

IETF-90 (Toronto) DHC WG Meeting

Wednesday, July 23, 2014

0900-1130 GMT

Last Updated: 07/22/2014 14:10 EDT

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I E T F

Before we begin ...

- Hope you noted the Note Well
- Blue sheets
- Need Jabber scribe(s)!
- Need etherpad note takers

- Your co-chairs are:
 - Tomek Mrugalski
 - Bernie Volz

Founding date:
1989 April 13



DHC is quarter century old!

DHC WG Chairs Update

- Added Sheng Jiang as DHC WG Secretary
 - WG Secretary role new to DHC but not to IETF
 - Initial responsibilities
 - Taking WG session minutes and preparing official minutes
 - Tracking I-Ds within other WGs and individual submissions that define new DHCP options or might have other implications to DHCP
 - Sheng will continue to shepherd some documents
 - Chairs thank Sheng for volunteering as secretary and for his shepherding work!!!

Agenda (1 of 2)

No.	Title	Who	Time	Draft
1.	Administrativa and Recharter	Chairs	15m	
2.	RFC 3315bis Update & Issues	Tomek Mrugalski	20m	-dhcwg-dhc-rfc3315bis
3.	DHCPv6 Stateful Issues	Bernie Volz / Ole Troan	10m	-ietf-dhc-dhcpv6-stateful-issues
4.	Secure DHCPv6	Dacheng Zhang	10m	-ietf-dhc-sedhcpv6
5.	Customizing DHCP Configuration on the Basis of Network Topology	Tomek Mrugalski	5m	-ietf-dhc-topo-conf
6.	Shared V4 Allocation	Qi Sun	5m	-ietf-dhc-dynamic-shared-v4allocation

Agenda (2 of 2)

No.	Title	Who	Time	Draft
7.	Failover Design	Kim Kinnear	5m	-ietf-dhc-dhcpv6-failover-design
8.	DHCP Privacy Considerations	Tomek Mrugalski	10m	
9.	Dynamic Stateless GRE Tunnel	Li Xue	10m	-xue-dhc-dynamic-gre
10.	Multiple Provisioning Domains	Suresh Krishnan	10m	-kkb-mpvd-dhcp-support

WG Status Update (since IETF-89)

- RFCs Published:
 - RFC 7227, *Guidelines for Creating New DHCPv6 Options*
 - RFC 7283, *Handling Unknown DHCPv6 Messages*
- In RFC-Editor Queue:
 - draft-ietf-dhc-dhcpv4-over-dhcpv6, *DHCPv4 over DHCPv6 Transport*
- At IESG:
 - draft-ietf-dhc-v4configuration, *Provisioning IPv4 Configuration Over IPv6 Only Networks*
 - Revised draft generated after AD review, still with AD
 - draft-ietf-dhc-dhcpv6-active-leasequery, *DHCPv6 Active Leasequery*
 - Revised draft needed after AD review
 - Most issues apply to draft-ietf-dhc-dhcpv4-active-leasequery as well, so revised draft needed

WG Status Update (since IETF-89)

- Working Group Last Calls / Adoptions Completed
 - draft-ietf-dhc-dhcpv6-active-leasequery-00 - **Passed WGLC**; see above
 - draft-ietf-dhc-dhcpv4-active-leasequery-01 - **Passed WGLC**; see above
 - draft-ietf-dhc-access-network-identifier-02 - **Failed WGLC**; updated
 - draft-ietf-dhc-sedhcpv6-02 - **Passed WGLC**; updated ID needed (published but needs review)
 - draft-csf-dhc-dynamic-shared-v4allocation-00 – **Adopted**

Other WG Documents

Draft	Title	Pub Date	Status
draft-ietf-dhc-access-network-identifier-03	Access Network Identifier Option in DHCP	2014-07-04	I-D Exists WG Document
draft-ietf-dhc-conn-status-00	IP Connectivity Status Notifications for DHCPv6	2014-02-04	I-D Exists WG Document
draft-ietf-dhc-dhcpv6-load-balancing-02	Load Balancing for DHCPv6	2014-07-04	I-D Exists WG Consensus: Waiting for Write-Up
draft-ietf-dhc-dynamic-shared-v4allocation-01	Dynamic Allocation of Shared IPv4 Addresses	2014-07-02	I-D Exists WG Document
draft-ietf-dhc-sedhcpv6-03	Secure DHCPv6 with Public Key	2014-06-19	I-D Exists WG Document

Note: This excludes documents mentioned earlier or being presented!

Related Documents

Draft	Title	Pub Date	Status
draft-donley-dhc-cer-id-option-03	Customer Edge Router Identification Option	2014-02-14	I-D Exists
draft-fsc-dhc-dhcp4o6-saddr-opt-00	DHCPv4 over DHCPv6 Source Address Option	2014-02-13	I-D Exists
draft-jiang-dhc-stateless-reconfiguration-01	Stateless Reconfiguration in Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	2014-02-14	I-D Exists
draft-sarikaya-dhc-dhcpv6-raoptions-sadr-00	DHCPv6 Route Options for Source Address Dependent Routing	2014-06-20	I-D Exists
draft-wkumari-dhc-capport-04	Captive-Portal identification in DHCP / RA	2014-07-04	I-D Exists

Note: This excludes 2 documents being presented!

[draft-dhcwg-dhc-rfc3315bis-02](#)

[draft-xue-dhc-dynamic-gre-02](#)

Recharter (1 of 2)

- Chairs initiated update the DHC WG charter
- Fairly minor in that the current charter (07) is revised as follows:
 - Updates the list of items being worked on (in bullet 1)
 - removing those items that we have completed, and
 - adding those items adopted by the WG
 - Removing #2 (NTP option update)
 - Removing #3 (option guidelines – work done)
 - Fixing a typo in old #8 (problems replaced with specifications) – this is now #6

The Dynamic Host Configuration working group (DHC WG) has developed DHCP for automated allocation, configuration and management of IP addresses and TCP/IP protocol stack parameters. DHCPv4 is currently a Draft Standard and is documented in RFC 2131 and RFC 2132. DHCPv6 is currently a Proposed Standard and is documented in RFC 3315. Subsequent RFCs document additional options and other enhancements to the specifications.

The DHC WG is responsible for defining DHCP protocol extensions. Definitions of new DHCP options that are delivered using standard mechanisms with documented semantics are not considered a protocol extension and thus are outside of scope for the DHC WG. Such options should be defined within their respective WGs and reviewed by the DHCP Directorate. However, if such options require protocol extensions or new semantics, the protocol extension work must be done in the DHC WG.

The DHC WG has the following main objectives:

1. Develop extensions to the DHCPv6 infrastructure as required to meet new applications and deployments of DHCP.

The topics currently in development are:

- DHCPv6 Stateful issues
- DHCPv6 Failover
- DHCPv6 Load Balancing
- Extending DHCPv6 to work with multiple provisioning domains

- DHCP provisioning of IPv4 clients over IPv6 networks
- Access Network Identifier options
- DNS registration for SLAAC
- Active leasequery
- Secure DHCPv6 with Public Key
- Dynamic Allocation of Shared IPv4 Addresses

Additional topics may only be added with approval from the responsible Area Director or by re-chartering.

2. Develop documents that help explain operational considerations for the wider community.

3. Issue updated versions of the DHCP base specifications -- RFC 3315 (DHCPv6), RFC 3633 (DHCPv6 Prefix Delegation) and RFC 3736 (Stateless DHCPv6) so as to fix errata and bring the documents to the point where they can advance along the IETF Standards Track.

4. In the process of updating the DHCP base specifications, in cases where time is of the essence, issue corrections and clarifications of the specifications in order to quickly address interoperability problems.

5. Write analyses and interoperability reports on existing DHC documents, including base specs.

6. When serious interoperability problems are found in other DHCP specifications, issue updated versions of those specifications to address the interoperability problems.

Quick Items

- DHCP Yang Model - Ian Farrer