## COMPACT CREDENTIALS VERIFIER SDK

**VERIFIER CAPABILITIES** 

V1.0.2

## **Overview**

The MATTR TC Compact Credential Verifier SDK enables customers to take advantage of MATTR on-device verifier capabilities to build their own verification apps.

The SDK handles all the complexity of decoding encoded QR code payloads, unpacking complex technical structures like COSE and verifying the cryptographic signatures associated.

The SDK is also designed to handle offline use cases by default, caching core verification information for ahead-of-time 'trusted issuers'.

## **Functionality**

**Initialise a verifier** – create a 'verifier' with a cache for trusted issuers, revocation lists and configurable verification rules (notBefore, Expiry, etc). (SDK)

**Verify a credential** – verify and decode a credential payload based on pre-defined rules and trusted issuer list. (SDK)

**Refresh the cache** – update cached information for most current view of revocation lists. (SDK)

## **Features**

- → Build your own compact credential verification solution into existing applications
- → Validate credential authenticity
- → Verify credentials offline with cached revocation lists and trusted issuer lists
- → Use the same codebase for iOS and Android with React Native package

→ Keep up to date with evolving standards with MATTR support

```
VALID
              reason: { type:
                                       Date of birth
                                                          Doe
           });
                                                          John Andrew
104
                                                          14/04/1979
         if (trustedIssuers && !trust
105
           return ok({
                                                          18/01/2016
106
              verified: false,
                                                          Example Certificate Type
              payload: cwtVerifiableCrede
107
             header,
108
                                                          XYZ Entity Ltd
109
              reason: { type: VerifyFailu
                                                          did:web:example.nz
110
           });
         }
111
112
                                                          const currentDate = new
         // validate nbf
```