ACME STAR

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IETF 103, Bangkok

Document Status

draft-ietf-acme-star already went through WGLC, but no request for publication yet

Numerous recent changes, but mostly to synchronize with base ACME

- Also comments from Sean – thanks!

Changes in -04

Base doc moved to POST-as-GET, this doc makes “GET” great again

- Details below

A few terminology changes

- Identity Owner to Identifier Owner

Clarification about certificate validity time

- Mandatory certificate predating to ensure client can always use fetched cert

Removed support for the revokeCert endpoint

- Server must return 403 Forbidden

Using GET in ACME-STAR

Server advertises support in the directory object

Identifier Owner requests support with a new attribute in the Order object

- The Order object includes this attribute when successful

Now, the Client can use a GET to fetch the certificate

- Virtually unchanged from the previous version

Next Steps?

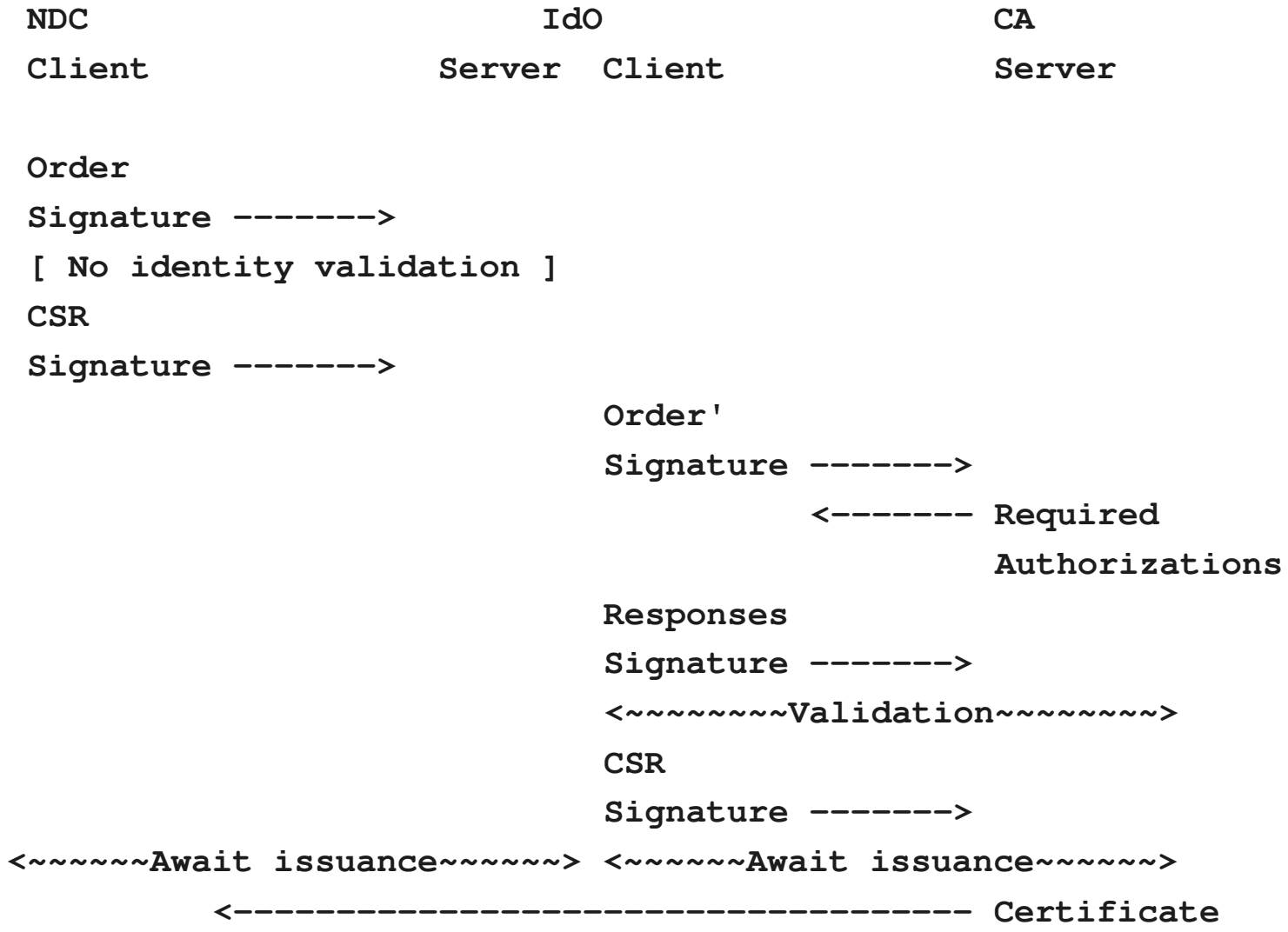
ACME Delegation

Doc was assigned to ACME by SecDispatch

ACME participants proposed to redo as an ACME profile

This profile now published as draft-sheffer-acme-star-delegation-00

Message Sequence



Some Protocol Details

IdO has its own account management

The NDC-to-IdO protocol is somewhat restricted

- No autorizations, hence a simpler state machine

Added CNAME identity management

- Next slide

CNAME Management

New *delegated* attribute to the *identifier* object of type DNS

NDC indicates to IdO what name it will use locally for the delegated name

To close the delegation loop by including automated DNS provisioning

```
"identifiers": [
    {
     "type": "dns",
     "value": "abc.ndc.dno.example.",
     "delegated": true,
     "cname": "abc.ndc.example."
    }
   ]
```

Open Issue: Restrict to STAR

We can envision cases where long term (normal) certs are delegated

Do we want to support them here?

Next Steps

We request adoption as a WG document