



Configuring Layer 2 NAT

One-to-one (1:1) Layer 2 Network Address Translation (NAT) is a service that allows the assignment of a unique public IP address to an existing private IP address (end device), so that the end device can communicate on both the private and public subnets. This service is configured in a NAT-enabled device and is the public “alias” of the IP address physically programmed on the end device. This is typically represented by a table in the NAT device.

Layer 2 NAT has two translation tables where private-to-public and public-to-private subnet translations can be defined. Layer 2 NAT is a hardware based implementation that provides the same high level of (bump-on-the-wire) wire-speed performance. This implementation also supports multiple VLANs through the NAT boundary for enhanced network segmentation.

For information about configuring Layer 2 NAT on the IE 5000 switch, see [Layer 2 NAT Software Configuration Guide for IE 2000, IE 4000, and IE 5000 Switches](#).

