SIA | colt

ECMS NCB Training

SIA-Colt Solution Overview

June 2022

Participant User Activities

➢ **SIAnet.XS Portal (https://sianetxs.sia.eu/)** is the single point of contact for SIAnet related configuration

➢ Participant and users enrolment on **SIAnet.XS Portal** activities are `DONE`
   - ✓ Initial User Administrator appointment and enrolment
   - ✓ Relevant users creation (UserAdmin, Domain Officer, Security Officer, Technical Operator)

➢ Action required for **ECMS CGU Subscription** (Domain Join) & **Security Management**
   - ✓ Submission of A2A/U2A ECMS requests (for each environment)
   - ✓ A2A Certificates creation for traffic segregation
   - ✓ Existing U2A Certificates are valid for ECMS access too (upon registration on CRDM through ECMS)

Domain Join (CGU Subscription) process for ECMS

➤ Ticket details
   ✓ **ECMS Domain**

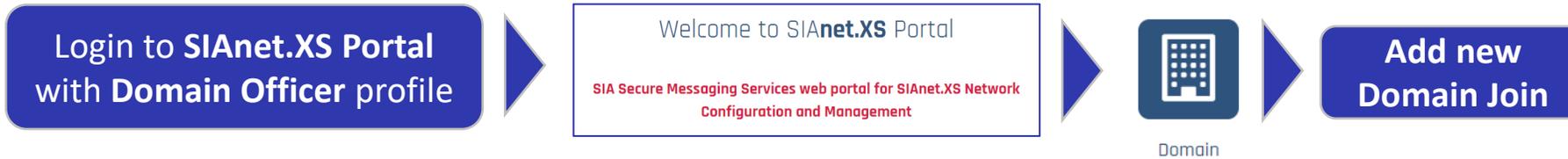| A2A	U2A
A2A.EAC.ECMS	U2A.EAC.ECMS
A2A.UTEST.ECMS	U2A.UTEST.ECMS
A2A.PROD.ECMS	U2A.PROD.ECMS

✓ **NetCode**, unique identifier over SIAnet messaging network
✓ **Technical Address** for A2A, i.e. the Business User (BU)
- Logical address defined by DiCoA, jointly agreed with SIA-Colt
- X500 format (Distinguished Name), according to SIAnet naming rules
- **upon registration on CRDM through ECMS**

➤ Domain Join ticket state diagram

✓ Approval workflow involving ESMIG ECMS Operator and NCB (if applicable)

Requested [DiCoA]	▶	Verified [SIA-Colt]	▶	Authorized [NCB Approver]	▶	Approved [ESMIG Operator]	▶	Closed [SIA-Colt]

*only for non-NCB participant

Configuration deployed on SIAnet

Example for A2A EAC ECMS

Login to **SIAnet.XS Portal** with **Domain Officer** profile

Welcome to SIA**net.XS** Portal

SIA Secure Messaging Services web portal for SIAnet.XS Network Configuration and Management

Domain

Add new Domain Join

Ticket details

Select Relevant Approver: **e.g. "Banca d'Italia"**
only for non-NCB participant, according to workflow described in the «TARGET Services onboarding Guide»

Select Domain: **A2A.EAC.ECMS**

New Domain Join

Domain	A2A.EAC.ECMS ▾	Netcode:	12431 ▾	Relevant Approver	39 - Banca d Italia ▾	☐ Network Connected Party ⓘ
Role	DICOA ▾	BU:	cn=techaddr1, ou=eac	cn=techaddr1, ou=eac.o=12431,dc=sianet,dc=sia,dc=eu		NCP ▾
		BIC Code:	Insert BIC Code			Netcode NCP ▾

Domain Description

Send Request
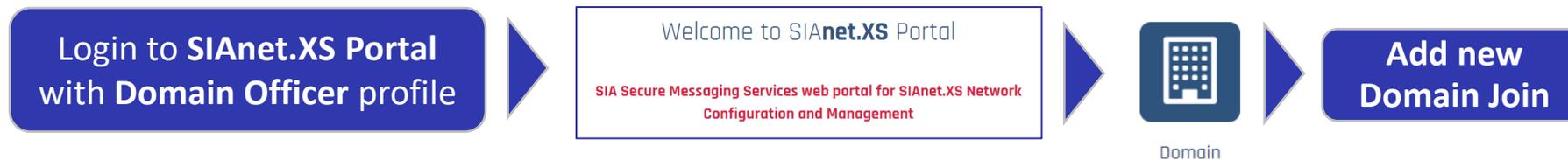
BIC Code (optional), for information only

Select Role: **DICOA**

Define your Technical Address (BU): **cn=techaddr1, ou=eac,**

Example for U2A EAC ECMS

Login to **SIAnet.XS Portal** with **Domain Officer** profile

▶

Welcome to SIA**net.XS** Portal

SIA Secure Messaging Services web portal for SIAnet.XS Network Configuration and Management

▶ 🏢 ▶
Domain

Add new Domain Join

Ticket details

Select Domain:
U2A.EAC.ECMS

Select Relevant Approver: **e.g. "Banca d'Italia"**
only for non-NCB participant, according to workflow described in the «TARGET Services onboarding Guide»

New Domain Join

Domain	U2A.EAC.ECMS ▼	Netcode:	12431 ▼	Relevant Approver	39 - Banca d Italia ▼
Role	DICOA ▼	BIC Code:	Insert BIC Code		

☐ Network Connected Party ⓘ

NCP ▼

Netcode NCP ▼

Domain Description

Send Request

BIC Code (optional), for information only

Select Role: **DICOA**

Security Management processes

➢ Digital Certificates

Certificate type	Action required	Status
A2A Certificates for Non-Repudiation at network level	New ECMS certificate requested for segration of traffic (Optional)	⚠️
A2A Certificates for Business Layer Signature	New ECMS certificate requested for segration of traffic (Optional)	⚠️
U2A Certificate	No need to request new Certificate for ECMS: just link the Certificate dn to the ECMS user.	DONE
TLS Certificates	Only needed in case of change to infrastructure (e.g. new XS instance)	DONE

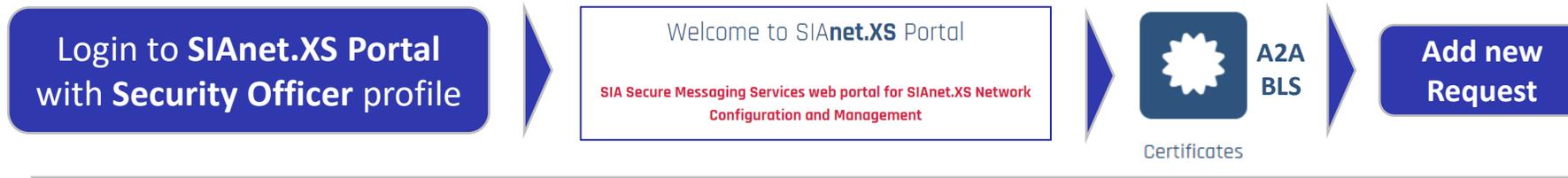## ➢ Process adheres to 4-eyes principle

- ✓ First DiCoA user initiates the request
- ✓ Second DiCoA user approves/completes the request
- ✓ Certificate is issued by SIAnet.XS CA

➢ LAU Key for message authentication

- ✓ Pre-shared key between DiCoA Messaging Interface and SIA-Colt Network Gateway
- ✓ Split-Knowledge approach (Left + Right key parts)
- ✓ DONE No need to define new LAU Key, if same DiCoA's Messaging Interface is used

Example for BLS Certificates

Login to **SIAnet.XS Portal** with **Security Officer** profile

Welcome to SIA**net.XS** Portal

SIA Secure Messaging Services web portal for SIAnet.XS Network Configuration and Management

A2A BLS

Certificates

Add new Request

Ticket details

Select **NetCode**

Select **Technical Infrastructure** hosting XS servers (if any)

Select **XS Server & HSM**

Certificate request
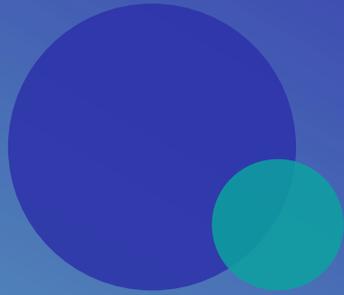
| HSM type | Internal HSM |
| Netcode | 12431 |

| Technical infrastructure | SIA (it's mine) |

| Server | pexs12431b01 |
| HSMID | PEXS12431B01/HSM |

Subject

OU=A2A,O=12431,DC=sianet,DC=sia,DC=eu

instance1

ecms

eac

Select **HSM type** (INT vs EXT)

Define your **Subject DN**, registered in CRDM through ECMS