

ADD IETF108 Notes

ADD Agenda for IETF108

Group: Adaptive DNS Discovery
Responsible AD: Barry Leiba

Chairs: David Lawrence, Glenn Deen

Session: Thursday July 30,2020 14:10-15:50 UTC

5min Welcome to ADD WG [Chairs]

Please visit the September Interim Poll Doodle. (Already open for responses)

<https://doodle.com/poll/zyppxqte8pcwex3p>

Agenda Bash [Chairs]

Discovery Topics

#1 - 10min DNS Resolver Discovery Protocol (DRDP) [Daniel Migault]

Draft: draft-mglt-add-rdp-02

#2 - 10min Adaptive DNS Resolver Discovery [Tommy Pauly]

Draft: draft-pauly-add-resolver-discovery-01

#3 - 10min DoH Preference Hints for HTTP [Nick Sullivan]

Draft: draft-schinazi-httpbis-doh-preference-hints-02

#4 - 10min A Bootstrapping Procedure to Discover and Authenticate DoT/DoH servers for IoT and BYOD Devices [Dan Wing]

Draft: draft-reddy-add-iot-byod-bootstrap-00

#5 - 10min Encrypted DNS Discovery and Deployment Considerations for Home Networks [Mohamed Boucadair]

Draft: draft-btw-add-home-07

Resolver Information Topics

#6 - 10min DNS Server Selection: DNS Server Information with Assertion Token [Tirumaleswar Reddy]

Draft: draft-reddy-add-server-policy-selection-03

Deployments, Considerations and Observations

#7 - 5min Practical Observations from Encrypted DNS Deployments by Network Operators [Andrew Campling]

Draft: draft-campling-operator-observations-00

#8 - 10min A Proposal for a DoH Discovery Trial [Neil Cook]

Draft: draft-cook-doh-discovery-trial-00

Agenda End

Notes

Chairs

Glenn: Please fill in Doodle poll for interim. Link to poll was posted in jabber and emailed to the list. And is in the agenda.

There was no agenda bashing

DNS Resolver Discovery Protocol (DRDP) [Daniel Migault]

Draft: draft-mglt-add-rdp-02

Slides

David (Chair): If you have feedback, please send to list. We need to keep to the schedule.

Adaptive DNS Resolver Discovery [Tommy Pauly]

Draft: draft-pauly-add-resolver-discovery-01

Slides

David (Chair): We are out of time. Please send discussion to

the list.

DoH Preference Hints for HTTP [Nick Sullivan]

Draft: draft-schinazi-httpbis-doh-preference-hints-02

[Slides](#)

A Bootstrapping Procedure to Discover and Authenticate DoT/DoH servers for IoT and BYOD Devices [Dan Wing]

Draft: draft-reddy-add-iot-byod-bootstrap-00

[Slides](#)

David (Chair): We have time for feedback. About 5 minutes.

Sam Weiler: (re: ??) I wonder if it also runs the risk of fingerprinting.

Tale: we are definitely taking note of the conversation happening in Jabber about trying to find a useful path among all the drafts. We will be working on how to map a path forward.

Encrypted DNS Discovery and Deployment Considerations for Home Networks [Mohamed Boucadair]

Draft: draft-btw-add-home-07

[Slides](#)

DNS Server Selection: DNS Server Information with Assertion Token [Tirumaleswar Reddy]

Draft: draft-reddy-add-server-policy-selection-03

[slides](#)

Practical Observations from Encrypted DNS Deployments by Network Operators [Andrew Campling]

Draft: draft-campling-operator-observations-00

[slides](#)

A Proposal for a DoH Discovery Trial [Neil Cook]

Draft: draft-cook-doh-discovery-trial-00

[slides](#)

Discussion at End

There was time left at end for people to discuss any of the material presented during this session.

Glenn (Chair): The interim is intended to give us time to have the argument and come up with some proposals. Sit down, spend the time it takes to discuss, and then move forward. That's what Dave and I have been thinking.

Dave (Chair): We are taking note of the feeling that this was not a useful session. We do have a 25-minute block now for discussion. We recognize that this was a scattershot tour. I would invite you while there is a jabber log, to come to the mic and say what your experience with this was.

Martin Thomson: This was not helpful for me. What I was looking for is what are we going to do next? Too

many options, would like to have just one thing.

My proposal is that we address what the previous two presenters were talking about: same provider auto-upgrade scenario. Andrew's constraints are perfectly reasonable. I think we had some proposals that would address those, but they are buried in so much extra cruft that I'm having trouble understanding what's going on. Covering BYO & EST is just too much. We need to cut this down to something that's going to be deployable.

Martin Thomson (from jabber):

I suggest that we agree on which problems we want to solve, then agree on what principles apply to each, then have small, uncomplicated drafts that enact those choices.

Paul Hoffman: Martin's jabber comment is exactly right. The presentations we heard were "Here's our solution and here's the problem we're solving." We need to start on the problem statement. Don't shoot too high. Let's agree on one or two user cases we want to solve and start over on the protocol work.

Joey Salazar: I agree there is overlap. But talking about home devices is necessary but maybe not now. Maybe we can do a layered approach and then later talk about home and BYOD devices.

EKR: I agree with what previous speakers said. We have minimum 2 problem statements.

1. Steering which generic resolver will be used by client endpoints.
2. Allowing origins to specify specific resolvers that should be used for them.

In the first category, the questions center on authentication:

- How do you determine which resolver is the correct

resolver?

- What is the role of CPE?
 - Should it be in CPE or bypass CPE?
 - What mechanisms will allow it to bypass properly?
 - DHCP?
 - Upgraded CPE or not?

Need to start by nailing down requirements.

Jim Reid: Agree with Martin. I think part of the solution is we need the use cases. We have implementation solutions before we even understand the problem space. We also need to understand the real GDPR issues.

Not just problem statements but use cases, would help bring some discussion about the drafts. We've put the cart before the horse, solutions before understanding problem space. Knowing that would really help the September interim.

Eric Orth: I see three big overlapping areas, could consolidate and reorg

1. Discovering potential upgrade information for the current resolver
2. Domain designated resolvers, domains tell you what their preferred resolver is
3. Networks, communicating what their preferred resolver is. Would solve a lot of what this wg is trying to solve with one draft for each of these areas.

Ralf (via jabber): Agree with a lot of the comments before - we should do the easy one resolver upgrade first. We do have a solution for designating domains. It is regular resolving. If people want that they should work with dprive on securing recursing to authoritative.

Ben Schwartz: I agree with this wave of sentiment, but we did do this in the right order, now ready to write a requirements draft because we've explored the problem space very thoroughly. Turned up corners that are very interesting, e.g.

CNAME draft that wasn't mentioned today, discusses interactions between our requirements and the getaddrinfo API. Can now feed those back into a new requirements doc.

Barry Lieba (AD): The last couple of comments have been related to what I was going to say. Sounds to me the path forward is to have WG with all these proposals (and others that weren't covered here) take a look and figure out what topics you do want to work on, one of the Erics had a good list, and distill that down into a list that the chairs can assign editors for to write up from the beginning, rather than adopting something that goes beyond what the WG wants to work on. Build it up within the WG. This is just a suggestion.

Glenn Deen (chair): Interim will be early Pacific time (6-7am) / mid morning east coast / afternoon in Europe. Let me know any better timezone suggestions. What I'm hearing is a good lead-in for the September time. If we can find some people to do editing from the ground up on a few core things we can then really tackle in September, that would be really good.

When we started this wg there were a lot of nascent ideas, nothing really gelled. Now we've had a lot of good suggestions and proposals, some that some of us don't like, but some really meaty suggestions. As Ben said we can now take these new understandings that we've obtained through the hard work the drafters have done, and put these into use cases, and then start addressing these use cases. I'm optimistic of the direction we're going.

And thank you to the note takers Ted Lemon and Barbara Stark!

Dave: Bye!

[Notes updated by Chris Box at the close of IETF108, based on the recording]