

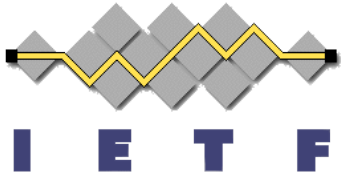
# DHCP options for PAA

draft-ietf-dhc-paa-option-03.txt

Lionel Morand

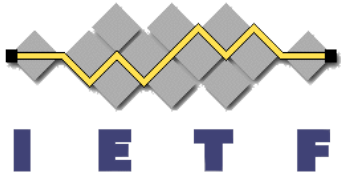
([lionel.morand@orange-ft.com](mailto:lionel.morand@orange-ft.com))

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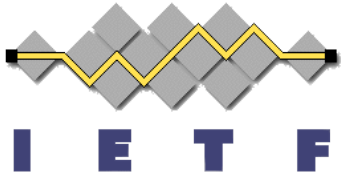
# Summary

- Definition of new DHCP options to locate PANA Authentication Agents (PAA) in the access network
  - Based on PANA WG requirements
- Approved as WG document after IETF63
- Version -03 provided but not available
  - Sent after the submission cut-off ☹️



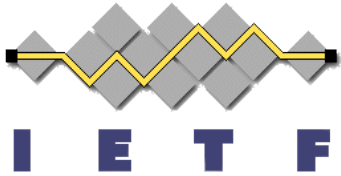
# From IETF65

- In -02: for both DHCPv4 and DHCPv6
  - DHCP server may provide either IP@ or FQDNs to locate PAAs
- After IETF65, discussion on the mailing list about the use of FQDN in DHCP options
  - See next slide



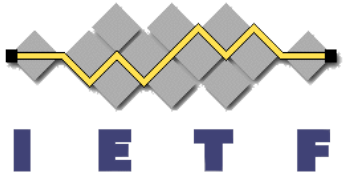
# Use of FQDN?

- Existing RFCs defining options to locate server rely on IP addresses and FQDNs
  - e.g. DHCP SIP options
- The use of FQDN might be convenient in some cases
  - e.g. load-balancing
- however:
  - The use case for PANA is not a "MUST"
  - The total length of the DHCP message might become problematic
  - DNS lookup may be performed by the DHCP server
  - Possible interoperability issues when supporting both options:
    - The client cannot specify which option it wants
    - The client has to implement both option types
- Conclusions after the discussion:
  - Need for a DHC WG guideline document for designing new options?
  - First rule: Avoid the use of FQDN unless specific reasons



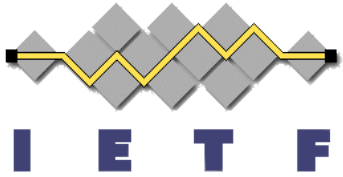
## Change from -02

- Removal of the use of FQDN
- Consequences:
  - Only an IP@ list is provided to the client
  - The DHCPv4 option format is modified
    - No need for sub-option functionality
    - Defined as a basic option carrying IPv4 addresses
  - The FQDN-based DHCPv6 option is removed
  - Sections on server/client behaviors are removed
    - Client Behavior described in section defining options



# Next Step

- The use of FQDN was the only issue
- No other "known" issue
- Ready for WGLC?



Thank You

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