

# Using DHCPv6 for Mobile Station Prefix Delegation

draft-sarikaya-16ng-prefix-delegation-02.txt

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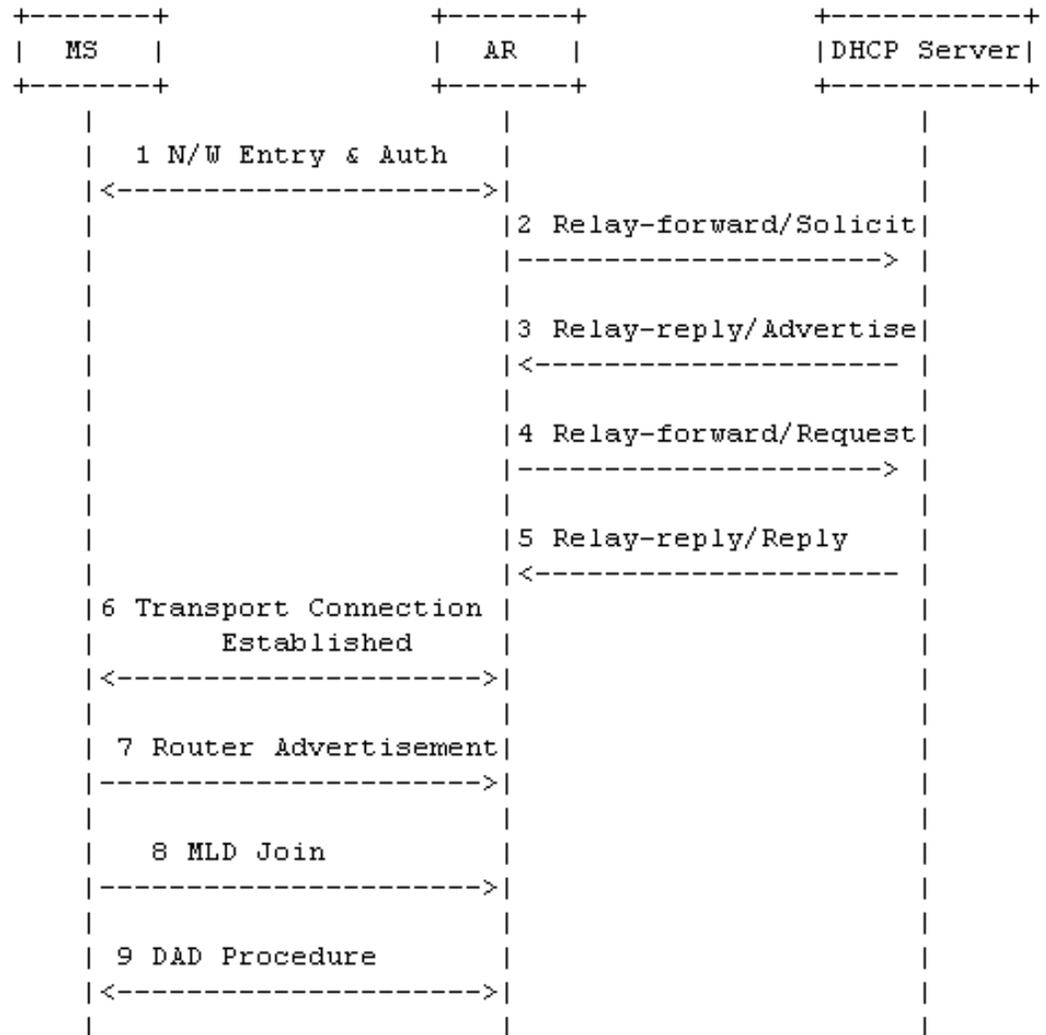
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# Problem Statement

- Point-to-Point link model is recommended by 16NG WG and is adopted by WiMAX NWG
- In this model, one prefix can only be assigned to one mobile station
- How does a mobile station configure its address using IPv6 stateless auto-configuration mechanism?

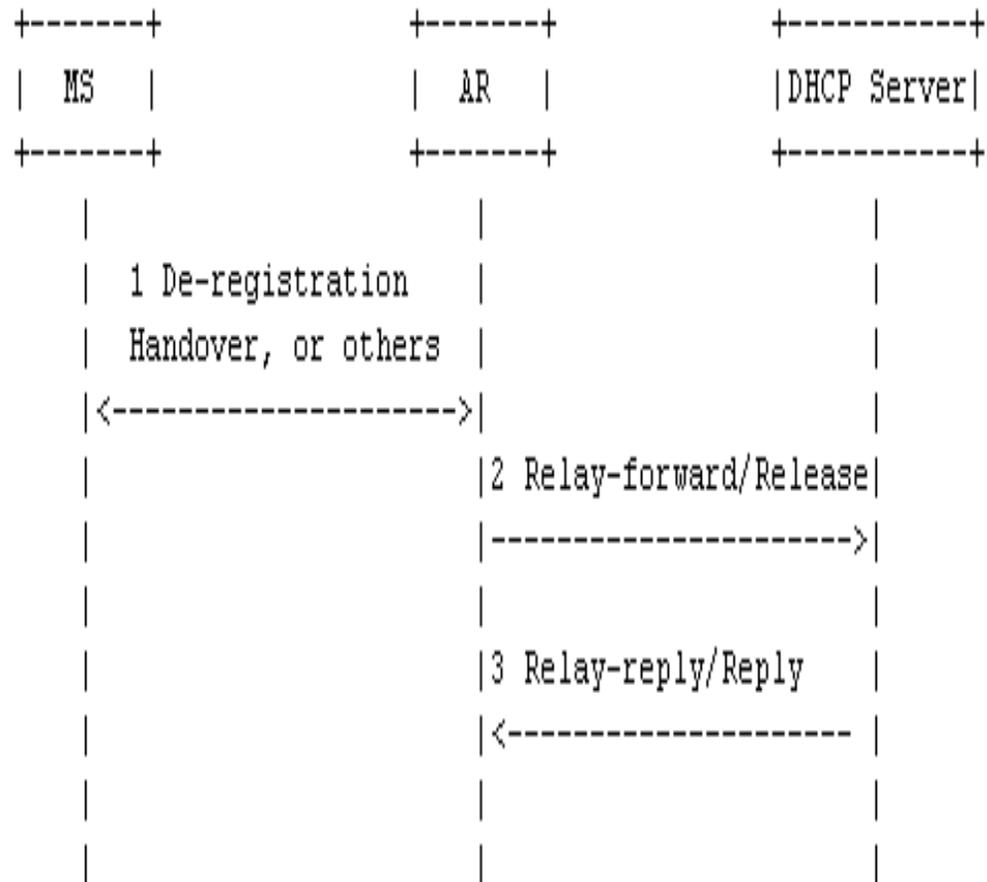
# Prefix Request Procedure

- AR is as a DHCP Client
- DHCP Relay function is needed in AR when DHCP server is not connected directly
- Prefixes are assigned to AR through Prefix Option defined in RFC 3633
- MS configures it's address using prefix advertised by AR



# Prefix Release Procedure

- An MS detachment signaling, such as switch-off or handover, triggers prefix release procedure
- The released prefixes can be reused by other MSs
- AR can age prefixes through prefixes' lifetime



## Next Steps

- is it feasible that a DHCP Client and a DHCP server collocating at the same AR?
- Is it necessary to standardize this method for other SDOs to use?

Thank You.  
Questions?