

# CDNI BoF

draft-jenkins-cdni-problem-statement

Part 2

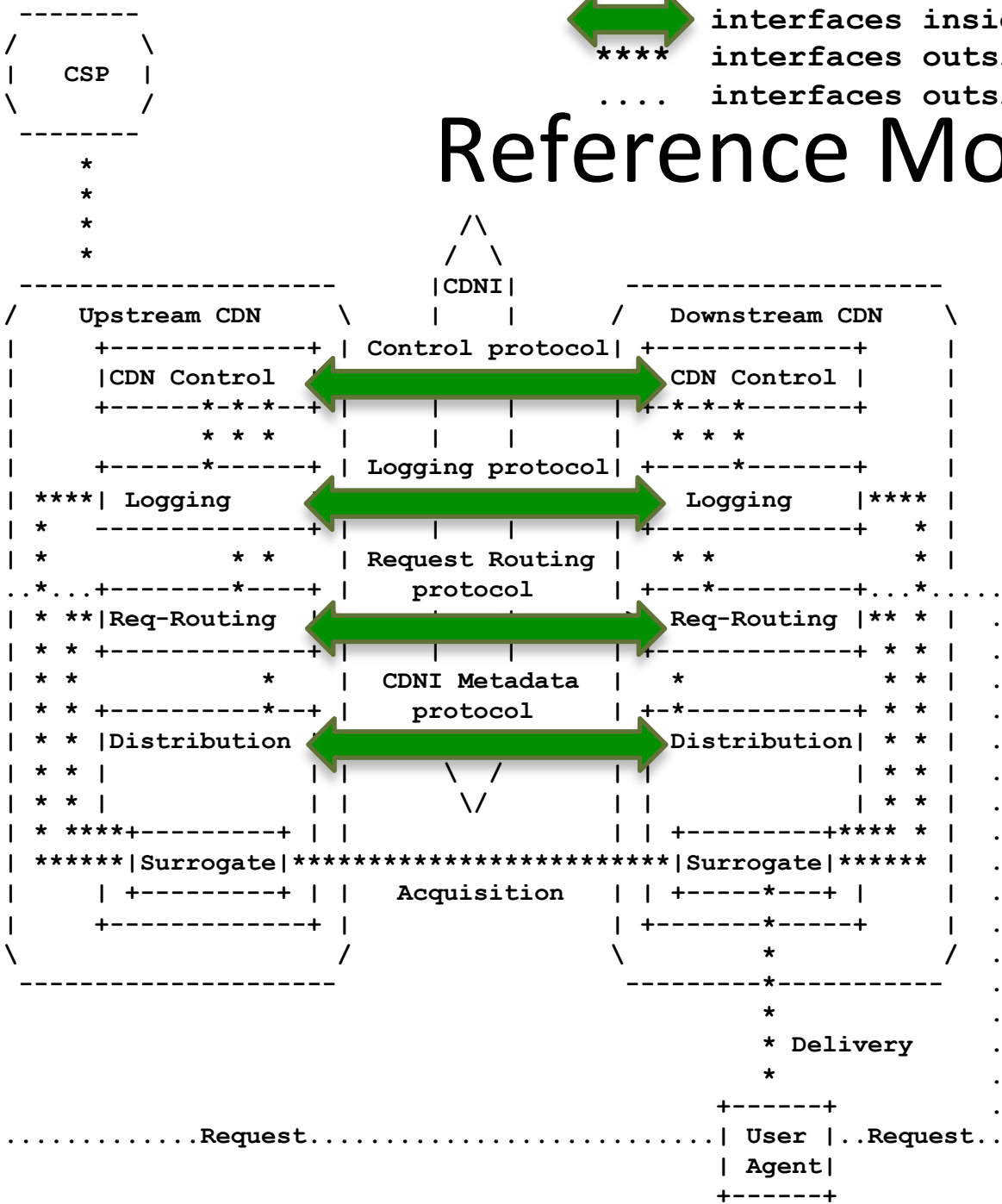
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# Reference Model



- **Control**
  - Content/Metadata invalidation/removal
- **Logging**
  - Access log lines for accounting & monitoring
- **Request Routing**
  - Information to facilitate request routing
- **Distribution Metadata**
  - Properties/policies for distributing & delivering the content

# Non-Goals / Out of Scope

- New session, transport or network protocols
- Interfaces/protocols between
  - CSP & CDN
    - Content ingestion
  - CDN & CDN
    - Content acquisition
  - CDN & End User
    - New delivery protocols
- Content preparation
  - Encoding/Transcoding
- DRM
- Apps consuming CDNI logs
- Internal CDN protocols
- Individual CDN scalability
- Algorithms for
  - Intra-CDN & Inter-CDN request routing
  - Caching

# Priorities

- Industry needs a targeted, deployable solution
  - 18-24 month timeframe
- Initial charter scope
  - Minimum scope for interworking CDNs to allow operators to offer a basic operational service
  - Do not want to boil the ocean
- Enhanced scope
  - Extra stuff
  - Would require re-chartering
- Reuse not reinvention
  - Reuse existing session, transport & application protocols (without changes)
  - Reuse existing schema languages (without changes)
  - We expect to just define the schemas & associated semantics to exchange required information over existing application protocol(s)

# Standards Gap

- IETF CDI WG (Concluded)
- 3GPP
- ISO MPEG
- **ATIS IIF / CoD**
- CableLabs
- **ETSI MCD / TISPAN**
- ITU-T SG13
- OIPF
- TV-Anytime
- SNIA
- IRTF P2PRG
- OCEAN
- Eurescomm P1955

## ATIS

- Has use cases for CDNI
- Do not want to define protocols
- Would like to reuse CDNI
- CDNI drafts cover their needs
  - 1 extra requirement

## ETSI

- Similar to ATIS

Only those in **bold** are working on CDNI related architectures  
The ones working on Metadata do not cover “distribution metadata”