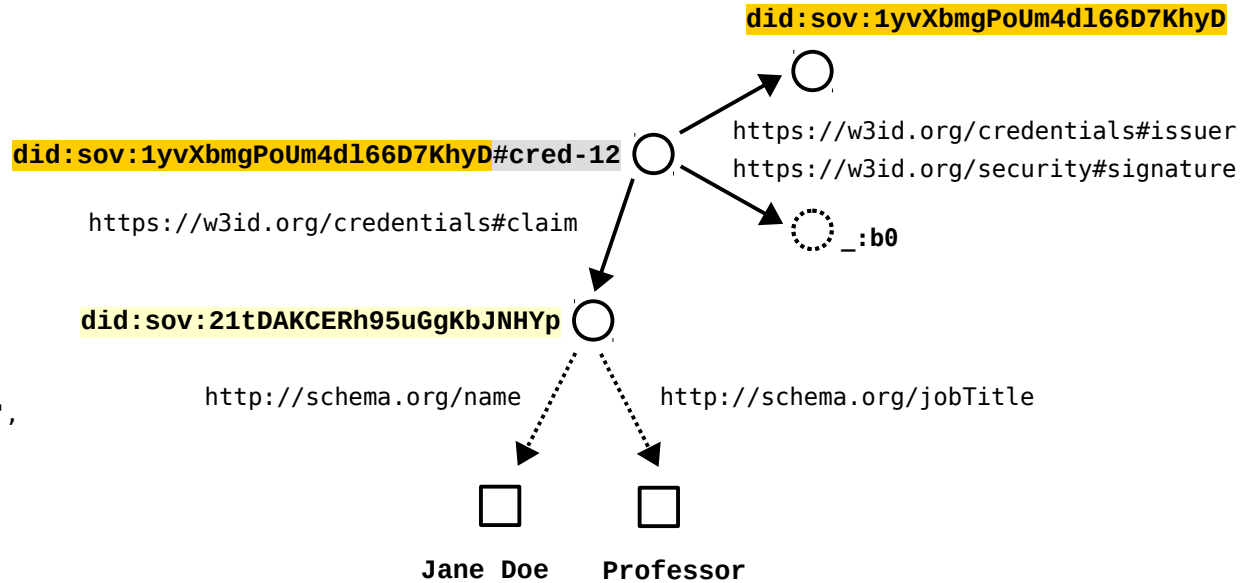


JSON-LD 1.1 – Implicitly Named Graphs

JSON-LD 1.0

```
{
  "@context": [ ... ],
  "id": "did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12",
  "type": ["Credential"],
  "issuer": "did:sov:1yvXbmgPoUm4dL66D7KhyD",
  "claim": {
    "id": "did:sov:21tDAKCERh95uGgKbJNHyp",
    "name": "Jane Doe",
    "jobTitle": "Professor"
  },
  "signature": {
    "type": "RsaSignature2017",
    "creator": "did:sov:1yvXbmgPoUm4dL66D7KhyD#key1",
    "signatureValue": "eyJhbG...."
  }
}
```



```
<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <https://w3id.org/credentials#Credential> .
<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#issuer> <did:sov:1yvXbmgPoUm4dL66D7KhyD> .

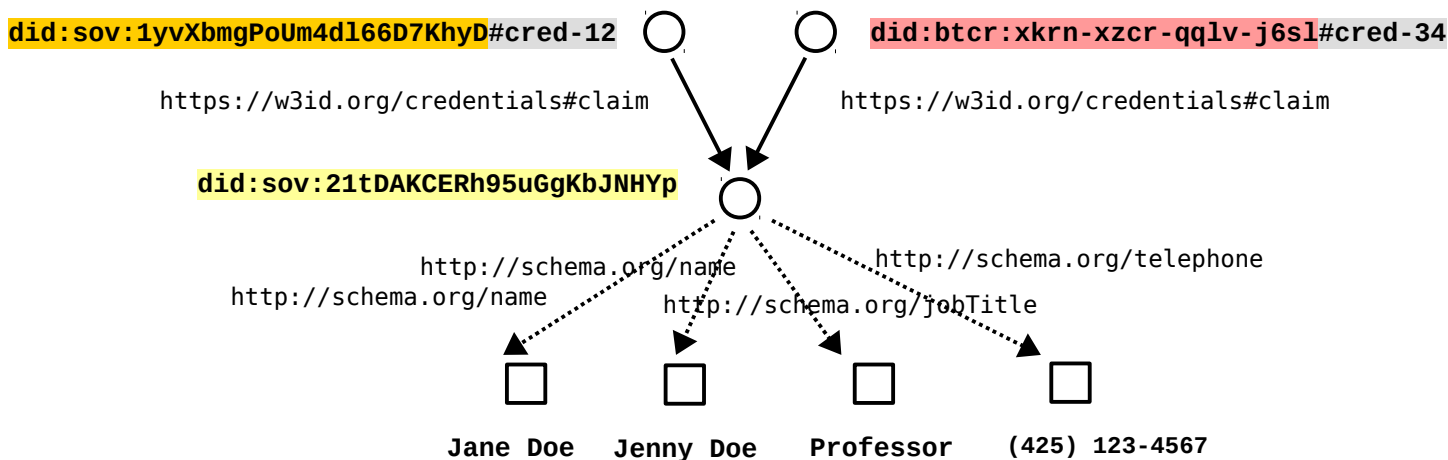
<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#claim> <did:sov:21tDAKCERh95uGgKbJNHyp> .
<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/jobTitle> "Professor" .
<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/name> "Jane Doe" .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/security#signature> ._:b0 .
_:b0 <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://schema.org/RsaSignature2017> .
_:b0 <http://schema.org/creator> "did:sov:1yvXbmgPoUm4dL66D7KhyD#key1" .
_:b0 <https://w3id.org/security#signatureValue> "eyJhbG...." .
```

JSON-LD 1.0 Problem: Multiple claims in one graph

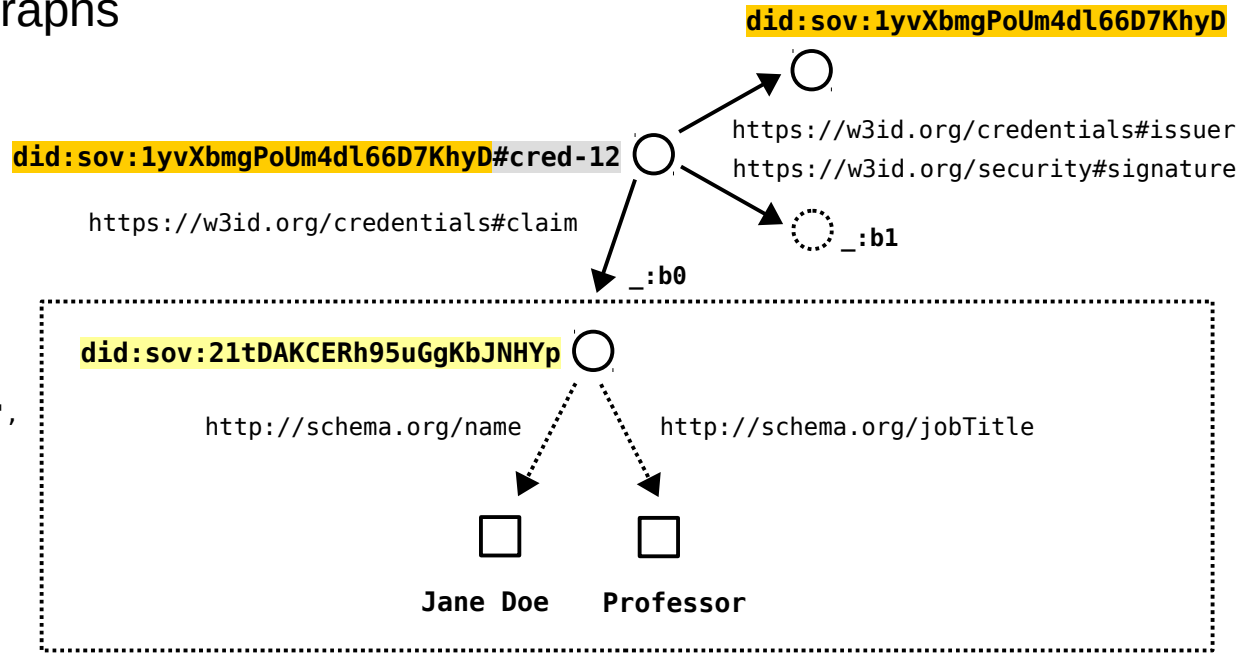
```
{
  "@context": [ ... ],
  "id": "did:sov:1yvXbmgPoUm4dl66D7KhyD#cred-12",
  "type": ["Credential"],
  "issuer": "did:sov:1yvXbmgPoUm4dl66D7KhyD",
  "claim": {
    "id": "did:sov:21tDAKCERh95uGgKbJNHYP",
    "name": "Jane Doe",
    "jobTitle": "Professor"
  },
  "signature": {
    "type": "RsaSignature2017",
    "creator": "did:sov:1yvXbmgPoUm4dl66D7KhyD#key1",
    "signatureValue": "eyJhbG...."
  }
}
```

```
{
  "@context": [ ... ],
  "id": "did:btcr:xkrn-xzcr-qqlv-j6sl#cred-34",
  "type": ["Credential"],
  "issuer": "did:btcr:xkrn-xzcr-qqlv-j6sl",
  "claim": {
    "id": "did:sov:21tDAKCERh95uGgKbJNHYP",
    "name": "Jenny Doe",
    "telephone": "(425) 123-4567"
  },
  "signature": {
    "type": "RsaSignature2017",
    "creator": "did:btcr:xkrn-xzcr-qqlv-j6sl#key1",
    "signatureValue": "eyJxz4...."
  }
}
```



JSON-LD 1.1 Implicitly named graphs

```
{
  "@context": [ ... ],
  "id": "did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12",
  "type": ["Credential"],
  "issuer": "did:sov:1yvXbmgPoUm4dL66D7KhyD",
  "claim": {
    "id": "did:sov:21tDAKCERh95uGgKbJNHyp",
    "name": "Jane Doe",
    "jobTitle": "Professor"
  },
  "signature": {
    "type": "RsaSignature2017",
    "creator": "did:sov:1yvXbmgPoUm4dL66D7KhyD#key1",
    "signatureValue": "eyJhbG...."
  }
}
```



<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <https://w3id.org/credentials#Credential> .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#issuer> <did:sov:1yvXbmgPoUm4dL66D7KhyD> .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#claim> _:b0 .

<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/jobTitle> "Professor" _:b0 .

<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/name> "Jane Doe" _:b0 .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/security#signature> _:b1 .

_:b1 <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://schema.org/RsaSignature2017> .

_:b1 <http://purl.org/dc/terms/creator> <did:sov:1yvXbmgPoUm4dL66D7KhyD#key1> .

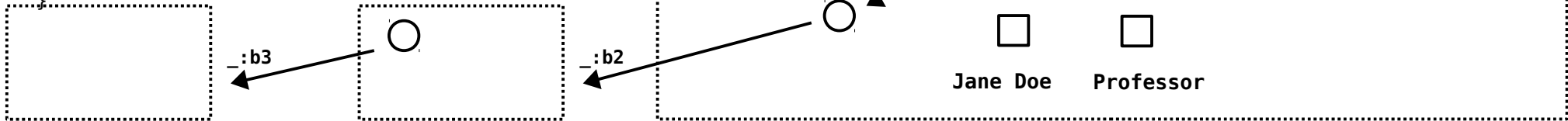
_:b1 <https://w3id.org/security#signatureValue> "eyJhbG...." .

JSON-LD 1.1 Implicitly named graphs

```

{
  "@context": [ ... ],
  "id": "did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12",
  "type": ["Credential"],
  "issuer": "did:sov:1yvXbmgPoUm4dL66D7KhyD",
  "claim": {
    "id": "did:sov:21tDAKCERh95uGgKbJNHyp",
    "name": "Jane Doe",
    "jobTitle": "Professor"
  },
  "signature": {
    "type": "RsaSignature2017",
    "creator": "did:sov:1yvXbmgPoUm4dL66D7KhyD#key1",
    "signatureValue": "eyJhbG...."
  }
}

```



```

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <https://w3id.org/credentials#Credential> .
<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#issuer> <did:sov:1yvXbmgPoUm4dL66D7KhyD> .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/credentials#claim> _:b0 .
<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/jobTitle> "Professor" _:b0 .
<did:sov:21tDAKCERh95uGgKbJNHyp> <http://schema.org/name> "Jane Doe" _:b0 .

<did:sov:1yvXbmgPoUm4dL66D7KhyD#cred-12> <https://w3id.org/security#signature> _:b1 .
_:b1 <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://schema.org/RsaSignature2017> .
_:b1 <http://purl.org/dc/terms/creator> <did:sov:1yvXbmgPoUm4dL66D7KhyD#key1> .
_:b1 <https://w3id.org/security#signatureValue> "eyJhbG...." .

```

JSON-LD 1.0

```
{
  "@context": {
    "id": "@id",
    "type": "@type",
    "claim": {
      "@id": "cred:claim",
      "@type": "@id"
    },
    ...
  }
}
```

JSON-LD 1.1

```
{
  "@context": {
    "@version": 1.1,
    "id": "@id",
    "type": "@type",
    "claim": {
      "@id": "cred:claim",
      "@container": "@graph"
    },
    ...
  }
}
```