
Problem 5. In route hijacking an AS originates a prefix without authority. BGP provide no method to authenticate which ASN may originate an IP prefix.

In a routed wide area MITM attack the route attributes of a BGP announcement are manipulated to redirect traffic through an AS as well as hijack the associated prefix. BGP provides no method to authenticate either circumstance.

Problem 6. The primary vulnerability of the Internet routing system is a lack of means to authenticate the ASNs, network prefixes, and route attributes provided by others.

Problem 9. The Internet routing system grows on a daily basis. The number of ASes in the Internet has also increased linearly over time. No single entity can administer punishment for abuse of the Internet. The financial cost is high.

Problem 18. Network: 30.31.48.0/20 (or more specific), AS Path: 50