

## 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 summarizes the output fields in DHCP displays.

**Table 1: Summary of DHCP Output Fields**

Field	Values	Additional Information
Global Tab		
Name	This column displays the following information: <ul style="list-style-type: none"><li>■ Boot lease length</li><li>■ Domain Name</li><li>■ Name servers</li><li>■ Server identifier</li><li>■ Domain search</li><li>■ Gateway routers</li><li>■ WINS server</li><li>■ Boot file</li><li>■ Boot server</li><li>■ Default lease time</li><li>■ Minimum lease time</li><li>■ Maximum lease time</li></ul>	
Value	Displays the value for each of the parameters in the Name column.	
Bindings tab		
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: <b>dynamic</b> or <b>static</b> .	DHCP servers can assign a <b>dynamic</b> binding from a pool of IP addresses or a <b>static</b> binding to one or more specific IP addresses.

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

Field	Values	Additional Information
Lease Expires	Date and time the lease expires, or <b>never</b> for leases that do not expire.	
<b>Pools Tab</b>		
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.	
Excluded Addresses	Addresses excluded from the address pool.	
<b>Conflicts Tab</b>		
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 <b>clear system services dhcp conflict</b> command to manually clear the list.
<b>DHCP Statistics</b>		
<b>Relay Statistics tab</b>		
Packet Counters	Displays the number of packet counters.	
Dropped Packet Counters	Graphically displays the number of dropped packet counters.	
<b>Statistics tab</b>		
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)

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