

OPENFLOW PROTOCOL-BASED SDN L2VPN IMPLEMENTATION METHOD AND SYSTEM

ABSTRACT

Disclosed in the present invention is an OpenFlow protocol-based SDN L2VPN implementation method and system, related to the SDN field. The method comprises the following steps: an SDN L2VPN UNI-->NNI service model implemented with one level flow table and three levels of nested group tables: a first level flow table identifying a user data message; when a user data stream match field matches a corresponding flow entry, executing the corresponding apply action of the first level flow table; if there is no pseudowire protection in a first level group table, executing pseudowire tag encapsulation according to a bucket action in the group table; if there is no pseudowire protection in a second group table, executing LSP tag encapsulation and LSP 1:1 processing according to a bucket action in the group table; a third level group table executing egress port lookup. The present invention helps operators in an SDN network architecture to rapidly activate group customer dedicated line service, making network activation no longer dependent on a network administrator.

[FIG. 1]