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Demo: ZKP-LD Playground

# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



ZKP-LD Playground v2.7.1 ⚠ Experimental: Not for production. May change or shut down without notice.

classic

Issuer

ISSUE

Holder 0

PRESENT

VERIFY

Options

Options

Options

Verifiable Credential Draft

Examples

+ ADD CREDENTIAL

+ ADD PREDICATE

Verifiable Presenta


Choose `Person` from Examples

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 Issuer

ISSUE

Options

Verifiable Credential Draft

Examples  
Person1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  },
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod"
  }
}
```

Click `ISSUE`  
to sign the draft

+ ADD CREDENTIAL

+ ADD PREDICATE

PRESENT

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Verifiable Credential Draft

Examples Person1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
},
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod"
  }
}
```

Holder

Options

Verifiable Credential 1 

? unverified

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

+ ADD CREDENTIAL

+ ADD PREDICATE

You can click `unverified` to verify the signed credential

Redacted Credential 1 

?

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

+ ADD CREDENTIAL

+ ADD PREDICATE

PRESENT

VERIFY

Options

Verifiable Presenta

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Issuer

ISSUE

Options

Verifiable Credential Draft

Person1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  },
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod"
  }
}
```

Holder

Options

Verifiable Credential 1

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

PRESENT

VERIFY

Options

Redacted Credential 1

?

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Presenta

+ ADD CREDENTIAL

+ ADD PREDICATE

You will see  
`accepted`  
if verification succeeds

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Issuer

ISSUE

Options

Verifiable Credential Draft

Examples Person1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  },
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod"
  }
}
```

Holder 1

Options

Verifiable Credential 1

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/0",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

PRESENT

VERIFY

Options

Redacted Credential 1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Remove the parts you do not wish to show

Here we removed top-level id and id, givenName, familyName, and birthdate in credentialSubject

+ ADD CREDENTIAL

+ ADD PREDICATE



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ZKP-LD Playground v2.7.1 ⚠ Experimental: Not for production

ISSUE

Holder

Options

Verifiable Credential Draft

```
{  "@context": [    "https://www.w3.org/2018/credentials/v1",    "https://www.w3.org/ns/data-integrity/v1",    "https://schema.org/"  ],  "id": "http://example.org/credentials/person/...",  "type": "VerifiableCredential",  "issuer": "did:example:issuer0",  "issuanceDate": "2023-01-01T00:00:00Z",  "expirationDate": "2026-01-01T00:00:00Z",  "credentialSubject": {    "id": "did:example:john",    "type": "Person",    "givenName": "John",    "familyName": "Smith",    "birthDate": "1970-01-01",    "homeLocation": {      "id": "did:example:cityA"    }  }  }
```

+ ADD CREDENTIAL  
+ ADD PREDICATE

Options

Verifiable Credential 1 ✓ accepted

```
{  "@context": [    "https://www.w3.org/2018/credentials/v1",    "https://www.w3.org/ns/data-integrity/v1",    "https://schema.org/"  ],  "id": "http://example.org/credentials/person/...",  "type": "VerifiableCredential",  "issuer": "did:example:issuer0",  "issuanceDate": "2023-01-01T00:00:00Z",  "expirationDate": "2026-01-01T00:00:00Z",  "credentialSubject": {    "id": "did:example:john",    "type": "Person",    "givenName": "John",    "familyName": "Smith",    "birthDate": "1970-01-01",    "homeLocation": {      "id": "did:example:cityA"    }  }  }
```

+ ADD CREDENTIAL  
+ ADD PREDICATE

Options

Redacted Credential 1 ?

```
{  "@context": [    "https://www.w3.org/2018/credentials/v1",    "https://www.w3.org/ns/data-integrity/v1",    "https://schema.org/"  ],  "type": "VerifiableCredential",  "issuer": "did:example:issuer0",  "issuanceDate": "2023-01-01T00:00:00Z",  "expirationDate": "2026-01-01T00:00:00Z",  "credentialSubject": {    "type": "Person",    "homeLocation": {      "id": "did:example:cityA"    }  }  }
```

Options

Verifiable Presentation ? unverified

```
{  "@context": [    "https://www.w3.org/2018/credentials/v1",    "https://www.w3.org/ns/data-integrity/v1",    "https://schema.org/",    "https://zkp-id.org/context.jsonld"  ],  "type": "VerifiablePresentation",  "proof": {    "type": "DataIntegrityProof",    "created": "2023-12-04T03:35:51.923Z",    "challenge": "verifierChallenge",    "cryptosuite": "bbs-termwise-proof-2023",    "domain": "example.org",    "proofPurpose": "authentication",    "proofValue": "uomFhWQRlAQAAAAAAAAAAiFpF4e4xPVdi..."  },  "verifiableCredential": {    "type": "VerifiableCredential",    "proof": {      "type": "DataIntegrityProof",      "created": "2023-12-04T03:34:01.522Z",      "cryptosuite": "bbs-termwise-signature-2023",      "proofPurpose": "assertionMethod",      "verificationMethod": "did:example:issuer0#bbs2023"    }    }  }
```

Click `PRESENT` then you can get Verifiable Presentation

PRESENT

Click `unverified` to verify it

VERIFY

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ISSUE

Holder

PRESENT

Options

Options

Verifiable Credential Draft

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

+ ADD CREDENTIAL

+ ADD PREDICATE

Verifiable Credential 1

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Redacted Credential 1

?

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Presentation

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/",
    "https://zkp-id.org/context.jsonld"
  ],
  "type": "VerifiablePresentation",
  "proof": {
    "type": "DataIntegrityProof",
    "created": "2023-12-04T03:35:51.923Z",
    "challenge": "verifierChallenge",
    "cryptosuite": "bbs-termwise-proof-2023",
    "domain": "example.org",
    "proofPurpose": "authentication",
    "proofValue": "uomFhWQRlAQAAAAAAAAAAiFpF4e4xPVdi..."
  },
  "verifiableCredential": {
    "type": "VerifiableCredential",
    "proof": {
      "type": "DataIntegrityProof",
      "created": "2023-12-04T03:34:01.522Z",
      "cryptosuite": "bbs-termwise-signature-2023",
      "proofPurpose": "assertionMethod",
      "verificationMethod": "did:example:issuer0#hle..."
    }
  }
}
```

You will see  
`accepted`  
if verification succeeds

7



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ISSUE

Holder

PRESENT

Verifier

VERIFY

Options

Options

Verifiable Credential Draft

Verifiable Credential 1

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

+ ADD CREDENTIAL

+ ADD PREDICATE

Redacted Credential 1

?

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Presentation

accepted

```
{
  "type": "VerifiablePresentation",
  "proof": {
    "type": "DataIntegrityProof",
    "created": "2023-12-04T03:34:01.522Z",
    "cryptosuite": "bbs-termwise-signature-2023",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer0#bsi..."
  },
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  },
  "expirationDate": "2026-01-01T00:00:00Z",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "issuer": "did:example:issuer0"
}
```

You can see all the removed attributes are not revealed in the presentation

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ISSUE Holder PRESENT Verifier VERIFY

Options Options

Verifiable Credential Draft

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Credential 1 accepted

Redacted Credential 1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Presentation accepted

```
{
  "type": "VerifiablePresentation",
  "proof": {
    "type": "DataIntegrityProof",
    "created": "2023-12-04T03:34:01.522Z",
    "cryptosuite": "bbs-termwise-signature-2023",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer0#bls..."
  },
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  },
  "expirationDate": "2026-01-01T00:00:00Z",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "issuer": "did:example:issuer0"
}
```

+ ADD CREDENTIAL

+ ADD PREDICATE

You can see all the removed attributes are not revealed in the presentation

For unlinkability, proofValue is removed from verifiableCredential

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Issuer

ISSUE

Holder

1

classic

🌞

🌙

PRESENT

VERIFY

Options

Options

Options

Verifiable Credential Draft

City

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer1#bls12_3"
  }
}
```

Verifiable Credential 1

accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Redacted Credential 1

?

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Presenta

+ ADD CREDENTIAL

+ ADD PREDICATE

# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



Again, you can click  
`unverified`  
to verify the signed  
credential

```
],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer1#bls12_3"
  }
}
```

Verifiable Credential 2

? unverified

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "@context": "https://www.w3.org/ns/data-int"
  }
}
```

Redacted Credential 2

? ☒



```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "@context": "https://www.w3.org/ns/data-int"
  }
}
```



# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



```
],
"id": "http://example.org/credentials/city/1",
"type": "VerifiableCredential",
"issuer": "did:example:issuer1",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "id": "did:example:cityA",
  "type": "Place",
  "name": "City A",
  "maximumAttendeeCapacity": 10000
},
"proof": {
  "type": "DataIntegrityProof",
  "proofPurpose": "assertionMethod",
  "verificationMethod": "did:example:issuer1#bls12_3
}
```

```
},
"id": "http://example.org/credentials/person/1",
"type": "VerifiableCredential",
"issuer": "did:example:issuer0",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "id": "did:example:john",
  "type": "Person",
  "givenName": "John",
  "familyName": "Smith",
  "birthDate": "1970-01-01",
  "homeLocation": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  }
}
```

You will see  
`accepted`  
if verification succeeds

```
},
"type": "VerifiableCredential",
"issuer": "did:example:issuer0",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "id": "did:example:john",
  "type": "Person",
  "givenName": "John",
  "familyName": "Smith",
  "birthDate": "1970-01-01",
  "homeLocation": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  }
}
```

Verifiable Credential 2

✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "@context": "https://www.w3.org/ns/data-integrity/v1",
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer1#bls12_3"
  }
}
```

Redacted Credential 2



```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
    "@context": "https://www.w3.org/ns/data-integrity/v1",
    "type": "DataIntegrityProof",
    "proofPurpose": "assertionMethod",
    "verificationMethod": "did:example:issuer1#bls12_3"
  }
}
```



# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



```
"@context": [
  "https://www.w3.org/2018/credentials/v1",
  "https://www.w3.org/ns/data-integrity/v1",
  "https://schema.org/"
],
"id": "http://example.org/credentials/city/1",
"type": "VerifiableCredential",
"issuer": "did:example:issuer1",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "id": "did:example:cityA",
  "type": "Place",
  "name": "City A",
  "maximumAttendeeCapacity": 10000
},
"proof": {
  "type": "DataIntegrityProof",
  "proofPurpose": "assertionMethod",
  "verificationMethod": "did:example:issuer1#bls12_3"
}
```

```
"https://www.w3.org/2018/credentials/v1",
"https://www.w3.org/ns/data-integrity/v1",
"https://schema.org/"
],
"id": "http://example.org/credentials/person/",
"type": "VerifiableCredential",
"issuer": "did:example:issuer0",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "id": "did:example:john",
  "type": "Person",
  "givenName": "John",
  "familyName": "Smith",
  "birthDate": "1970-01-01",
  "homeLocation": {
    "id": "did:example:cityA"
  }
}
```

```
],
"type": "VerifiableCredential",
"issuer": "did:example:issuer0",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "type": "Person",
  "homeLocation": {
    "id": "_:HiddenID"
  }
},
"proof": {
```

Verifiable Credential 2

✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "name": "City A",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
```

Redacted Credential 2



```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "_:HiddenID",
    "type": "Place",
    "maximumAttendeeCapacity": 10000
  },
  "proof": {
```

This time, we removed top-level id and name of the city

# Demo: ZKP-LD Playground

<https://playground.zkp-ld.org/>



Additionally, by using a masking value that starts with `_:`, it is possible to conceal a value appearing in multiple locations while preserving its equivalence  
(In this example, we use `_:HiddenID` to hide the city A's identifier `did:example:cityA`)

✓ accepted

Redacted Credential 2

©



# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



ZKP-LD Playground v2.7.1 ⚠ Experimental: Not for production

ISSUE

2

Holder

Options

Options

Verifiable Credential Draft

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Options

Verifiable Credential 1

✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Credential 2

✓ accepted

Options

Redacted Credential 1

?

```
"https://www.w3.org/ns/data-integrity/v1",
"https://schema.org/"
],
"type": "VerifiableCredential",
"issuer": "did:example:issuer0",
"issuanceDate": "2023-01-01T00:00:00Z",
"expirationDate": "2026-01-01T00:00:00Z",
"credentialSubject": {
  "type": "Person",
  "homeLocation": {
    "id": "_:HiddenID"
  }
},
"proof": {
```

Redacted Credential 2

?

Options

Verifiable Presentation

? unverified

```
"https://www.w3.org/2018/credentials/v1",
"https://www.w3.org/ns/data-integrity/v1",
"https://schema.org/",
"https://zkp-ld.org/context.jsonld"
],
"type": "VerifiablePresentation",
"proof": {
  "type": "DataIntegrityProof",
  "created": "2023-12-04T03:48:29.512Z",
  "challenge": "verifierChallenge",
  "cryptosuite": "bbs-termwise-proof-2023",
  "domain": "example.org",
  "proofPurpose": "authentication",
  "proofValue": "uomFhWQgGAgAAAAAAAAAAkd36IOet3fdJl..."
},
"verifiableCredential": [
  {
    "type": "VerifiableCredential",
    "proof": {
      "type": "DataIntegrityProof",
      "created": "2023-12-04T03:43:44.910Z",
      "cryptosuite": "bbs-termwise-signature-2023",
      "proofPurpose": "assertionMethod",
      "verificationMethod": "did:example:issuer1#b..."
    }
  }
]
```

Click `PRESENT` then you can get Verifiable Presentation

PRESENT

Click `unverified` to verify it

VERIFY



# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



ZKP-LD Playground v2.7.1 ⚠ Experimental: Not for production. May change or shut down without notice.

ISSUE

Holder

PRESENT

Verifier

VERIFY

Options

Options

Options

Verifiable Credential Draft

Verifiable Credential 1 accepted

Redacted Credential 1

Verifiable Presentation accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/...",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "_:HiddenID"
    }
  },
  "proof": {
    "type": "DataIntegrityProof",
    "created": "2023-12-04T03:48:29.512Z",
    "challenge": "verifierChallenge",
    "cryptosuite": "bbs-termwise-proof-2023",
    "domain": "example.org",
    "proofPurpose": "authentication",
    "proofValue": "uomFhWQgGAgAAAAAAAAAAkd36IOet3fdJl"
  }
}
```

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/",
    "https://zkp-id.org/context.jsonld"
  ],
  "type": "VerifiablePresentation",
  "proof": {
    "type": "DataIntegrityProof",
    "created": "2023-12-04T03:48:29.512Z",
    "challenge": "verifierChallenge",
    "cryptosuite": "bbs-termwise-proof-2023",
    "domain": "example.org",
    "proofPurpose": "authentication",
    "proofValue": "uomFhWQgGAgAAAAAAAAAAkd36IOet3fdJl"
  },
  "verifiableCredential": [
    {
      "type": "VerifiableCredential",
      "proof": {
        "type": "DataIntegrityProof",
        "created": "2023-12-04T03:43:44.910Z",
        "cryptosuite": "bbs-termwise-signature-2023",
        "proofPurpose": "authenticationMethod"
      }
    }
  ]
}
```

Verifiable Credential 2 accepted

Redacted Credential 2

You will see  
`accepted`  
if verification succeeds

# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



Verifiable Credential Draft

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Verifiable Credential 1 ✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:john",
    "type": "Person",
    "givenName": "John",
    "familyName": "Smith",
    "birthDate": "1970-01-01",
    "homeLocation": {
      "id": "did:example:cityA"
    }
  }
}
```

Redacted Credential 1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "_:HiddenID"
    }
  },
  "proof": {
    "type": "Ed25519Signature2018",
    "created": "2023-01-01T00:00:00Z",
    "verificationMethod": "did:example:issuer0#key-1",
    "signature": "..."
  }
}
```

Verifiable Presentation ✓ accepted

```
{
  "verifiableCredential": [
    {
      "type": "VerifiableCredential",
      "proof": {
        "type": "Ed25519Signature2018",
        "created": "2023-01-01T00:00:00Z",
        "verificationMethod": "did:example:issuer0#key-1",
        "signature": "..."
      },
      "credentialSubject": {
        "id": "_:b10",
        "type": "Place",
        "maximumAttendeeCapacity": {
          "type": "xsd:integer",
          "@value": "10000"
        }
      },
      "expirationDate": "2026-01-01T00:00:00Z",
      "issuanceDate": "2023-01-01T00:00:00Z",
      "issuer": "did:example:issuer1"
    },
    {
      "type": "VerifiableCredential",
      "proof": {
        "type": "Ed25519Signature2018",
        "created": "2023-01-01T00:00:00Z",
        "verificationMethod": "did:example:issuer1#key-1",
        "signature": "..."
      },
      "credentialSubject": {
        "type": "Person",
        "homeLocation": {
          "id": "_:b10"
        }
      },
      "expirationDate": "2026-01-01T00:00:00Z",
      "issuanceDate": "2023-01-01T00:00:00Z",
      "issuer": "did:example:issuer1"
    }
  ]
}
```

Verifiable Credential 2 ✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "id": "did:example:cityA",
    "type": "Place",
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    }
  }
}
```

Redacted Credential 2 ? ✓ 🗑️

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Place",
    "homeLocation": {
      "id": "_:HiddenID"
    }
  },
  "proof": {
    "type": "Ed25519Signature2018",
    "created": "2023-01-01T00:00:00Z",
    "verificationMethod": "did:example:issuer1#key-1",
    "signature": "..."
  }
}
```

You can see all the removed attributes are not revealed in the presentation



# Demo: ZKP-LD Playground

<https://playground.zkp-id.org/>



You can see all the removed attributes are not revealed in the presentation

Furthermore, you can observe that the identifiers of city A, which appeared in two places, have been masked by the same value `_:b10`. This allows you to conceal specific values while preserving the connections as linked data

Verifiable Credential Draft

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "http://example.org/locations/cityA/"
    },
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    },
    "expirationDate": "2026-01-01T00:00:00Z",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "issuer": "did:example:issuer1"
  },
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```

Verifiable Credential 1 ✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "http://example.org/locations/cityA/"
    },
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    },
    "expirationDate": "2026-01-01T00:00:00Z",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "issuer": "did:example:issuer1"
  },
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```

Redacted Credential 1

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/person/",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer0",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Person",
    "homeLocation": {
      "id": "http://example.org/locations/cityA/"
    },
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    },
    "expirationDate": "2026-01-01T00:00:00Z",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "issuer": "did:example:issuer1"
  },
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```

Verifiable Presentation ✓ accepted

```
{
  "verifiableCredential": [
    {
      "type": "VerifiableCredential",
      "proof": {
        "type": "VerifiableCredential",
        "issuer": "did:example:issuer1",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "expirationDate": "2026-01-01T00:00:00Z"
      },
      "credentialSubject": {
        "id": "http://example.org/locations/cityA/",
        "type": "Place",
        "maximumAttendeeCapacity": {
          "type": "xsd:integer",
          "@value": "10000"
        },
        "expirationDate": "2026-01-01T00:00:00Z",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "issuer": "did:example:issuer1"
      },
      "proof": {
        "type": "VerifiableCredential",
        "issuer": "did:example:issuer1",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "expirationDate": "2026-01-01T00:00:00Z"
      }
    },
    {
      "type": "VerifiableCredential",
      "proof": {
        "type": "VerifiableCredential",
        "issuer": "did:example:issuer1",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "expirationDate": "2026-01-01T00:00:00Z"
      },
      "credentialSubject": {
        "type": "Person",
        "homeLocation": {
          "id": "http://example.org/locations/cityA/"
        },
        "maximumAttendeeCapacity": {
          "type": "xsd:integer",
          "@value": "10000"
        },
        "expirationDate": "2026-01-01T00:00:00Z",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "issuer": "did:example:issuer1"
      },
      "proof": {
        "type": "VerifiableCredential",
        "issuer": "did:example:issuer1",
        "issuanceDate": "2023-01-01T00:00:00Z",
        "expirationDate": "2026-01-01T00:00:00Z"
      }
    }
  ],
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```

Verifiable Credential 2 ✓ accepted

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Place",
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    },
    "expirationDate": "2026-01-01T00:00:00Z",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "issuer": "did:example:issuer1"
  },
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```

Redacted Credential 2

```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.w3.org/ns/data-integrity/v1",
    "https://schema.org/"
  ],
  "id": "http://example.org/credentials/city/1",
  "type": "VerifiableCredential",
  "issuer": "did:example:issuer1",
  "issuanceDate": "2023-01-01T00:00:00Z",
  "expirationDate": "2026-01-01T00:00:00Z",
  "credentialSubject": {
    "type": "Place",
    "maximumAttendeeCapacity": {
      "type": "xsd:integer",
      "@value": "10000"
    },
    "expirationDate": "2026-01-01T00:00:00Z",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "issuer": "did:example:issuer1"
  },
  "proof": {
    "type": "VerifiableCredential",
    "issuer": "did:example:issuer1",
    "issuanceDate": "2023-01-01T00:00:00Z",
    "expirationDate": "2026-01-01T00:00:00Z"
  }
}
```