

IPv4 LAN Defaults and DHCP Address Reservation

This quick start guide provides the IPv4 LAN defaults and DHCP address reservation information for the ProSafe Wireless-N 8-Port Gigabit VPN Firewall FVS318N. For information about more complicated features, and for complete configuration steps, see the *Reference Manual*. This quick start guide contains the following sections:

- [IPv4 LAN Default Settings](#)
- [Set Up DHCP Address Reservation](#)
- [For More LAN Information](#)

Note: For more information about the topics covered in this guide, visit the FVS318N support website at <http://support.netgear.com>. You will also find the *Reference Manual* at the support website.

IPv4 LAN Default Settings

The default IPv4 LAN settings that are shown in the following table should be sufficient for most small business networks and do not require further configuration:

Table 1. Default IPv4 LAN settings

Item	Default Setting
LAN IPv4 address for the default VLAN	192.168.1.1
LAN IPv4 subnet mask for the default VLAN	255.255.255.0
VLAN 1 membership	All ports
LAN DHCP server for the default VLAN	Enabled
LAN DHCP IPv4 starting address for the default VLAN	192.168.1.100
LAN DHCP IPv4 ending address for the default VLAN	192.168.1.254

Set Up DHCP Address Reservation

When you specify a reserved IP address for a computer or device on the LAN, that computer or device always receives the same IP address each time it accesses the wireless VPN firewall's DHCP server. The reserved IP address is based on the MAC address of the computer or device. Normally, you would assign a reserved DHCP address to a server or access point that requires permanent IP address settings.

➤ **To reserve an IP address:**

1. **Network Configuration > LAN Setup > LAN Groups.** The LAN Groups screen displays:

Figure 1.

2. In the Add Known PCs and Devices section of the screen, enter the settings as explained in the following table:

Table 2. Add Known PCs and Devices section settings

#	Setting	Description
①	Name	Enter the name of the computer or device.
②	IP Address Type	From the drop-down list, select Reserved (DHCP Client) . The DHCP server of the wireless VPN firewall always assigns the specified IP address to this client (that is, to the associated MAC address) during the DHCP negotiation.
③	IP Address	Enter the IP address that this computer or device is assigned to. The IP address can be inside or outside the address range that is allocated to the DHCP server pool. Note: Make sure that the IP address is in the IP subnet for the VLAN profile that you select from the Profile Name drop-down list.

Table 2. Add Known PCs and Devices section settings (continued)

#	Setting	Description
④	MAC Address	Enter the MAC address of the computer's or device's network interface. The MAC address format is six colon-separated pairs of hexadecimal characters (0–9 and a–f), such as 01:23:d2:6f:89:ab.
⑤	Group	From the drop-down list, select the group to which the computer or device is assigned. (Group 1 is the default group.)
⑥	Profile Name	From the drop-down list, select the name of the VLAN profile to which the computer or device is assigned.

- Click the **Add** table button (⑦) to add the computer or device to the Known PCs and Devices table:

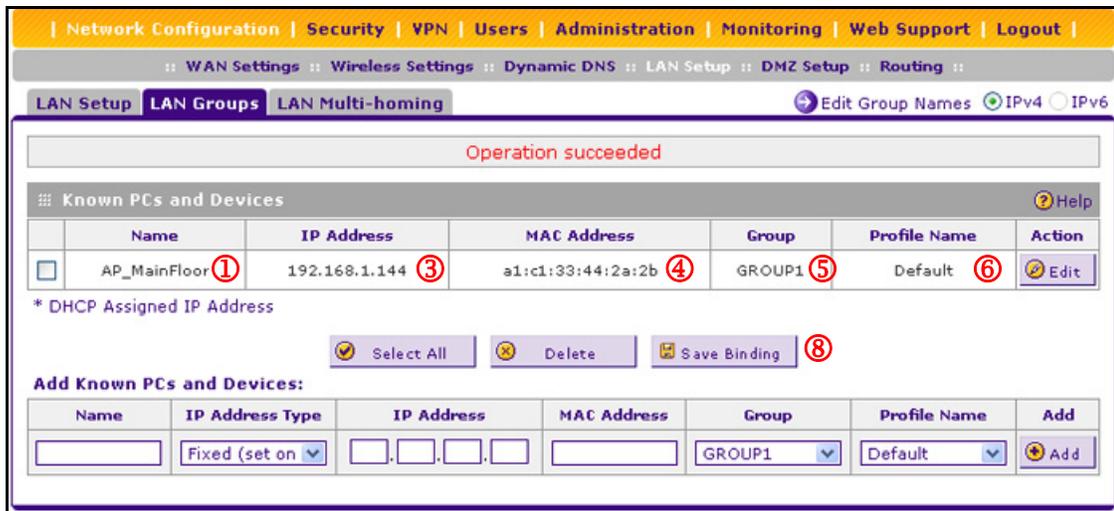


Figure 2.

- Select the check box for the entry that you just added, and click the **Save Binding** button (⑧) to save the binding between the IP and MAC address for DHCP assignment.

Note: The reserved address is not assigned until the next time the computer or device contacts the wireless VPN firewall's DHCP server. Reboot the computer or device, or access its IP configuration and force a DHCP release and renew.

Note: The saved binding is also displayed on the IP/MAC Binding screen. To open that screen, select **Security > Address Filter > IP/MAC Binding**. If you delete a binding on the LAN Groups screen, make sure that you also delete the binding on the IP/MAC Binding screen.

For More LAN Information

Chapter 3, “LAN Configuration.” of the *Reference Manual* provides information about the following IPv4 LAN topics:

- Managing IPv4 virtual LANs and DHCP options
- Configuring IPv4 multihome LAN IP addresses on the default VLAN
- Managing IPv4 groups and hosts
- Enabling and configuring the DMZ port for IPv4 traffic
- Managing static IPv4 routing