

Gaia-X Digital Clearing House (GXDCH)

STEP BY STEP: HOW TO BECOME A Gaia-X CONFORMANT SERVICE

Assumed prerequisites:

- **a**. User is already familiar with the concepts of Gaia-X, like the <u>Verifiable</u> <u>Credential model</u> (digital signatures/using certificates/digital wallets).
- **b**. User has an EV SSL or an eIDAS certificate and the public part of the certificate is published via DID:WEB method.
- **c**. The user is familiar with the workflow described in the <u>Architecture</u> <u>document</u>.

User wants to get Gaia-X Compliant Verifiable Credentials.

User decides what kind of Gaia-X Compliant Verifiable Credentials can be obtained from Gaia-X. (e.g.: LegalParticipant). The list of available VCs can be retrieved from the Gaia-X Registry, using the <u>/v1/api/trusted-shape-registry/v1/shapes/implemented</u> endpoint.

User decides the method to obtain the compliance:

6.

- a. Through the Gaia-X Wizard: https://wizard.lab.gaia-x.eu/
- b. Through direct API calls: <u>https://compliance.lab.gaia-x.eu/#menu</u>

Please note that third-party applications might also be integrated with the Gaia-X compliance, but they are out of scope for this guide.

User creates first their credential payload with the mandatory attributes as well as optional attributes needed in their ecosystem. The mandatory attributes vary depending on the type of VC, and the full list of mandatory attributes can be retrieved from the Gaia-X Registry, using the <u>/v1/api/trusted-shape-registry/v1/shapes</u> endpoint.

User signs their credentials with their private key. The <u>https://wizard.lab.gaia-x.eu/</u> can also be used for this step, but the user is free to choose their preferred signing tool. It is also possible to sign using code as Gaia-X Lab Team provide libraries to help with the signature process. <u>https://gitlab.com/gaia-x/lab/json-web-signature-2020</u>

User creates a Verifiable Presentation with all the Verifiable Credentials that are required to get the compliance for their Participant or their service. The <u>https://wizard.lab.gaia-x.eu/</u> can also be used for this step, but the user is free to choose the tool of their choice.

User calls the Gaia-X Compliance Service for their presentation. The Gaia-X Compliance Service is connected in the background with the available clearing houses, and the call will go to one of the GXDCH instances. But the experience is seamless for the user.

The <u>https://wizard.lab.gaia-x.eu/</u> can also be used for this step, but the user is free to choose their preferred tool. A direct API call is also possible, as mentioned at step 4.b.

If a user wishes to use a specific clearing house instance, this option is available from:

a. <u>The https://wizard.lab.gaia-x.eu/</u> by selecting a specific Clearing House from the drop-down menu.

b. Calling directly the API of the clearing house. More information on how to obtain

