

# Atala PRISM Referent cases design

## 1. Document version

Version	Date	Author	Rationale
0.1	30 March 2023	Tien Nguyen Anh	First draft
0.2	1 April 2024	Tien Nguyen Anh	Review by Architect

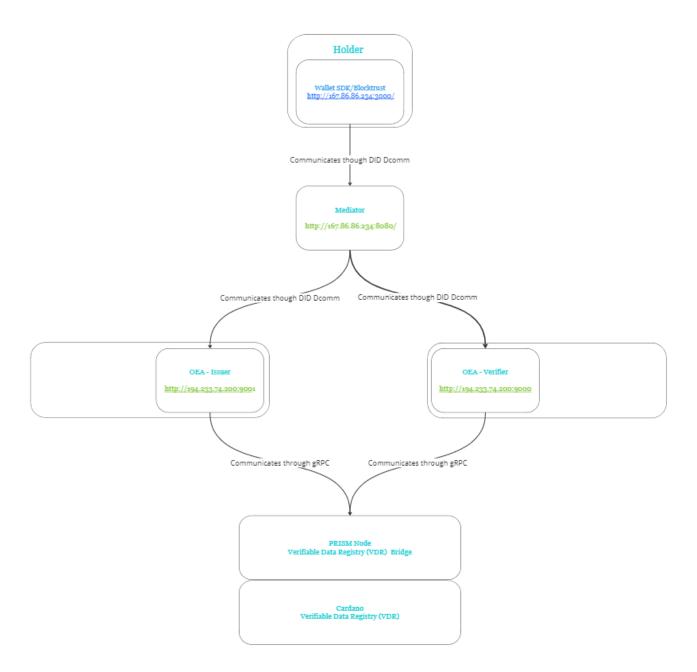
### 2. Overview Architecture:

#### 1.1 Purpose of design:

- This blueprint is for internal use by students taking the Decentralized Identity course using Atala Prism.
- The design only mentions the basic functions required of a decentralized identification system.
- The purpose of the design is that when students practice through each step of the Referent case, they will gain basic experience in building a decentralized identification system.
- Lab parameters only work within the internal network. We do not provide services outside the classroom



### 1.2 Overview Architecture:





# 3. Core Services design:

# 3.1 Deploy Atala PRISM Wallet SDK

Mediation server: 167.86.86.234

• OS: Ubuntu

Link: <a href="http://167.86.86.234:3000">http://167.86.86.234:3000</a>

Deployed as: Dockers

• Version: <u>v5.0.0</u>

## 3.2 Deploy Mediation

Mediation server: 167.86.86.234

• OS: Ubuntu

• Link: http://167.86.86.234:8080

Deployed as: Dockers

• Version: <u>v0.14.1</u>

# 3.3 Deploy OEA - Issuer Agent

• API\_KEY\_ENABLED=false

• PRISM\_AGENT\_VERSION=1.31.0

PRISM\_NODE\_VERSION=2.2.1

PORT=9001

• Link: http://194.233.74.200:9001

• Deployed as: Dockers

Mediation server: 167.86.86.234

OS: Ubuntu

# 3.4 Deploy OEA - Verifier Agent

API\_KEY\_ENABLED=false



PRISM\_AGENT\_VERSION=1.31.0

PRISM\_NODE\_VERSION=2.2.1

PORT=9000

• Link: http://194.233.74.200:9000

Deployed as: Dockers

Mediation server: 167.86.86.234

• OS: Ubuntu

# 4. Core functions design

#### 4.1 Establish Mediation

Mediation is the process that ensures messages get routed and stored correctly between Issuers, Verifiers and Holders, even if they are offline. The mediator offers a service that is always running and can securely store messages and deliver them to the associated DIDs using DIDComm. This enables use-cases where connectivity to a (mobile) wallet cannot be guaranteed

#### 4.2 Establish Holder connection

To connect the Holder to both Cloud Agent instances, you must run this in both Issuer and Verifier endpoints.

#### 4.2.1 Establish a connection Holder - Issuer Agent side

A connection must be established between the Holder and PRISM Cloud Agents to correctly deliver the Issuance + Verification Messages to the Holder.

#### 4.2.2 Establish connection on the Holder - Verifier Cloud Agent

#### 4.2.3 Establish a connection - Holder side

When the holder has the invitation, it's time for the Holder to accept it.



4.3 Issue a Credential from the Issuer to the holder

In this scenario, lab will covers:

- Create a Credential Offer Issuer Agent
- Create CredentialRequest from CredentialOffer Holder
- Store the Issued Credential [Holder]

4.4 Request a verification from the Verifier Cloud Agent to the Holder:

In this topic, we will show demo of these topics:

- Verifier Agent
- Holder: Receives the Presentation proof request
- Verifier: Will then check on the API if the Presentation Request has been completed or not

### 5. Referent documents:

**Blocktrust Identiy Wallet:** 

**Proofspace Identity Wallet:** 

Atala Prisme Quick Start Guide