

Configuring the Device as a DHCP Server (NSM Procedure)

The Dynamic Host Configuration Protocol (DHCP) server provides a framework for passing configuration information to client hosts (such as PCs) on a TCP/IP network. A router or interface that acts as a DHCP server can allocate network IP addresses and deliver configuration settings to client hosts without user intervention. DHCP access service minimizes the overhead required to add clients to the network by providing a centralized, server-based setup. You do not have to manually create and maintain IP address assignments for clients.

To configure the device as a DHCP server for a subnet and a single client:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab and then double-click the device for which you want to configure a DHCP server.
3. Click the **Configuration** tab. In the configuration tree, select **System > Services > Dhcp**.
4. Add or modify DHCP settings as specified in Table 1 on page 1.
5. Click one:
 - **OK**—Saves the changes.
 - **Cancel**—Cancels the modifications.

Table 1: DHCP Server Configuration Details

Option	Function	Your Action
Maximum Lease Time	Specifies the maximum length of time in seconds for which a client can request and hold a lease on a DHCP server.	Select the maximum lease time.
Default Lease Time	Specifies the length of time in seconds that a client holds the lease for an IP address assigned by a DHCP server. This setting is used if a lease time is not requested by the client.	Select the default lease time.
Domain Name	Specifies the name of the domain in which clients search for a DHCP server host. This is the default domain name that is appended to hostnames that are not fully qualified.	Enter the domain name.

Table 1: DHCP Server Configuration Details (continued)

Option	Function	Your Action
Boot File	Specifies the boot file advertised to DHCP clients. After the client receives an IP address and the boot file location from the DHCP server, the client uses the boot image stored in the boot file to complete DHCP setup.	Enter the location of the boot file on the boot server. The filename can include a path name.
Boot Server	Specifies the name of the boot server advertised to DHCP clients. The client uses a boot file located on the boot server to complete DHCP setup.	Enter the address of a boot server. You must specify an IPv4 address, not a hostname.
Server Identifier	Specifies the server identifier. This is an optional setting that can be used to identify a DHCP server in a DHCP message.	Enter the IPv4 address of the server. This address must be accessible by all clients served within a specified range of addresses (based on an address pool or static binding).
Dhcp > Pool		
Name	Specifies the logical subnet address or netmask.	Enter the IP address pool range.
Low	Specifies lowest IP address in the pool that is available for dynamic address assignment.	Enter the IP address.
High	Specifies highest IP address in the pool that is available for dynamic address assignment.	Enter the IP address.
Dhcp > Domain Search		
Name	Specifies the domain search suffixes to be used by the clients.	Enter the list of domain names to search. The list can contain up to 6 domain names, with a total of up to 256 characters.
Dhcp > Name Server		
Name	Defines a Domain Name System (DNS) name server.	Enter the address of the name server. To configure multiple name servers, include multiple address options.
Dhcp > Option		
Name	Specifies the ID number that indexes the option and must be unique across a DHCP server.	Select the ID number.
Flag	Specifies the option type.	Select the option type.

Table 1: DHCP Server Configuration Details (continued)

Option	Function	Your Action
Dhcp > Static Binding		
Name	Specifies the MAC address of the client. This is a hardware address that uniquely identifies a client on the network.	Enter the MAC address of the client.
Dhcp > Static Binding > Fixed Address		
Name	Specifies the fixed IP address assigned to the client. Typically a client has one address assigned, but you can assign more.	Enter the fixed IP address.

Related Topics ■ [Configuring the Device as a DHCP Client \(NSM Procedure\)](#)

