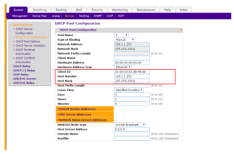

# NETGEAR AV Configuring DHCP Reservations User Guide



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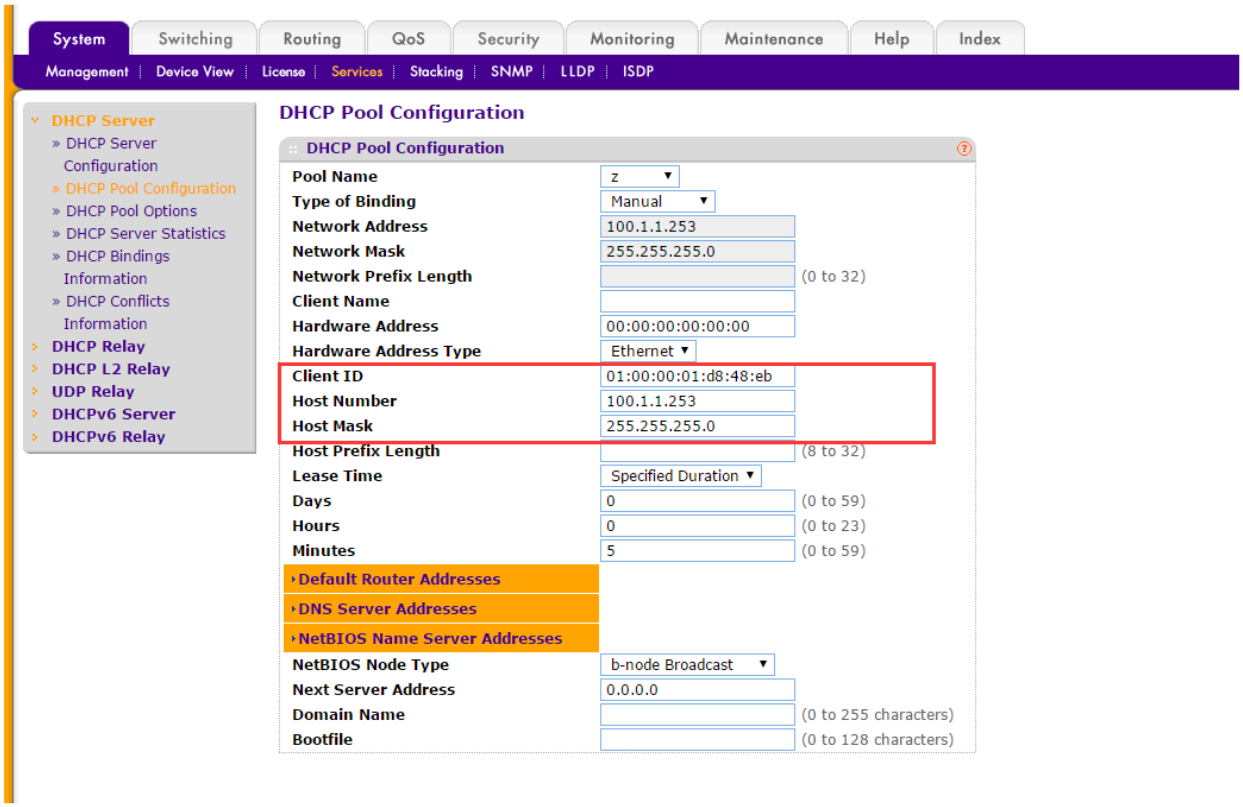
## NETGEAR AV Configuring DHCP Reservations




## 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

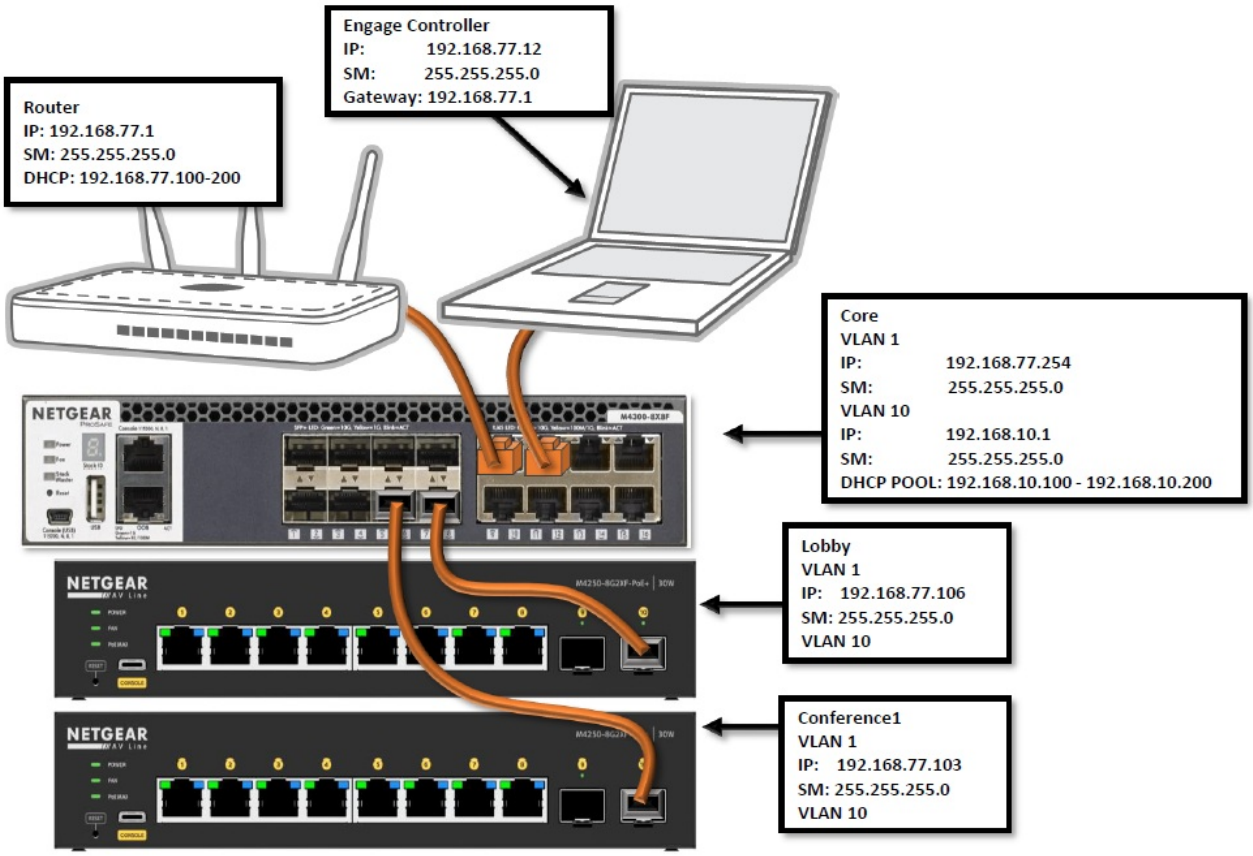
1. Open Engage and navigate to Site Settings.
2. Go to the VLAN Routing and DHCP Server tab.
3. In the Advanced section, click on DHCP Address Reservation.
4. Select the desired VLAN from the drop-down menu for which you want to create a DHCP reservation.
5. Click on Add.
6. To add a DHCP reservation 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.

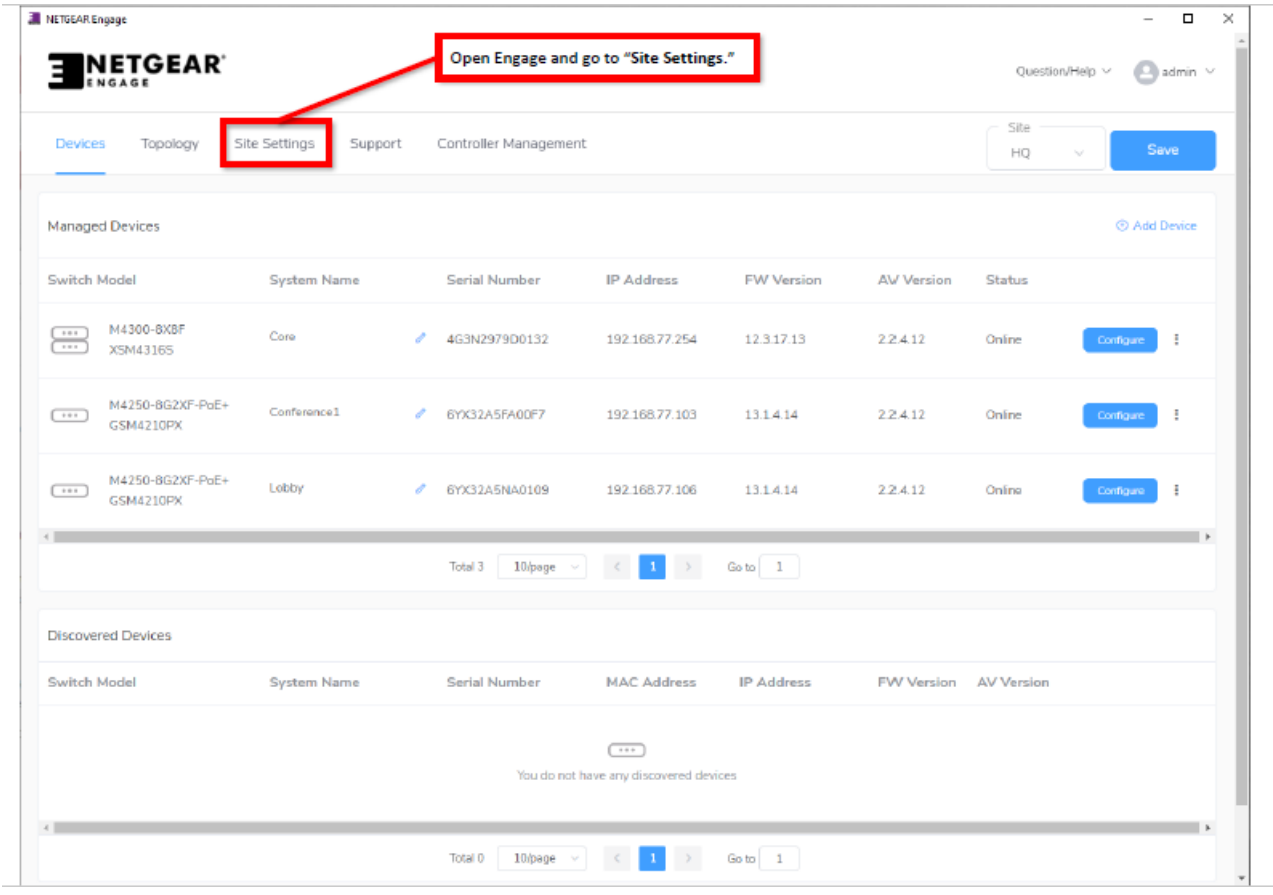
## Configuring Multiple VLANs with Internet Access

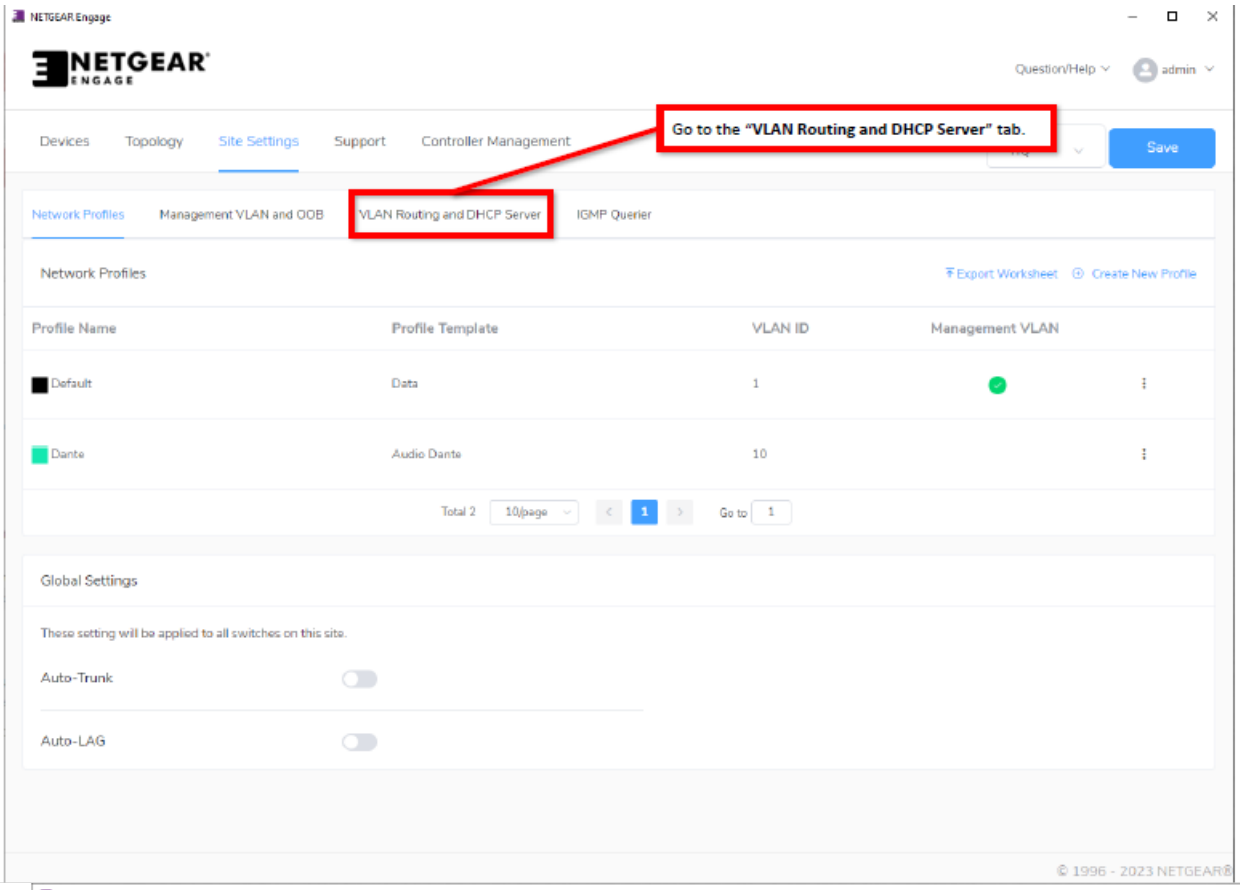
In this article we are going to show how to configure a DHCP reservation for a device on VLAN10.

- 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
NETGEAR ENGAGE
Question/Help
admin
Devices
Topology
Site Settings
Support
Controller Management
Go to the "VLAN Routing and DHCP Server" tab.
Save
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
Go to
Global Settings
These setting will be applied to all switches on this site.
Auto-Trunk
Auto-LAG
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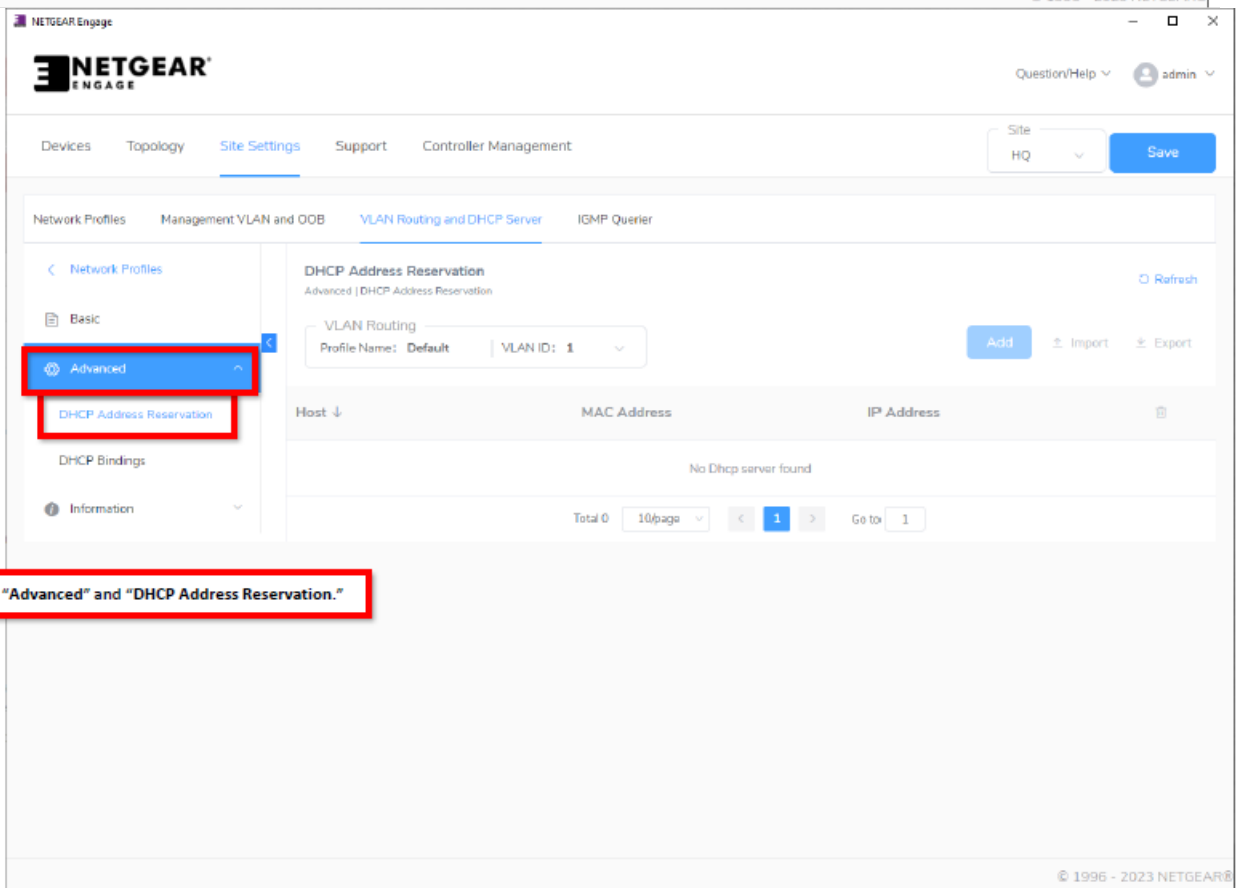
NETGEAR Engage
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Network Profiles
Management VLAN and OOB
VLAN Routing and DHCP Server
IGMP Querier
Network Profiles
Basic
Advanced
DHCP Address Reservation
DHCP Bindings
Information
DHCP Address Reservation
Advanced | DHCP Address Reservation
Refresh
VLAN Routing
Profile Name: Default
VLAN ID: 1
Add
Import
Export
Host
MAC Address
IP Address
No Dhcp server found
Total 0
10/page
Go to
Go to "Advanced" and "DHCP Address Reservation."
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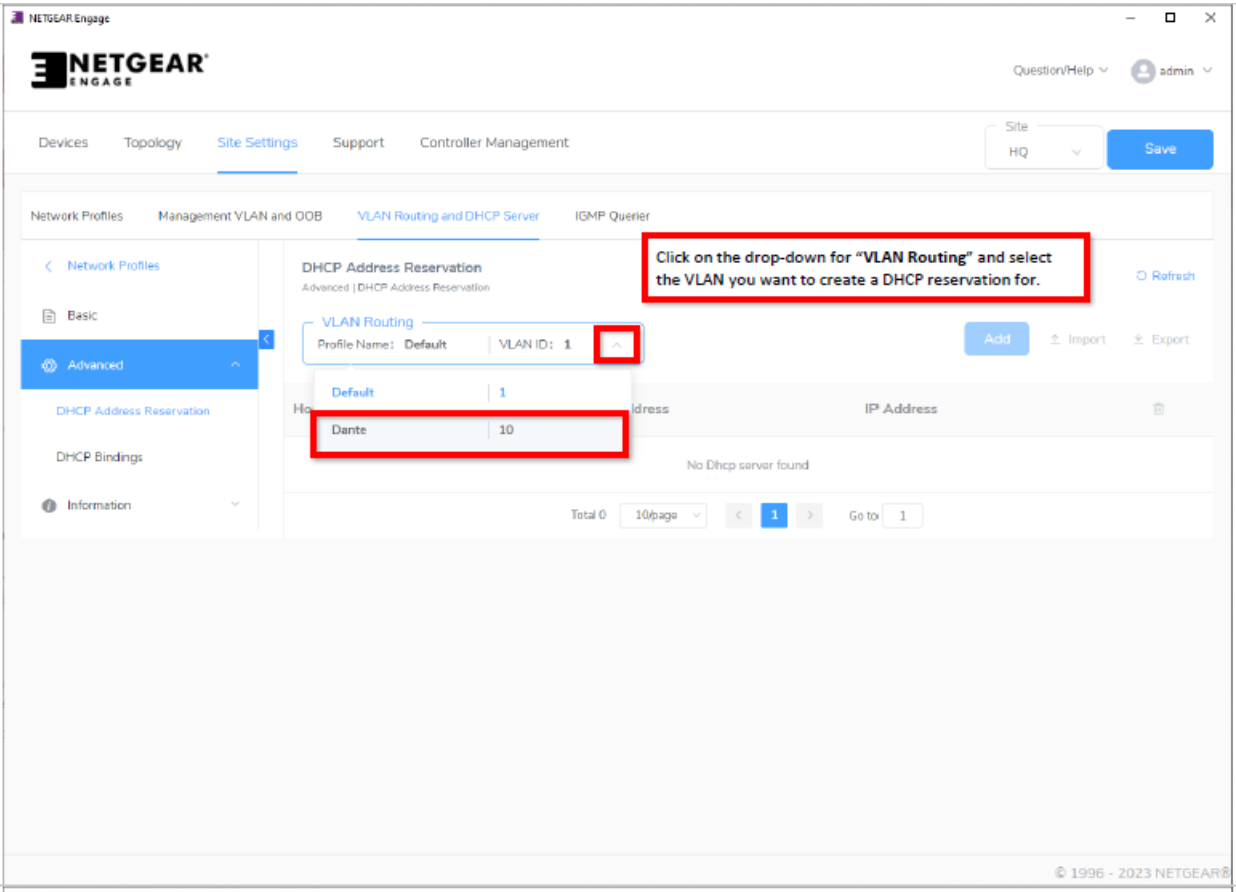
NETGEAR Engage
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Save
Network Profiles
Management VLAN and OOB
VLAN Routing and DHCP Server
IGMP Querier
Network Profiles
Basic
Advanced
DHCP Address Reservation
DHCP Bindings
Information
DHCP Address Reservation
Advanced | DHCP Address Reservation
Refresh
Click on the drop-down for "VLAN Routing" and select the VLAN you want to create a DHCP reservation for.
VLAN Routing
Profile Name: Default
VLAN ID: 1
Add
Import
Export
Default
1
Dante
10
IP Address
No Dhcp server found
Total 0
10/page
1
Go to
1
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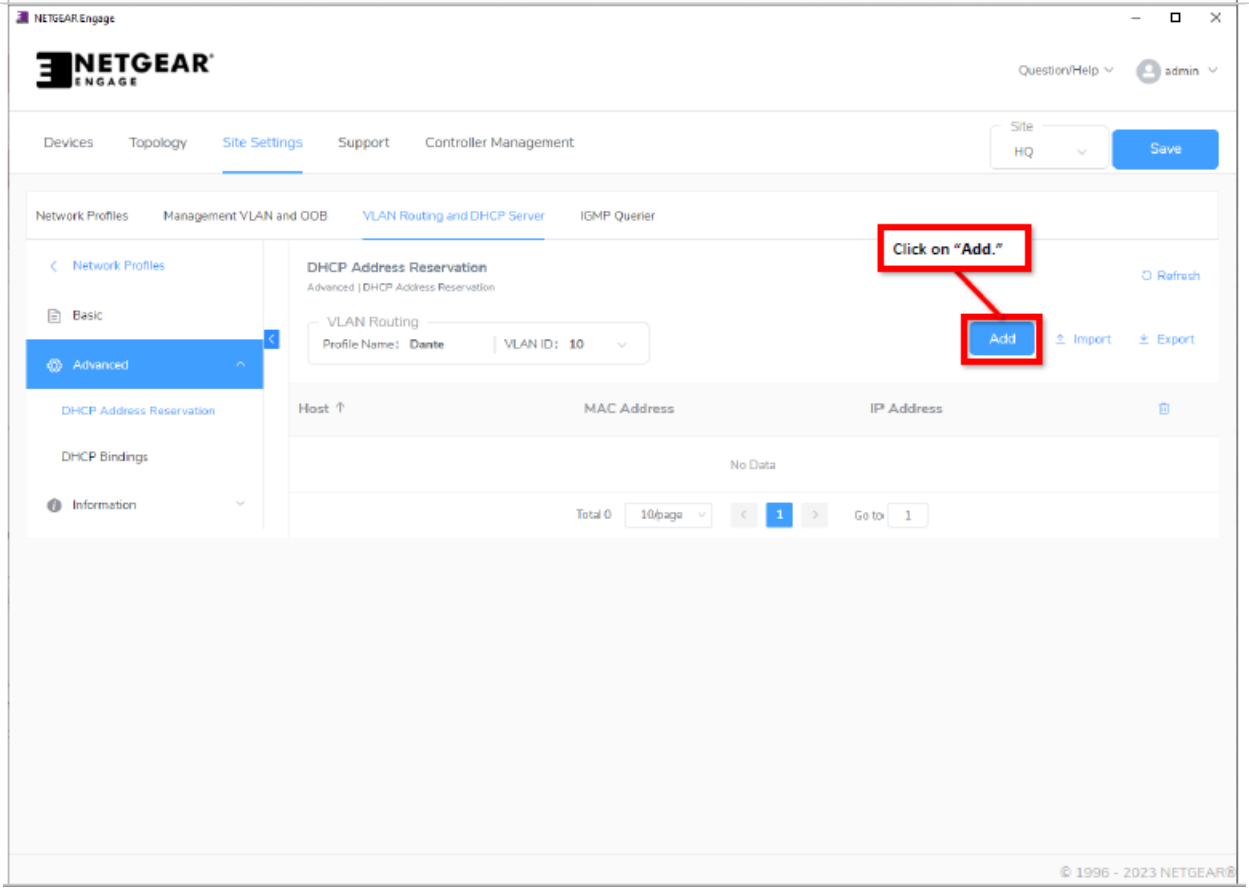
NETGEAR Engage
NETGEAR ENGAGE
Question/Help
admin
Devices
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Site Settings
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Controller Management
Site
HQ
Save
Network Profiles
Management VLAN and OOB
VLAN Routing and DHCP Server
IGMP Querier
Network Profiles
Basic
Advanced
DHCP Address Reservation
DHCP Bindings
Information
DHCP Address Reservation
Advanced | DHCP Address Reservation
Refresh
Click on "Add."
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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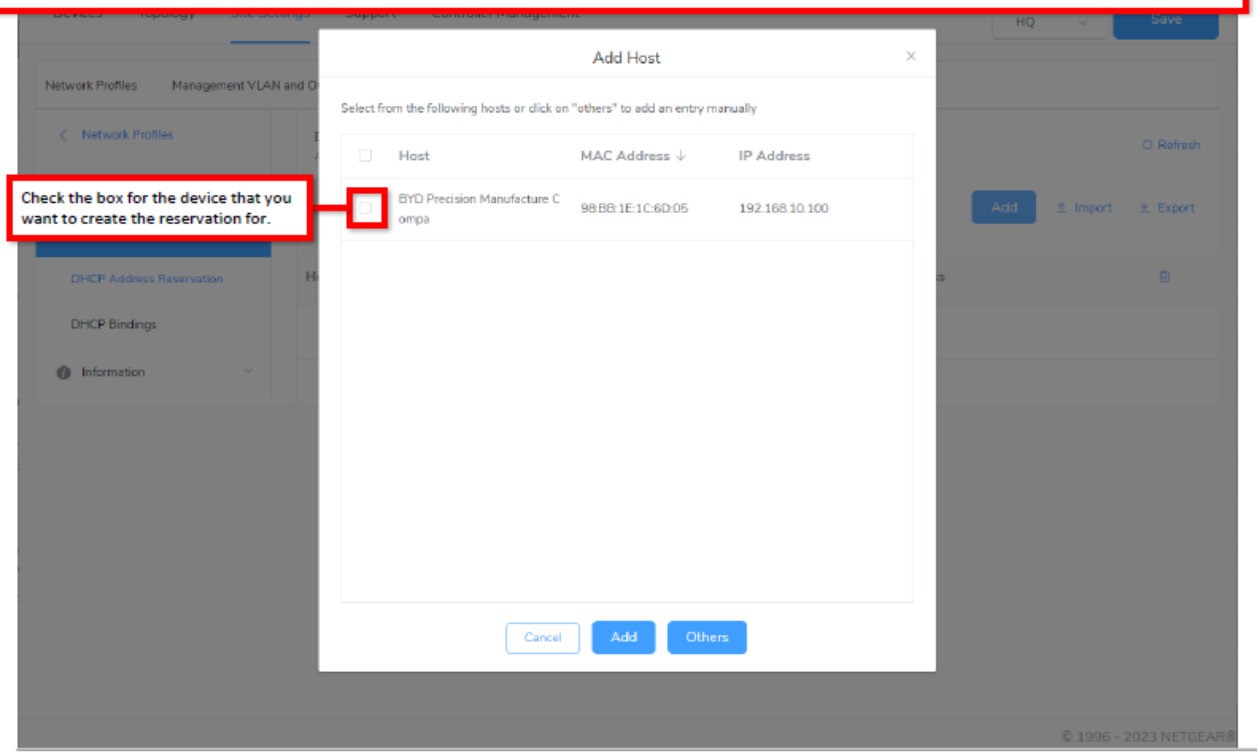
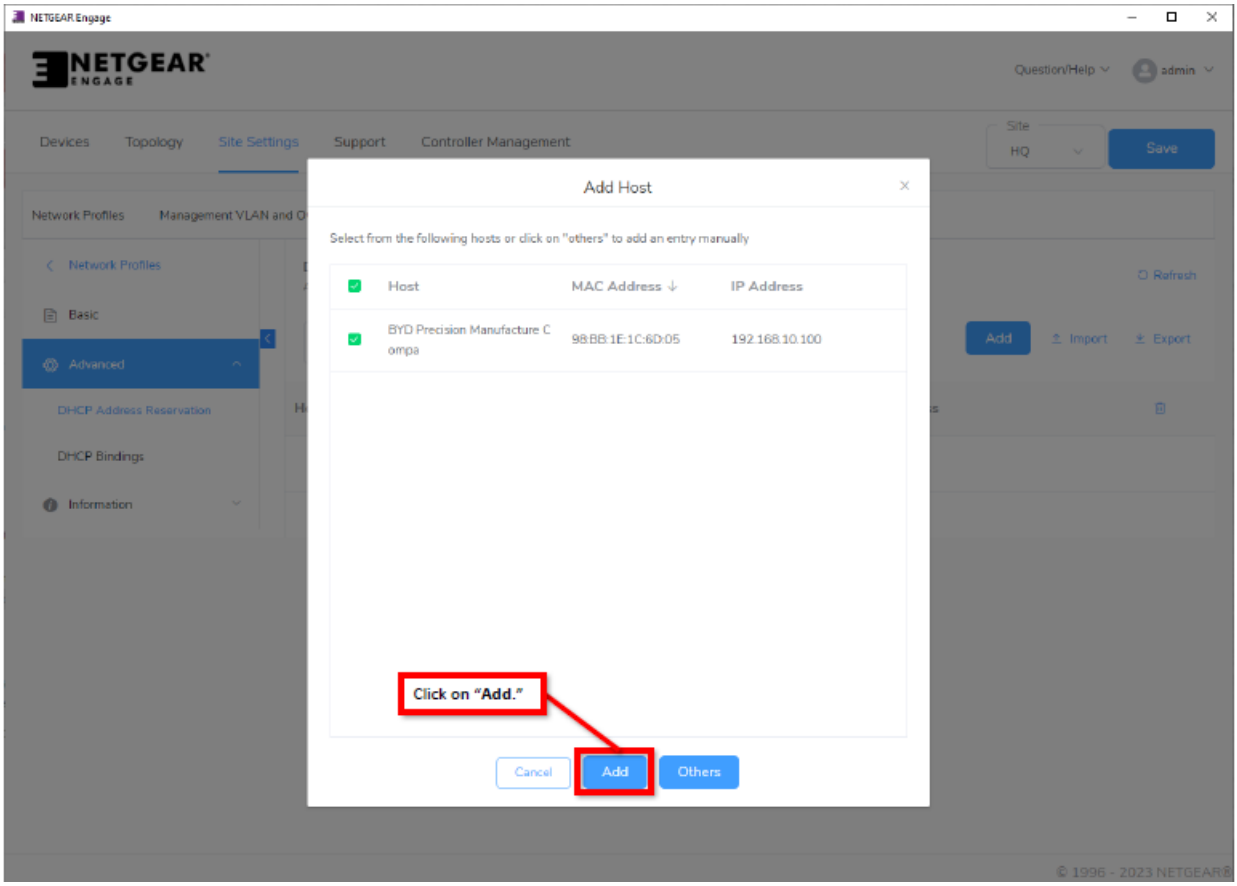
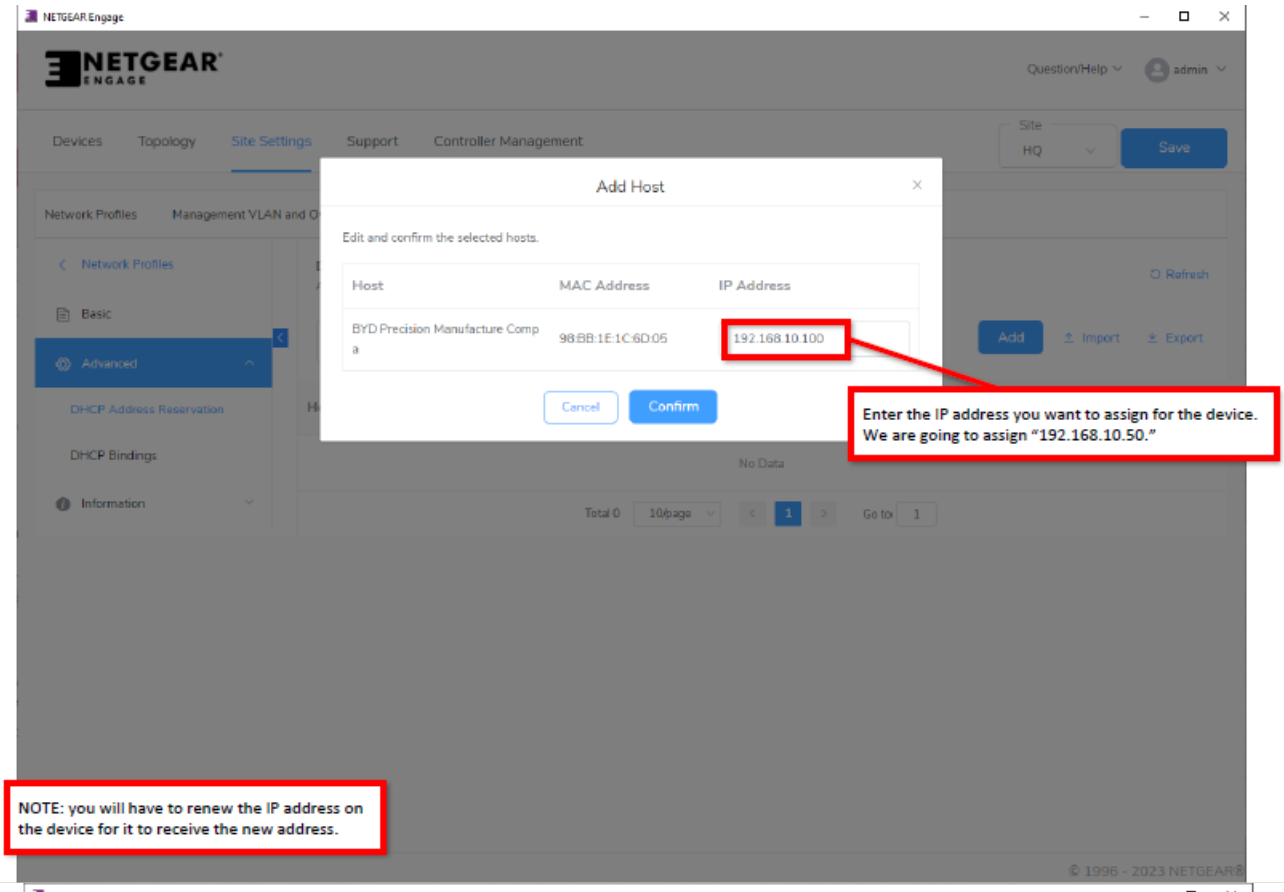
There are 2 ways to add a DHCP reservation:

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.




NETGEAR Engage
NETGEAR ENGAGE
Question/Help
admin
Devices
Topology
Site Settings
Support
Controller Management
Site
HQ
Save
Add Host
Edit and confirm the selected hosts.
Host
MAC Address
IP Address
BYD Precision Manufacture Comp a
98:BB:1E:1C:6D:05
192.168.10.100
Cancel
Confirm
Enter the IP address you want to assign for the device. We are going to assign "192.168.10.50."
Network Profiles
Basic
Advanced
DHCP Address Reservation
DHCP Bindings
Information
Refresh
Add
Import
Export
No Data
Total 0
10/page
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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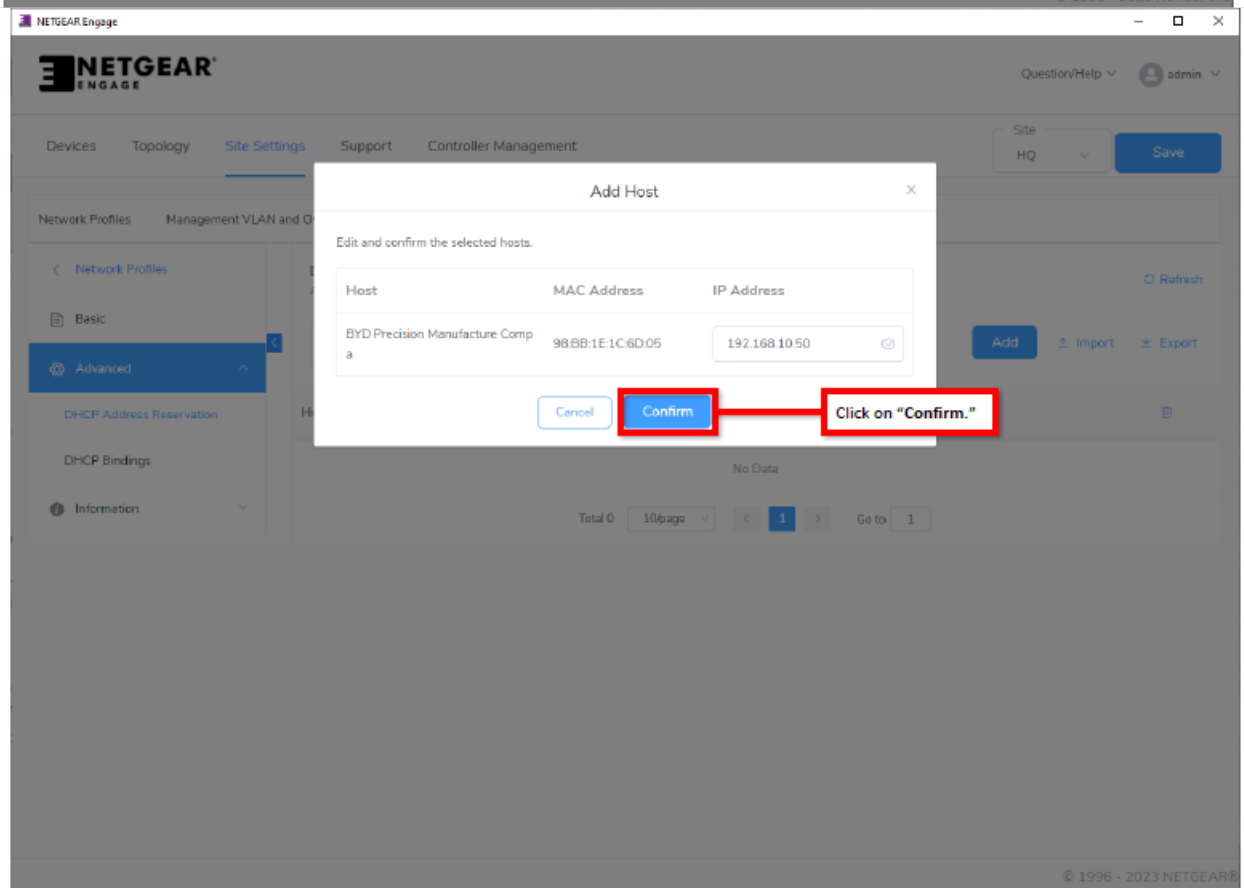
NETGEAR Engage
NETGEAR ENGAGE
Question/Help
admin
Devices
Topology
Site Settings
Support
Controller Management
Site
HQ
Save
Add Host
Edit and confirm the selected hosts.
Host
MAC Address
IP Address
BYD Precision Manufacture Comp a
98:BB:1E:1C:6D:05
192.168.10.50
Cancel
Confirm
Click on "Confirm."
Network Profiles
Basic
Advanced
DHCP Address Reservation
DHCP Bindings
Information
Refresh
Add
Import
Export
No Data
Total 0
10/page
Go to
1
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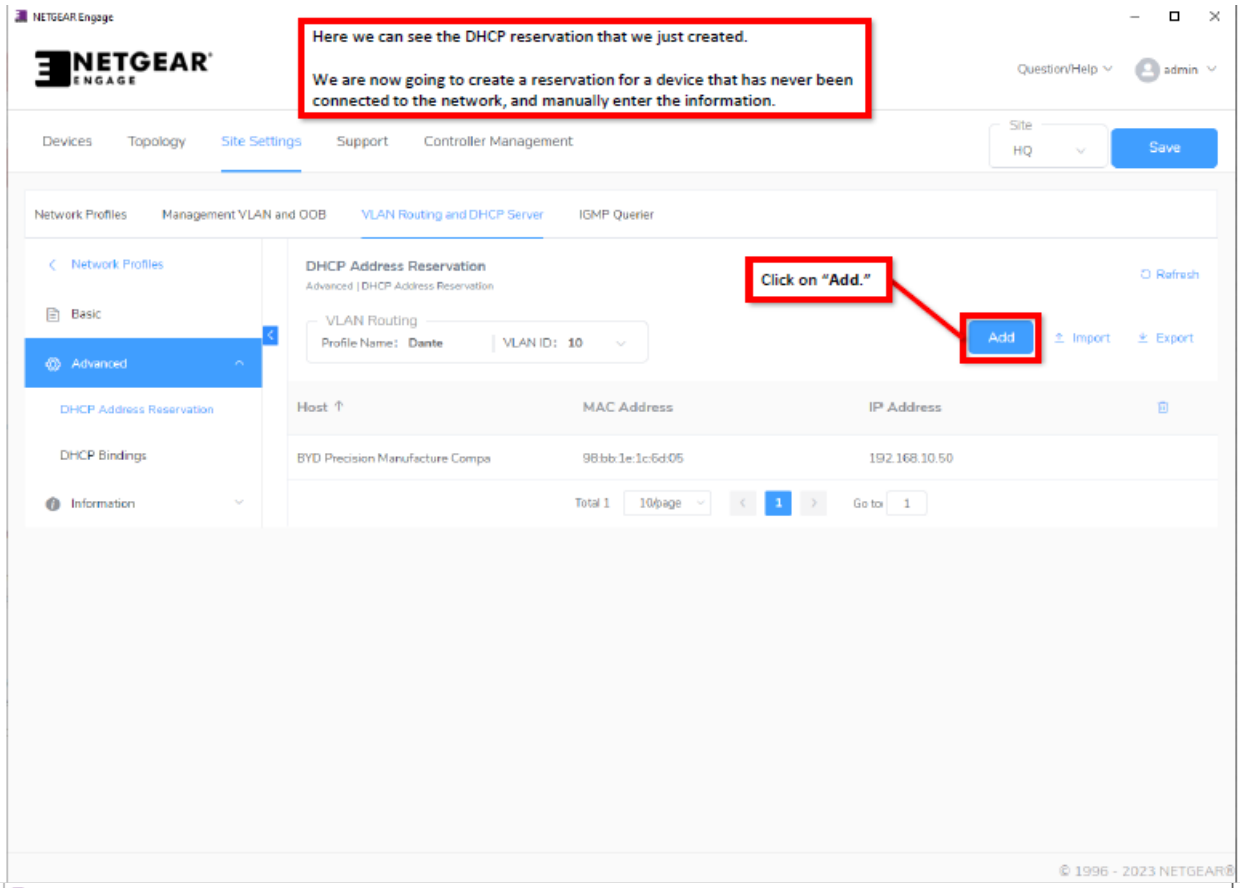
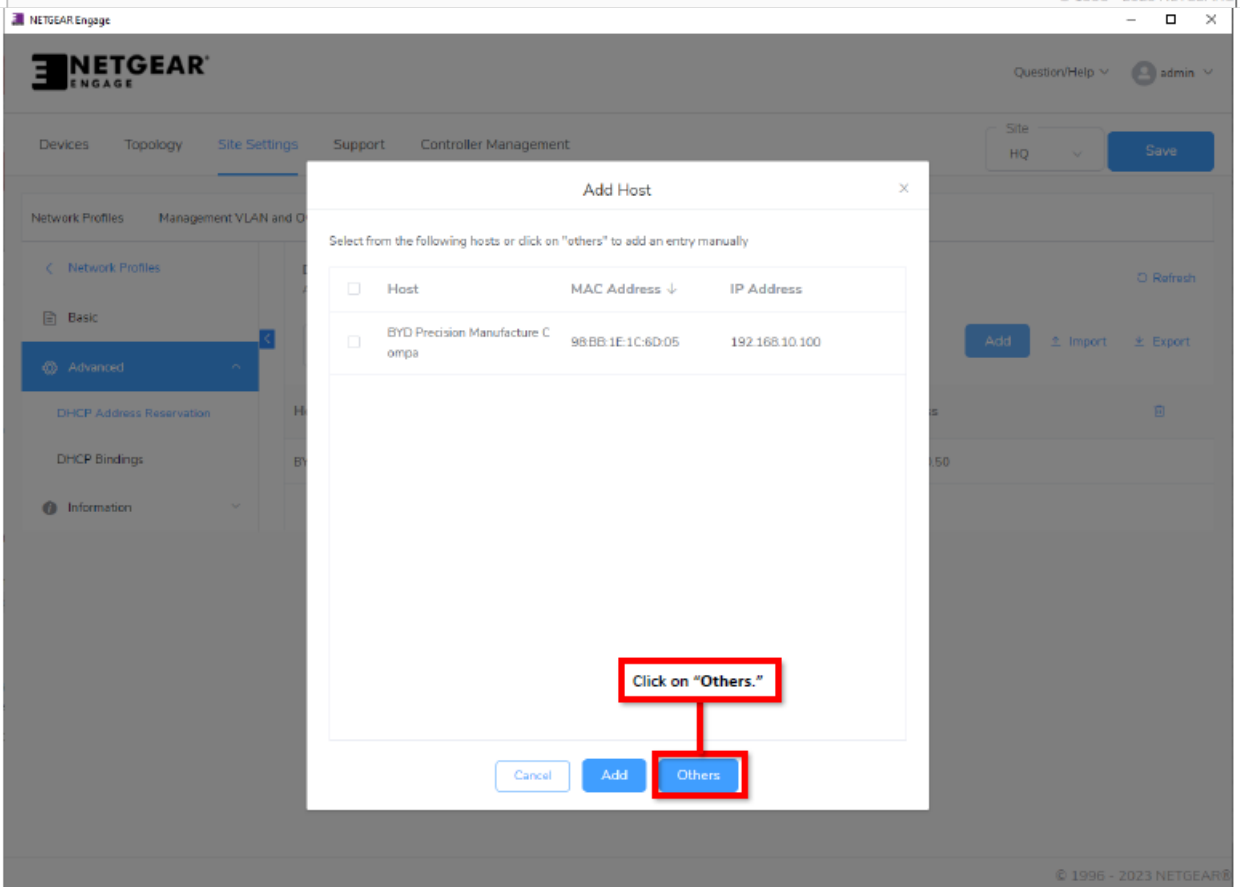

NETGEAR Engage
NETGEAR ENGAGE
Here we can see the DHCP reservation that we just created.
We are now going to create a reservation for a device that has never been connected to the network, and manually enter the information.
Question/Help
admin
Devices
Topology
Site Settings
Support
Controller Management
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
Click on "Add."
Refresh
VLAN Routing
Profile Name: Dante
VLAN ID: 10
Add
Import
Export
Host
MAC Address
IP Address
BYD Precision Manufacture Compa
98:bb:1e:1c:6d:05
192.168.10.50
Total 1
10/page
Go to
1
© 1996 - 2023 NETGEAR®


NETGEAR Engage
NETGEAR ENGAGE
Question/Help
admin
Devices
Topology
Site Settings
Support
Controller Management
Site
HQ
Save
Add Host
Select from the following hosts or click on "others" to add an entry manually
Host
MAC Address
IP Address
BYD Precision Manufacture Compa
98:BB:1E:1C:6D:05
192.168.10.100
Click on "Others."
Cancel
Add
Others
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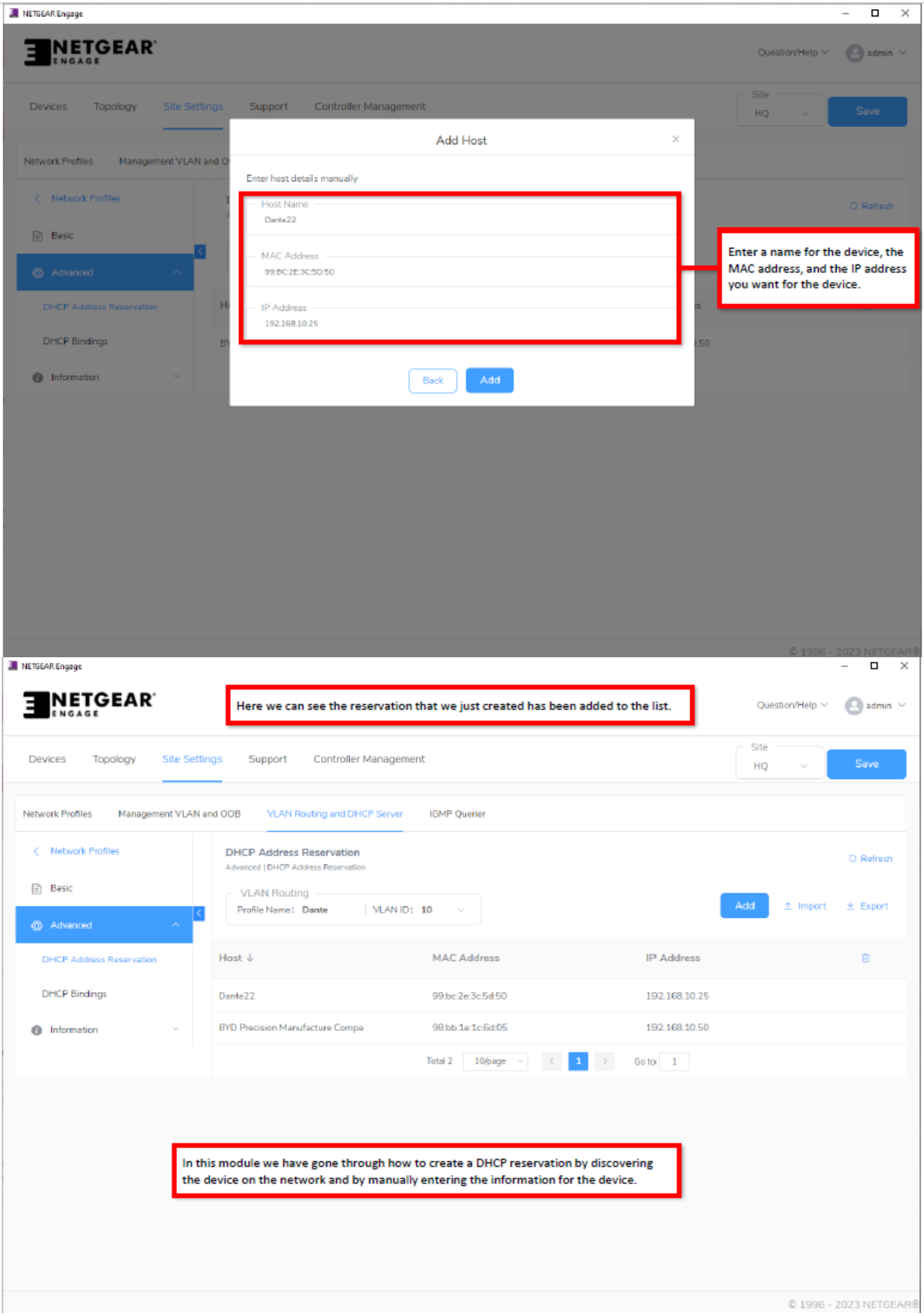


## Documents / Resources

| | |
|---|---|
| | **NETGEAR AV Configuring DHCP Reservations** [pdf] User Guide<br>Configuring DHCP Reservations, DHCP Reservations, Reservations |

Manuals+,