

# draft-ietf-bertrand-cdni-logging

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WG CDNi

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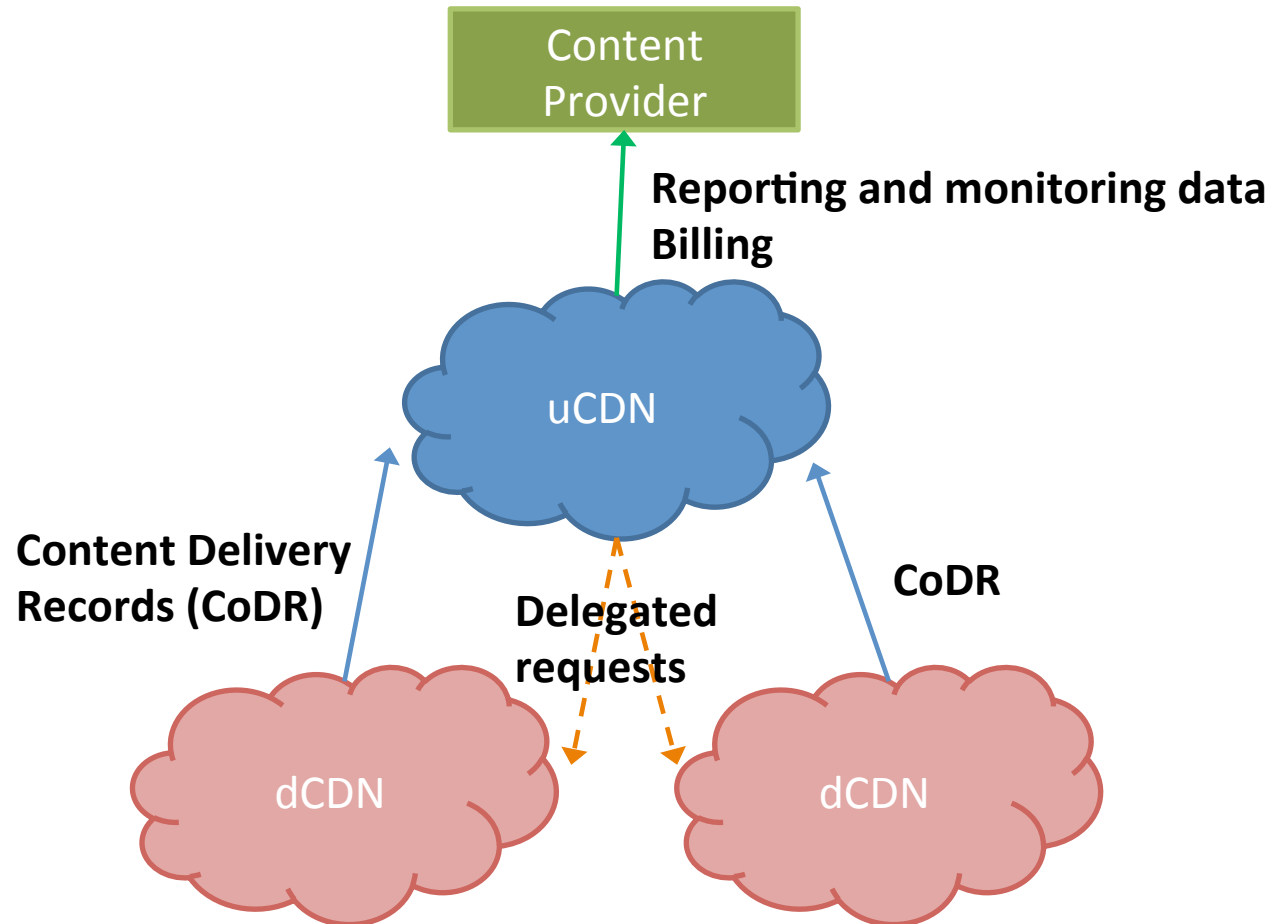
# Draft Overview

- **The draft's purpose is to describe the CDNI Logging interface**
  - **Framework and Architecture**
  - **Information model**
    - Log Information Elements (semantic)
    - Core Logging Records (semantic)
  - **Logging operations:** aggregation, protection, filtering, update and rectification...
  - **Survey** of common logging formats (W3C, Squid...)

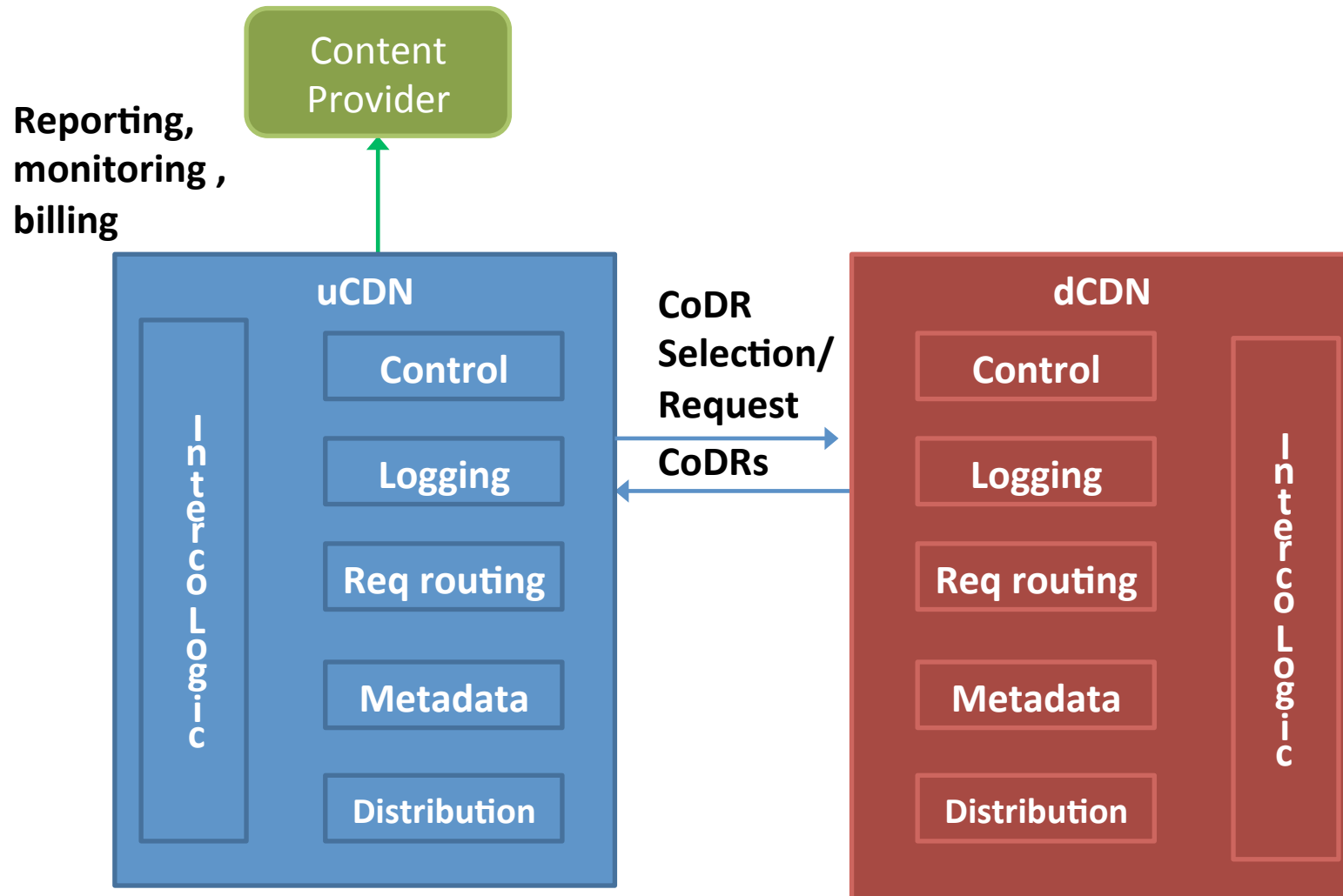
# Rationale for Logging

- **Usages** of CDNI Logging Information By uCDN
  - Maintenance/Debugging
  - Accounting
  - End-User Experience Management
  - Security
- For instance, Logging data enables uCDN to compute **key performance indicators**
  - Example: Number of delivery requests received from end-users in a given region for a given piece of content, during a given period of time (e.g., hour/day/week/month)

# Logging framework



# Logging architecture



# Logging information elements

- The draft defines **information elements** that form the base for useful Logging Records:
  - time, URI\_log, protocol, request method, status, size, uCDN identifier...
  - This list will be extended
- The draft identifies logging records (events logged) and the information that they should include
  - Example: Reception of a content request

# Logging Operations

- Identification of operations to optimize Logging
  - Logging Aggregation, Fragmented Objects
  - Logging Protection / Signing
  - Logging Filtering
  - Logging Update and Rectification

# Survey of access Log formats

- The draft describes log formats commonly used in servers and caching proxies
  - W3C Common Log File (CLF) Format
  - W3C Extended Log File (ELF) Format
  - National Center for Supercomputing Applications (NCSA) common, combined and separate Log Formats
  - Squid 2.0 Native Log Format for Access Logs



# Next steps

- We need to agree on the information model:
  - mandatory/optional information elements
  - mandatory/optional logging records
  - Discuss with authors of [draft-lefaucheur-cdni-logging-delivery-00](#) to converge on the information model
- Next main tasks on [draft-ietf-bertrand-logging](#)
  - consolidate the information elements definitions
  - consolidate the logging records list
  - add a candidate protocol analysis to the draft
  - identify and add potential additional requirements