Interface State and Link-layer Protocol In MSR Series

Keywords: MSR;IPv6;Interface State;Link-layer Protocol

Q: Configuring interface E0/1 with IPv6 address, check the interface state, it sh ows the interface state is UP, but Link-layer protocol is down, as blow info sho

[RTB-AR29-01-Ethernet0/1] display ipv6 interface Ethernet 0/1

Ethernet0/1 current state :UP Line protocol current state :DOWN

IPv6 is enabled, link-local address is FE80::20F:E2FF:FE3D:59BE [TENTATIVE]

Global unicast address(es):

2::1, subnet is 2::/64 [TENTATIVE]

Joined group address(es):

FF02::1:FF00:1 FF02::1:FF3D:59BE

FF02::2 FF02::1

MTU is 1500 bytes

ND DAD is enabled, number of DAD attempts: 1

ND reachable time is 30000 milliseconds

ND retransmit interval is 1000 milliseconds

Hosts use stateless autoconfig for addresses

A:

The main reason is only configuring IPv6 address under the interface but forgot to en able IPv6 under the system view.

Methods:

Input command:

[h3c]ipv6

Then, check the interface state:

[RTB-AR29-01-Ethernet0/1]display ipv6 interface Ethernet 0/1

Ethernet0/1 current state :UP Line protocol current state: UP

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Global unicast address(es):

2::1, subnet is 2::/64 [TENTATIVE]

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