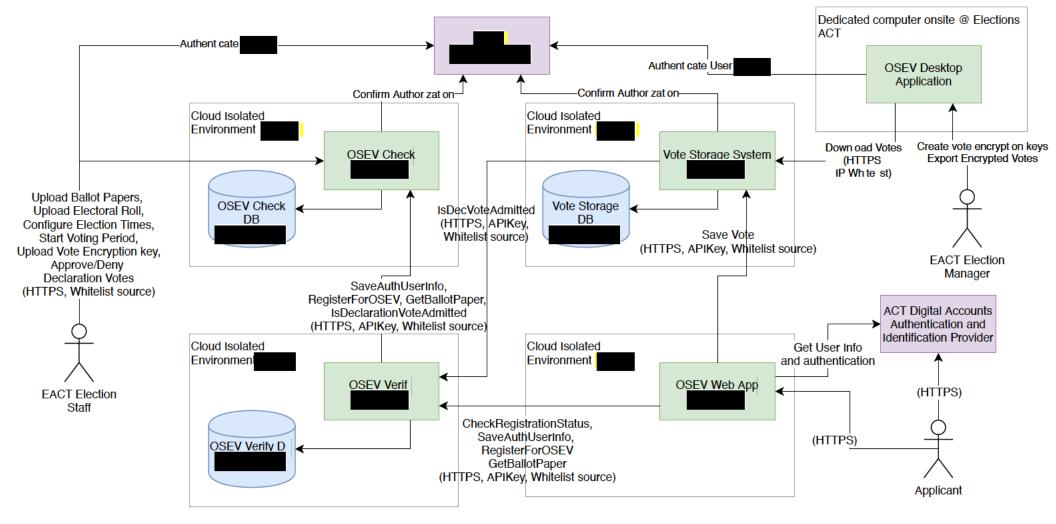
# **EACT OSEV Architecture**

v1.1 2020-09-09



#### OSEV Check

- 1. Restricted Admin Access to a web portal.
- 2. Used to configure OSEV for the election.
- 3. Holds information about the voter.
- Imports/exports for declaration vote admission or rejection.
- 5. Delivers ballot paper for a VoterToken.
- 6. Does not touch VotePreferences.

## OSEV Verify

- Integrates with OSEV Check.
- 2. Holds link between VoterToken and ReaToken
- 3. Does not touch VotePreferences.

## **Desktop Application**

- Creates vote encryption key pair (public key to be uploaded to OSEV Check).
- With each , encrypted votes are downloaded and exported for counting.

#### Vote Storage System

- 1. Stores Encrypted Vote Preferences.
- Encrypted votes can be downloaded using the desktop app.
- 3. Has no direct link to the voter.
- Uses OSEV Verify to check declaration vote approval status.
- 5. Votes can be downloaded if approved.

## **OSEV Web Application**

- Uses Identity Service to verify user identities and authenticate with OSEV.
- 2. User can Register to Vote.
- Sends user information to OSEV Check via OSEV Verify.
- 4. User can Submit Vote Preferences.
- Encrypts vote preferences.
- Changes functions available based on election open/close date/times.