

Track 2 – Service & Tool Support Onboarding Presentation

Martin Pilka, Kai Meinke





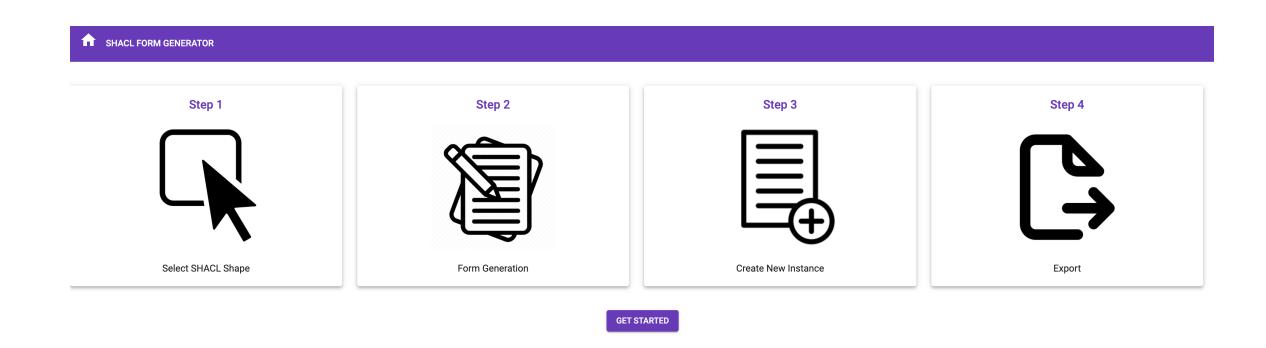
SD Toolkit Demonstration

Johannes Theissen-Lipp

01 – Self-Description Toolkit Demonstration



 Demonstrate the Self-Description Creation and Validation UI (currently under development)







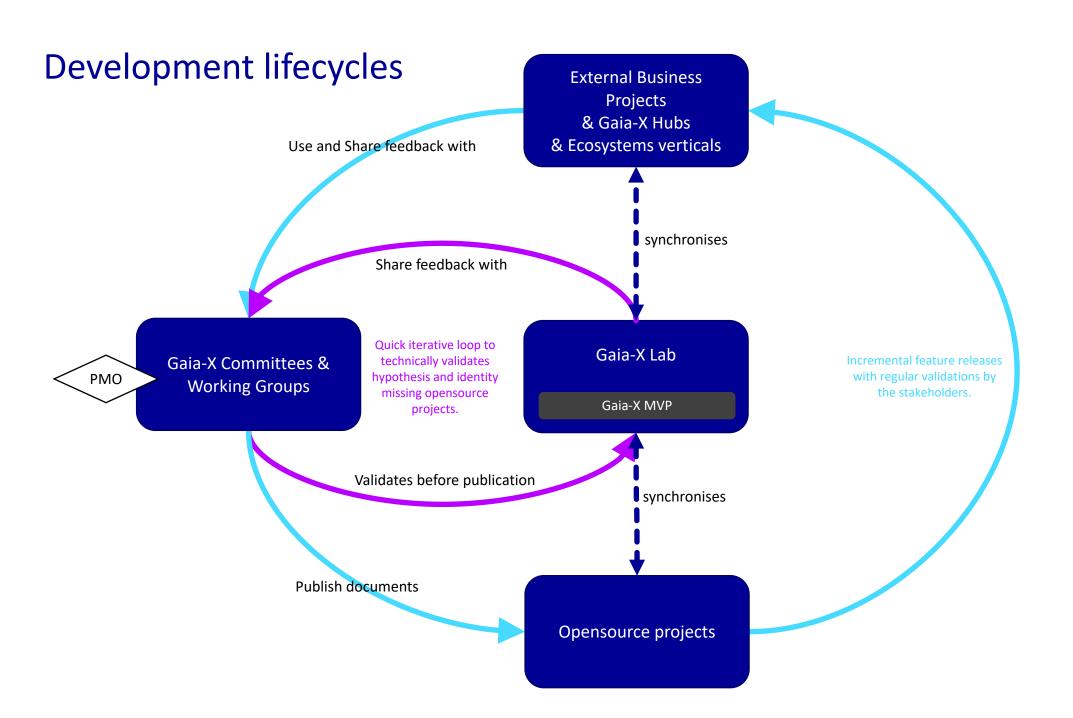
Gaia-X Lab Demonstration
Trust Framework

Kai Meinke

02 - Gaia-X Lab Demonstration Trust Framework



- Introduction to the work of the Gaia-X Lab and relation to the Gaia-X Trust &
 Compliance Framework and working groups.
- Demonstration of Trust & Compliance workflow from anchoring and issuance of Gaia-X
 participant credentials to verification of verifiable presentations
- Using SSI & OIDC4VP/SIOPv2 and DID:WEB to issue, hold an verify Gaia-X participant
 Credentials
- Demonstration of the Gaia-X Registry

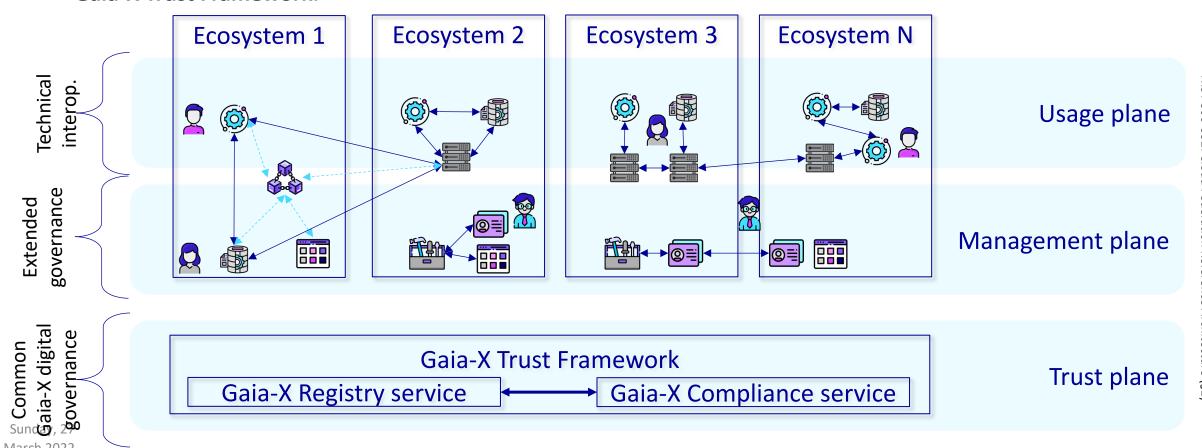


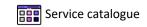
gaia-x

One Gaia-X Ecosystem, federating interoperable autonomous ecosystems.



Gaia-X Ecosystem: the virtual set of Participants, Service Offerings, Resources fulfilling the requirements of the
 Gaia-X Trust Framework.

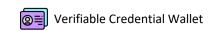












Gaia-X Lab Onboarding Demonstrator



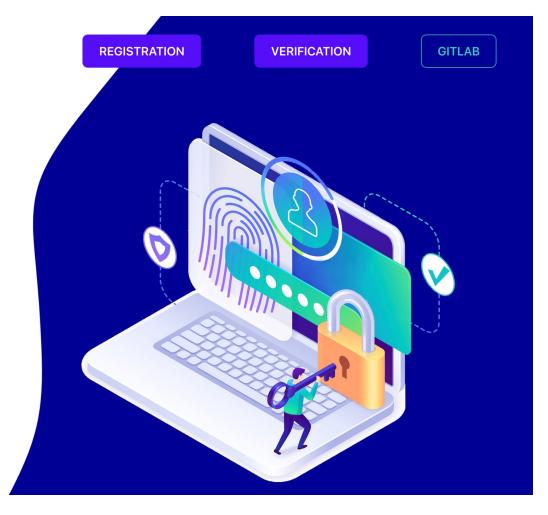
Gaia-X Lab

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

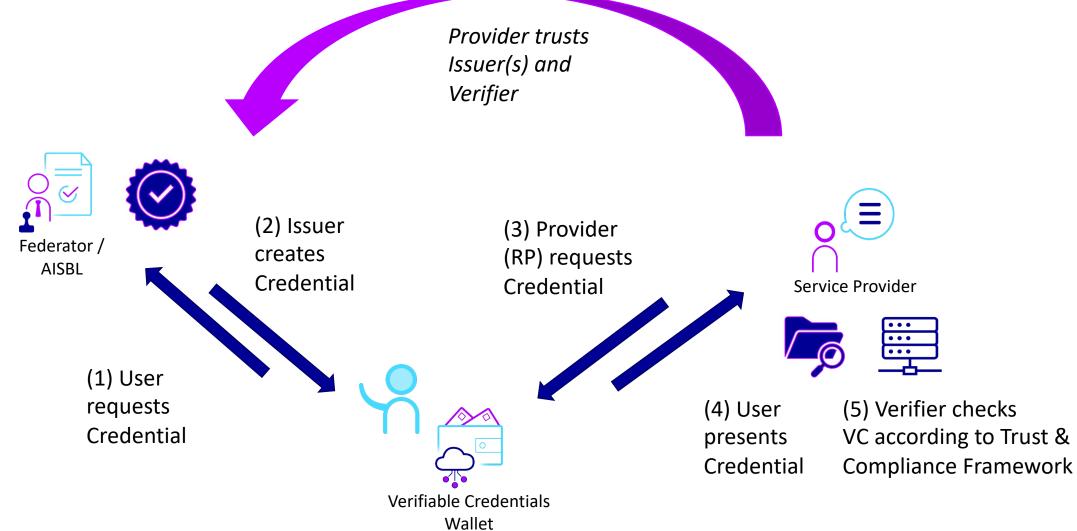
VERIFY CREDENTIAL



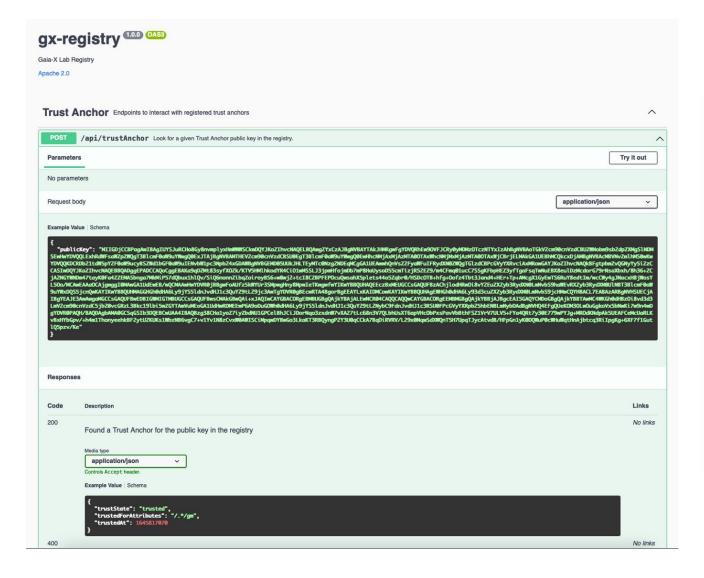
Demonstrator: https://onboarding-portal.lab.gaia-x.eu/ Repositories: https://gaia-x.atlassian.net/browse/LAB

Summary – Triangle of Trust





Gaia-X Lab Onboarding Demonstrator





3. List of defined trust anchors

Name	Defined as
State	The Trust Service Providers (TSP) must be a state validated identity issuer. - For participant, if the legalAddress.country is in EEA, the TSP must be eiDAS compliant. - Until end of 2022 Q1, to ease the onboarding and adoption this framework DV SSL can also be used. - Gaia-X association is also a valid TSP for Gaia-X association members.
eiDAS	Issuers of Qualified Certificate for Electronic Signature as defined in eIDAS Regulation (EU) No 910/2014 (homepage: https://esignature.ec.europa.eu/efda/tl-browser/#/screen/home) (machine: https://ec.europa.eu/tools/lotl/eu-lotl.xml)
DV SSL	Domain Validated (DV) Secure Sockets Layer (SSL) certificate issuers are considered to be temporarily valid Trust Service Providers. (homepage: https://wiki.mozilla.org/CA/Included_Certificates) (machine: https://ccadb-public.secure.force.com/mozilla/IncludedCACertificateReportPEMCSV)
Gaia-X	To be defined after 2022Q1.
EDPB CoC	List of Code of Conduct approved by the EDBP (homepage: https://edpb.europa.eu/our-work-tools/documents/our-documents_fr?f%5B0%5D=all_publication_type%3A61&f%5B1%5D=all_topics%3A125)
gleif	List of registered LEI issuers. (homepage: https://www.gleif.org/en/about-lei/get-an-lei-find-lei-issuing-organizations) (machine: https://api.gleif.org/api/v1/registration-authorities)



Gaia-X Lab Deployment of Issuer, Wallet and Verifier

Albert Peci, Moritz Kirstein

03 - Deployment of Issuer, Wallet and Verifier



Session: Guidance & Deployment of necessary components (verifier, wallet, issuer) using Kubernetes for issuance and verification of credentials using OIDC4VP/SIOPv2

Goals:

- Deploy the demonstration cloud wallet
- Deploy the demonstration issuer component
- Deploy the demonstration verifier components
- Using your Kubernetes infrastructure for issuance and verification of credentials





Utilize Hyperledger Aries for SD-Trust Issuance

David Suba, Martin Pilka, Matej Feder

04 - Utilize Hyperledger Aries for SD-Trust Issuance



Session: Create an easy to use CLI tool that interacts with components of open-source Verifiable Credential framework - Hyperledger Aries Cloud Agent and allows issuing, storing and verifying credentials for Self-Descriptions.

Goals:

- Create tool that hides the complexity of its usage behind simple CLI that provides necessary actions for issuance and validation of credentials for SD.
- Allows the 'dynamic' import of SD templates in JSON-LD format.





Credential Bridge

Theo Dimitrakos, Bithin Alangot, Ali Hariri, Amjad Ibrahim

05 - Credential Bridge



Session: Build a Credential Bridge middleware that can do semantically correct transformation of credentials and federation protocols into a decentralized identity fabric.

Goals:

 Creating a credential bridge layer that enables a cost-efficient bridging between federated identity and decentralized identity in Gaia-X ecosystem thus facilitating to build a federated trust model.



Creating VC Templates from JSON Schema

Phil Potisk, Severin Stampler

06 - Creating VC Template from JSON Templates



Session: How to create templates for Verifiable Credentials, based on the SD Shapes /
 SD Tools

Goals:

- Allows the 'dynamic' import of SD templates in JSON-LD format.
- Give an outlook how to build a bridge from Self-Description Generators to the issuance of Verifiable Credentials, based on VC Templates in accordance with the Gaia-X Trust Framework.





Any questions or remarks?

Sunday, 27 March 2022





Enjoy the Gaia-X Hackathon #3

Sunday, 27 March 2022