

# CDNI Working Group (CDN Interconnect)

Francois Le Faucheur

Daryl Malas

# Welcome to CDNI

- IETF-87 Meeting Chairs:
  - Francois Le Faucheur
  - Daryl Malas
- Two sessions
  - Tuesday 15:20-16:50
  - Thursday 17:00-18:30
- Using WebEx instead of Jabber
  - <http://www.ietf.org/meeting/87/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)

**TUESDAY, July 30, 2013, 15:20-16:50, Potsdam 3**

## **Opening**

Agenda bashing & introduction: Chairs (5 mins)

Document status update: Chairs (10 mins)

## **CDNI Framework**

CDNI Framework, draft-ietf-cdni-framework-03: Matt (10 mins)

## **CDNI Metadata**

CDNI Metadata interface, draft-ietf-cdni-metadata-02: Matt (15 mins)

## **CDNI Logging**

CDNI Logging interface, draft-ietf-cdni-logging-05: Iuniana (10 mins)

CDNI Logging - open discussion (10 mins)

## **CDNI Request Routing Redirection interface and Request interface**

CDNI Redirection interface, draft-ietf-cdni-redirection-00: Ben (5 mins)

Request interface for CDNI, draft-choi-cdni-req-intf-00: Taesang (10 mins)

CDNI Request Routing/Redirection and Request interface- discussion: (10 mins)

# Agenda (2/2)

**THURSDAY, August 1, 2013, 17:00-18:30, Potsdam 2**

## **CDNI Footprint & Capabilities Advertisement interface**

Footprint and Capabilities Semantics , draft-ietf-cdni-footprint-capabilities-semantics-00: Jan (20 mins)

Footprint & Capabilities Advertisement with ALTO , draft-seedorf-cdni-request-routing-alto-04: Jan (10 mins)

Footprint and Capabilities - open discussion: (10 mins)

## **CDNI URI Signing**

URI Signing for CDNI, (draft-leung-cdni-uri-signing-02): Kent (15 mins)

## **CDNI Control interface**

CDNI Control - Initialization and Bootstrapping, draft-choi-cdni-control-init-bootstrapping-01: Taesang (10 mins)

## **Closing**

Conclusions and next steps: Chairs (10 mins)

# 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**

IETF-87 **Jun 2013 Recharter or dissolve**

# 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/

draft-brandenburg-cdni-has published as RFC 6983 ✓  
(Individuals Draft, Informational Track)

Hurray again !!!

- 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-87 Jun 2013 Recharter or dissolve

# 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**

- All known open items discussed and resolved (see Matt's presentation)
- Will issue WG Last Call as soon as (belated) new rev is published

- **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-87 **Jun 2013 Recharter or dissolve**



# 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

- WG Last Call carried out in April 2013
- Daryl performed a Chair review in May 2013
- 2 New versions posted addressing review comments, ID Nits, cleaned up references
- 1 IPR disclosure (<https://datatracker.ietf.org/ipr/2124/>)  
*“relates to a single requirement (SEC-3) and is not required to meet that requirement, but rather might potentially be used in a hypothetical solution to meet that requirement.”*
- New version to come out with final “interface names” + expanded reference model
- Then will go to IESG review

# 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

- WG document
- Limited progress since Orlando
- New rev due
- See Ben's presentation

~~Footprint&Capabilities interface to IESG as Proposed Standard~~

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

IETF-87 Jun 2013 Recharter or dissolve

# 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**

- WG document
- Significant progress since Orlando
- 3 revs posted since Orlando
- Only a few remaining points to address in new rev (e.g non-repudiation) + CDNI Logging feed/pull to stabilize

**interface to IESG as Proposed Standard**

**IETF-87 Jun 2013 Recharter or dissolve**

# Working Group Milestones

- Control interface/Trigger:
  - WG document
  - Limited progress since Orlando:
    - name changed to "Control Interface / Triggers" (CI/T)
    - CCID can be used to refer to content for invalidate/purge
    - updated refs, alignment to cdni-requirements
  - Remaining work:
    - Align with other interfaces as they stabilize
- **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**
- **Jun 2013 Recharter or dissolve**

# 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

- Semantics:
  - WG document
  - Progressing, key issues sorted out
  - See Jan's presentation
- Protocol:
  - One proposal for FCI over ALTO
  - See Jan's presentation

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-87 Jun 2013 Recharter or dissolve

# 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/

- WG Document
- Only one remaining issue to be addressed in next rev (see Matt's presentation)
- Aim for WG Last Call once this issue is closed?

Footprint&Capabilities interface to IESG as Proposed Standard

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

IETF-87 Jun 2013 Recharter or dissolve

# Beyond Working Group Milestones

- **URI Signing:**
  - See Kent's presentation. We need to decide whether we want to add a deliverable for this.
- **Request Interface and Redirection Loop Prevention**
  - See Taesang's presentation. We need to decide how to handle this in WG.
- **Control interface/Bootstrapping:**
  - See Taesang's presentation. Progressing separately from "Control Interface/Trigger" so they can progress at their own pace.

# Interface Acronyms

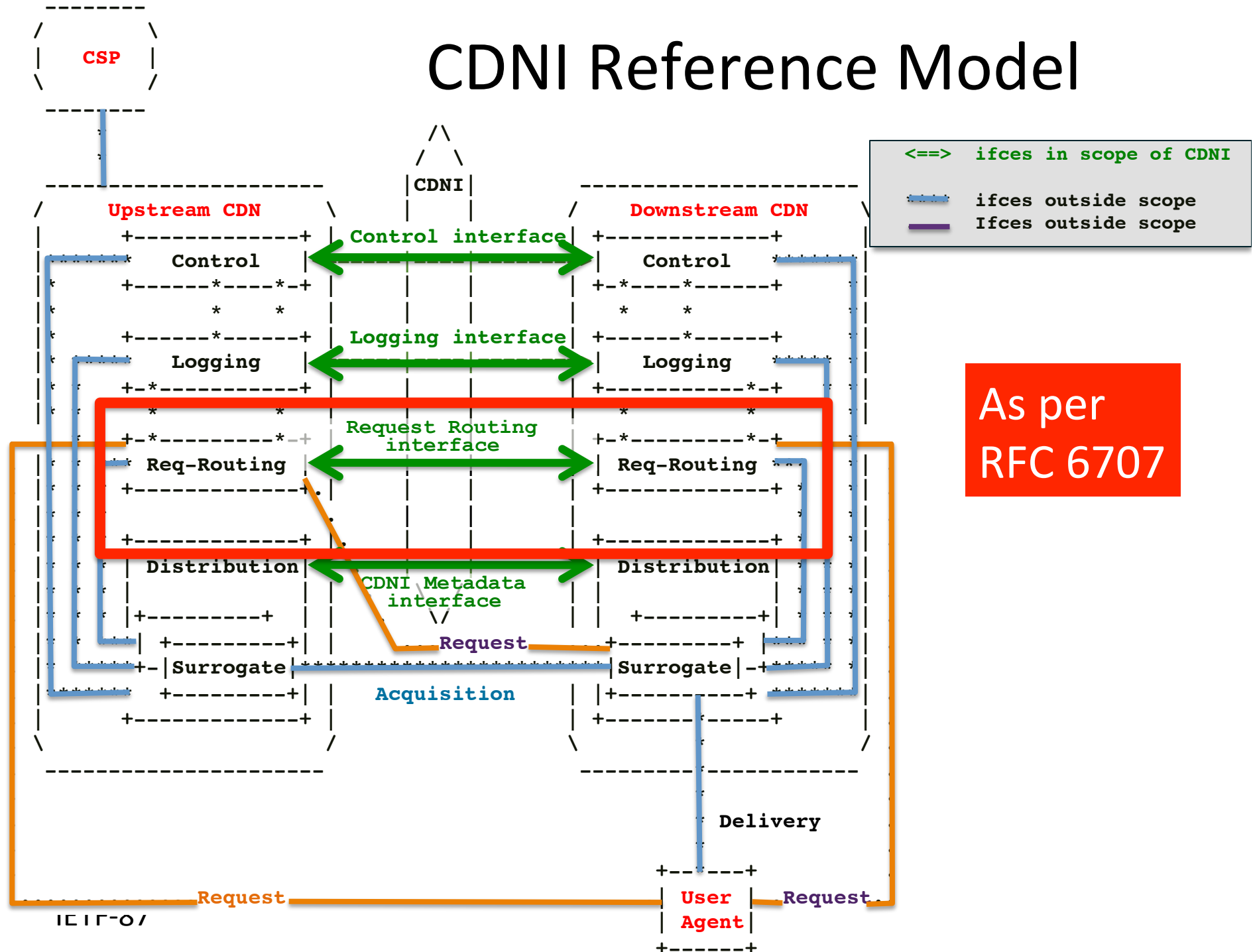
- Agreed acronyms:
  - **CI**: CDNI Control interface
  - **MI**: CDNI Metadata Interface
  - **LI**: CDNI Logging Interface
  - **RI**: CDNI Request Routing Redirection interface
  - **FCI**: CDNI Footprint & Capabilities Advertisement interface



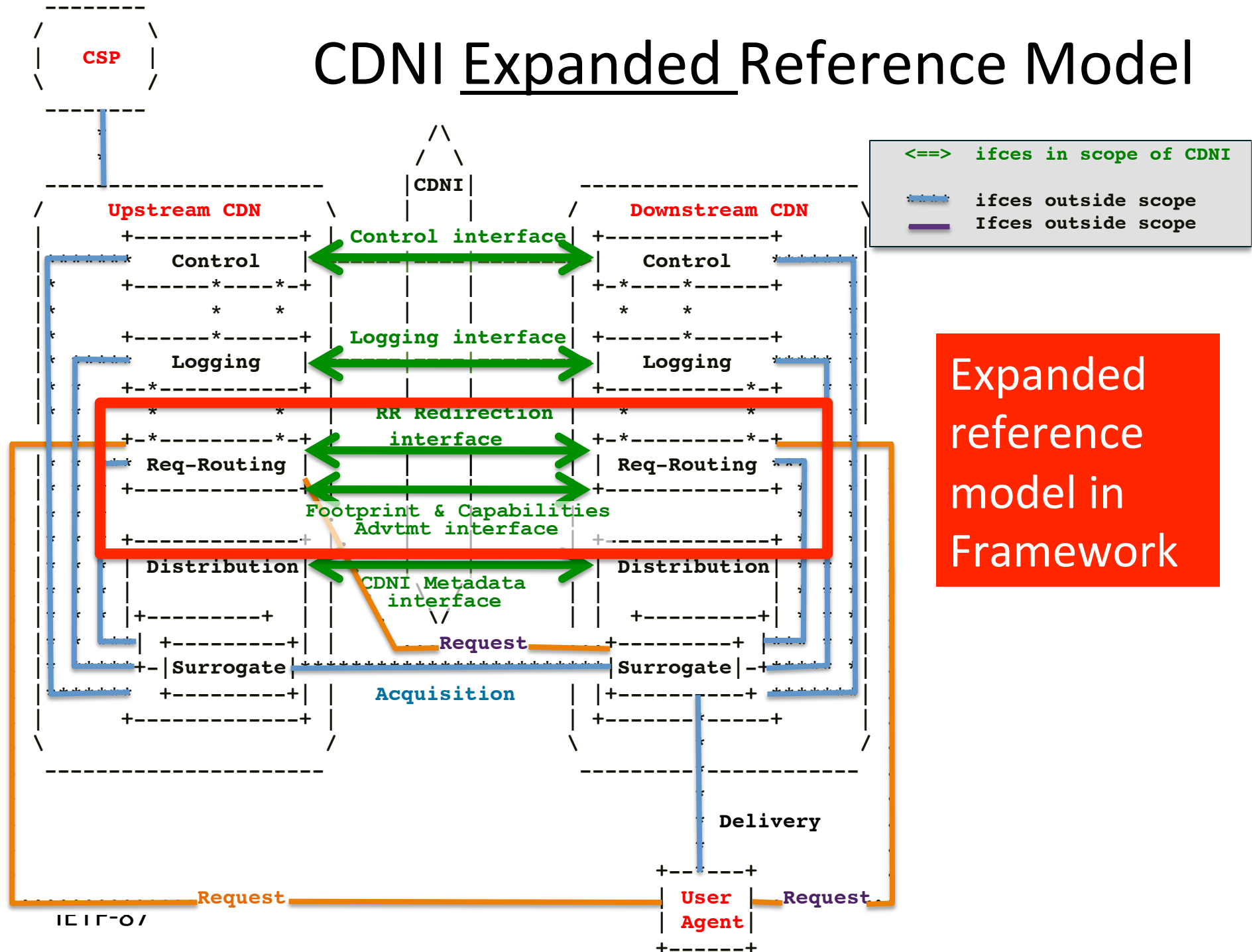
# Interface Acronyms

- Agreed acronyms:
  - **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 Reference Model



# CDNI Expanded Reference Model



# Instructions to WG document editors

- Run I-D Nit tool
- Align to final interface names
- Refer or use the expanded reference model in cdni-framework

# Agenda (1/2)

**TUESDAY, July 30, 2013, 15:20-16:50, Potsdam 3**

## **Opening**

Agenda bashing & introduction: Chairs (5 mins)

Document status update: Chairs (10 mins)

## **CDNI Framework**

CDNI Framework, draft-ietf-cdni-framework-03: Matt (10 mins)

## **CDNI Metadata**

CDNI Metadata interface, draft-ietf-cdni-metadata-02: Matt (15 mins)

## **CDNI Logging**

CDNI Logging interface, draft-ietf-cdni-logging-05: Iuniana (10 mins)

CDNI Logging - open discussion (10 mins)

## **CDNI Request Routing Redirection interface and Request interface**

CDNI Redirection interface, draft-ietf-cdni-redirection-00: Ben (5 mins)

Request interface for CDNI, draft-choi-cdni-req-intf-00: Taesang (10 mins)

CDNI Request Routing/Redirection and Request interface- discussion: (10 mins)

# Agenda (2/2)

**THURSDAY, August 1, 2013, 17:00-18:30, Potsdam 2**

## **CDNI Footprint & Capabilities Advertisement interface**

Footprint and Capabilities Semantics , draft-ietf-cdni-footprint-capabilities-semantics-00: Jan (20 mins)

Footprint & Capabilities Advertisement with ALTO , draft-seedorf-cdni-request-routing-alto-04: Jan (10 mins)

Footprint and Capabilities - open discussion: (10 mins)

## **CDNI URI Signing**

URI Signing for CDNI, (draft-leung-cdni-uri-signing-02): Kent (15 mins)

## **CDNI Control interface**

CDNI Control - Initialization and Bootstrapping, draft-choi-cdni-control-init-bootstrapping-01: Taesang (10 mins)

## **Closing**

Conclusions and next steps: Chairs (10 mins)