

CDNI Working Group (CDN Interconnection)

Francois Le Faucheur

Daryl Malas

Welcome to CDNI

- IETF-90 Meeting Chairs:
 - Francois Le Faucheur
 - Daryl Malas
- One session
 - Thursday, July 24, 2014, 15:20-17:20, Salon B
- Using WebEx (no Jabber)
 - <http://www.ietf.org/meeting/90/remote-participation.html>
- Minute takers?
- Blue sheets

Note Well

This summary is only meant to point you in the right direction, and doesn't have all the nuances. The IETF's IPR Policy is set forth in BCP 79; please read it carefully.

The brief summary:

- ❖ **By participating with the IETF, you agree to follow IETF processes.**
- ❖ **If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.**
- ❖ **You understand that meetings might be recorded, broadcast, and publicly archived.**

For further information, talk to a chair, ask an Area Director, or review the following:

BCP 9 (on the Internet Standards Process)

BCP 25 (on the Working Group processes)

BCP 78 (on the IETF Trust)

BCP 79 (on Intellectual Property Rights in the IETF)

Agenda (1/2)

- **Opening**
 - Agenda bashing & introduction: Chairs (5 mins)
 - Document status update: Chairs (10 mins)
- **CDNI Metadata**
 - CDNI Metadata, draft-ietf-cdni-metadata-07: Ben Niven-Jenkins (15 mins)
- **CDNI Logging**
 - CDNI Logging, draft-ietf-cdni-logging-12: Iuniana Oprescu (10 mins)
- **CDNI Footprint & Capabilities Advertisement interface**
 - Footprint & Capabilities Semantics ,
draft-ietf-cdni-footprint-capabilities-semantic-03: Kevin Ma (10 mins)
 - Footprint & Capabilities Advertisement Interface (ALTO Service),
draft-seedorf-cdni-request-routing-alto-07: Jan Seedorf (10 mins)
 - Footprint & Capabilities Advertisement Interface (Objects),
draft-ma-cdni-capabilities-06, : Kevin Ma (10 mins)
 - Footprint & Capabilities Advertisement Interface, candidate protocol discussion (10 mins)

Agenda (2/2)

- **CDNI Request Routing Redirection interface**
 - Routing Request Redirection for CDN Interconnection, draft-ietf-cdni-redirection-02: Ben Niven-Jenkins (10 mins)
- **CDNI Control interface**
 - CDNI Control - Triggers, draft-ietf-cdni-control-triggers-03: Rob Murray (10 mins)
- **CDNI URI Signing**
 - URI Signing for CDNI (including debrief on MPEG DASH work on URI signing), draft-ietf-cdni-uri-signing-00: Kent Leung (10 mins)
- **Closing**
 - Conclusions and next steps: Chairs (10 mins)

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- **CDNI Metadata**

- CDNI Metadata, draft-ietf-cdni-metadata-07: Ben Niven-Jenkins (15 mins)

- **CDNI Logging**

- CDNI Logging, draft-ietf-cdni-logging-12: Iuniana Oprescu (10 mins)

- **CDNI Footprint & Capabilities Advertisement interface**

- Footprint & Capabilities Semantics ,
draft-ietf-cdni-footprint-capabilities-semantics-03: Kevin Ma (10 mins)
- Footprint & Capabilities Advertisement Interface (ALTO Service),
draft-seedorf-cdni-request-routing-alto-07: Jan Seedorf (10 mins)
- Footprint & Capabilities Advertisement Interface (Objects),
draft-ma-cdni-capabilities-06, : Kevin Ma (10 mins)
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draft-ietf-cdni-footprint-capabilities-semantics-03: Kevin Ma (10 mins)
- Footprint & Capabilities Advertisement Interface (ALTO Service),
draft-seedorf-cdni-request-routing-alto-07: Jan Seedorf (10 mins)
- Footprint & Capabilities Advertisement Interface (Objects),
draft-ma-cdni-capabilities-06, : Kevin Ma (10 mins)
- Footprint & Capabilities Advertisement Interface, candidate protocol discussion (10 mins)

Working Group Milestones: Published RFCs

- RFC 6707: CDNI Problem Statement (Informational)
- RFC 6707: CDNI Use Cases (Informational)
- RFC 6983 : Models for HTTP-Adaptive-Streaming-Aware CDNI (Informational/Independent Submission)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- In “RFC Editor Queue”
- CDNI Logging interface : Dec 2013 (PS)
- CDNI Metadata interface: Dec 2013 (PS)
- CDNI Redirection interface: April 2014 (PS)
- CDNI Control interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- In “RFC Editor Queue”
- CDNI Metadata interface: Dec 2013 (PS)
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- CDNI Control interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- CDNI Logging interface : Dec 2013 (PS)
- WG Last Call completed
- Extensive Early Ops-Dir Review (by David Harrington)
- Review comments addressed
- CDNI Control Interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- CDNI Logging interface : Dec 2013 (PS)
- CDNI Metadata interface: Dec 2013 (PS)

- Detailed WG Chair review completed
- 2/3 of comments addressed

- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- Additional editor (Ray van Brandenburg) to assist
- Resumed progress

• CDNI Metadata Interface: Dec 2013 (PS)

- CDNI Redirection interface: April 2014 (PS)
- CDNI Control interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- As per Chairs request, detailed review conducted by Kevin Ma
- Review comments addressed
- Ready for WG Last Call?
- CDNI Control interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- CDNI Logging interface : Dec 2013 (PS)
- CDNI Metadata interface : Dec 2013 (PS)
- (• To be discussed during WG)
- CDNI Control Interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

Working Group Milestones: Remaining Milestones

- CDNI Requirements : Sep 2013 (Informational)
- CDNI Framework: Dec 2013 (Informational)
- CDNI Logging interface : Dec 2013 (PS)
- CDNI Metadata interface: Dec 2013 (PS)
- CDNI Redirection interface: April 2014 (PS)
- CDNI Control interface (Triggers) : April 2014 (PS)
- CDNI Footprint & Capabilities Adv Iface: Sep 2014 (PS)
- URI Signing for CDNI: Sep 2014 (PS)

- Adopted as a WG document

Beyond Working Group Milestones

- CDNI Rate Pacing

- No update since IETF-89

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 - CDNI Metadata, draft-ietf-cdni-metadata-06: Kevin Ma (10 mins)
- **CDNI Logging**
 - CDNI Logging, draft-ietf-cdni-logging-10: Iuniana Oprescu (10 mins)
- **CDNI Footprint & Capabilities Advertisement interface**
 - Footprint & Capabilities Semantics ,
draft-ietf-cdni-footprint-capabilities-semantics-02: Jan Seedorf (10 mins)
 - Footprint & Capabilities Advertisement with ALTO ,
draft-seedorf-cdni-request-routing-alto-06: Jan Seedorf (5 mins)
 - Footprint & Capabilities Advertisement Interface, Matt Caulfield' candidate protocol
analysis: Daryl Malas (10 mins)
 - Footprint & Capabilities Advertisement Interface, candidate protocol discussion (10 mins)

Agenda (2/2)

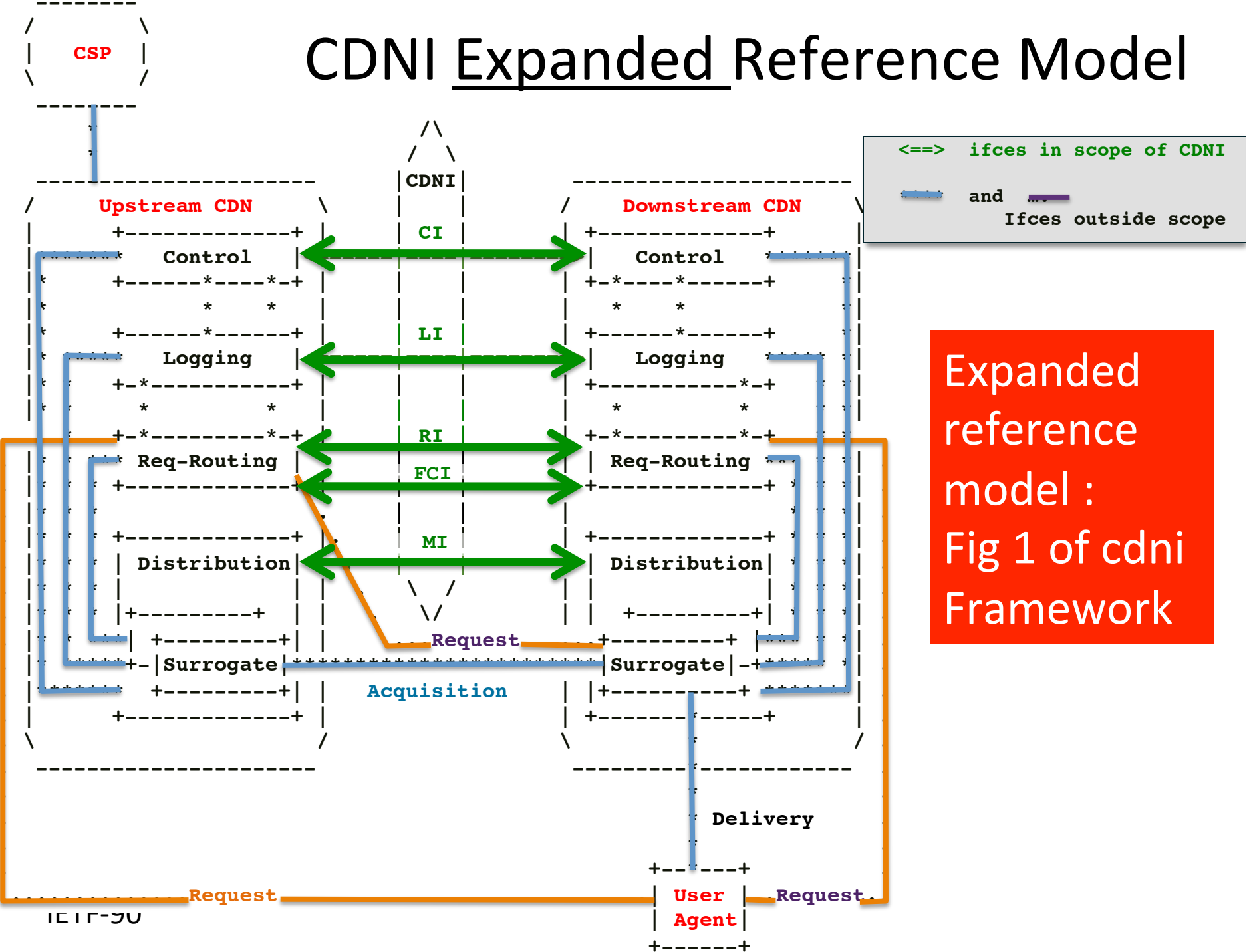
- **CDNI Request Routing Redirection interface**
 - Routing Request Redirection for CDN Interconnection, draft-ietf-cdni-redirection-01: Ben Niven-Jenkins (5 mins)
- **CDNI Control interface**
 - CDNI Control - Triggers, draft-ietf-cdni-control-triggers-02: Rob Murray (10 mins)
- **CDNI URI Signing**
 - URI Signing for CDNI, draft-leung-cdni-uri-signing-04: Kent Leung (10 mins)
- **CDNI Rate Pacing**
 - CDNI Rate Pacing, draft-caulfield-cdni-rate-pacing-01: Francois Le Faucheur, on behalf of Matt Caulfield (10 mins)
- **Closing**
 - Conclusions and next steps: Chairs (10 mins)

Back-up Slides

Final Interface Names

- **CI:** CDNI Control interface
- **MI:** CDNI Metadata interface
- **LI:** CDNI Logging interface
- **RI:** CDNI Request Routing Redirection interface
- **FCI:** CDNI Footprint & Capabilities Advertisement interface

CDNI Expanded Reference Model



Expanded reference model :
Fig 1 of cdni Framework