DID Resolution

A work item of the W3C CCG

09th January 2020 **IPR rules apply!**

Zoom Call:

https://zoom.us/j/7077077007

Text Chat:

http://irc.w3.org/?channels=ccg (type q+ to get into the queue)

This call is being recorded!

Agenda Thursday 09 January 2020

Welcome and CCG IPR reminder

Call info and scribe selection

Agenda creation/review/prioritization

DID resolver architectures

Matrix parameters vs. query parameters

AOB

Next meeting

did:ex:123;service=profilepic

```
"@context": "https://www.w3.org/ns/did/v1",
                                                                   "@context": "https://www.w3.org/ns/did/v1",
"id": "did:ex:123",
                                                                   "id": "did:ex:123",
"publicKey": [{
                                                                   "publicKey": [{
  "id": "did:ex:123#keys-1",
                                                                     "id": "did:ex:123#keys-1",
 "type": "RsaVerificationKey2018",
                                                                     "type": "RsaVerificationKey2018",
                                                                     "publicKeyPem": "----BEGIN PUB...01..END PUB ----\r\n"
  "publicKeyPem": "----BEGIN PUB...01..END PUB ----\r\n"
                                                                  }],
"service": [{
                                                                   "service": [{
                                                                     "id": "did:ex:123#profilepic",
 "id": "did:ex:123#profilepic",
 "serviceEndpoint":
                                                                     "serviceEndpoint":
    "https://socialnetwork.com/user/123/profile?image"
                                                                       "https://newnetwork.com/account022/photo.jpg"
                                                                  }]
```

https://socialnetwork.com/user/123/profile?image

https://newnetwork.com/account022/photo.jpg

did:ex:123;service=files/myresume/doc?version=latest#intro

```
"@context": "https://www.w3.org/ns/did/v1",
                                                                   "@context": "https://www.w3.org/ns/did/v1",
                                                                   "id": "did:ex:123",
"id": "did:ex:123",
"publicKey": [{
                                                                   "publicKey": [{
                                                                     "id": "did:ex:123#keys-1",
  "id": "did:ex:123#keys-1",
  "type": "RsaVerificationKey2018",
                                                                     "type": "RsaVerificationKey2018",
                                                                     "publicKeyPem": "----BEGIN PUB...01..END PUB ----\r\n"
  "publicKeyPem": "----BEGIN PUB...01..END PUB ----\r\n"
                                                                   }],
                                                                   "service": [{
"service": [{
                                                                     "id": "did:ex:123#files",
  "id": "did:ex:123#files",
  "serviceEndpoint":
                                                                     "serviceEndpoint":
    "https://filestore.org/user123/"
                                                                       "https://selfhosted.me:8080/"
                                                                  }]
```

https://filestore.org/user123/myresume/doc?version=latest#intro

https://selfhosted.me:8080/myresume/doc?version=latest#intro

did:ex:123;service=files/myresume/doc?version=latest#intro

What if we did not have matrix parameters?

did:ex:123/myresume/doc?_did_service=files&version=latest#intro

How would this get dereferenced?

More matrix parameters! (version-id)

did:ex:123;service=files;version-id=4/myresume/doc?version=latest#intro

Version of the DID document (Defined by the DID Core spec)

Version of the resource at the service endpoint (Defined by the service)

More matrix parameters! (hl)

did:ex:123;service=files;hl=zQmWvQ/myresume/doc?hl=zQrMLp#intro

Hash of the DID document (Verified by the DID resolver)

Hash of the resource at the service endpoint (Verified by the client application)