

METHOD FOR RESTORING NETWORK TOPOLOGY AND APPARATUS

ABSTRACT

A method for restoring a network topology and an apparatus are disclosed, and belong to the
5 communication field. The method includes: A topology computing apparatus obtains MAC entries
of a plurality of network devices; determines a port on which an uplink destination MAC address
is learned as an uplink port of the plurality of network devices, where the uplink destination MAC
address is a MAC address that appears most frequently in the MAC entries of the plurality of
network devices; then determines a plurality of initial sets, and determines a connection
10 relationship between the plurality of network devices based on the plurality of initial sets; and
finally determines, based on the connection relationship between the plurality of network devices
and the uplink port, a network topology corresponding to the plurality of network devices. The
plurality of initial sets are in a one-to-one correspondence with a plurality of downlink destination
MAC addresses, and the plurality of downlink destination MAC addresses include MAC addresses
15 learned on ports other than the uplink port. The initial set includes data of the network device, and
the data of the network device includes an identifier of the network device and a port on which the
downlink destination MAC address is learned.

Figure 7