

METHOD AND DEVICE FOR TOPOLOGY DISCOVERY AND CONNECTIVITY VERIFICATION IN ROADM SYSTEM

ABSTRACT

The present disclosure relates to a method and device for topology discovery and connectivity verification in a ROADM system. The method mainly comprises: sending, by any device for topology discovery and connectivity verification in a ROADM system after being powered on, its own first device information in a broadcasting manner to other device(s) for topology discovery and connectivity verification in the ROADM system; receiving test light information sent from a port of the WSS by any device for topology discovery and connectivity verification in a ROADM system, saving first device information, in the test light information, of other device(s) for topology discovery and connectivity verification in a ROADM system as second device information, and superposing and then sending the first device information and the second device information to other device(s) for topology discovery and connectivity verification in a ROADM system; comparing, by any device, its own first device information with the second device information in the received information, and if the information is consistent with each other, this link pairing succeeding, and performing pairing record to its own first device information and the first device information in the received information. The present disclosure can reduce cost, and can automatically perform topology discovery, perform match connection, and verify the correctness of the connection thereof, thereby avoiding the problem that errors are prone to occur in manual connections of conventional optical fiber links.

Fig. 6