

## show ethernet-switching table

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- Syntax** show ethernet-switching table  
<brief | detail | extensive>  
<interface *interface-name*>  
<vlan (*vlan-id* | *vlan-name*)>
- Release Information** Command introduced in JUNOS Release 9.0 for EX-series switches.
- Description** Displays the Ethernet switching table. If a VLAN range has been configured for any of the VLANs on the switch, the output displays the MAC addresses for the entire series of VLANs.
- Options** none—(Optional) Display brief information about the Ethernet switching table for all VLANs on the switch.
- brief | detail | extensive—(Optional) Display the specified level of output.
- interface-name* —(Optional) Display the Ethernet switching table for a specific interface.
- vlan (*vlan-id* | *vlan-name*)—(Optional) Display the Ethernet switching table for the specified VLAN ID or VLAN name. If a VLAN range has been configured for this VLAN name, the output displays the MAC addresses for the entire series of VLANs that were created for that name.
- Required Privilege Level** view
- Related Topics**
- Example: Setting Up Basic Bridging and a VLAN for an EX-series Switch
  - Example: Setting Up Bridging with Multiple VLANs for EX-series Switches
  - Example: Configure Automatic VLAN Administration Using GVRP
  - Example: Setting Up Q-in-Q Tunneling on EX-series Switches
- List of Sample Output**
- show ethernet-switching table on page 2  
show ethernet-switching table (where one VLAN is configured with VLAN range and the other is not) on page 3  
show ethernet-switching table brief on page 3  
show ethernet-switching table detail on page 4  
show ethernet-switching table extensive on page 5  
show ethernet-switching table interface ge-0/0/1 on page 6  
show ethernet-switching table vlan customer (vlan-name) on page 6  
show ethernet-switching table vlan employee (vlan-name is vlan-range) on page 6
- Output Fields** Table 1 on page 1 lists the output fields for the show ethernet-switching table command. Output fields are listed in the approximate order in which they appear.

**Table 1: show ethernet-switching table Output Fields**

Field Name	Field Description	Level of Output
VLAN	The name of a VLAN.	All levels

**Table 1: show ethernet-switching table Output Fields (continued)**

Field Name	Field Description	Level of Output
MAC address	The MAC address associated with the VLAN. If the If a VLAN range has been configured for a VLAN, the output displays the MAC addresses for the entire series of VLANs that were created with that name.	All levels
Type	The type of MAC address. Values are: <ul style="list-style-type: none"> <li>■ static—The MAC address is manually created.</li> <li>■ learn—The MAC address is learned dynamically from a packet's source MAC address.</li> <li>■ flood—The MAC address is unknown and flooded to all members.</li> </ul>	All levels
Age	The time remaining before the entry ages out and is removed from the Ethernet switching table.	All levels
Interfaces	Interface associated with learned MAC addresses or All-members (flood entry).	All levels
Learned	For learned entries, the time which the entry was added to the Ethernet-switching table.	detail, extensive

```

show ethernet-switching table user@switch> show ethernet-switching table
Ethernet-switching table: 57 entries, 17 learned
  VLAN      MAC address      Type      Age Interfaces
  F2        *                Flood     0 ge-0/0/44.0
  F2        00:00:05:00:00:03 Learn     0 ge-0/0/44.0
  F2        00:19:e2:50:7d:e0 Static    0 ge-0/0/44.0
  Linux     *                Flood     0 ge-0/0/44.0
  Linux     00:19:e2:50:7d:e0 Static    0 ge-0/0/44.0
  Linux     00:30:48:90:54:89 Learn     0 ge-0/0/47.0
  T1        *                Flood     0 ge-0/0/46.0
  T1        00:00:05:00:00:01 Learn     0 ge-0/0/46.0
  T1        00:00:5e:00:01:00 Static    0 ge-0/0/46.0
  T1        00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
  T1        00:19:e2:50:7d:e0 Static    0 ge-0/0/46.0
  T10       *                Flood     0 ge-0/0/46.0
  T10       00:00:5e:00:01:09 Static    0 ge-0/0/46.0
  T10       00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
  T10       00:19:e2:50:7d:e0 Static    0 ge-0/0/46.0
  T111     *                Flood     0 ge-0/0/15.0
  T111     00:19:e2:50:63:e0 Learn     0 ge-0/0/15.0
  T111     00:19:e2:50:7d:e0 Static    0 ge-0/0/15.0
  T111     00:19:e2:50:ac:00 Learn     0 ge-0/0/15.0
  T2        *                Flood     0 ge-0/0/46.0
  T2        00:00:5e:00:01:01 Static    0 ge-0/0/46.0
  T2        00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
  T2        00:19:e2:50:7d:e0 Static    0 ge-0/0/46.0
  T3        *                Flood     0 ge-0/0/46.0
  T3        00:00:5e:00:01:02 Static    0 ge-0/0/46.0
  T3        00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
  T3        00:19:e2:50:7d:e0 Static    0 ge-0/0/46.0
  T4        *                Flood     0 ge-0/0/46.0
  T4        00:00:5e:00:01:03 Static    0 ge-0/0/46.0
  T4        00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
[output truncated]

```

**show ethernet-switching table (where one VLAN is configured with VLAN range and the other is not)**

```

user@switch> show ethernet-switching table
Ethernet-switching table: 36 entries, 30 learned
VLAN          MAC address      Type      Age Interfaces
__employee_1__ *                Flood     - All-members
__employee_1__ 00:10:94:00:00:02 Learn     4:35 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:03 Learn     4:27 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:04 Learn     4:30 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:05 Learn     4:23 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:06 Learn     4:34 ge-0/0/6.0
__employee_2__ *                Flood     - All-members
__employee_2__ 00:10:94:00:00:02 Learn     4:27 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:03 Learn     4:35 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:04 Learn     4:22 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:05 Learn     4:31 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:06 Learn     4:26 ge-0/0/6.0
__employee_3__ *                Flood     - All-members
__employee_3__ 00:10:94:00:00:02 Learn     4:23 ge-0/0/6.0
__employee_3__ 00:10:94:00:00:03 Learn     4:31 ge-0/0/6.0
__employee_3__ 00:10:94:00:00:04 Learn     4:26 ge-0/0/6.0
__employee_3__ 00:10:94:00:00:05 Learn     4:35 ge-0/0/6.0
__employee_3__ 00:10:94:00:00:06 Learn     4:38 ge-0/0/6.0
__employee_4__ *                Flood     - All-members
__employee_4__ 00:10:94:00:00:02 Learn     4:23 ge-0/0/6.0
__employee_4__ 00:10:94:00:00:03 Learn     4:31 ge-0/0/6.0
__employee_4__ 00:10:94:00:00:04 Learn     4:26 ge-0/0/6.0
__employee_4__ 00:10:94:00:00:05 Learn     4:35 ge-0/0/6.0
__employee_4__ 00:10:94:00:00:06 Learn     4:38 ge-0/0/6.0
__employee_5__ *                Flood     - All-members
__employee_5__ 00:10:94:00:00:02 Learn     4:27 ge-0/0/6.0
__employee_5__ 00:10:94:00:00:03 Learn     4:35 ge-0/0/6.0
__employee_5__ 00:10:94:00:00:04 Learn     4:22 ge-0/0/6.0
__employee_5__ 00:10:94:00:00:05 Learn     4:31 ge-0/0/6.0
__employee_5__ 00:10:94:00:00:06 Learn     4:26 ge-0/0/6.0
customer      *                Flood     - All-members
customer      00:10:94:00:00:02 Learn     4:23 ge-0/0/6.0
customer      00:10:94:00:00:03 Learn     4:31 ge-0/0/6.0
customer      00:10:94:00:00:04 Learn     4:27 ge-0/0/6.0
customer      00:10:94:00:00:05 Learn     4:35 ge-0/0/6.0
customer      00:10:94:00:00:06 Learn     4:38 ge-0/0/6.0

```

**show ethernet-switching table brief**

```

user@switch> show ethernet-switching table brief
Ethernet-switching table: 57 entries, 17 learned
VLAN          MAC address      Type      Age Interfaces
F2            *                Flood     - All-members
F2            00:00:05:00:00:03 Learn     0 ge-0/0/44.0
F2            00:19:e2:50:7d:e0 Static    - Router
Linux         *                Flood     - All-members
Linux         00:19:e2:50:7d:e0 Static    - Router
Linux         00:30:48:90:54:89 Learn     0 ge-0/0/47.0
T1           *                Flood     - All-members
T1           00:00:05:00:00:01 Learn     0 ge-0/0/46.0
T1           00:00:5e:00:01:00 Static    - Router
T1           00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
T1           00:19:e2:50:7d:e0 Static    - Router
T10          *                Flood     - All-members
T10          00:00:5e:00:01:09 Static    - Router
T10          00:19:e2:50:63:e0 Learn     0 ge-0/0/46.0
T10          00:19:e2:50:7d:e0 Static    - Router
T111         *                Flood     - All-members
T111         00:19:e2:50:63:e0 Learn     0 ge-0/0/15.0
T111         00:19:e2:50:7d:e0 Static    - Router

```

```

T111          00:19:e2:50:ac:00 Learn      0 ge-0/0/15.0
T2            *                Flood      - All-members
T2            00:00:5e:00:01:01 Static     - Router
T2            00:19:e2:50:63:e0 Learn      0 ge-0/0/46.0
T2            00:19:e2:50:7d:e0 Static     - Router
T3            *                Flood      - All-members
T3            00:00:5e:00:01:02 Static     - Router
T3            00:19:e2:50:63:e0 Learn      0 ge-0/0/46.0
T3            00:19:e2:50:7d:e0 Static     - Router
T4            *                Flood      - All-members
T4            00:00:5e:00:01:03 Static     - Router
T4            00:19:e2:50:63:e0 Learn      0 ge-0/0/46.0

```

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**show ethernet-switching  
table detail**

```
user@switch> show ethernet-switching table detail
```

```
Ethernet-switching table: 57 entries, 17 learned
```

```
F2, *
```

```
Interface(s): ge-0/0/44.0
```

```
Type: Flood
```

```
F2, 00:00:05:00:00:03
```

```
Interface(s): ge-0/0/44.0
```

```
Type: Learn, Age: 0, Learned: 2:03:09
```

```
F2, 00:19:e2:50:7d:e0
```

```
Interface(s): Router
```

```
Type: Static
```

```
Linux, *
```

```
Interface(s): ge-0/0/47.0
```

```
Type: Flood
```

```
Linux, 00:19:e2:50:7d:e0
```

```
Interface(s): Router
```

```
Type: Static
```

```
Linux, 00:30:48:90:54:89
```

```
Interface(s): ge-0/0/47.0
```

```
Type: Learn, Age: 0, Learned: 2:03:08
```

```
T1, *
```

```
Interface(s): ge-0/0/46.0
```

```
Type: Flood
```

```
T1, 00:00:05:00:00:01
```

```
Interface(s): ge-0/0/46.0
```

```
Type: Learn, Age: 0, Learned: 2:03:07
```

```
T1, 00:00:5e:00:01:00
```

```
Interface(s): Router
```

```
Type: Static
```

```
T1, 00:19:e2:50:63:e0
```

```
Interface(s): ge-0/0/46.0
```

```
Type: Learn, Age: 0, Learned: 2:03:07
```

```
T1, 00:19:e2:50:7d:e0
```

```
Interface(s): Router
```

```
Type: Static
```

```
T10, *
```

```

Interface(s): ge-0/0/46.0
Type: Flood

T10, 00:00:5e:00:01:09
Interface(s): Router
Type: Static

T10, 00:19:e2:50:63:e0
Interface(s): ge-0/0/46.0
Type: Learn, Age: 0, Learned: 2:03:08

T10, 00:19:e2:50:7d:e0
Interface(s): Router
Type: Static

T111, *
Interface(s): ge-0/0/15.0
Type: Flood
[output truncated]

```

**show ethernet-switching  
table extensive**

```
user@switch> show ethernet-switching table extensive
```

```
Ethernet-switching table: 57 entries, 17 learned
```

```

F2, *
Interface(s): ge-0/0/44.0
Type: Flood

F2, 00:00:05:00:00:03
Interface(s): ge-0/0/44.0
Type: Learn, Age: 0, Learned: 2:03:09

F2, 00:19:e2:50:7d:e0
Interface(s): Router
Type: Static

Linux, *
Interface(s): ge-0/0/47.0
Type: Flood

Linux, 00:19:e2:50:7d:e0
Interface(s): Router
Type: Static

Linux, 00:30:48:90:54:89
Interface(s): ge-0/0/47.0
Type: Learn, Age: 0, Learned: 2:03:08

T1, *
Interface(s): ge-0/0/46.0
Type: Flood

T1, 00:00:05:00:00:01
Interface(s): ge-0/0/46.0
Type: Learn, Age: 0, Learned: 2:03:07

T1, 00:00:5e:00:01:00
Interface(s): Router
Type: Static

T1, 00:19:e2:50:63:e0
Interface(s): ge-0/0/46.0
Type: Learn, Age: 0, Learned: 2:03:07

```

```

T1, 00:19:e2:50:7d:e0
  Interface(s): Router
  Type: Static

T10, *
  Interface(s): ge-0/0/46.0
  Type: Flood

T10, 00:00:5e:00:01:09
  Interface(s): Router
  Type: Static

T10, 00:19:e2:50:63:e0
  Interface(s): ge-0/0/46.0
  Type: Learn, Age: 0, Learned: 2:03:08

T10, 00:19:e2:50:7d:e0
  Interface(s): Router
  Type: Static

T111, *
  Interface(s): ge-0/0/15.0
  Type: Flood
[output truncated]

```

**show ethernet-switching table interface ge-0/0/1**

```

user@switch> show ethernet-switching table interface ge-0/0/1
Ethernet-switching table: 1 unicast entries
VLAN          MAC address      Type      Age Interfaces
V1            *                Flood     - All-members
V1            00:00:05:00:00:05 Learn      0 ge-0/0/1.0

```

**show ethernet-switching table vlan customer (vlan-name)**

```

user@switch> show ethernet-switching table customer
Ethernet-switching table: 5 unicast entries
VLAN          MAC address      Type      Age Interfaces
customer      *                Flood     - All-members
customer      00:10:94:00:00:02 Learn      1:36 ge-0/0/6.0
customer      00:10:94:00:00:03 Learn      1:44 ge-0/0/6.0
customer      00:10:94:00:00:04 Learn      1:40 ge-0/0/6.0
customer      00:10:94:00:00:05 Learn      1:48 ge-0/0/6.0
customer      00:10:94:00:00:06 Learn      1:51 ge-0/0/6.0

```

**show ethernet-switching table vlan employee (vlan-name is vlan-range)**

```

user@switch> show ethernet-switching table employee
Ethernet-switching table: 25 unicast entries
VLAN          MAC address      Type      Age Interfaces
__employee_1__ *                Flood     - All-members
__employee_1__ 00:10:94:00:00:02 Learn      1:23 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:03 Learn      1:15 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:04 Learn      1:18 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:05 Learn      1:11 ge-0/0/6.0
__employee_1__ 00:10:94:00:00:06 Learn      1:22 ge-0/0/6.0
__employee_2__ *                Flood     - All-members
__employee_2__ 00:10:94:00:00:02 Learn      1:15 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:03 Learn      1:23 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:04 Learn      1:10 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:05 Learn      1:19 ge-0/0/6.0
__employee_2__ 00:10:94:00:00:06 Learn      1:14 ge-0/0/6.0
__employee_3__ *                Flood     - All-members
__employee_3__ 00:10:94:00:00:02 Learn      1:11 ge-0/0/6.0
__employee_3__ 00:10:94:00:00:03 Learn      1:19 ge-0/0/6.0

```

__employee_3__	00:10:94:00:00:04	Learn	1:14	ge-0/0/6.0
__employee_3__	00:10:94:00:00:05	Learn	1:23	ge-0/0/6.0
__employee_3__	00:10:94:00:00:06	Learn	1:26	ge-0/0/6.0
__employee_4__	*	Flood	-	All-members
__employee_4__	00:10:94:00:00:02	Learn	1:11	ge-0/0/6.0
__employee_4__	00:10:94:00:00:03	Learn	1:19	ge-0/0/6.0
__employee_4__	00:10:94:00:00:04	Learn	1:14	ge-0/0/6.0
__employee_4__	00:10:94:00:00:05	Learn	1:23	ge-0/0/6.0
__employee_4__	00:10:94:00:00:06	Learn	1:26	ge-0/0/6.0
__employee_5__	*	Flood	-	All-members
__employee_5__	00:10:94:00:00:02	Learn	1:15	ge-0/0/6.0
__employee_5__	00:10:94:00:00:03	Learn	1:23	ge-0/0/6.0
__employee_5__	00:10:94:00:00:04	Learn	1:10	ge-0/0/6.0
__employee_5__	00:10:94:00:00:05	Learn	1:19	ge-0/0/6.0
__employee_5__	00:10:94:00:00:06	Learn	1:14	ge-0/0/6.0

