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Deprecated Network Prefix Provision

- draft-jhlee-dmm-dnpp-00 -

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Motivation (1/2)

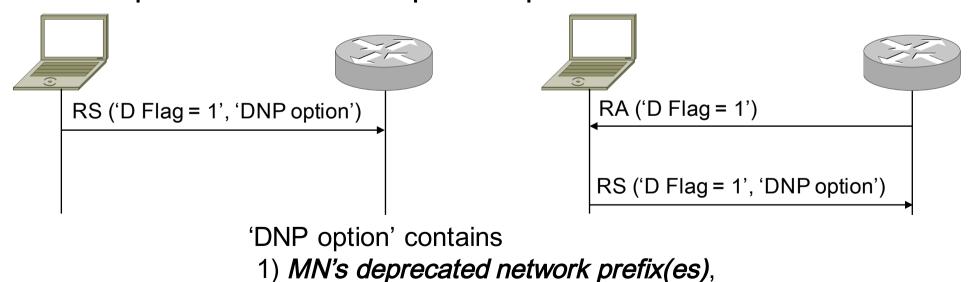
- NDP does not specify how an AR obtains the deprecated network prefix information from an MN
 - MN may use its deprecated address (i.e., previously configured address at the previous network)
 for communications at the new network of the AR
 - MN uses the deprecated address only for keeping communications already established at the previous network
 - MN uses the preferred address for new communications

Motivation (2/2)

- Without knowing the deprecated network prefix
 - Ingress filtering may filter all packets with the deprecated address of the MN
 - AR may cannot establish a bidirectional tunnel with the previous AR for the packets with the deprecated address
- If the deprecated network prefix is known to the AR
 - Ingress filtering rule can be updated
 - Bidirectional tunnel can be established

Proposal

- New extensions to RS and RA messages
 - RS message
 - Extended to include the deprecated network prefix option
 - RA message
 - Extended to quickly receive the RS message including the deprecated network prefix option



2) *etc*

Next Steps

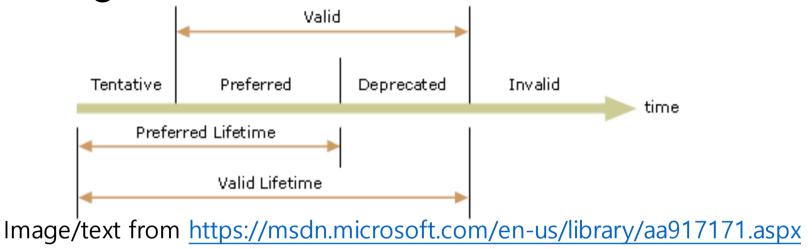
- Specify the flag and DNP option formats
- Specify the security consideration

Thanks!

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Backup: Address States

Autoconfigured address states



- Valid: The address can send and receive unicast traffic. This state c overs both the preferred and deprecated states
- Preferred: The address has been verified as unique. A node can se nd and receive unicast traffic to and from a preferred address
- Deprecated: The address is still valid, but using it for new communic ation is discouraged. Existing communication sessions can continue to use a deprecated address. A node can send and receive unicast t raffic to and from a deprecated address