

## show dhcp relay binding

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<b>Syntax</b>	show dhcp relay binding <detail> <interface <i>interface-name</i> > < <i>ip-address</i>   <i>mac-address</i> > <logical-system <i>logical-system-name</i> > <routing-instance <i>routing-instance-name</i> >
<b>Release Information</b>	Command introduced in JUNOS Release 8.3. interface and <i>mac-address</i> options added in JUNOS Release 8.4.
<b>Description</b>	Display the address bindings in the Dynamic Host Configuration Protocol (DHCP) client table.
<b>Options</b>	<b>detail</b> —(Optional) Display detailed client binding information. <b>interface <i>interface-name</i></b> —(Optional) Perform this operation on the specified interface. <b><i>ip-address</i></b> —(Optional) IP address of the DHCP client. <b><i>mac-address</i></b> —(Optional) MAC address of the DHCP client. <b>logical-system <i>logical-system-name</i></b> —(Optional) Perform this operation on the specified logical system. <b>routing-instance <i>routing-instance-name</i></b> —(Optional) Perform this operation on the specified routing instance.
<b>Required Privilege Level</b>	view
<b>Related Topics</b>	<a href="#">[Unresolved xref]</a>
<b>List of Sample Output</b>	show dhcp relay binding on page 2 show dhcp relay binding detail on page 3 show dhcp relay binding interface on page 3 show dhcp relay binding <i>ip-address</i> on page 3 show dhcp relay binding <i>ip-address</i> detail on page 3 show dhcp relay binding <i>mac-address</i> on page 3
<b>Output Fields</b>	Table 1 on page 1 lists the output fields for the show dhcp relay binding command. Output fields are listed in the approximate order in which they appear.

**Table 1: show dhcp relay binding Output Fields**

Field Name	Field Description	Level of Output
<i>number</i> clients, ( <i>number</i> bound, <i>number</i> selecting, <i>number</i> renewing, <i>number</i> rebinding)	Summary counts of the total number of DHCP clients and the number of DHCP clients in each state	detail none

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**Table 1: show dhcp relay binding Output Fields** (continued)

Field Name	Field Description	Level of Output
IP address	IP address of the DHCP client.	All levels
Hardware address	Hardware address of the DHCP client.	All levels
Type	Type of DHCP packet processing performed on the router: <ul style="list-style-type: none"> <li>■ active—Router actively processes and relays DHCP packets.</li> <li>■ passive—Router passively snoops DHCP packets passing through the router.</li> </ul>	All levels
Lease expires at	Date and time at which the client's IP address lease expires.	All levels
State	State of the DHCP relay address binding table on the DHCP client: <ul style="list-style-type: none"> <li>■ init—Initial state.</li> <li>■ reboot—Client sends DHCP DISCOVER request.</li> <li>■ select—Client receives offers from DHCP servers.</li> <li>■ request—Client requests a DHCP server.</li> <li>■ add—Client is in process of being added.</li> <li>■ delete—Client is in process of being deleted.</li> <li>■ bound—Client has active IP address lease.</li> <li>■ renew—Client sends request to renew IP address lease.</li> <li>■ rebind—Client broadcasts request to renew IP address lease.</li> </ul>	detail
Active binding information	Information about active IP address binding: <ul style="list-style-type: none"> <li>■ IP address—IP address of the DHCP client.</li> <li>■ Hardware address—Hardware address of the DHCP client.</li> <li>■ Request received on—(detail level only) Interface on which the client request was received.</li> <li>■ relayed by—(detail level only) IP address on which the client request was relayed.</li> </ul>	All levels (unless specified otherwise) when command includes <i>ip-address</i> or <i>mac-address</i> value
Lease information	Information about the client's IP address lease: <ul style="list-style-type: none"> <li>■ Type—Type of IP address lease; always DHCP.</li> <li>■ Obtained at—Date and time at which the client's IP address lease was obtained.</li> <li>■ Expires at—Date and time at which the client's IP address lease expires.</li> <li>■ State—(detail level only) State of the DHCP relay address binding table on the DHCP client.</li> </ul>	All levels (unless specified otherwise) when command includes <i>ip-address</i> or <i>mac-address</i> value

```
show dhcp relay binding user@host> show dhcp relay binding
```

```
10 clients, (10 bound, 0 selecting, 0 renewing, 0 rebinding)
```

```
IP address      Hardware address  Type    Lease expires at
100.20.0.152    00:10:95:01:00:01 active  2007-02-15 05:25:47 PST
100.20.0.153    00:10:95:01:00:02 active  2007-02-15 05:25:48 PST
```

```

100.20.0.154    00:10:95:01:00:03 active 2007-02-15 05:25:49 PST
100.20.0.155    00:10:95:01:00:04 active 2007-02-15 05:25:50 PST
100.20.0.156    00:10:95:01:00:05 active 2007-02-15 05:25:51 PST
100.20.0.157    00:10:95:01:00:06 active 2007-02-15 05:25:52 PST
100.20.0.158    00:10:95:01:00:07 active 2007-02-15 05:25:53 PST
100.20.0.159    00:10:95:01:00:08 active 2007-02-15 05:25:54 PST
100.20.0.160    00:10:95:01:00:09 active 2007-02-15 05:25:55 PST
100.20.0.161    00:10:95:01:00:0a active 2007-02-15 05:25:56 PST

```

**show dhcp relay binding detail**

```
user@host> show dhcp relay binding detail
```

```
10 clients, (10 bound, 0 selecting, 0 renewing, 0 rebinding)
```

IP address	Hardware address	Type	Lease expires	State
100.20.0.152	00:10:95:01:00:01	active	2007-02-15 05:25:47 PST	bound
100.20.0.153	00:10:95:01:00:02	active	2007-02-15 05:25:48 PST	bound
100.20.0.154	00:10:95:01:00:03	active	2007-02-15 05:25:49 PST	bound
100.20.0.155	00:10:95:01:00:04	active	2007-02-15 05:25:50 PST	bound
100.20.0.156	00:10:95:01:00:05	active	2007-02-15 05:25:51 PST	bound
100.20.0.157	00:10:95:01:00:06	active	2007-02-15 05:25:52 PST	bound
100.20.0.158	00:10:95:01:00:07	active	2007-02-15 05:25:53 PST	bound
100.20.0.159	00:10:95:01:00:08	active	2007-02-15 05:25:54 PST	bound
100.20.0.160	00:10:95:01:00:09	active	2007-02-15 05:25:55 PST	bound
100.20.0.161	00:10:95:01:00:0a	active	2007-02-15 05:25:56 PST	bound

**show dhcp relay binding interface**

```
user@host> show dhcp relay binding interface fe-0/0/2
```

```
1 clients, (1 bound, 0 selecting, 0 renewing, 0 rebinding)
```

IP address	Hardware address	Type	Lease expires at
100.20.32.1	90:00:00:01:00:01	active	2007-03-27 15:06:20 EDT

**show dhcp relay binding ip-address**

```
user@host> show dhcp relay binding 100.20.4.138
```

```
Active binding information:
```

```

IP address      100.20.4.138
Hardware address 00:10:95:01:00:01

```

```
Lease information:
```

```

Type           DHCP
Obtained at    2007-02-14 06:37:33 PST
Expires at     2007-02-15 06:37:33 PST

```

**show dhcp relay binding ip-address detail**

```
user@host> show dhcp relay binding 100.20.32.1 detail
```

```
Active binding information:
```

```

IP address      100.20.32.1
Hardware address 90:00:00:01:00:01
Request received on fe-0/0/2.0, relayed by 100.20.32.2

```

```
Lease information:
```

```

Type           DHCP
Obtained at    2007-01-29 15:43:27 EST
Expires at     2007-01-29 15:53:27 EST
State          rebind

```

**show dhcp relay binding mac-address**

```
user@host> show dhcp relay binding 90:00:00:01:00:01
```

```
Active binding information:
```

```

IP address      100.20.32.1
Hardware address 90:00:00:01:00:01

```

```
Lease information:
```

```
Type           DHCP
```

Obtained at 2007-01-17 11:28:47 PST  
Expires at 2007-01-17 11:38:47 PST