

[Host Configuration VSE]

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[Background]

- Mobile Node needs additional configuration beyond home IP address to set up Mobile IP interface
- Host configuration from the home network required for the MN
- Method to obtain the host configuration lacking in specifications
- Solution needed for Mobile IPv4 deployment

[Issues]

- Current host configuration methods are insufficient
 - PPP/IPCP typically provides foreign network information
 - DHCP typically provides foreign network information
 - Access router does not need to obtain home network's host configuration or integrate AAA and DHCP/IPCP
- Seek a solution
 - Host configuration parameters in Mobile IP registration messages

[Overview]

- Introduced skippable Cisco vendor specific extensions in Registration Request and Reply
- “Request Host Configuration” NVSE in the Registration Request used by MN to solicit for host configuration information
- Defined several Host Configuration NVSEs in the Registration Reply used by HA to include host configuration in response

[Registration Request NVSE]

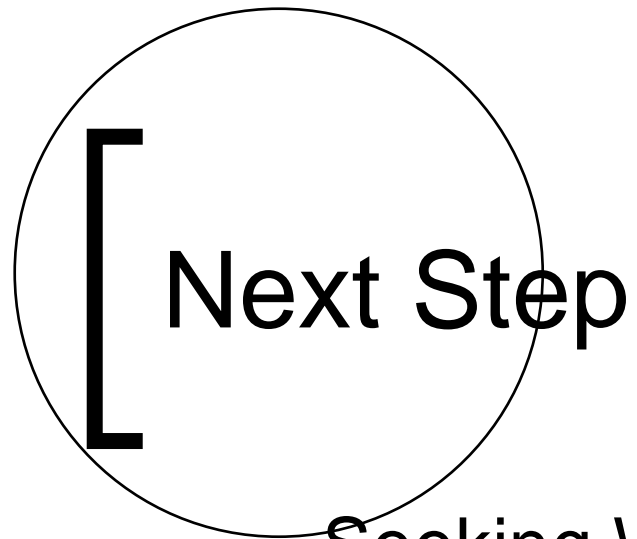
- Host configuration subtype
 - Request

[Registration Reply NVSE]

- Host configuration subtypes
 - Home network prefix
 - DNS server
 - DHCP server
 - DHCP client ID
 - Default gateway
 - DNS suffix
 - Configuration URL

[Sample Scenario]

1. Mobile Node sends RRQ with Request NVSE Foreign Agent
2. Foreign Agent relays the RRQ to Home Agent
3. Home Agent authenticates RRQ and detects Request NVSE
4. Home Agent sends RRP with Host Configuration NVSEs
5. Foreign Agent relays RRP to Mobile Node
6. Mobile Node obtains the host configuration to set up the Mobile IP interface



Seeking WG decision?

- Individual contribution
- Informational status