

ACME Renewal Information

draft-ietf-acme-ari-06

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IETF 121, 2024-11-06

- Draft -05
 - Introduce “alreadyReplaced” error
 - Advice to clients re: when to supply “replaces” field
- Draft -06
 - Spelling typo fix
 - Advice to servers re: Retry-After header
- Working Group Last Call started and finished!
 - One additional typo found

- Referred to IESG
- Advice to clients re: respecting Retry-After
 - Jacob Hoffman-Andrews has a good proposal

ACME Profiles

draft-aaron-acme-profiles-00

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- Published as draft-aaron-acme-profiles-00
 - Adds “profiles” map field to Directory “meta” object
 - Adds “profile” field to Order objects
 - Adds “invalidProfile” error

- Fully implemented in Boulder and Pebble
- Not yet enabled in Let’s Encrypt’s staging environment
- Not yet implemented in public clients

- Augment the directory:

```
Content-Type: application/json
```

```
{  
  "newNonce": "https://example.com/acme/new-nonce",  
  ...,  
  "meta": {  
    ...,  
    "profiles": {  
      "profile1": "https://example.com/docs/profiles#profile1",  
      "profile2": "https://example.com/docs/profiles#profile2",  
    }  
  }  
}
```

- Augment the order request:

```
POST /acme/new-order HTTP/1.1
Host: example.com
Content-Type: application/jose+json

{
  "protected": base64url({...}),
  "payload": base64url({
    "profile": "profile1",
    "identifiers": [{"type": "dns", "value": "example.org"}],
  }),
  "signature": "H6ZXtGjTZyUnPeKn...wEA4Tk1Bdh3e454g"
}
```

- Augment the order response:

```
Content-Type: application/json
```

```
{  
  "status": "valid",  
  "expires": "2025-01-01T12:00:00Z",  
  "profile": "profile1",  
  "identifiers": [{"type": "dns", "value": "example.org"}],  
  "authorizations": ["https://example.com/acme/authz/PAniVnsZcis"],  
  "finalize": "https://example.com/acme/order/E8rfgo/finalize",  
}
```


- Client must only request a profile if one or more are advertised
- Client must not request a profile name that is not advertised
- Server must respond with “invalidProfile” if Client does

- Server should choose a (default) profile for requests that don't specify one