LEAR Credential Issuer

Description

The `LEAR Credential Issuer` is the main application that manages the credential flow. We assume here that it is specialised in creating LEAR Credentials, though it could be used for other types of credentials. In this context, we will use the term `LEAR Credential Issuer` and `Credential Issuer` as interchangeable.

For the explanation, we are going to assume the issuance flow described above and a given set of actors. However, the flows can be adapted to other scenarios.

The main actors are:

Appointed employee
: This is the employee that will receive the LEAR Credential and that has been nominated or appointed by the organisation to perform some role in DOME on behalf of the organisation.

HR employee
: The employee from the Human Resources department of the organisation that introduces the Appointed employee data in the Credential Issuer application.

Legal Representative
: The natural person that is the official legal representative of the organisation.

Obtaining an eIDAS certificate

Before starting the process, the legal representative should have an eIDAS certificate. This is the same certificate that can be used to sign documents in PDF form. The legal representative will be signing the LEAR Credential in a similar way to signing a PDF in her machine, except she will use a special program provided by DOME instead of Acrobat Reader. The technical requirements for signing LEAR Credentials are essentially the same as for signing a PDF. More details about this later.

Introduction of data about the Appointed Employee

The HR employee uses an HTML form provided by the LEAR Credential Issuer application to input the required data about the employee. The application enables also to provide such data with a YAML file, to facilitate automation of the process.

The required data includes name, surname, contact data (phone and company email), and the roles that the employee is authorised to perform. For simplicity we assume here the role `onboarder`, but the HR employee can specify a list of roles relevant for DOME.

Once the data is completed, the HR employee confirms the operation and the LEAR Credential Issuer notifies the Appointed Employee using the company email provided.

The Appointed employee receives the Credential Offer

The employee receives an email from the LEAR Credential Issuer with the proper instructions, including a unique `transaction code` that the employee requires to start the process for receiving the LEAR Credential.

The Appointed employee enters into the HTML portal provided by the LEAR Credential Issuer (the URL of the portal is well-known, but it is also described in the email).

The portal does not require the Appointed employee to be pre-registered in the application, because the unique `transaction code` received via email is used to access its Credential Offer.

Once the employee enters the `transaction code` in the portal, a QR code is displayed with the content of Credential Offer (compliant with the OpenID4VCI protocol).

The employee scans the QR code with her Wallet. She can use the Wallet provided by DOME, or any other which is compatible. This includes the possibility that the company provides employees with its own Wallet, which could even be a branded version of the DOME Wallet.

The Wallet of the Appointed employee

The Appointed employee should have a Wallet compatible with the OpenID4VCI specifications, in particular capable of the subset of functionalities specified in the DOME profile.

The employee uses the Wallet to scan the QR code presented by the LEAR Credential Issuer containing the Credential Offer. After the employee reviews the request in her Wallet and providing explicit confirmation, the Wallet generates a private/public key pair according to the `did:key` specification, and sends this generated `did:key` to the LEAR Credential Issuer following the OpenID4VCI specifications.

The LEAR Credential Issuer replies to the Wallet with an OpenID4VCI Access Token to be used later when the credential has been signed by the legal representative.

The LEAR Credential Issuer notifies via email to the legal representative (her email is pre-registered in the application, as the contact person in the organisation capable of signing the LEAR Credentials).

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