

CDNI Working Group (CDN Interconnect)

Francois Le Faucheur

Richard Woundy

Welcome to CDNI

- IETF-85 Meeting Chairs:
 - Francois Le Faucheur
 - Ray van Brandenburg (standing in for Richard Woundy)
- Two sessions
 - Wed 13:00-14:30
 - Thu 13:00-15:00
- Using WebEx instead of Jabber
 - <http://www.ietf.org/meeting/85/remote-participation.html>
- Meeting minutes
- Blue sheets

Note Well

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 - The IESG, or any member thereof on behalf of the IESG
 - Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
 - Any IETF working group or portion thereof
 - The IAB or any member thereof on behalf of the IAB
 - The RFC Editor or the Internet-Drafts function
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- A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

Agenda (1/2)

WEDNESDAY, November 7, 2012, 13:00-14:30

Opening

- Agenda bashing & Introduction: Chairs (5')
- Document Status Update (cdni-problem-statement, cdni-use-cases, cdni-requirements, cdni-has): Chairs (10')

Framework and Related documents

- Framework, draft-ietf-cdni-framework-01: Larry P (10')
- Content De-duplication for CDNi Optimization, draft-jin-cdni-content-deduplication-optimization-03: Bhumi P K (10')
- Best practices and Requirements for delivering Long Tail personalized content delivery over CDN Interconnections, draft-krishnan-cdni-long-tail-04: Ramki K (10')

CDNI Metadata

- CDNI Metadata (merged proposal), draft-ietf-cdni-metadata-00: Matt C (10')
- CDNI Metadata - placeholder for open discussion: (10')

CDNI Logging

- CDNI Logging , draft-bertrand-cdni-logging-02: Emile S (10')
- CDNI Logging - placeholder for open discussion: (10')

CDNI Triggers (may move to Thursday session)

- CDNI Triggers , draft-murray-cdni-triggers-01: Rob M (10')

Agenda (2/2)

THURSDAY, November 8, 2012, 13:00-15:00

CDNI URI Signing

- URI Signing for CDNI, draft-leung-cdni-uri-signing-01: Kent L (10')

CDNI Request Routing/Redirection

- Routing Request Redirection for CDN Interconnection, draft-he-cdni-routing-request-redirection-03: Ben Niven-Jenkins (10')
- CDNI Request Routing Redirection with Loop Prevention, draft-choi-cdni-req-routing-redir-loop-prevention-01: Taesang C (10')
- CDNI Request Routing/Redirection - placeholder for open discussion: (10 mins)

CDNI Request Routing/Footprint and Capabilities

- CDNI Request Routing: Footprint and Capabilities Semantics (update on Semantics I-D and progress of Design Team), draft-spp-cdni-rr-foot-cap-semantics-02: Jan S (20')
- CDNI Capabilities Interface, draft-ma-cdni-capabilities-00: Kevin a (10')
- CDNI Request Routing: Footprint and Capabilities Semantics - open discussion: (10')

CDNI Experiments (If there is remaining time)

- Experiments on HAS, draft-famaey-cdni-has-experiments-00, Ray v B: (5')
- Intra-CDN Provider CDNI Experiment, draft-chen-cdni-intra-cdn-provider-cdni-experiment-00, Bhumip Khasnabish: (5 mins)

Others (If there is remaining time)

- CDNI Req Routing w ALTO, draft-seedorf-cdni-request-routing-alto-02: Jan S (5')
- CDNI Req Routing w ALTO, draft-seedorf-cdni-request-routing-alto-02: Jan S (5')

Closing

- Conclusions and next steps: Chairs (10')

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/Redirection 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 Request Routing/Footprint&Capabilities interface to IESG as Proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard

Working Group Milestones

- RFC 6707, Hurray!

- **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
- Dec 2012 Submit
 - In Author-48hours review state,
 - will come out as RFC 6770Redirection inter
- 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 Request Routing/
Footprint&Capabilities interface to IESG as Proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard

- Back to progress now that HAS decisions have been made
- Possibly affected by discussions on content deduplication
- Will not meet initial target date, but we could target WG Last Call early 2013

• Dec 2011 Submit problem statement to IESG as Informational

• Mar 2012 Submit use cases to IESG as Informational

• **Jun 2012 Submit CDNI framework to IESG as Informational**

- draft-brandenburg-cdni-has will be revved up and submitted for publication as an Individuals Submission (Informational Track)
- Records useful analysis that was used as an input to IETF-84 decision on HAS
- May be useful material if/when WG re-charters

IESG as

- Dec 2012 Submit specification of the CDNI Control interface to IESG as proposed Standard
- Jun 2013 Submit specification of the CDNI Request Routing/ Footprint&Capabilities interface to IESG as Proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard

IETF-85 Jun 2013 Recharter or dissolve

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- New version will be posted after IETF-85 to reflect WG decisions on HAS, on Metadata, on URI Signing

proposed Standard

- Jun 2013 Submit specification of the CDNI Request Routing/Footprint&Capabilities interface to IESG as Proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard

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Working Group Milestones

- Dec 2011 Submit CDNI problem statement to IESG as Informational
- Mar 2012 Submit CDNI problem statement to IESG as Informational
 - Revved up twice since previous IETF
 - Will not meet charter deadline
 - Needs attention
- Jun 2012 Submit CDNI problem statement to IESG as Informational
- Jun 2012 Submit CDNI problem statement to IESG as Informational
- Dec 2012 Submit specification of the CDNI Request Routing/Redirection 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 CDNI problem statement to IESG as Informational
 - trigger I-D revved up
 - Will not meet charter deadline
 - Needs attention
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard

Working Group Milestones

- Dec 2011 Submit CDNI problem statement to IESG as Informational
- Mar 2012 Submit CDNI problem statement to IESG as Informational
 - One Individual I-D Revved up
 - Will not meet charter deadline
 - Needs attention
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- Jun 2012 Submit CDNI problem statement to IESG as Informational
- Dec 2012 Submit specification of the CDNI Request Routing/Redirection interface to IESG as Proposed Standard
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- Jun 2013 Submit specification of the CDNI Request Routing/Footprint&Capabilities interface to IESG as Proposed Standard
- Jun 2013 Submit specification of the CDNI Metadata Distribution interface to IESG as Proposed Standard
 - (too) many I-Ds; more progress needed from design team
 - Will not meet charter deadline
- Jun 2013 Recharter or dissolve

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- The multiple proposals have all converged into our WG document
- On track to meet charter deadline

Jan 2013 Submit specification of the CDNI Request Routing/
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- Jun 2013 Submit specification of the CDNI Metadata Distribution
interface to IESG as Proposed Standard

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Acronyms

- Several documents (framework, request-routing, ...) refer to the CDNI interfaces with various acronyms
- We need to agree on a set of acronyms e.g.:
 - CCI: CDNI Control Interface
 - CMI: CDNI Metadata distribution Interface
 - CLI: CDNI Logging Interface
 - CRI: CDNI request routing/Redirection Interface
 - CFI: CDNI request routing/Footprint & capabilities advertisement Interface
 - Or RR/RI and RR/FCAI ? RR/RI and RR/FI ? RRRI and RRFI ?
- Will poll the list

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Others (If there is remaining time)

- CDNI Control Operation, draft-stephan-cdni-control-operations-00.txt: Emile S (5')
- CDNI Req Routing w ALTO, draft-seedorf-cdni-request-routing-alto-02: Jan S (5')

Closing

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Closing & Next Steps

- **Framework**: New rev needed to incorporate HAS conclusions + comments on list (+ high-level discussion of content de-duplication? + ?)
 - should be ready for WG Last Call then?
- **Requirements**: New rev needed to incorporate HAS conclusions + latest on Metadata, Logging, URI Signing
 - Review volunteers? for current or next rev?
- **Metadata**: New rev to address open issues + capabilities
- **Control/Trigger**: Relationship between cdni-triggers and Control Interface?
 - more attention needed on this topic

Closing & Next Steps

- **Logging**: New rev to come out in Nov/Dec
 - more attention needed on this topic
- **Request Routing/Redirection**: New rev needed to flesh out interface
- **Request Routing/Footprint & Capabilities**:
 - progress on semantics needed from Design Team
 - WG need to conclude on semantics before spending much time on specific proposals (eg BGP, ALTO)
- **URI Signing**:
 - Additional WG deliverable?