

Alto Service for CDNI FCI Objects

draft-seedorf-cdni-request-routing-alto-08

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New Milestone: ALTO Service for CDNI FCI

Why?

- Finalising work from the CDNI WG
 - CDNI is using ALTO for FCI Interface

What needs to be done?

- Specification of CDNI FCI JSON Object: RFC 8008 DONE
- **Specification of Transport of FCI JSON Object** Work in Progress
 - Objective: Defining a **NEW** Alto Service
 - ALTO CDNI FCI Map Media Type: application/alto-fcimap+json
 - Discussion on new ALTO service more ALTO-specific than CDNI work
 - ALTO WG to check that new ALTO service is compatible with *generic* extensions to the core ALTO protocol
- No objections during ALTO session at IETF96 nor on the mailing list → added new milestone (see previous slide)

RFC 8008: CDNI FCI Objects

```
{
  "capabilities": [
    {
      "capability-type": "FCI.DeliveryProtocol",
      "capability-value": {
        "delivery-protocols": [
          "http/1.1",
        ]
      },
      "footprints": [
        <Footprint objects>
      ]
    }
  ]
}
```

Example Footprint object describing a footprint covering the IP address ranges 192.0.2.0/24 and 198.51.100.0/24:

```
{
  "footprint-type": "ipv4cidr",
  "footprint-value": ["192.0.2.0/24", "198.51.100.0/24"]
}
```

RFC 8008: CDNI FCI Objects

```
{
  "capabilities": [
    {
      "capability-type": "FCI.RedirectionMode",
      "capability-value": {
        "redirection-modes": [
          "DNS-I",
          "HTTP-I"
        ]
      }
      "footprints": [
        <Footprint objects>
      ]
    }
  ]
}
```

New ALTO Service to transport the CDNI FCI objects

Status Quo

- draft-seedorf-cdni-request-routing-alto-08
- Strawman text for server response encoding

Work in Progress

- Need to merge in some content from draft-ma-cdni-capabilities-09
- Essentially, need to say what can be as in RFC7285, and what actually needs to differ and how (for the new ALTO service)

Adopt draft-seedorf-cdni-request-routing-alto-08 as WG item?