

# **draft-ietf-stephan-cdi-usecases-metadata-00**

IETF82 – Taipei

WG CDNi

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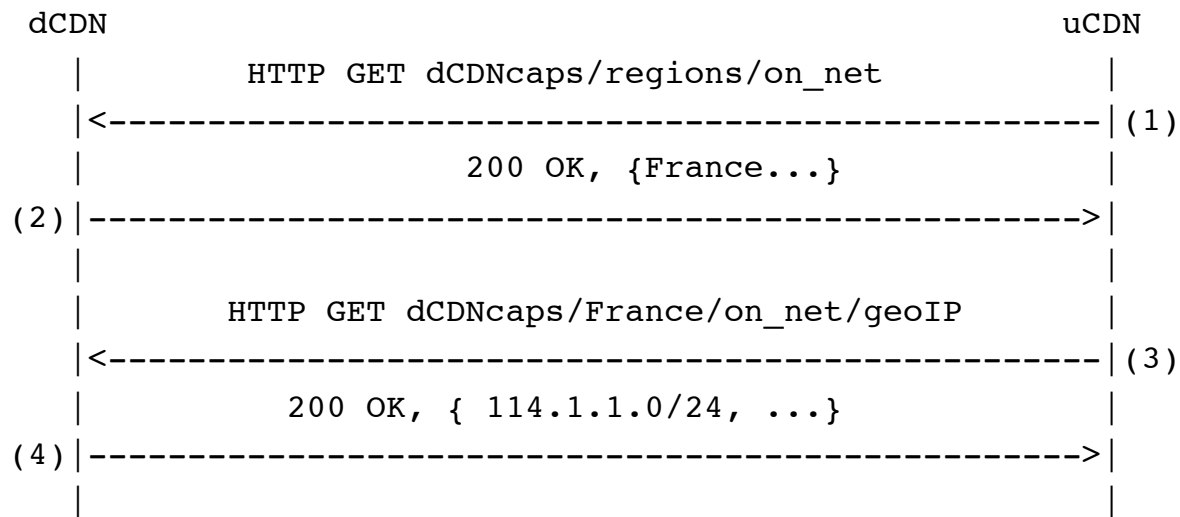
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# Draft Overview

- Proposes a framework for exchanging CDmD
- Checks this approach on CDNi use cases
- Identifies:
  - Operations,
  - Main objects
  - Flag Information elements
- The framework is close to SNIA/CDMI interface

# Assumptions

- The metadata presented are not exchanged only on the metadata interface.



# Framework for exchanging CDmD

- RESTful design
  - HTTP/HTTPS CRUD operations and error code,
  - Create, Retrieve, Update, Delete based on PUT, GET, POST, DELETE
- Push of CDmD by uCDN to dCDN
- Existing Datamodeling Languages
  - XML, JSON, RELAX NG or YANG/NETCONF datamodels
- Objects Extensibility

# CDmD Objects

- Content:
- Standard Region
- Logical Region
- Geoloc
- dCDNcaps
- uCDNcaps

# Flags from the use cases

- Content
  - Auto\_purge\_delay: 'remove the content after delivery + few seconds'
  - immediat\_acquisition: 'acquire this content immediately'
- region
  - on\_net : 'I manage the network of this region'
- dCDNcaps
  - on-the-fly vs batch mode (i.e. a/synchronous actions)
    - Content\_acquisition: 'Support acquisition immediately after reception of the CDmD'
    - CDmD\_deletion: 'Support the deletion of CDmD immediately at the end of the delivery' ,
    - Content\_purge: 'Support automatic purge of content at the end of the delivery'
- uCDNcaps
  - bursty\_interconnection: 'this interconnection is sparsely used'

# Discussions

- RESTful interface ?
- Push mode only?
- Which datamodeling language ?
- Standard administrative names of geographic area like country, region,... like defined ISO 3166-2 ?
- Thoughts on reusing parts of SNIA/CDMI interface ?
- Objects Extensibility need ?

# Next Steps

- 'Move' framework section to the CDNi framework draft;
- Merge with other mD drafts;
- Add links (req#) to the requirement draft;
- Capture new flag information elements
  - Add new use cases
  - Add/discuss other call flows
- Analysis of potential alignment on SNIA/CDMI interface