ABSTRACT

NETWORK SECURITY DEVICE

A network security device (10) is connected between a protected client (12) and a network (100). The network security device (10) negotiates a session key with any other protected client. Then, all communications between the two clients are encrypted. The inventive device is self-configuring and locks itself to the IP address of its client (12). Thus, the client (12) cannot change its IP address once set and therefore cannot emulate the IP address of another client. When a packet is transmitted from the protected host, the security device (10) translates the MAC address of the client to its own MAC address before transmitting the packet into the network. Packets addressed to the host, contain the MAC address of the security device. The security device (10) translates its MAC address to the client's (12) MAC address before transmitting the packet to the client (12).

Figure 4