

Client is connected to an AP with relatively weak signal, but not connected t o an AP with relatively strong signal with close distance

Wireless 余煌 2020-12-15 Published

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When there are multiple APs that are physically adjacent to each other and have a signal coverage ar ea, the Client is connected to an AP with a relatively weak signal, but not connected to an AP with a r elatively strong signal with close distance.

Process Analysis

It is possible that the load balancing feature has been enabled on the AP that is close to the client and has a strong signal, so it cannot accept new client access requests. If the client is sensitive to AP sign al strength, even if the client is forced to connect to the AP with weaker signal because the load balancing feature is enabled on the AP with stronger signal, the client will often try to connect to the A P with stronger signal. That means roaming frequently. Such frequent roaming may cause the connec tion to be interrupted, which may affect the upper-layer applications of the Client.

If the client application is not affected, it is a normal phenomenon and does not need to be resolved. I f the client application has been affected, try to solve the problem in the following ways:

- (1) Check whether the AP distribution is reasonable, and don't cause a large number of clients to obvi ously gather near an AP. In this way, even if the load is balanced to other APs, frequent roaming will be triggered because of the large difference in signal strength.
- (2) If it is obvious that the Client cannot connect, turn off the load balancing and observe it again.
- (3) Load balancing based on traffic is not suitable for control and is not recommended. Especially wh en some encryption and security configurations limit the number of AP accesses (for example, TKIP encryption allows APs to access only 28 users), it is not applicable. It is recommended to use sessio n-based load balancing.