

Monitoring DHCP Services

Purpose A switch can operate as a DHCP server. When it is a DHCP server, use the monitoring functionality to view information about dynamic and static DHCP leases, conflicts, pools, and statistics.

Action To monitor the DHCP server in the J-Web interface, select **Monitor>Services >DHCP**.

To monitor the DHCP server in the CLI, enter the following CLI commands:

- `show system services dhcp binding`
- `show system services dhcp conflict`
- `show system services dhcp pool`
- `show system services dhcp statistics`

Meaning Table 1 on page 1 summarizes the output fields in DHCP displays.

Table 1: Summary of DHCP Output Fields

Field	Values	Additional Information
DHCP Leases		
Allocated Address	List of IP addresses the DHCP server has assigned to clients.	
MAC Address	Corresponding media access control (MAC) address of the client.	
Binding Type	Type of binding assigned to the client: dynamic or static .	DHCP servers can assign a dynamic binding from a pool of IP addresses or a static binding to one or more specific IP addresses.
Lease Expires	Date and time the lease expires, or never for leases that do not expire.	
DHCP Conflicts		
Detection Time	Date and time the client detected the conflict.	
Detection Method	How the conflict was detected.	Only client-detected conflicts are displayed.
Address	IP address where the conflict occurs.	The addresses in the conflicts list remain excluded until you use the <code>clear system services dhcp conflict</code> command to manually clear the list.
DHCP Pools		
Pool Name	Subnet on which the IP address pool is defined.	
Low Address	Lowest address in the IP address pool.	
High Address	Highest address in the IP address pool.	

Table 1: Summary of DHCP Output Fields *(continued)*

Field	Values	Additional Information
Excluded Addresses	Addresses excluded from the address pool.	
DHCP Statistics		
Default lease time	Lease time assigned to clients that do not request a specific lease time.	
Minimum lease time	Minimum time a client can retain an IP address lease on the server.	
Maximum lease time	Maximum time a client can retain an IP address lease on the server.	
Packets dropped	Total number of packets dropped and the number of packets dropped due to a particular condition.	
Messages received	Number of BOOTREQUEST, DHCPDECLINE, DHCPDISCOVER, DHCPINFORM, DHCPRELEASE, and DHCPREQUEST messages sent from DHCP clients and received by the DHCP server.	
Messages sent	Number of BOOTREPLY, DHCPACK, DHCPOFFER, and DHCPNAK messages sent from the DHCP server to DHCP clients.	

- Related Topics**
- DHCP Services for EX-series Switches Overview
 - Configuring DHCP Services (J-Web Procedure)