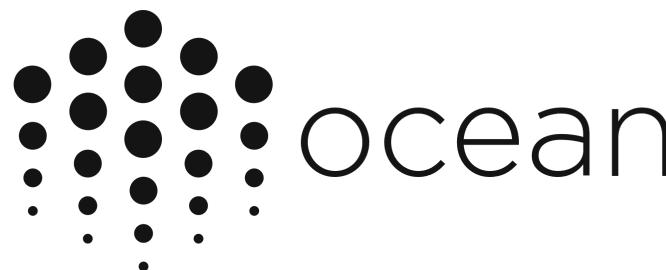


3rd Gaia-X hackathon

Guided Deployment Of Trust Components

Albert Peci, Moritz Kirstein
albert@delta-dao.com
moritz@delta-dao.com



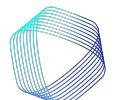
content

- ▶ **Session:** Guidance and deployment of Verifier, Wallet, Issuer components to Kubernetes for issuance and verification of credentials using OIDC4VP/SIOPv2
- ▶ Gaia-X Lab Development
- ▶ SSI Frameworks
- ▶ Onboarding Portal Demonstration
- ▶ Deployment Demonstration

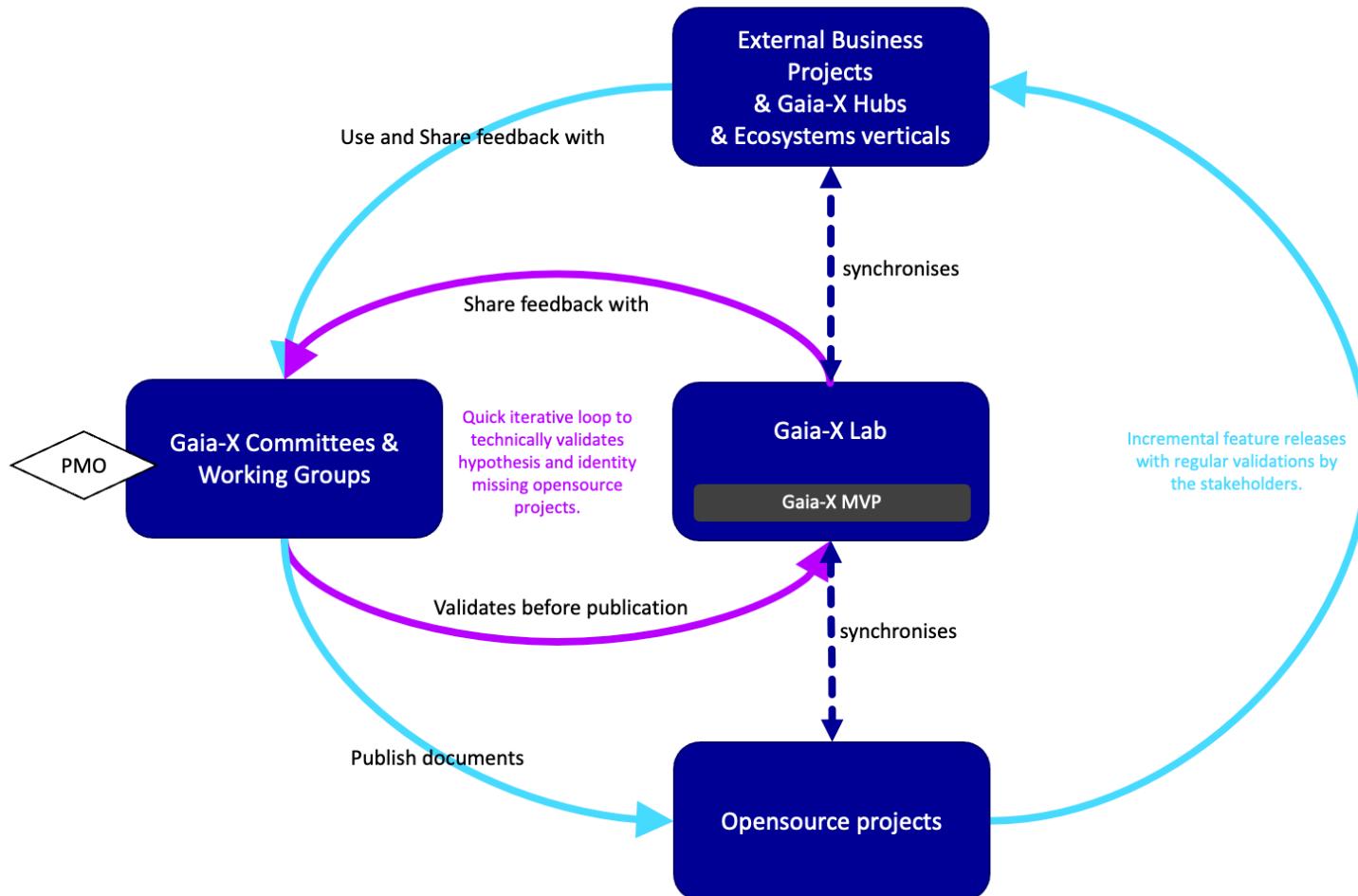
Gaia-X Lab



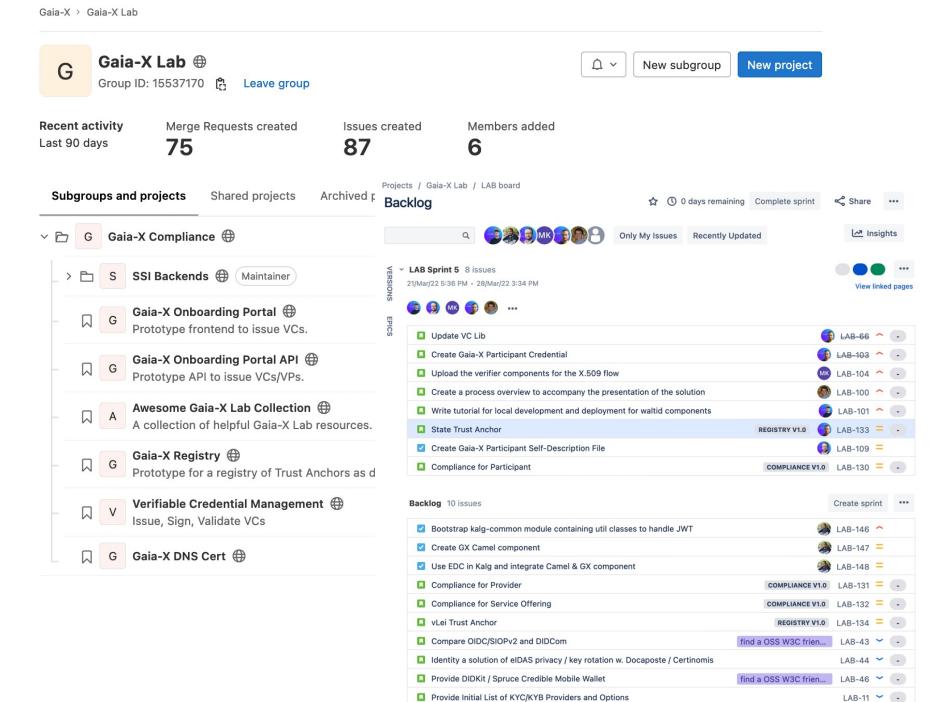
- ▶ The Gaia-X Lab is a **development team** under the Gaia-X CTO office.
- ▶ The Gaia-X Lab team writes prototypes to **technically validate functional and technical hypothesis** made by the Gaia-X Working Groups, when working on the Gaia-X specifications.
- ▶ The team **demonstrates working prototypes**.
- ▶ The Lab **accelerates the development** of external open-source software (OSS) project.
- ▶ The Lab **identifies missing functional components** in the Gaia-X Specifications.



Gaia-X Lab



<https://gitlab.com/gaia-x/lab>



The screenshot shows the [Gaia-X Lab](#) group on GitLab. Key statistics include:

- Recent activity: Last 90 days
- Merge Requests created: 75
- Issues created: 87
- Members added: 6

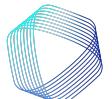
The interface displays a list of subgroups and projects, including:

- SSI Backends
- Gaia-X Onboarding Portal
- Gaia-X Onboarding Portal API
- Awesome Gaia-X Lab Collection
- Gaia-X Registry
- Verifiable Credential Management
- Gaia-X DNS Cert

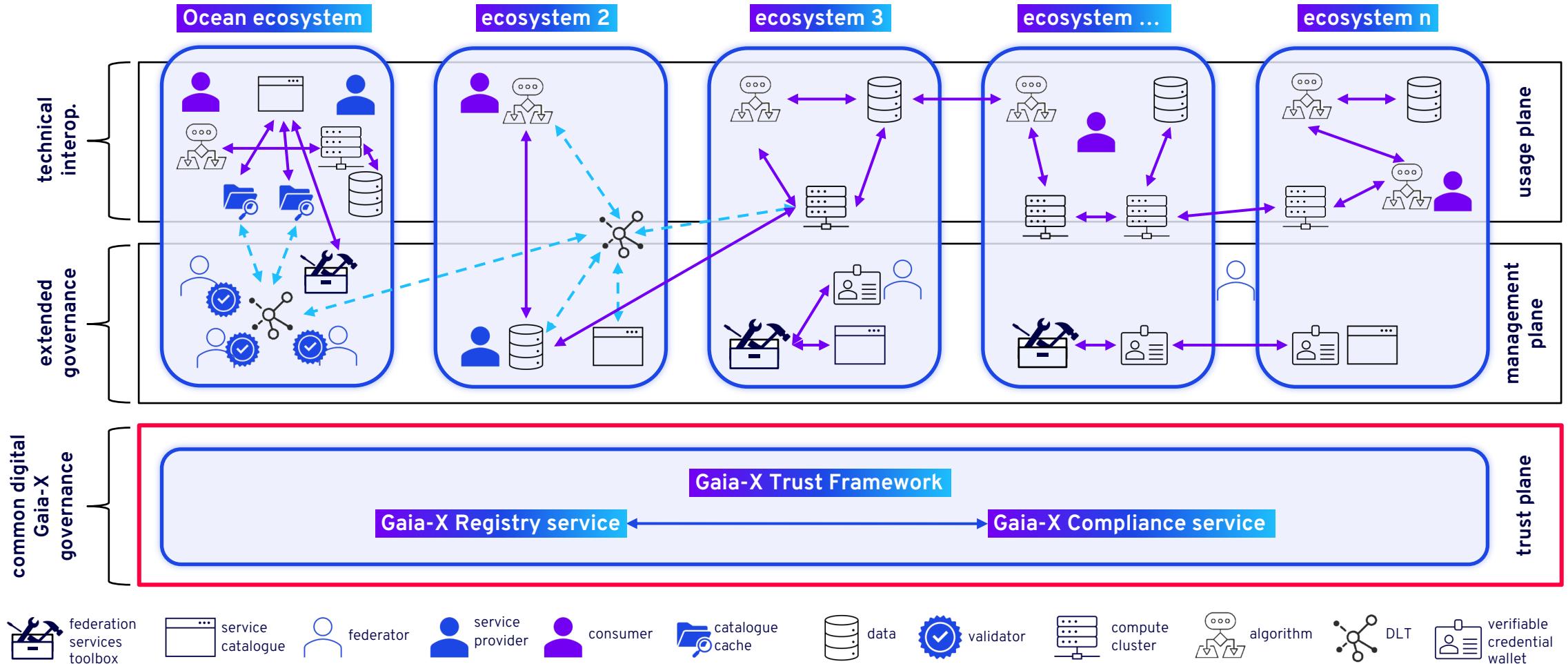
The backlog section lists several issues under LAB Sprint 5 and LAB Backlog, such as:

- Update VC Lib
- Create Gaia-X Participant Credential
- Upload the verifier components for the X.509 flow
- Create a process overview to accompany the presentation of the solution
- Write tutorial for local development and deployment for valid components
- State Trust Anchor
- Create Gaia-X Participant Self-Description File
- Compliance for Participant
- Bootstrap Kalig-common module containing util classes to handle JWT
- Create GX Camel component
- Use EDC in Kalig and Integrate Camel & GX component
- Compliance for Provider
- Compliance for Service Offering
- vLei Trust Anchor
- Compare DIDC/SIOPv2 and DIDCom
- Identify a solution of eIDAS privacy / key rotation w/ Docopaste / Certimosis
- Provide DIDKit / Spruce Credible Mobile Wallet
- Provide Initial List of KYC/KYB Providers and Options

<https://gaia-x.atlassian.net/jira/>



Gaia-X Governance



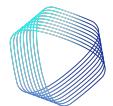
Guided Deployment of Trust Components

SSI Frameworks

Name	Website	Repository	Open License	Type / Components	TRL Estimate	DID Methods	OPEN SOURCE	Languages	Cypher support	OIDC/SIOPv2 , DIDCOMM	Layer 1	Comments
walt.id	walt.id	github.com/walt-id/walt	APL2	SSI Kit (+)	4-5	Web, Key, EBSI	✓	Kotlin (-), Vue.js (+), Typescript (+)	RSA, ED25519, X25519, SECP256K1	OIDC/SIOP	DLT, WEB	Development ongoing, DID:WEB and DID:ETHR Capable of DID:EBSI, currently not in focus due to governance issues. Very close to ESSIF, eID
EBSI	EBSI Documentation	github.com/ebsi/ebsi	EUPL 1.2	Network EVM POA	5-6	DID:EBSI (ETHR)	✓	Solidity			DLT ETH	Is now considered an option for Gaia-X, onboarding could be done via IBSI (Italy).
IDUnion	IDUnion	github.com/IDUnion/IDUnion	APL2, CC-BY-4.0	Issuer, Verifier, DID-Method	4-5	DID:IDUNION, DID:SOVRIN	✓	Python (+), Javascript (+), Rust, Shell (+)	?		DLT Hyperledger	Potential baselayer with SpheriX and other Hyperledger Wallets
sovrin network	sovrin network	github.com/sovrin-foundation/sovrin	APL2	Network Hyperledger	5-7	did:indy did:sovrin	✓	Python, Rust, Javascript	most	?	DLT Hyperledger	Potential baselayer with SpheriX and other Hyperledger Wallets
Lissi Wallet	Lissi Wallet		?	Wallet	?	?	✗	?	?	?	DLT Hyperledger	likely to be excluded due to missing open-source components Can be used with IDUnion
esatus Wallet	esatus Wallet	github.com/esatus/Wallet	APL2	Wallet	?	?	✗	C#, Java (+), Rust	?	?	DLT Hyperledger	likely to be excluded due to missing open-source components Can be used with IDUnion
LACChain	LACChain	github.com/LACChain/LACChain	APL2, ?	Network, Issuer, Verifier, Kit?	7-9	DID:LACC	✓	Javascript, Shell, Go	?	?	DLT Hyperledger Besu	
ETHR DID Veramo Core	ETHR DID Veramo Core	github.com/veramo/ethr-did	APL2	Issuer, Verifier	3-5?	DID:ETHR multi-network DID	✓	Solidity, Typescript			DLT ETH WEB	Widely used and open-source. Features issuer and uni-resolver.
DIDKit	DIDKit	github.com/DIDKit/DIDKit	APL2	Issuer, Verifier, Wallet, SSI Kit?	4-5	multinetwork	✓	Rust (-), Dart (-), Javascript (+)			WEB, KEY, ETH, ...	Features uni-resolver and more components.
Alastria	Alastria	github.com/Alastria/ssi-kit	APL2, MIT	Smart Contracts SSI Kit	3-4?	?	✓	Javascript, Typescript, Solidity, Shell	?		DLT ETH	
Helix	Helix		✗	Smart Contracts SSI Kit	9	?	✗	?	most	✓	DLT ETH	likely to be excluded due to missing open-source components
Talao	Talao	github.com/talao-project/talao	APL2, MIT	Mobile Wallet	3-4	?	✓	Javascript, Shell, Dart, Python			DLT Tezos, + ?	
DIF	DIF	github.com/dif-project/dif	APL2	SSI Kit?	?	DID:GITHUB, ?	✓	Typescript, Javascript, Java, Python				
Trinsic	Trinsic	github.com/trinsic-id/trinsic	APL2, MIT	SSI Kit	3-5?		✗	C#, Javascript, Rust, Powershell				
IMAX	IMAX	github.com/imax-project/imax	?	SSI Kit Smart Contracts Cardano	2-3	did:imax	✗	Haskell (-)	most	✓	DLT Cardano	likely to be excluded due to missing open-source components and very exotic specs
Sphereon	Sphereon	github.com/sphereon/sphereon	APL2, others	SSI Kit EVM-compatible	4-5	DID:BTCR DID:WEB	✓	Typescript, Javascript, Java, Shell		✓	DLT	
Procivis	Procivis	github.com/procivis/procivis	APL2, MIT	not SSI KIT, but rather SDK/components	4-6	?	✗	Javascript, Typescript, Java, Python				
jolocom	jolocom	github.com/jolocom/jolocom	APL2	SSI KIT Mobile Wallet	3-4?	jolocom, web	✓	Typescript	?	✗		
Mattr	Mattr	github.com/mattr-project/mattr	?	Mobile Wallet SSI Kit	3-5?	web, key, ledger-based	✗	Typescript, Javascript, C#, Rust		✓		
Microsoft ION (part of DIF!)	Microsoft ION (part of DIF!)	github.com/dif-project/ion	APL2	Issuer, Verifier	4-5?	Web	✓	Javascript, Typescript, Shell			WEB, DLT BTC	
Luxwallet (w. Procivis)	Luxwallet (w. Procivis)	github.com/procivis/luxwallet	GPL3, MIT	Wallet	3-4?	DLT-based	✗	C++, C+, Javascript, Python				

Comparison:

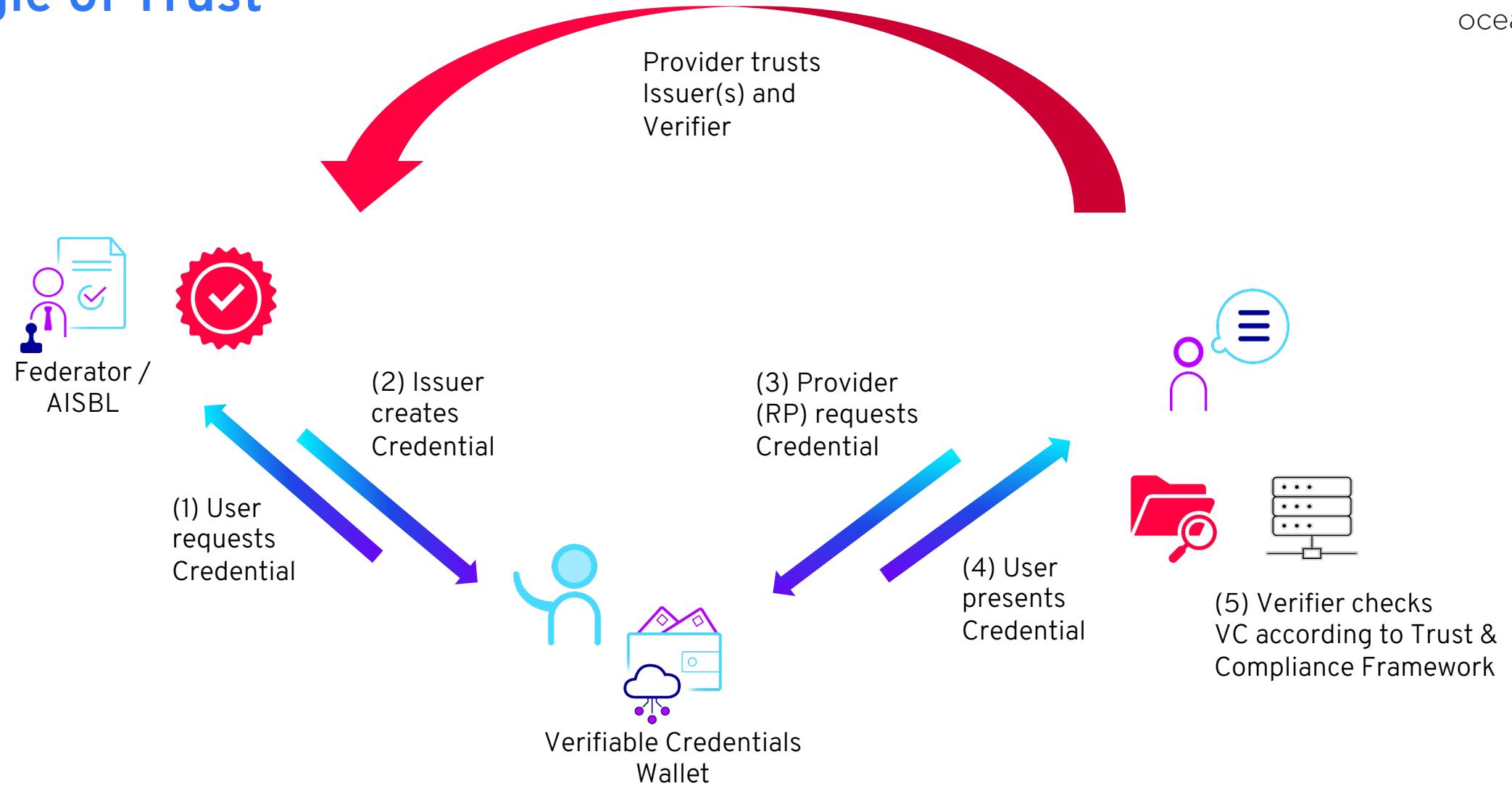
https://miro.com/app/board/o9J_ItahjnY=/



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Triangle of Trust



Walt.id SSI KIT

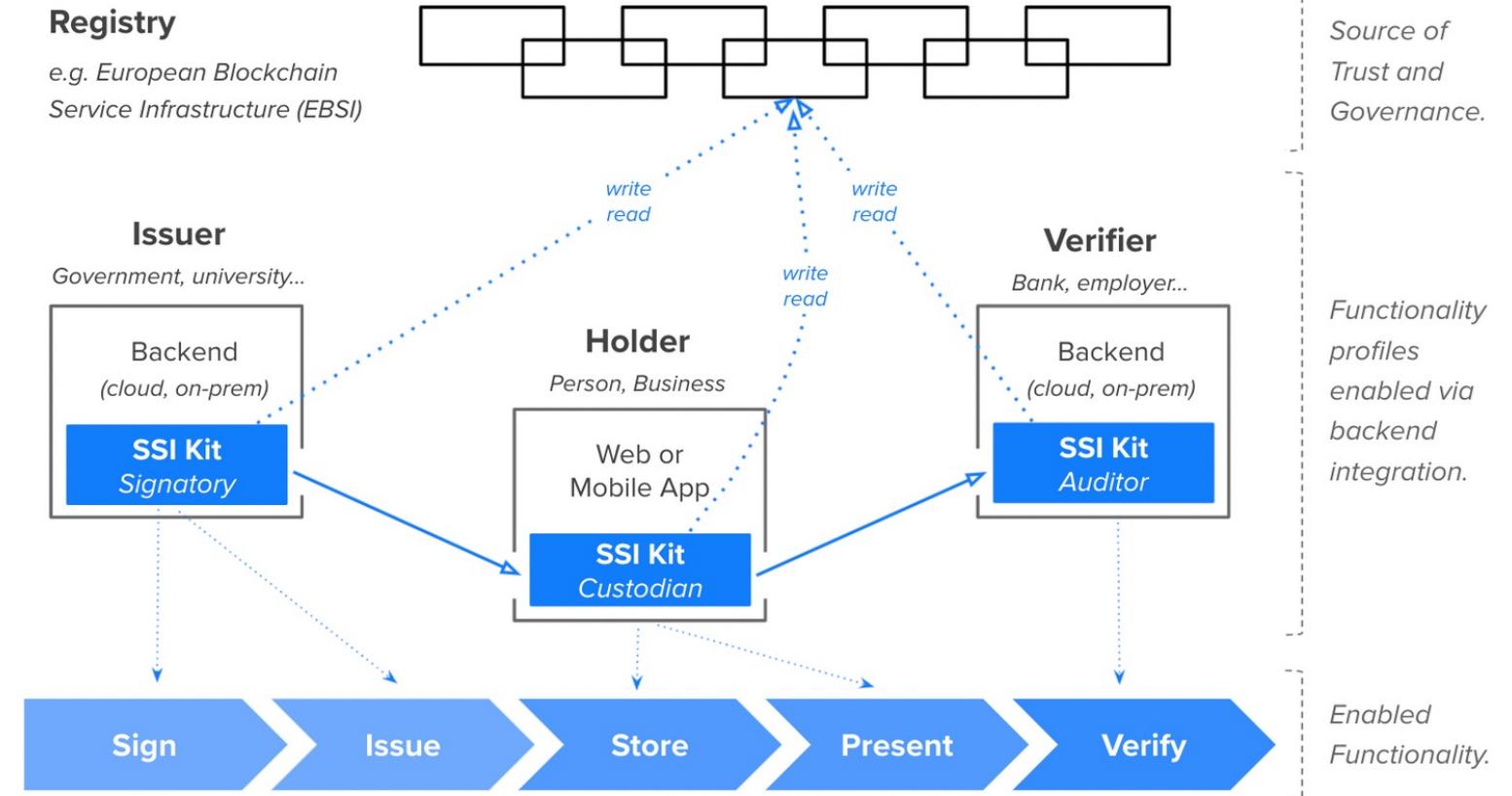
```

59     ---          114
60     kind: Deployment        kind: Deployment
61     apiVersion: apps/v1      apiVersion: apps/v1
62     metadata:                metadata:
63       name: gaiax-portal-backend
64     spec:                    spec:
65       replicas: 1            replicas: 1
66       selector:              selector:
67         matchLabels:         matchLabels:
68           app: gaiax-portal-backend
69       template:              template:
70         metadata:             metadata:
71           labels:              labels:
72             app: gaiax-portal-backend
73           annotations:         annotations:
74             deployment/id: "_DEFAULT_DEPLOYMENT_"
75         containers:           containers:
76           - name: gaiax-portal-backend
77             image: waltid/gaiax-portal-backend:_VERSION_TAG_
78             volumeMounts:
79               - mountPath: "/waltid/wallet/config"
80                 name: wallet-config
81               - mountPath: "/waltid/wallet/data"
82                 name: wallet-data
83             env:
84               - name: WALTID_DATA_ROOT
85                 value: "/waltid/wallet"
86               - name: WALTID_WALLET_BACKEND_BIND_ADDRESS
87                 value: "0.0.0.0"
88               - name: WALTID_WALLET_AUTH_SECRET
89                 value: 6b218176-d8f3-4a58-83db-fd328defc30f
90             ports:
91               - containerPort: 8080
92                 name: http-api
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Walt.id SSI KIT

The core services are in the scope of:

- ▷ **Key Management** generation, import/export
- ▷ **Decentralized Identifier (DID)** operations (register, update, deactivate)
- ▷ **Verifiable Credential (VC)** operations (issue, present, verify)



Documentation: <https://docs.walt.id/ssikit/ssikit-concept.html#what-is-the-ssi-kit>

Onboarding Portal



Gaia-X Lab 0.8.3

Onboarding Portal

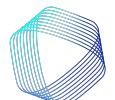
This web app demonstrates how SSI could be used to issue Gaia-X participation credentials in a way that is cryptographically secure, privacy-respecting, and machine-verifiable.

REGISTER CREDENTIAL

VERIFY CREDENTIAL



Demonstrator: <https://onboarding-portal.lab.gaia-x.eu/>
Repositories: <https://gaia-x.atlassian.net/browse/LAB>



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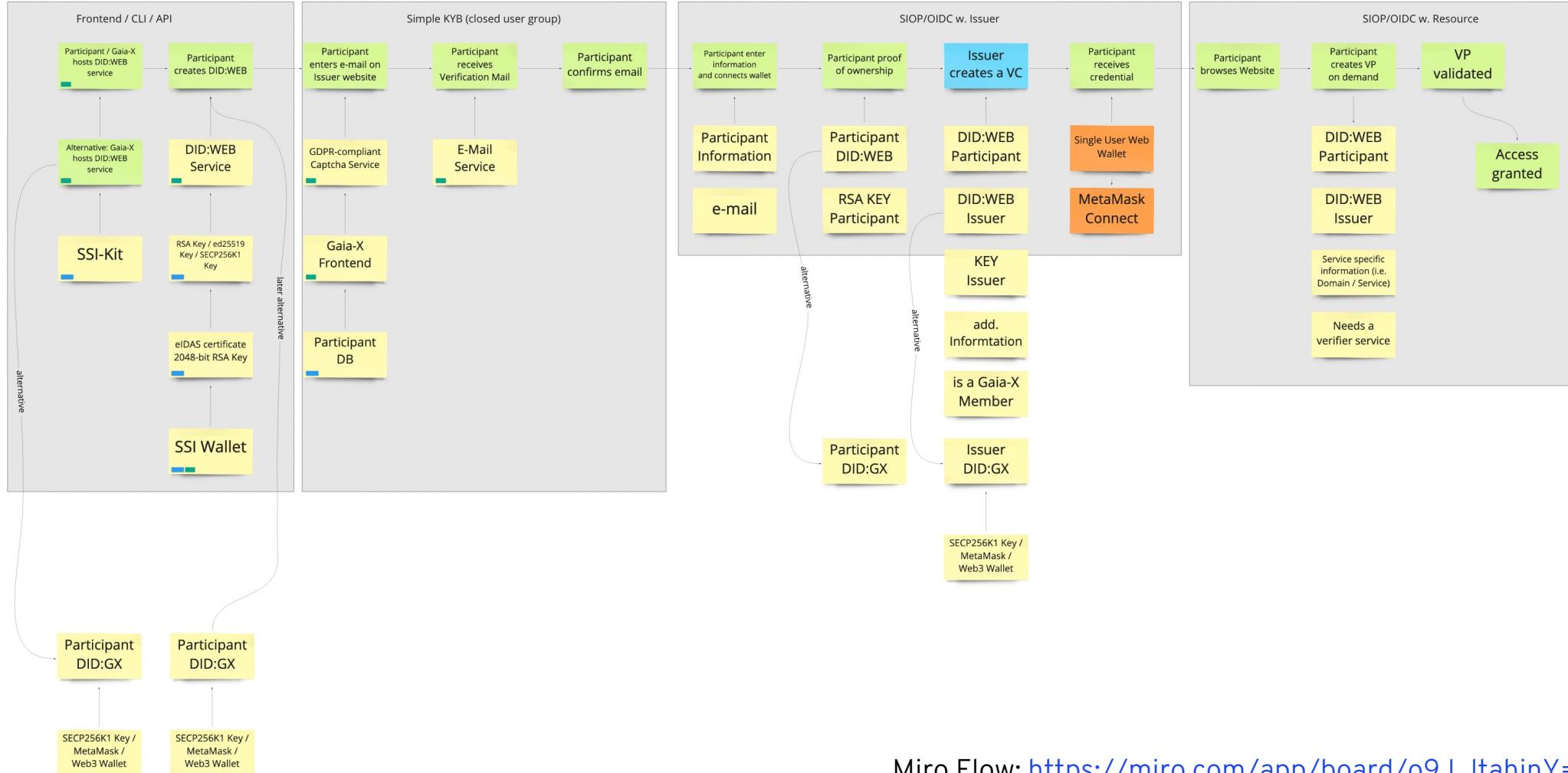
| data economy solutions – GDPR compliant | contact@delta-dao.com

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Guided Deployment of Trust Components

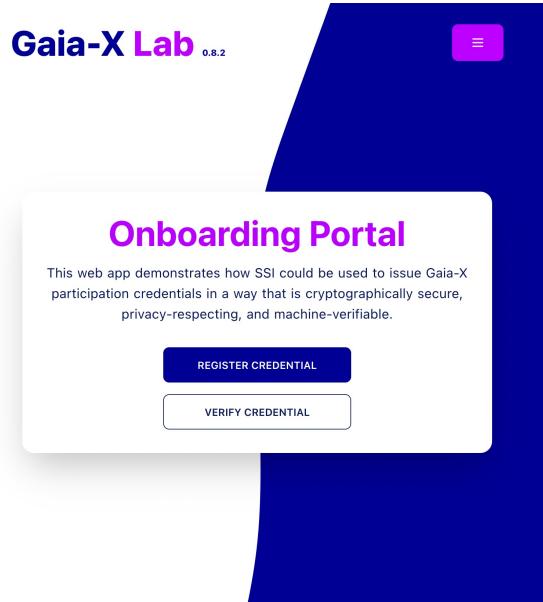


Onboarding Portal Flow

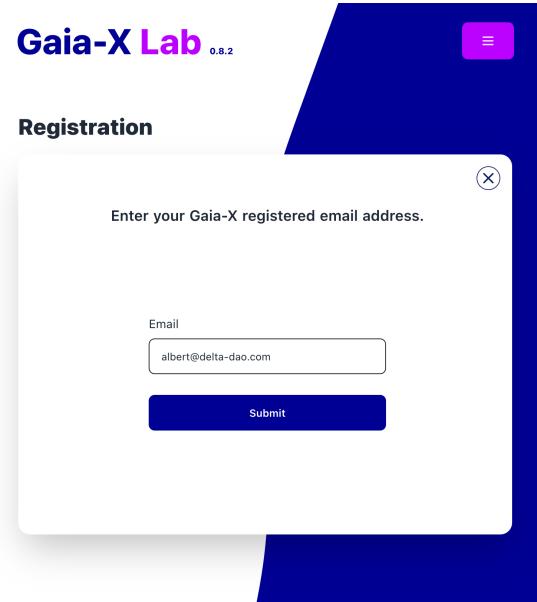


Miro Flow: https://miro.com/app/board/o9J_ItahjnY=/

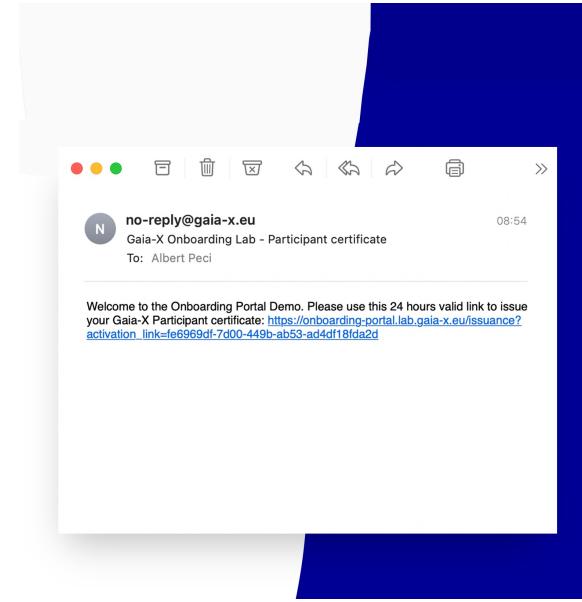
Onboarding Portal Demo 1/3



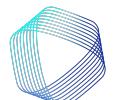
1. Visit the [Gaia-X Lab](#) Onboarding Portal and select Register Credential. This will start the onboarding flow.



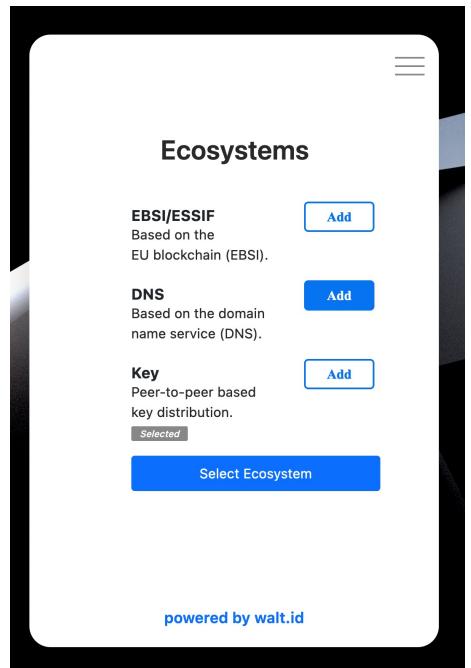
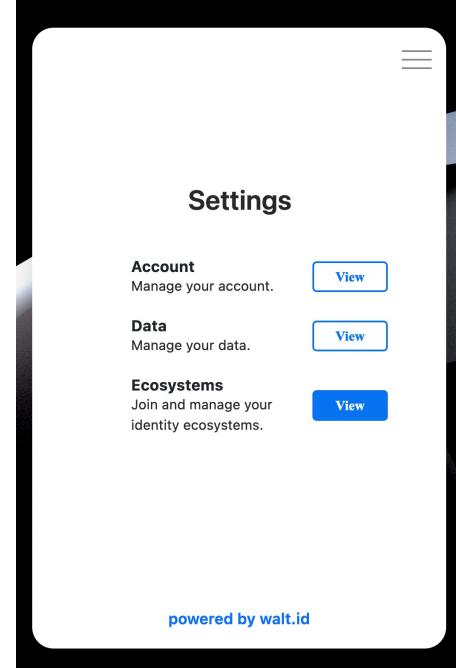
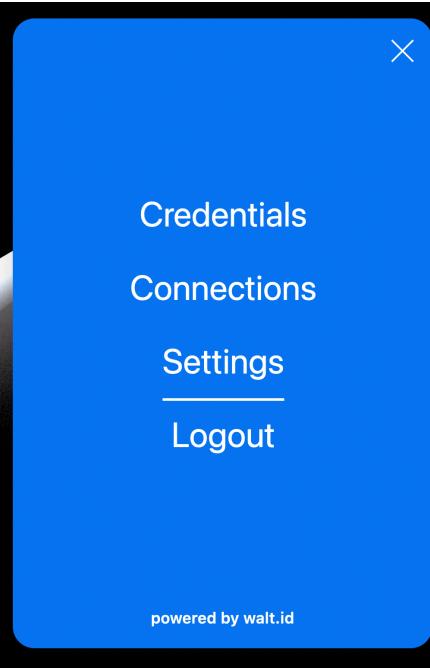
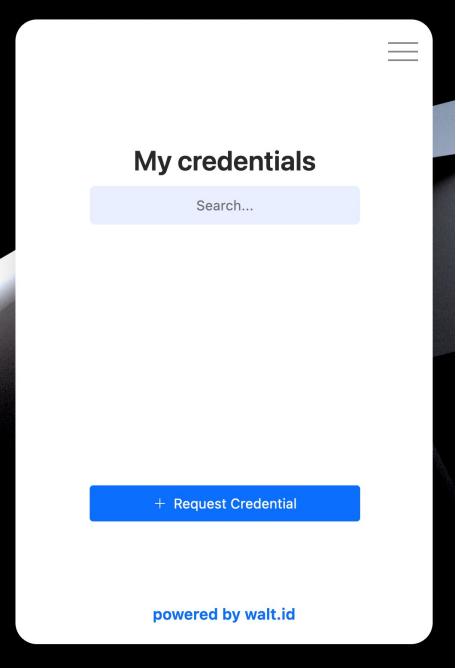
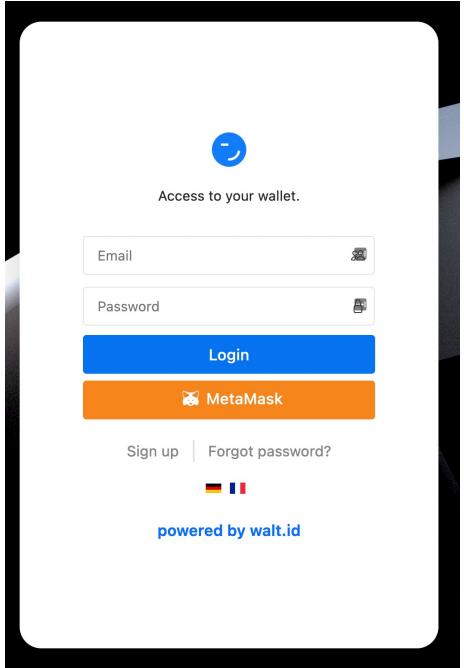
2. Type your email that you also used to register on GitLab. If your email is not registered, you will not get an email and cannot issue a Participant Credential. Click on Submit.



3. Check your emails. You will receive a registration link that is valid for 24 hours. Click on the link to initiate the issuance of your credential.



Onboarding Portal Demo 2/3



1. Visit the [Gaia-X Lab Wallet](#) and type a new email and password combination that you can remember.

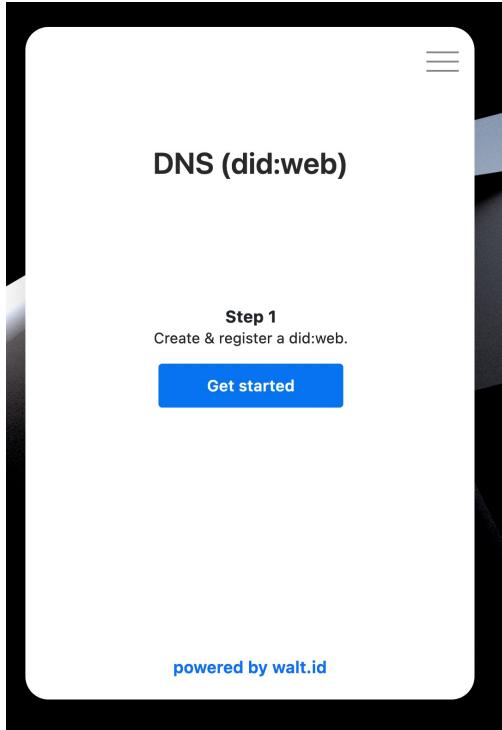
2. If you used a new account, an empty credential page will be shown. Click on the hamburger menu in the top right corner.

3. The menu opens. Select Settings to setup your account.

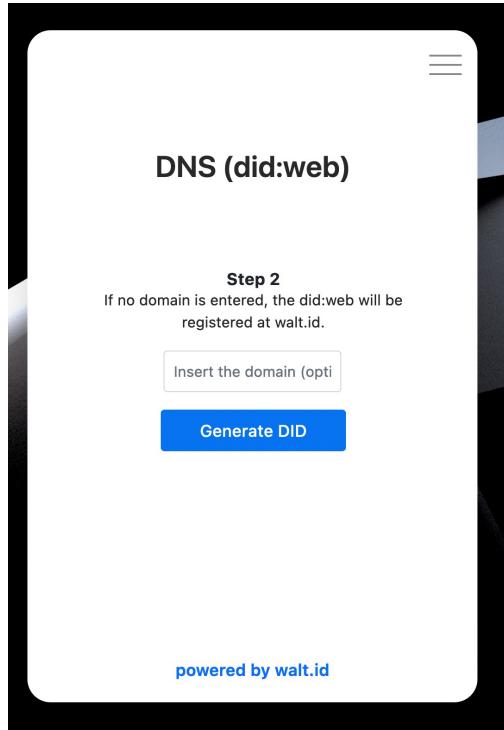
4. There are different aspects that you can manage in your wallet. We are interested in the ecosystem setting for now.

5. We want to use did:web, so we click on Add for the DNS option.

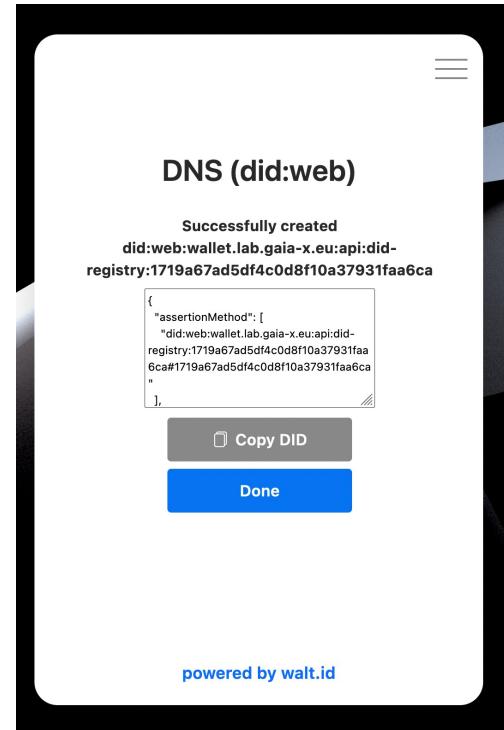
Onboarding Portal Demo 3/3



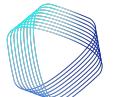
1. The Setup Wizard begins. Click on Get Started and follow the steps.



2. You can now enter a domain that you control. If you do not enter a domain a default domain of the demonstrator will be used. Click on Generated DID.



3. Your did:web was successfully created. You can now copy the DID to inspect it in detail, use it somewhere else or just close the window.



Repositories and documentation

Repositories

- Demonstration Portal: <https://gitlab.com/gaia-x/lab/compliance/gx-issuer-portal>
- Demonstration Verifiable Credential Issuer: <https://gitlab.com/gaia-x/lab/compliance/ssi-backends>
- Demonstration Verifiable Credential Verifier: <https://gitlab.com/gaia-x/lab/compliance/ssi-backends>
- Demonstration Cloud Wallet: <https://gitlab.com/gaia-x/lab/compliance/ssi-backends>
- SSI backend: <https://github.com/walt-id/waltid-wallet-backend>
- Demonstration Verifiable Credential Library: <https://github.com/walt-id/waltid-ssikit-vclib/tree/master/src/main/kotlin/id/walt/vclib/credentials/gaiax>

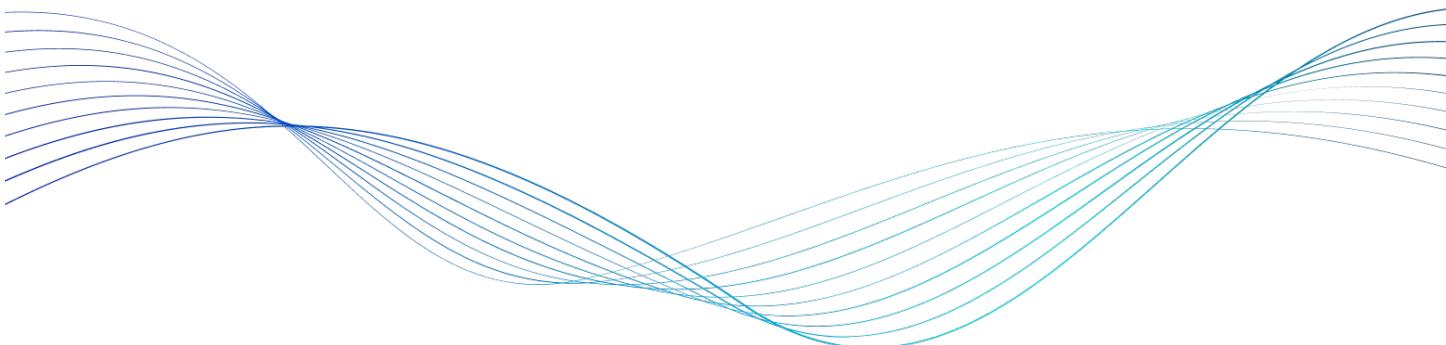
Documentation

- Gaia-X Trust Framework: <https://gaia-x.gitlab.io/policy-rules-committee/trust-framework/>
- Walt.id SSI KIT Documentation: <https://docs.walt.id/ssikit/>



deltaDAO

data economy solutions – GDPR compliant



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