CDNI Working Group
(CDN Interconnect)

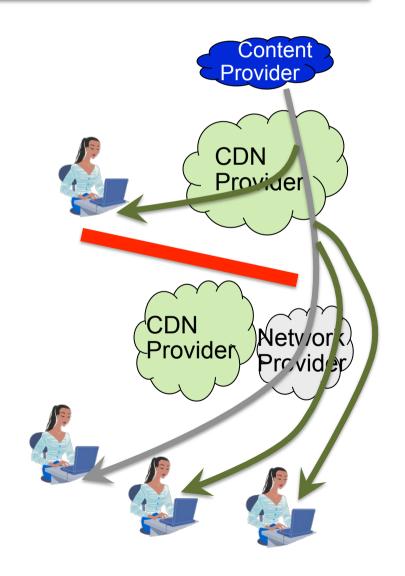Francois Le Faucheur

Richard Woundy

Welcome to CDNI

- Chairs:
  - Francois Le Faucheur
  - Richard Woundy
- Jabber scribe
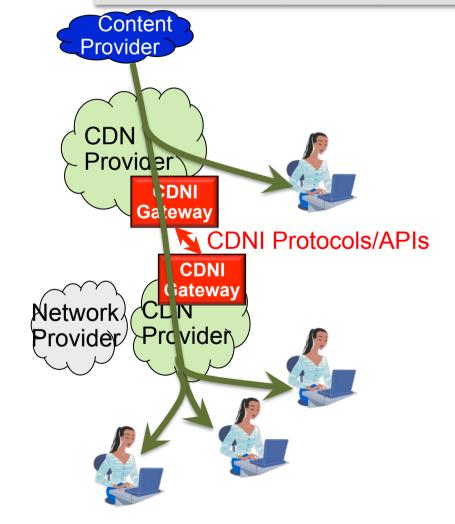 - cdni@jabber.ietf.org
- Notes
- Blue sheet

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CDNI – What is it about?

With CDNI: CDNs could interwork (without changing internal CDN operation)

Content Provider

CDN Provider

CDN Provider

Network Provider

Content Provider

CDN Provider

CDNI Gateway

CDNI Protocols/APIs

CDNI Gateway

Network Provider

CDN Provider

Agenda – 1

- WG introduction & agenda bashing
  - Chairs, 5 min
- Problem statement
  - Ben Niven-Jenkins, 20 min
- Use cases
  - Gilles Bertrand,15 min
  - Serge Manning, 5 min

Agenda – 2

- Requirements
  - Yiu Lee/Kent Leung, 20 min
- Framework
  - Bruce Davie, 20 min
- Request routing
  - Spencer Dawkins, 10 min
  - Martin Stiemerling, 5 min

Agenda – 3

- Terminology
  - Ray van Brandenburg, 5 min (time permitting)
- Discussion on open items and next steps
  - Chairs, 15 min

Working Group Milestones

- Dec 2011 Submit CDNI problem statement to IESG as Informational
- Mar 2012 Submit CDNI use cases to IESG as Informational
- Jun 2012 Submit CDNI framework to IESG as Informational
- Jun 2012 Submit CDNI requirements to IESG as Informational
- Dec 2012 Submit specification of the CDNI Request Routing interface to IESG as Proposed Standard
- Dec 2012 Submit specification of the CDNI Logging interface to IESG as Proposed Standard
- Dec 2012 Submit specification of the CDNI Control interface to IESG as proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard
- Jun 2013 Recharter or dissolve

Open Item 1: Content Adaptation

- A number of requirements/use cases imply Content Adaptation (transcoding, transrating, …) inside CDNs
    - Some aspects of Content Adaptation are irrelevant to CDNI (i.e. internal to a CDN)
        - How to perform/invoke actual Content Adaptation
    - Some aspects of Content Adaptation are potentially relevant to CDNI:
        - How dCDN is made aware of Content Adaptation policy (eg via CDNI Metadata interface)
        - How uCDN is made aware of dCDN Content Adpatation capabilities (eg via CDNI Control interface)
    - Should we include the relevant aspects of Content Adaptation in initial WG scope? No, May, Should, Must?

Open Item 2:
Differentiated Delivery

- A number of requirements/use cases imply Differentiated Delivery of content inside CDNs (Regular vs Premium)
  - Some aspects of Differentiated Delivery do not belong to CDNI scope
    - SLAs for Differentiated Delivery
    - how to realize differentiation inside a CDN
  - Some aspects of Differentiated Delivery are potentially relevant to CDNI
    - How dCDN is made aware of Differentiated Delievery policy (e.g. what is the lowest acceptable downrating for this content) (eg via CDNI metadata)
  - Should we include the relevant aspects of Differentiated Delivery in initial WG scope? No, May, Should, Must?

Open Item 3: DECE/Ultra-Violet

- Charter says:

  "The CDNI WG will also coordinate with relevant groups outside the IETF such as UltraViolet."

- First step is to assess the relevance of Ultra-Violet to CDNI

- Let us know if you can contribute

Next Steps

- Adopt problem-statement and requirements drafts (to be confirmed on mailing list)
- Combine use cases drafts, and solidify framework draft
- Start contributions on candidate protocols for CDNI interfaces and analysis of candidate protocols