

ALCATEL

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# DNS domain suffix option for DHCPv6

(draft-yan-dhc-dhcpv6-opt-dnszone-03.txt)

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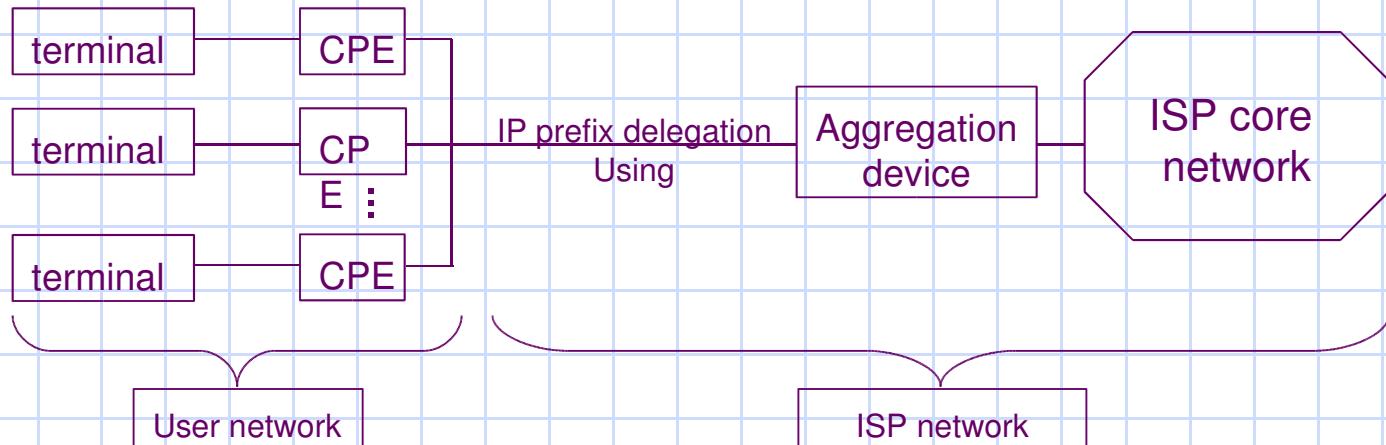
# Acknowledge

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- ◆ ...

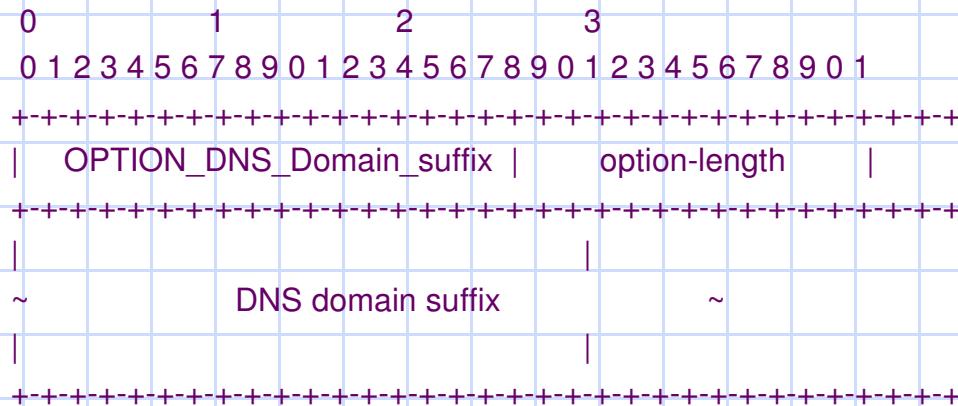
# Motivation

- ◆ In IPv6 access network, we may have multi-level DHCP deployment, e.g. terminal – CPE / CPE – aggregation device.
- ◆ CPE in user network will work as:
  - A DHCPv6 client for aggregation device (e.g. prefix delegation)
  - A DHCPv6 server for home terminals (e.g. DNS configuration)
- ◆ We need a method to automatically configure the DNS domain suffix, e.g. for CPEs.



# DNS domain suffix option

- ◆ DNS domain suffix option provides a method to transfer domain suffix from DHCPv6 server to DHCPv6 client.
- ◆ Used for both stateless DHCP server and stateful DHCPv6 server.



# Operation & Usage

## ◆ Operation

- DHCPv6 client sends a SOLICIT /REQUEST /INFORMATION REQUEST message to DHCPv6 server
- DHCPv6 server sends REPLY message with DNS domain suffix option to DHCPv6 client.

## ◆ Usage

- In stateful DHCPv6, the option will be placed in the options field of IA\_PD option in an outgoing DHCPv6 message.

# Modification from Ver02

## ◆ Clarify usage

- For both stateless DHCPv6 and stateful DHCPv6
- Different domain name suffix can be allocate to different CPE according to some administrative policy

## ◆ Correct Some typo errors



Accepted as WG Item ?