draft-ietf-cdni-interfaces-https-delegation

IETF 111 - CDNI WG

Frederic Fieau, Emile Stephan - July 27th, 2021
About Certificate sharing based Delegation methods

- [RFC 8739](https://tools.ietf.org/html/rfc8739) (STAR)

- [STAR Delegation](https://www.starconsortium.org/)

- [Delegated Credentials](https://tools.ietf.org/html/draft-ietf-star-credentials-02) (Internet Draft)
HTTPS Delegation

  • Allows bootstrapping content delivery delegation for “certificate” based content delegation methods between a uCDN and a delegate dCDN
  • I-D is adopted as a WG in CDNI WG
CDNI extensions to support Delegation

• Internet Draft, [CDNI HTTPS Delegation](#), updates the Metadata interface model by extending the PathMetadata object, as defined in [RFC8006], and adds new "Delegation methods" objects:
  • AcmeStarDelegationMethod
  • SubcertsDelegationMethod

• PathMetadata can be modeled for ACMEStarDelegationMethod as follows:

```json
PathMetadata: {
    "metadata": [{
        "generic-metadata-type": "MI.AcmeStarDelegationMethod",
        "generic-metadata-value": {
            "star-proxy": "10.2.2.2",
            "acme-server": "10.2.3.3",
            "credentials-location-uri": "www.ucdn.com/credentials",
            "periodicity": 36000,
            "CSR-template": Json/Text representing the CSR template (see section 4.2)
        }
    }
}]
```
What’s next?

• Prototyping

• WGLC?
Thank you