

VC Lib

The VC Lib



Typesafe Kotlin/Java-implementation of W3C Verifiable Credentials in order to facilitate interoperability among various applications.

- VC data-models and parser.
 - .toCredential() → mapps unknown JSON string to known credential types
- VC JSON-Schemas generation & validation.
- Connected to the issuing/verifying processes of the SSI Kit.
- Repo: https://github.com/walt-id/waltid-ssikit-vclib

Adding Credential Templates.



The Past

The Present | The Future

Coding

⇒ Tedious process as multiple Kotlin files need to be touched.

Low-code approach

⇒ Only one Kotlin file to be added.

No-code approach

⇒ Template Lib will be automatically generated based on JSON input.

Issuing Options.



Low-Level API

Issuing via the Core API.

Public endpoint: core.ssikit.walt.id

- Construct credential yourself
- SSI Kit signs/verifies "blob"
- No template support
- Error prone process

<u>High-Level API</u>

Issuing via the Signatory API.

Public endpoint: signatory.ssikit.walt.id

- Utilize features from VC Lib
- Credentials based on templates
- Various "Data Providers" for populating VC
- Smooth, feature-rich process

⇒ highly recommended



Issuing Credentials.

Adding Credential Templates. The Present.



Create Class File | Run Tests

| Open a Pull Req.

- Copy/Paste an existing credential.
- Alter attributes.
- Register Template: VcTypeRegistry.register()

- Validates impl.
- Generates JSON-Schema!
- Generates example credential²

- Open a Pull Request and ask for support if needed.
- The walt.id team will support you and merge the PR.



Adding a Credential Template (the present)

Adding Credential Templates. The Future.



Generate Class File | Download VC pack | Use VC Lib2

- Paste example JSON in O A lib with compiled VC generator.
- classes will be available to download.

VC pack can easily be loaded and used by the VC Lib2.

⇒ no coding-skills required



Adding a Credential Template

(a glimpse towards future)