Key Attributes

- A. Interoperability
- B. Verifiable
- C. Secure (Tamper-proof)
- D. Scalable

Presentation

Two modes of presentation shall be made available to the document bearers

- 1. QR code
 - a. The QR code shall contain the following components:
 - i. A link to fetch the HealthCert
 - ii. Decryption key to decrypt HealthCert payload
 - iii. URL to perform verification of HealthCert
 - iv. Encryption shall be based performed using oa-encrypt
 - b. QR code shall be readable by any standard QR code reader (non-proprietary formatting)
- 2. Rendering of document on a Mobile App Refer here for details.

Verification

The verifier shall attest the following datasets

1. ISSUER IDENTITY

Checks and returns the identity of the issuer. Verify the identity of the issuer against a decentralised identity provider (ie DID, DNS, etc) or some centrally managed identity registry.

2. DOCUMENT_INTEGRITY

Checks the integrity of the document by digesting the content of the OA document and comparing it with the document's targetHash

3. DOCUMENT_STATUS

Checks that the document has been issued and that it's issuance status is in good standing. Verify the issuance status against a record maintained externally, ie Records on a Blockchain or API endpoints.

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Appendix A - Schema

```
"id": "TEST001",
"name": "HealthCert",
"$template": {
  "name": "HealthCert_v1.0",
  "type": "EMBEDDED_RENDERER",
  "url": "https://render.openattestation.io"
},
"issuers": [
  {
     "name": "IssuerCompanyName",
     "documentStore": "0x0B209E53aaae5E9744d70509b74d66358df0bb27",
     "network": "ETHEREUM",
     "identityProof": {
       "type": "DNS-TXT",
       "location": "ropstore.openattestation.io"
    }
  }
],
"fhirVersion": "4.0.1",
"fhirBundle": {
  "resourceType": "Bundle",
  "type": "collection",
  "entry": [
       "resourceType": "Patient",
       "extension": [
          {
             "url": "http://hl7.org/fhir/StructureDefinition/patient-nationality",
             "code": {
               "text": "SG"
          }
       ],
       "identifier": [
             "type": "PPN",
             "value": "E7831177G"
          },
          {
             "type": {
               "text": "NRIC"
             "value": "S9098989Z"
          }
```

```
],
          "name": [
             {
                "text": "Tan Chen Chen"
             }
          ],
          "gender": "female",
          "birthDate": "1990-01-15"
          "resourceType": "Specimen",
          "type": {
             "coding": [
                  "system": "http://snomed.info/sct",
                  "code": "258500001",
                  "display": "Nasopharyngeal swab"
            ]
          },
          "collection": {
             "collectedDateTime": "2020-09-27T06:15:00Z"
          }
       },
          "resourceType": "Observation",
          "identifier": [
             {
                "value": "123456789",
                "type": "ACSN"
             }
          ],
          "code": {
             "coding": [
                  "system": "http://loinc.org",
                  "code": "94531-1",
                  "display": "Reverse transcription polymerase chain reaction (rRT-PCR)
test"
               }
             1
          },
          "valueCodeableConcept": {
             "coding": [
                  "system": "http://snomed.info/sct",
                  "code": "260385009",
                  "display": "Negative"
```

```
1
  },
  "effectiveDateTime": "2020-09-28T06:15:00Z",
  "status": "final",
  "performer": {
     "name": [
          "text": "Dr Michael Lim"
     1
  },
  "qualification": [
     {
        "identifier": "MCR 123214",
        "issuer": "MOH"
  ]
},
  "resourceType": "Organization",
  "name": "MacRitchie Medical Clinic",
  "type": "Licensed Healthcare Provider",
  "endpoint": {
     "address": "https://www.macritchieclinic.com.sg"
  },
  "contact": {
     "telecom": [
          "system": "phone",
          "value": "+6563113111"
       }
     ],
     "address": {
        "type": "work",
        "use": "physical",
        "text": "MacRitchie Hospital Thomson Road Singapore 123000"
  }
},
  "resourceType": "Organization",
  "name": "MacRitchie Laboratory",
  "type": "Accredited Laboratory",
  "contact": {
     "telecom": [
       {
          "system": "phone",
```