# CDNI Request Routing: Footprint and Capabilities Semantics

draft-ietf-cdni-footprint-capabilities-semantics-06
draft-ma-cdni-capabilities-07
draft-seedorf-cdni-request-routing-alto-08

## IETF 92

Jan Seedorf & Kevin J. Ma

and all authors

# draft-ietf-cdni-footprint-capabilities-semantics-06

- Adressed all comments raised in review by Iuniana

- Polished text, references etc.

- Reminder: Decision on ML regarding registries and dependencies with other CDNI interface specifications
    1. The MI/LI/RI/CI drafts remove any place holders for FCI discussion. OK
    2. The FCI semantics draft will define the template for FCI objects. OK
    3. The FCI semantics draft will define a registry for FCI objects.  OK (some changes)
    4. We will publish separate RFCs describing capability advertisement for MI/LI/RI/CI. The FCI objects defined in these RFCs will be registered in the FCI object registry created by the FCI semantics draft. OK (some changes)

--> Ready for WGLC, if WG fine with changes (next slide)

# draft-ietf-cdni-footprint-capabilities-semantics-06

**OLD:**

```
The following table defines the initial capabilities for the standard
partition:

    +--------------------------------------------+----------+
    | Capability                                 | RFC      |
    +--------------------------------------------+----------+
    | application/cdni.FCI.RedirectionMode.v1    | RFCthis  |
    +--------------------------------------------+----------+
```

*MIME Types vs. Registries*

**NEW:**

```
IANA Considerations

This document requests the registration of the following MIME Media
Types under the IANA MIME Media Type registry
(http://www.iana.org/assignments/media-types/index.html).

    application/cdni.FCI.DeliveryProtocol.v1+json

    application/cdni.FCI.AcquisitionProtocol.v1+json

    application/cdni.FCI.RedirectionMode.v1+json
```

```
Type: List of Protocol Types (from the CDNI Metadata Protocols
registry [I-D.ietf-cdni-metadata])
```

```
Type: List of Protocol Types (from the CDNI Metadata Protocols
registry [I-D.ietf-cdni-metadata])
```

```
Type: List of Redirection Modes (from Section 8.1)
```

# draft-ietf-cdni-footprint-capabilities-semantics-06

## Issues/Discussion

- WG aware and fine with these latest changes (MIME Types vs. Registries)?
- Registries spread over Semantics and Metadata Documents
  - Probably confusing for implementers
  - Probably should still proceed as is at this point in time

# draft-ma-cdni-capabilities-07

- Syntax changed to MIME types
- Example on next slide

# CDNI FCI Capabilities Example: Delivery Protocol

```
HTTP/1.1 200 OK
Content-Length: 439
Content-Type: application/alto-fcimap+json
{
  "meta" : {
  },
  "fcimap": [
    { "name": "delivery_protocol",
      "values": [
        "HTTP",
        "RTSP",
        "MMS"




                    OLD



      ]
    },
    { "name": "delivery_protocol",
      "values": [
        "RTMP",
        "HTTPS"
      ],
      "footprint": [
        { "type": "IPv4CIDR",
          "values": [
            "10.1.0.0/16",
            "10.10.10.0/24"
          ]
        }
      ]
    }
  ]
}
```

```
HTTP/1.1 200 OK
Content-Length: 623
Content-Type: application/alto-fcimap+json
{
  "meta" : {
  },
  "fcimap": [
    { "type": "application/cdni.FCI.DeliveryProtocol.v1+json"
      "value": {
        "delivery-protocols": [
          "HTTP1.1"
        ]
      }
    },
    { "type": "application/cdni.FCI.DeliveryProtocol.v1+json"
      "value": {
        "delivery-protocols": [
          "HTTPS1.1"
      ]
    },

                    NEW



      "footprint": [
        { "type": "IPv4CIDR",
          "values": [
            "10.1.0.0/16",
            "10.10.10.0/24"
          ]
        }
      ]
    }
  ]
}
```

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

- Minor changes to refer to overall changes in semantics draft
  - Now refers to 'FCIBase' object in Semantics Draft
- Syntax not adapted to latest changes (yet)
  - Waiting on confirmation from WG that this is the right way to go

# Acknowledgements