

draft-fieau-cdni-interfaces-https-delegation-01

CDNI WG

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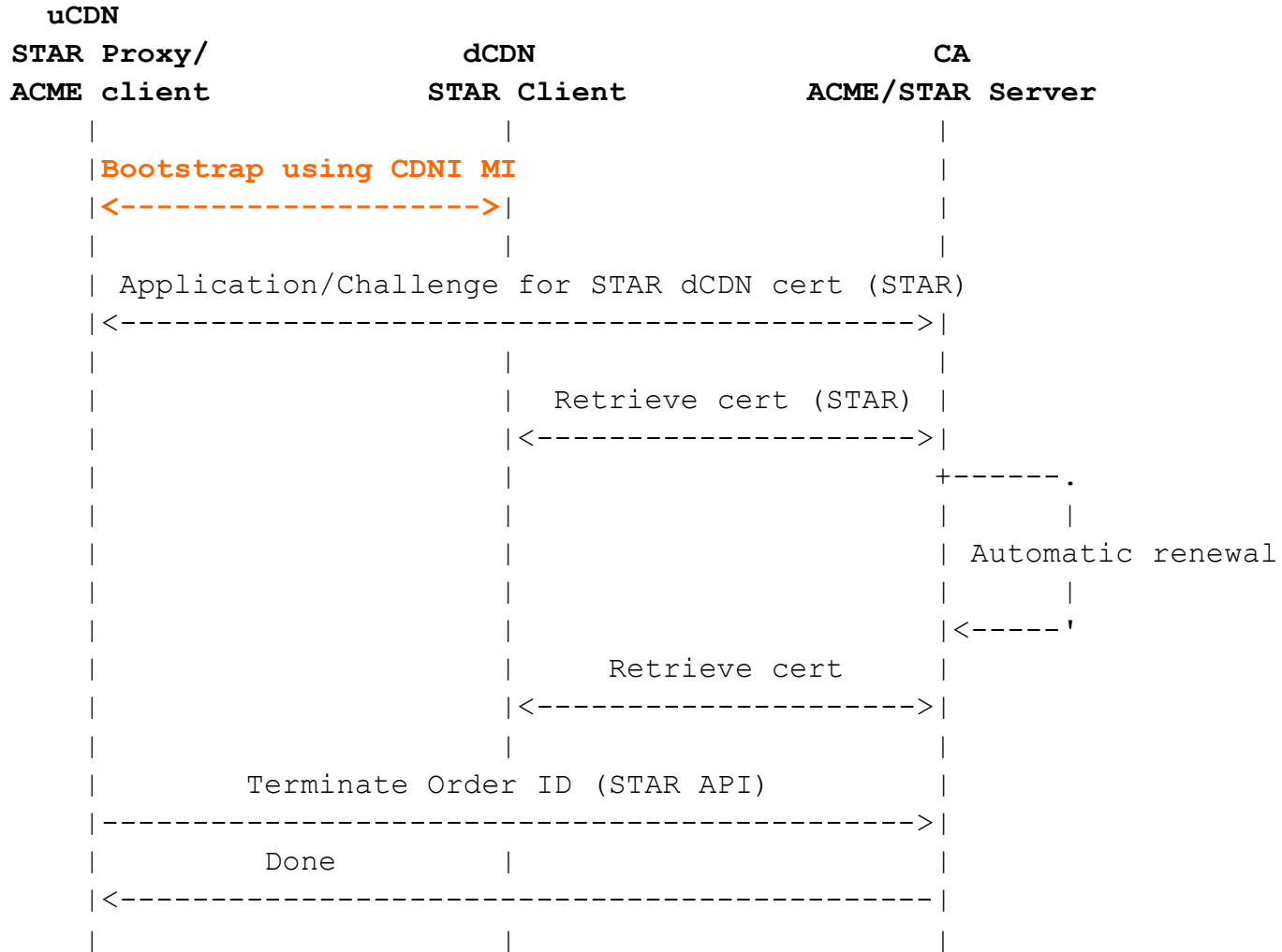
Verizon

IETF 99 – Prague

Adding HTTPS delegation support to metadata interface

- draft-fieau-cdni-interfaces-https-delegation proposes an update to the CDNi interfaces to take into account HTTPS delegation mechanisms the IETF is working on.
- The current version adds objects to the metadata interface (RFC8006) to support draft-ietf-acme-star-00 Short Term Automatically Renewed certificates:
 - provides the dCDN (START NDC entity) with information about credentials renewal the CA is producing on behalf of uCDN (DNO STAR entity)

STAR call-flow in CDNI



Proposed MI objects to handle delegation

SecuredDelegation :

```
{
  "generic-metadata-type": "MI.SecuredDelegation",
  "generic-metadata-value":
  {
    "timewindow": TimeWindowACL,
    "delegationMethod": AcmeStarDelegationMethod,
    "pathpattern": PathPattern,
    "delegatedDomain": HostMatch,
  }
}
```

AcmeStarDelegationMethod:

```
{
  "generic-metadata-type": "MI.AcmeStarDelegationMethod",
  "generic-metadata-value": {
    "starproxy": Endpoint,
    "acmeserver": Endpoint,
    "credentialslocationuri": Link,
    "periodicity": Periodicity
  }
}
```

Next steps discussions

- Add support for Ekr subcerts (draft-rescorla-tls-subcerts)
- Discuss other delegation solutions for CDNI
- Identify changes on the other CDNI interfaces for supporting HTTPS delegation.
- Discuss bootstrap using CDNI MI