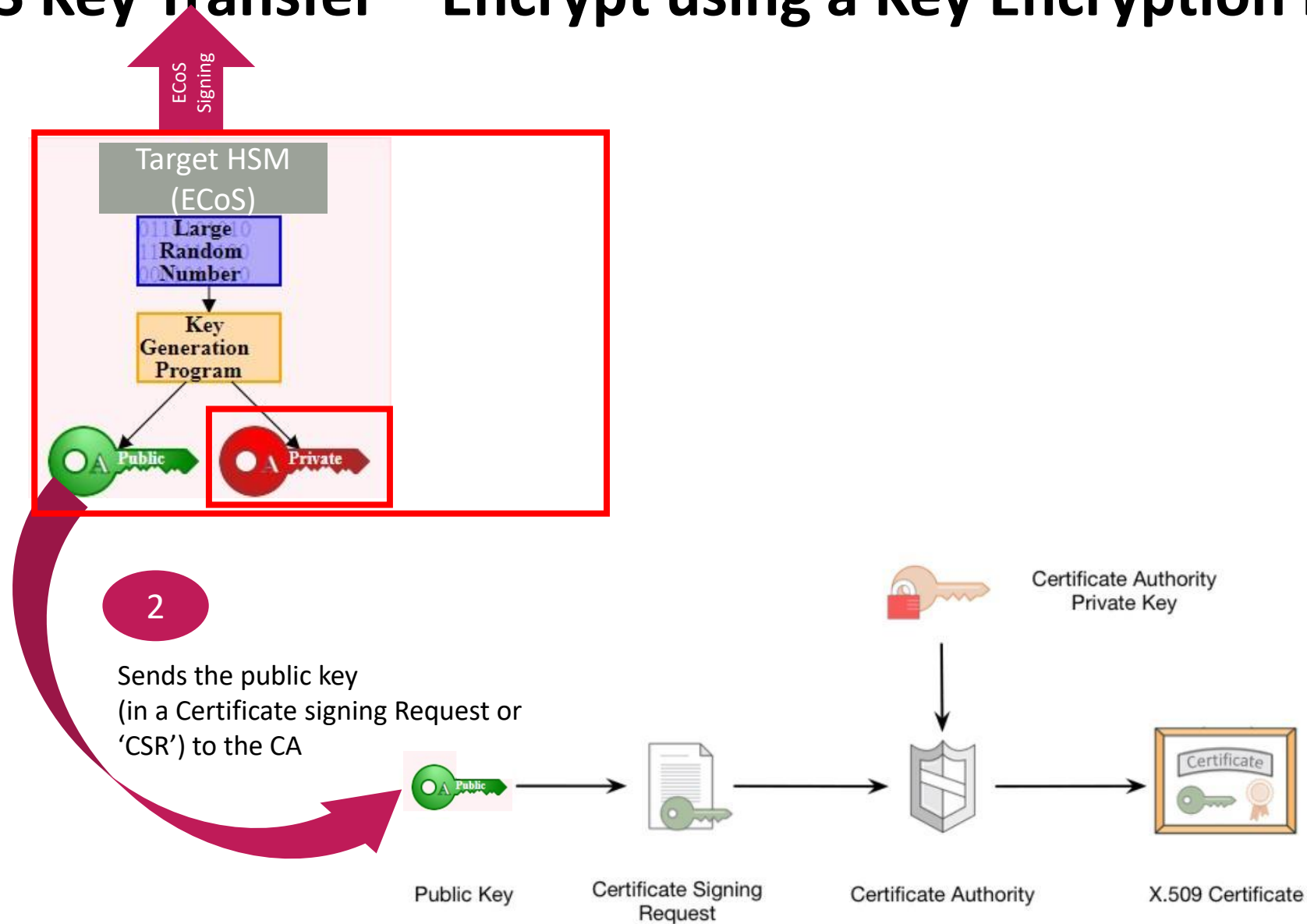
Three proof of concepts proposed:

- POC 1(a) – Demonstrate secure transfer of keys (CGI only) proves that an EXPORT works - **Completed**
- POC 1(b) – Demonstrate secure transfer of keys - CSW is doing some development work - **Completed**
- POC 1(c) – Demonstrate CSW custom application will work on the Accenture infrastructure and allow the successful import of TCOS keys into the Accenture Luna HSM – **Completed**
- POC 2 - Demonstrate the transferred TCoS Private material could be operated by the ECoS application for Change of Supplier and TCoS to ECoS migration– Accenture – **Work in progress between Service Providers and target completion date 9<sup>th</sup> December 2022**
- POC 3 - Demonstrate the Devices would still accept Change of Supplier and TCoS to ECoS migration use cases generated by the ECoS application. This was proved with a real meter that a device will accept the CS02b command even after the TCoS certificate has expired – **Completed**

# TCoS Key Transfer – Encrypt using a Key Encryption Key (KEK)

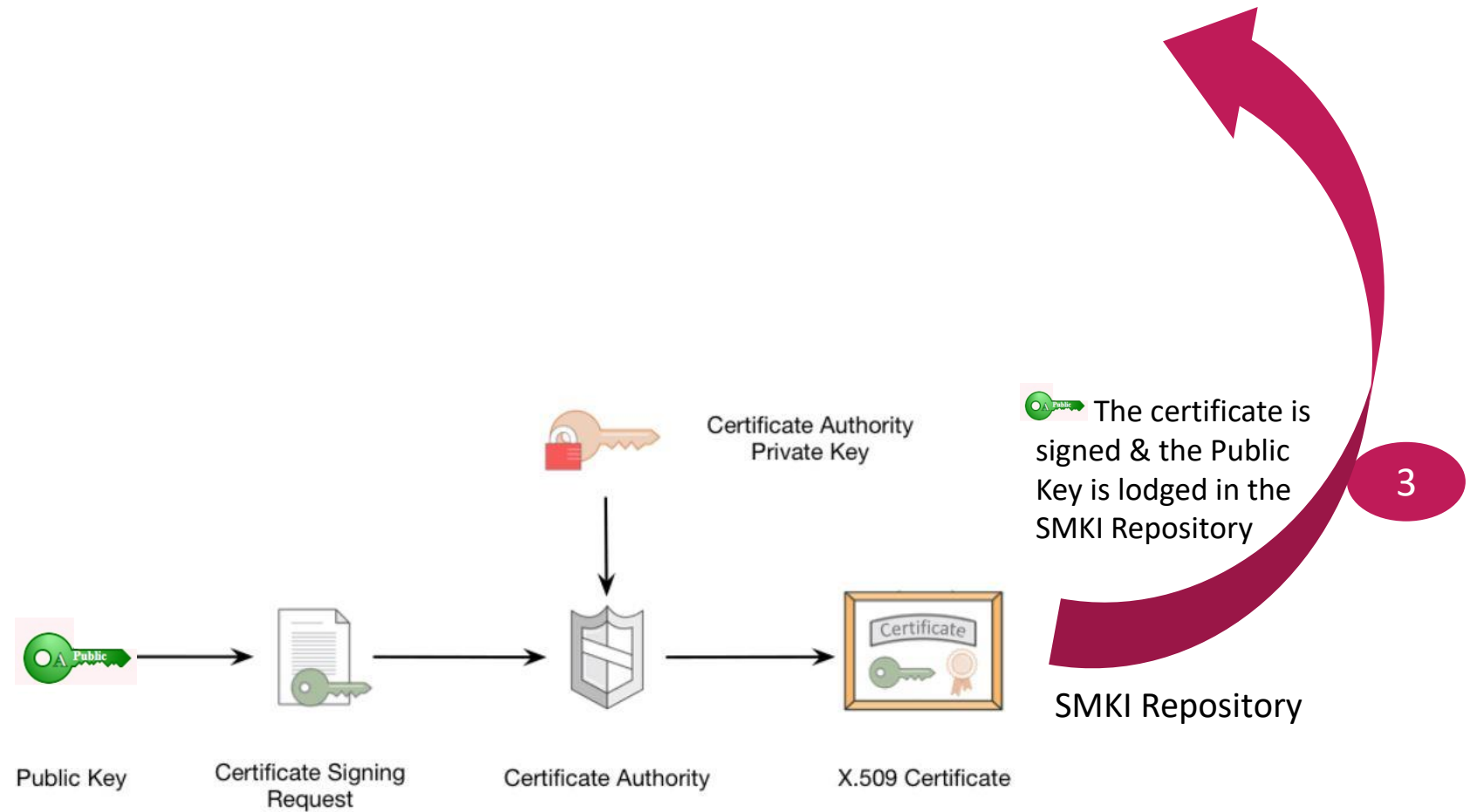


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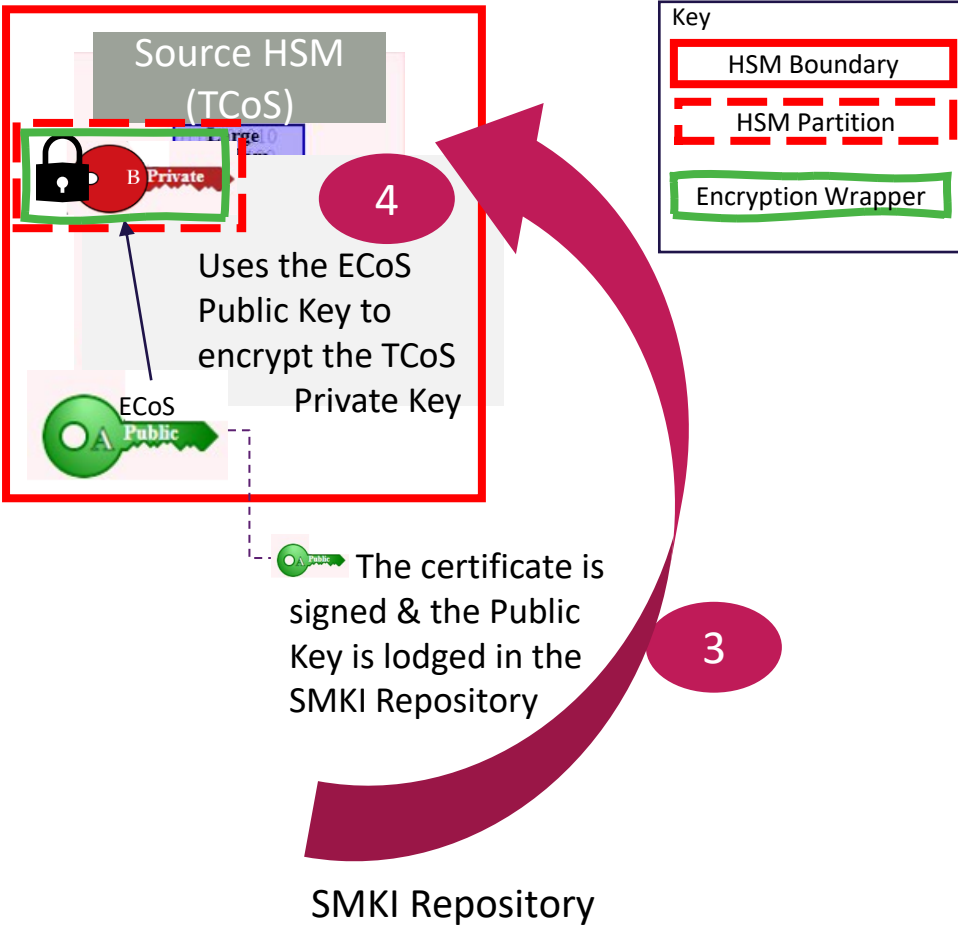




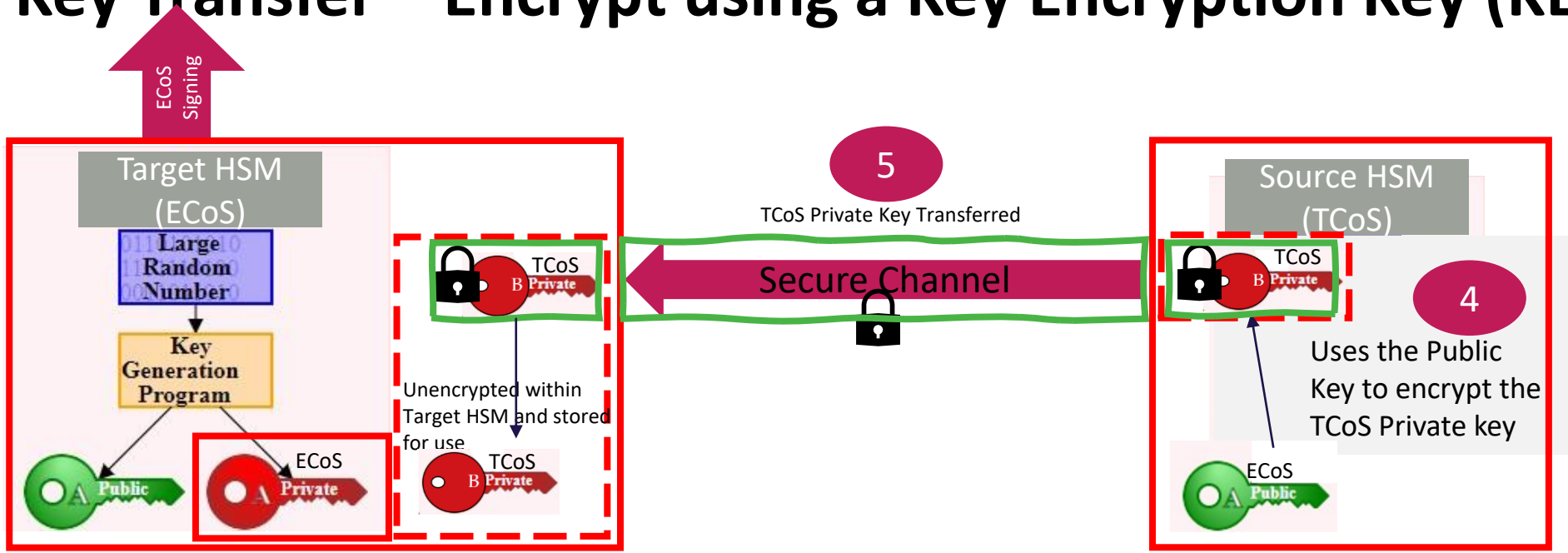
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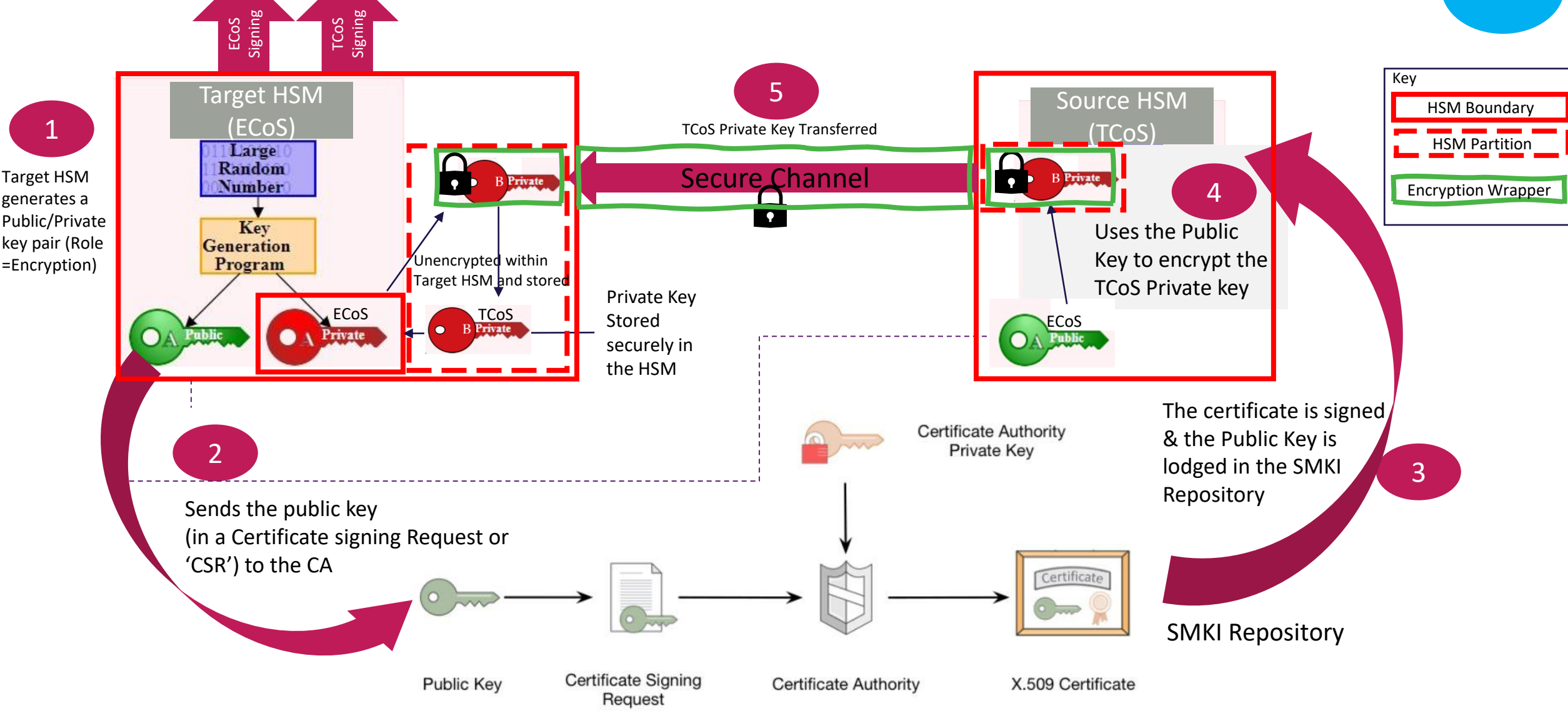


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INFO



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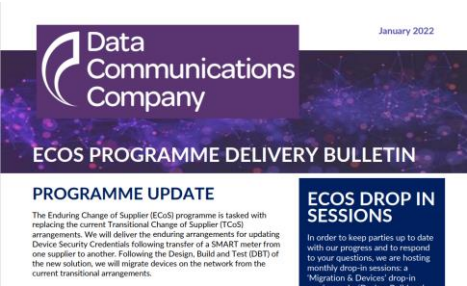


ECoS website to provide latest updates, documents.



On key questions from industry

# ECoS Engagement



Newsletters issued to c 800 customers each month..

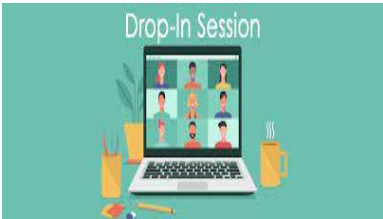
## Industry Forums



ECoS programme have been actively engaging with industry & our wider customers via various routes to provide the appropriate transparency and latest updates of the programme.

These channels have aided in reaching out to a wider audience

Summit 26<sup>th</sup> April 2022



Drop-in sessions implemented since August 2021 has seen 200 attendees so far..

We will continue our communications, drawing on insights to improve customer experience throughout the lifecycle of the programme

# ECoS Planned engagement activity August 2022-January 2023

Panel Sub Committee

Direct engagement

BEIS

<b>SSC/ SMKI PMA</b> Monthly updates at 2nd SSC of the month done by the CIO auditor/DCC security lead	IMF-updates on delivery of JIP milestones & Programme	IMF-updates on delivery of JIP milestones & Programme	Testing Design & Energy Group (TBDG) Provide update on User Testing requirements 8.11.2022		IMF-updates on delivery of JIP milestones & Programme
DCC Testing Services to issue request for Suppliers to Test their devices	Email suppliers to request indicative plan for Business Process changes implementation	DCC Testing Services to remind Suppliers to test their devices	IMF-updates on delivery of JIP milestones & Programme	IMF-updates on delivery of JIP milestones & Programme	TBDG-updates on Business Process Changes
August 2022	September 2022	October 2022	November 2022	December 2022	January 2023
<b>TBDG</b> update on MPID report usage/ ECoS risks to go live and completion of migration	TBDG-updates on Business Process Changes	TBDG-updates on Business Process Changes	TBDG-updates on Business Process Changes	Bilateral meetings to run through suppliers' Business Process Changes/ User Testing	Bilateral meetings to run through suppliers' Business Process Changes
<b>TAG93 - 31.08.22</b>	<b>TAG94 - 28.09.22</b> To take SCTAD for approval, and the DCSE Test Coverage Document for Approval	ETMAD – EMRR and EMEHRA Consultation Document Preparation	<b>TAG95-30.11.2022</b> TBC		Migration Event TBC
ETMAD consultation report published		<b>CMA</b> To update on Migration 20.10.2022			

Monthly Drop-in sessions & Newsletters to inform wider industry key updates, progress, requirements of the programme.

Weekly BEIS meeting to discuss progress on the Delivery of the Programme

# Customer Engagement

Next ECoS Newsletter to be issued 1<sup>st</sup> December 2022.

The [Enduring Change of Supplier \(ECoS\) | Smart DCC](#) website includes detailed information about the programme, updates, monthly newsletters and a comprehensive Q&A

Monthly drop-in sessions on 'Migration & Devices' and 'Design, Build and Test' have been set up with NCL 'Lead Contacts' and 'Back Up Contacts' being invited.

[customerengagement@smartdcc.co.uk](mailto:customerengagement@smartdcc.co.uk).

If you have feedback on what would be good to cover in these sessions please use email address [SMB-ECoS@smartdcc.co.uk](mailto:SMB-ECoS@smartdcc.co.uk) to make contact.

**Send an email to [SMB-ECoS@smartdcc.co.uk](mailto:SMB-ECoS@smartdcc.co.uk) to register for these sessions / material**



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# Next Steps

## Key activities over the next 2 months include:

- JM\_7008 - ECOS System Integration Testing (SIT) readiness activities have started and JIP milestone achieved, SIT will continue 26/04/23
- Industry consultation 30 November is on track for the ECoS Migration Reporting Regime (EMRR) and ECoS Migration Error Handling and Retry Approach Document (EMEHRA)
- Ongoing customer engagement activities with Suppliers and BEIS through different forums including TBDG, IMF, TAG, etc. Includes Newsletters, drop in sessions, etc.

**We look forward to seeing you all next year!**

# Questions

# Thank you