

NETGEAR AV Configuring DHCP Reservations User Guide

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NETGEAR AV Configuring DHCP Reservations

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DHCP Server

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Information
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UDP Relay
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DHCPv6 Relay

DHCP Pool Configuration

DHCP Pool Configuration

Pool Name

z

Type of Binding

Manual

Network Address

100.1.1.253

Network Mask

255.255.255.0

Network Prefix Length

(0 to 32)

Client Name

Hardware Address

00:00:00:00:00:00

Hardware Address Type

Ethernet

Client ID

01:00:00:01:d8:48:eb

Host Number

100.1.1.253

Host Mask

255.255.255.0

Host Prefix Length

(8 to 32)

Lease Time

Specified Duration

Days

0

(0 to 59)

Hours

0

(0 to 23)

Minutes

5

(0 to 59)

Default Router Addresses

DNS Server Addresses

NetBIOS Name Server Addresses

NetBIOS Node Type

b-node Broadcast

Next Server Address

0.0.0.0

Domain Name

(0 to 255 characters)

Bootfile

(0 to 128 characters)

Product Information

The Engage product allows users to configure DHCP reservations and multiple VLANs with internet access. A DHCP reservation ensures that a specific device always receives the same IP address based on its MAC address. The product supports VLAN routing and DHCP server functionality.

The product consists of the following components:

- Engage Controller:
 - IP: 192.168.77.12
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.77.1
- Core Switch:
 - VLAN 1:
 - IP: 192.168.77.254
 - Subnet Mask: 255.255.255.0
 - VLAN 10:
 - IP: 192.168.10.1
 - Subnet Mask: 255.255.255.0
 - DHCP Pool: 192.168.10.100 – 192.168.10.200
- Lobby VLAN 1:
 - IP: 192.168.77.106
 - Subnet Mask: 255.255.255.0
- Conference1 VLAN 1:
 - IP: 192.168.77.103
 - Subnet Mask: 255.255.255.0

Product Usage Instructions

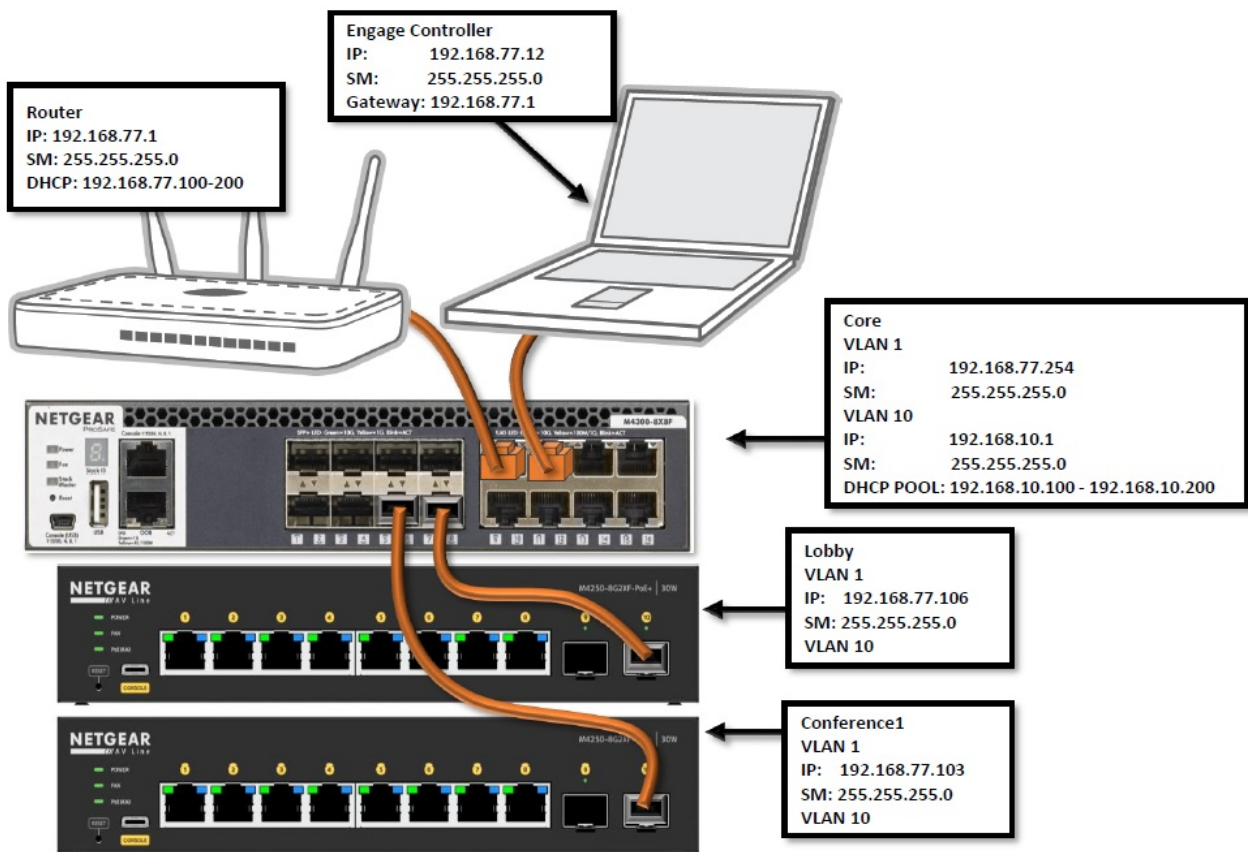
1. Open Engage and navigate to Site Settings.
2. Go to the VLAN Routing and DHCP Server tab.
3. In the Advanced section, click on DHCP Address Reservation.
4. Select the desired VLAN from the drop-down menu for which you want to create a DHCP reservation.
5. Click on Add.
6. To add a DHCP reservation for a device that has already connected to the VLAN and received an address:
 - Check the box next to the device in the list.
 - Click on Add.
 - Enter the desired IP address for the device (e.g., 192.168.10.50).
 - Click on Confirm.
 - **NOTE:** The device needs to renew its IP address to receive the new assigned address.
7. To add a DHCP reservation for a device that has never been connected to the network:
 - Click on Add.
 - Click on Others.
 - Enter a name for the device, its MAC address, and the desired IP address.
8. View the list to see the created DHCP reservations.

By following these instructions, users can create DHCP reservations either by discovering devices on the network or manually entering their information.

Configuring Multiple VLANs with Internet Access

In this article we are going to show how to configure a DHCP reservation for a device on VLAN10.

- A DHCP reservation allows you to configure the DHCP server to always provide the same IP address for a specific device based on the MAC address that is requesting an IP address.
- For this scenario we have already configured a VLAN with a DHCP server on the core switch.



INSTALLATION INSTRUCTION

NETGEAR Engage

Open Engage and go to "Site Settings."

Question/Help admin

Site: HQ Save

Devices Topology **Site Settings** Support Controller Management

Managed Devices [Add Device](#)

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status
M4300-8X8F XSM4316S	Core	4G3N2979D0132	192.168.77.254	12.3.17.13	2.2.4.12	Online Configure
M4250-8G2XF-PoE+ GSM4210PX	Conference1	6YK32A5FA00F7	192.168.77.103	13.1.4.14	2.2.4.12	Online Configure
M4250-8G2XF-PoE+ GSM4210PX	Lobby	6YK32A5NA0109	192.168.77.106	13.1.4.14	2.2.4.12	Online Configure

Total 3 10/page < 1 > Go to 1

Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
You do not have any discovered devices						

Total 0 10/page < 1 > Go to 1

NETGEAR Engage

Question/Help admin

Devices Topology Site Settings Support Controller Management

Go to the "VLAN Routing and DHCP Server" tab.

Network Profiles Management VLAN and OOB VLAN Routing and DHCP Server IGMP Querier

Network Profiles Export Worksheet Create New Profile

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	
Dante	Audio Dante	10	

Total 2 10/page < 1 > Go to 1

Global Settings

These setting will be applied to all switches on this site.

Auto-Trunk ☐

Auto-LAG ☐

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Devices Topology Site Settings Support Controller Management

Site HQ Save

Network Profiles Management VLAN and OOB VLAN Routing and DHCP Server IGMP Querier

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

DHCP Address Reservation Advanced | DHCP Address Reservation Refresh

VLAN Routing Profile Name: Default VLAN ID: 1 Add Import Export

Host	MAC Address	IP Address
No Dhcp server found		

Total 0 10/page < 1 > Go to 1

Go to "Advanced" and "DHCP Address Reservation."

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Devices Topology Site Settings Support Controller Management

Site HQ Save

Network Profiles Management VLAN and OOB VLAN Routing and DHCP Server IGMP Querier

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

DHCP Address Reservation
Advanced | DHCP Address Reservation

VLAN Routing

Profile Name: Default | VLAN ID: 1

Add Import Export

Default 1

Dante 10

No Dhcp server found

Total 0 10/page 1 Go to 1

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Devices Topology Site Settings Support Controller Management

Site HQ Save

Network Profiles Management VLAN and OOB VLAN Routing and DHCP Server IGMP Querier

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

DHCP Address Reservation
Advanced | DHCP Address Reservation

VLAN Routing

Profile Name: Dante | VLAN ID: 10

Add Import Export

Host MAC Address IP Address

No Data

Total 0 10/page 1 Go to 1

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There are 2 ways to add a DHCP reservation:

1. If the device has already connected to the VLAN and has already received an address, it will show up on the list where we can select it and assign the address we want to it.
2. If the device has not yet connected to the network, you can manually input the information for the device.

We are going to go through both ways starting with adding the discovered device.

Check the box for the device that you want to create the reservation for.



Add Host

Select from the following hosts or click on "others" to add an entry manually

<input type="checkbox"/>	Host	MAC Address ↓	IP Address
<input checked="" type="checkbox"/>	BYD Precision Manufacture C ompa	98BB1E1C6D05	192.168.10.100

Cancel Add Others

NETGEAR Engage

3 NETGEAR ENGAGE

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Devices Topology Site Settings Support Controller Management

Network Profiles Management VLAN and O

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

Add Host

Select from the following hosts or click on "others" to add an entry manually

<input checked="" type="checkbox"/>	Host	MAC Address ↓	IP Address
<input checked="" type="checkbox"/>	BYD Precision Manufacture C ompa	98BB1E1C6D05	192.168.10.100

Click on "Add."

Cancel Add Others

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Network Profiles Management VLAN and O

Network Profiles

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DHCP Address Reservation

DHCP Bindings

Information

Add Host

Edit and confirm the selected hosts.

Host	MAC Address	IP Address
BYD Precision Manufacture Comp a	98BB:1E:1C:6D:05	192.168.10.100

Cancel Confirm

Add Import Export Refresh

No Data

Total 0 10/page < 1 > Go to 1

NOTE: you will have to renew the IP address on the device for it to receive the new address.

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Information

Add Host

Edit and confirm the selected hosts.

Host	MAC Address	IP Address
BYD Precision Manufacture Comp a	98BB:1E:1C:6D:05	192.168.10.50

Cancel Confirm

Add Import Export Refresh

No Data

Total 0 10/page < 1 > Go to 1

Click on "Confirm."

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Network Profiles Management VLAN and OOB VLAN Routing and DHCP Server IGMP Querier

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

DHCP Address Reservation
Advanced | DHCP Address Reservation

VLAN Routing
Profile Name: Dante VLAN ID: 10

Click on "Add."

Add Import Export

Host ↑	MAC Address	IP Address
BYD Precision Manufacture Compa	98bb.1e.1c6d.05	192.168.10.50

Total 1 10/page 1 Go to 1

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Site HQ Save

Network Profiles Management VLAN and OOB

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Add Host

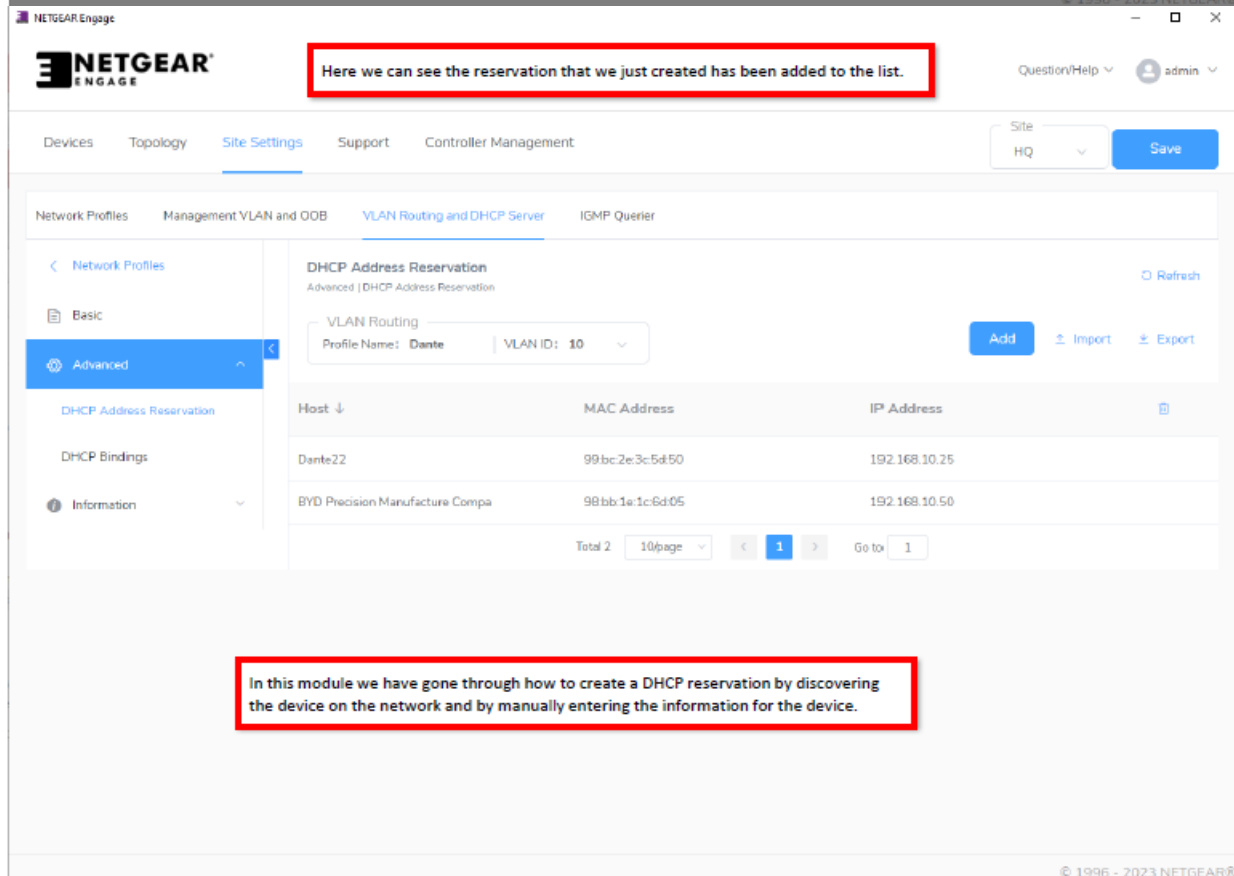
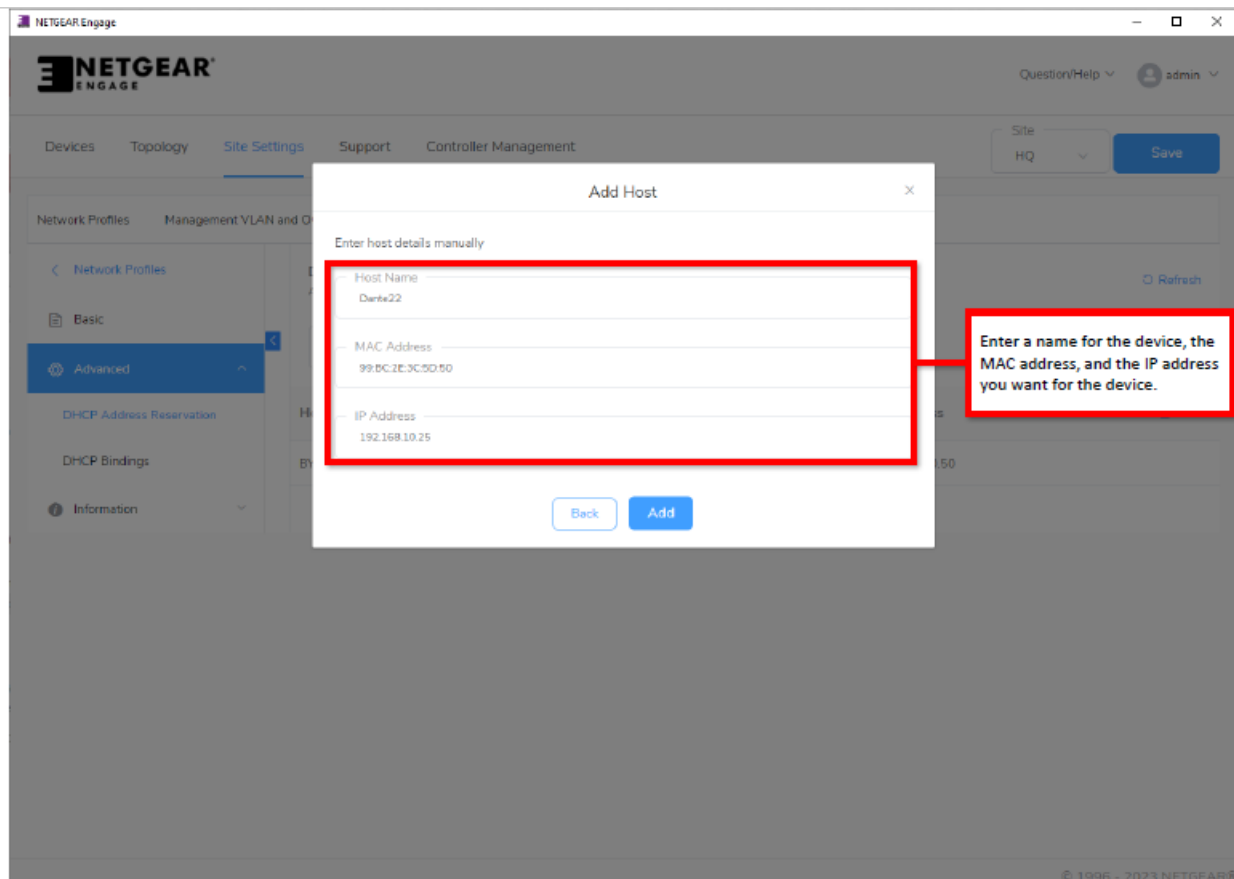
Select from the following hosts or click on "others" to add an entry manually

<input type="checkbox"/> Host	MAC Address ↓	IP Address
<input type="checkbox"/> BYD Precision Manufacture C ompa	98BB.1E.1C.6D.05	192.168.10.100

Click on "Others."

Cancel Add Others

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[Manuals+](#).