

Chapter 34

DTD for Layer 2 Control Protocol Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-l2cp.dtd`, which lists the JUNOS XML tags that contain the Layer 2 Control Protocol (L2CP) information. The associated XML namespace is <http://xml.juniper.net/junos/9.3R1/junos-l2cp>. To review reference pages for the tags, see “Summary of Layer 2 Control Protocol Response Tags” on page 973.

```
<!-- Copyright (c) 2000-2008, Juniper Networks, Inc. -->
```

```
<!-- All rights reserved. -->
```

```
<!-- junos-l2cp.dtd -->
```

```
<!ELEMENT administrative-mode (#PCDATA)>
```

```
<!ELEMENT administrative-state (#PCDATA)>
```

```
<!ELEMENT authentication-failed-interface (#PCDATA)>
```

```
<!ELEMENT authentication-failed-mac-addr (#PCDATA)>
```

```
<!ELEMENT authentication-failed-user (#PCDATA)>
```

```
<!ELEMENT boundary-port (#PCDATA)>
```

```
<!ELEMENT bpdus-destination-mac-address (#PCDATA)>
```

```
<!ELEMENT bpdus-received-5seconds (#PCDATA)>
```

```
<!ELEMENT bpdus-sent-5seconds (#PCDATA)>
```

```
<!ELEMENT bridge-mac (#PCDATA)>
```

```
<!ELEMENT bridge-priority (#PCDATA)>
```

```
<!ELEMENT cist-bridge-parameters (cist-id | root-bridge | root-port | root-cost |  
regional-root-bridge | internal-root-cost | hello-time-learned | max-age-learned |  
forward-delay-learned | msg-age | hop-count | time-since-last-tc | topology-change-count |  
extended-system-id | this-bridge | hello-time-configured | max-age-configured |  
forward-delay-configured | max-hop-count-configured | path-cost-method)*>
```

```
<!ELEMENT cist-id (#PCDATA)>
```

```
<!ELEMENT designated-bridge-mac (#PCDATA)>
```

```

<!ATTLIST designated-bridge-mac junos:format CDATA #IMPLIED>

<!ELEMENT designated-bridge-priority (#PCDATA)>

<!ELEMENT designated-port-number (#PCDATA)>
<!ATTLIST designated-port-number junos:format CDATA #IMPLIED>

<!ELEMENT designated-port-priority (#PCDATA)>

<!ELEMENT dot1x-authentication-failed-users (authentication-failed-interface |
authentication-failed-mac-addr | authentication-failed-user)*>

<!ELEMENT dot1x-interface-information (interface | dot1x-static-mac-address |
dot1x-authentication-failed-users)*>

<!ELEMENT dot1x-static-mac-address (static-mac-address | static-mac-vlan-assignment
| static-mac-interface)*>

<!ELEMENT epoch (#PCDATA)>

<!ELEMENT extended-system-id (#PCDATA)>

<!ELEMENT forward-delay-configured (#PCDATA)>

<!ELEMENT forward-delay-learned (#PCDATA)>

<!ELEMENT frame-control (#PCDATA)>

<!ELEMENT guest-vlan (#PCDATA)>

<!ELEMENT hardware-learning (#PCDATA)>

<!ELEMENT hello-time-configured (#PCDATA)>

<!ELEMENT hello-time-learned (#PCDATA)>

<!ELEMENT hop-count (#PCDATA)>

<!ELEMENT interface (user-name | user-mac-address | role | state | administrative-state
| administrative-mode | number-of-retries | quiet-period | transmit-period |
reauthentication | reauthentication-interval | supplicant-timeout | server-timeout |
max-eapol-request | frame-control | guest-vlan |
number-of-authentication-bypassed-clients | static-mac-bypass |
number-of-connected-supplicants | reauthentication-due)*>
<!ATTLIST interface junos:style CDATA #IMPLIED>

<!ELEMENT internal-root-cost (#PCDATA)>

<!ELEMENT kernel-action (#PCDATA)>

<!ELEMENT kernel-if-name (#PCDATA)>

<!ELEMENT kernel-state (#PCDATA)>

<!ELEMENT kernel-stp-instance (#PCDATA)>

<!ELEMENT l2pt-interface-entry (protocols)*>

```

```

<!ELEMENT l2pt-interface-list (l2pt-interface-entry)*>

<!ELEMENT link-type (#PCDATA)>

<!ELEMENT max-age-configured (#PCDATA)>

<!ELEMENT max-age-learned (#PCDATA)>

<!ELEMENT max-eapol-request (#PCDATA)>

<!ELEMENT max-hop-count-configured (#PCDATA)>

<!ELEMENT message-type (#PCDATA)>

<!ELEMENT msg-age (#PCDATA)>

<!ELEMENT msti-bridge-parameters (msti-id | msti-regional-root-bridge | root-port |
root-cost | hello-time-learned | max-age-learned | forward-delay-learned |
max-hop-count-configured | hop-count | time-since-last-tc | topology-change-count |
extended-system-id | this-bridge | hello-time-configured | max-age-configured |
forward-delay-configured | path-cost-method)*>

<!ELEMENT msti-id (#PCDATA)>

<!ELEMENT msti-regional-root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT mstp-configuration (mstp-name | mstp-revision | mstp-configuration-digest |
vlan-map)*>

<!ELEMENT mstp-configuration-digest (#PCDATA)>

<!ELEMENT mstp-name (#PCDATA)>

<!ELEMENT mstp-revision (#PCDATA)>

<!ELEMENT next-bpdu-time (#PCDATA)>

<!ELEMENT number-of-authentication-bypassed-clients (#PCDATA)>

<!ELEMENT number-of-connected-suplicants (#PCDATA)>

<!ELEMENT number-of-retries (#PCDATA)>

<!ELEMENT path-cost-method (#PCDATA)>

<!ELEMENT port-cost (#PCDATA)>

<!ELEMENT port-migrated-protocol (#PCDATA)>

<!ELEMENT port-priority (#PCDATA)>

<!ELEMENT port-role (#PCDATA)>

<!ELEMENT port-state (#PCDATA)>

<!ELEMENT protocol (#PCDATA)>

```

```

<!ELEMENT protocols (#PCDATA)>

<!ELEMENT quiet-period (#PCDATA)>

<!ELEMENT reauthentication (#PCDATA)>

<!ELEMENT reauthentication-due (#PCDATA)>

<!ELEMENT reauthentication-interval (#PCDATA)>

<!ELEMENT regional-root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT role (#PCDATA)>

<!ELEMENT root-bridge (bridge-priority | bridge-mac)*>

<!ELEMENT root-cost (#PCDATA)>

<!ELEMENT root-port (#PCDATA)>

<!ELEMENT routing-instance-name (#PCDATA)>

<!ELEMENT server-timeout (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT static-mac-address (#PCDATA)>

<!ELEMENT static-mac-bypass (#PCDATA)>

<!ELEMENT static-mac-interface (#PCDATA)>

<!ELEMENT static-mac-vlan-assignment (#PCDATA)>

<!ELEMENT stp-bridge (routing-instance-name | bpdu-destination-mac-address |
protocol | cist-bridge-parameters | msti-bridge-parameters | vst-bridge-parameters)*>

<!ELEMENT stp-context-statistics-information (message-type | total-bpdus-sent |
total-bpdus-received | bpdus-sent-5seconds | bpdus-received-5seconds |
vstp-statistics)*>

<!ELEMENT stp-index (#PCDATA)>

<!ELEMENT stp-instance (stp-interfaces)*>

<!ELEMENT stp-interface-entry (port-priority | designated-port-priority |
designated-port-number | port-cost | port-state | designated-bridge-priority |
designated-bridge-mac | port-role | link-type | port-migrated-protocol | boundary-port)*>

<!ELEMENT stp-interface-information (stp-instance)*>

<!ELEMENT stp-interface-statistics (stp-interface-statistics-entry |
vstp-interface-statistics)*>

<!ELEMENT stp-interface-statistics-entry (total-bpdus-sent | total-bpdus-received |
next-bpdu-time)*>

```

```

<!ELEMENT stp-interfaces (stp-interface-entry)*>
<!ATTLIST stp-interfaces junos:style CDATA #IMPLIED>

<!ELEMENT stp-kernel-table (stp-kernel-table-entry)*>

<!ELEMENT stp-kernel-table-entry (stp-index | kernel-if-name | kernel-stp-instance |
kernel-state | kernel-action | epoch | hardware-learning)*>

<!ELEMENT supplicant-timeout (#PCDATA)>

<!ELEMENT task (task-name | task-no-information | task-timer)*>

<!ELEMENT task-block (tb-name | tb-size | tb-alloc-size | tb-terse-transient |
tb-terse-fullpage | tb-terse-debug | tb-alloc-blocks | tb-alloc-bytes | tb-max-alloc-blocks |
tb-max-alloc-bytes)*>

<!ELEMENT task-block-list (task-block)*>

<!ELEMENT task-gres-state (#PCDATA)>

<!ELEMENT task-information (task)*>

<!ELEMENT task-lite-page (tlp-name | tlp-alloc-pages | tlp-alloc-bytes |
tlp-max-alloc-pages | tlp-max-alloc-bytes)*>

<!ELEMENT task-lite-page-list (task-lite-page)*>

<!ELEMENT task-malloc (tm-name | tm-allocs | tm-alloc-bytes | tm-max-allocs |
tm-max-alloc-bytes | tm-function-calls)*>

<!ELEMENT task-malloc-list (task-malloc)*>

<!ELEMENT task-memory-allocator-report (task-block-list | task-lite-page-list |
task-memory-total-bytes | task-memory-total-max-bytes)*>

<!ELEMENT task-memory-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-free-size (#PCDATA)>

<!ELEMENT task-memory-in-use-avail (#PCDATA)>

<!ELEMENT task-memory-in-use-size (#PCDATA)>

<!ELEMENT task-memory-information (task-memory-in-use-size |
task-memory-in-use-avail | task-memory-max-size | task-memory-max-avail |
task-memory-max-when | task-memory-free-size | task-memory-overall-report |
task-memory-allocator-report | task-memory-malloc-usage-report |
task-memory-dynamic-allocs | task-memory-max-dynamic-allocs | task-memory-bss-bytes
| task-memory-max-bss-bytes | task-memory-page-data-bytes |
task-memory-max-page-data-bytes | task-memory-dir-bytes | task-memory-max-dir-bytes |
task-memory-total-bytes-in-use | task-memory-total-bytes-percent)*>
<!ATTLIST task-memory-information junos:style CDATA #IMPLIED>

```

```

<!ELEMENT task-memory-malloc-usage-report (task-malloc-list | task-memory-total-bytes
| task-memory-total-max-bytes)*>

<!ELEMENT task-memory-max-avail (#PCDATA)>

<!ELEMENT task-memory-max-bss-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dir-bytes (#PCDATA)>

<!ELEMENT task-memory-max-dynamic-allocs (#PCDATA)>

<!ELEMENT task-memory-max-page-data-bytes (#PCDATA)>

<!ELEMENT task-memory-max-size (#PCDATA)>

<!ELEMENT task-memory-max-when (#PCDATA)>

<!ELEMENT task-memory-overall-report (task-size-block-list | task-memory-stats-list |
task-memory-total-bytes | task-memory-total-max-bytes |
task-memory-total-free-bytes)*>

<!ELEMENT task-memory-page-data-bytes (#PCDATA)>

<!ELEMENT task-memory-stats (tms-name | tms-allocs | tms-mallocs | tms-alloc-bytes |
tms-max-allocs | tms-max-bytes | tms-free-bytes)*>

<!ELEMENT task-memory-stats-list (task-memory-stats)*>

<!ELEMENT task-memory-total-bytes (#PCDATA)>

<!ELEMENT task-memory-total-bytes-in-use (#PCDATA)>

<!ELEMENT task-memory-total-bytes-percent (#PCDATA)>

<!ELEMENT task-memory-total-free-bytes (#PCDATA)>

<!ELEMENT task-memory-total-max-bytes (#PCDATA)>

<!ELEMENT task-name (#PCDATA)>

<!ELEMENT task-no-information EMPTY>

<!ELEMENT task-protocol-replication-name (#PCDATA)>

<!ELEMENT task-protocol-replication-state (#PCDATA)>

<!ELEMENT task-re-mode (#PCDATA)>

<!ELEMENT task-replication-state (task-gres-state | task-re-mode |
task-protocol-replication-state | task-protocol-replication-name)*>

<!ELEMENT task-size-block (tsb-size | tsb-terse-transient | tsb-terse-fullpage | tsb-allocs
| tsb-mallocs | tsb-alloc-bytes | tsb-max-allocs | tsb-max-bytes | tsb-free-bytes)*>

<!ELEMENT task-size-block-list (task-size-block)*>

```

```
<!ELEMENT task-timer (timer-name | timer-late | timer-expires | timer-jitter |
timer-interval | timer-flags)*>
```

```
<!ELEMENT task-timer-information (task)*>
```

```
<!ELEMENT tb-alloc-blocks (#PCDATA)>
```

```
<!ELEMENT tb-alloc-bytes (#PCDATA)>
```

```
<!ELEMENT tb-alloc-size (#PCDATA)>
```

```
<!ELEMENT tb-max-alloc-blocks (#PCDATA)>
```

```
<!ELEMENT tb-max-alloc-bytes (#PCDATA)>
```

```
<!ELEMENT tb-name (#PCDATA)>
```

```
<!ELEMENT tb-size (#PCDATA)>
```

```
<!ELEMENT tb-terse-debug EMPTY>
```

```
<!ELEMENT tb-terse-fullpage EMPTY>
```

```
<!ELEMENT tb-terse-transient EMPTY>
```

```
<!ELEMENT this-bridge (bridge-priority | bridge-mac)*>
```

```
<!ELEMENT time-since-last-tc (#PCDATA)>
```

```
<!ELEMENT timer-expires (#PCDATA)>
```

```
<!ELEMENT timer-flags (#PCDATA)>
```

```
<!ELEMENT timer-interval (#PCDATA)>
```

```
<!ELEMENT timer-jitter (#PCDATA)>
```

```
<!ELEMENT timer-late EMPTY>
```

```
<!ELEMENT timer-name (#PCDATA)>
```

```
<!ELEMENT tlp-alloc-bytes (#PCDATA)>
```

```
<!ELEMENT tlp-alloc-pages (#PCDATA)>
```

```
<!ELEMENT tlp-max-alloc-bytes (#PCDATA)>
```

```
<!ELEMENT tlp-max-alloc-pages (#PCDATA)>
```

```
<!ELEMENT tlp-name (#PCDATA)>
```

```
<!ELEMENT tm-alloc-bytes (#PCDATA)>
```

```
<!ELEMENT tm-allocs (#PCDATA)>
```

```
<!ELEMENT tm-function-calls (#PCDATA)>
```

```
<!ELEMENT tm-max-alloc-bytes (#PCDATA)>
<!ELEMENT tm-max-allocs (#PCDATA)>
<!ELEMENT tm-name (#PCDATA)>
<!ELEMENT tms-alloc-bytes (#PCDATA)>
<!ELEMENT tms-allocs (#PCDATA)>
<!ELEMENT tms-free-bytes (#PCDATA)>
<!ELEMENT tms-mallocs (#PCDATA)>
<!ELEMENT tms-max-allocs (#PCDATA)>
<!ELEMENT tms-max-bytes (#PCDATA)>
<!ELEMENT tms-name (#PCDATA)>
<!ELEMENT topology-change-count (#PCDATA)>
<!ELEMENT total-bpdus-received (#PCDATA)>
<!ELEMENT total-bpdus-sent (#PCDATA)>
<!ELEMENT transmit-period (#PCDATA)>
<!ELEMENT tsb-alloc-bytes (#PCDATA)>
<!ELEMENT tsb-allocs (#PCDATA)>
<!ELEMENT tsb-free-bytes (#PCDATA)>
<!ELEMENT tsb-mallocs (#PCDATA)>
<!ELEMENT tsb-max-allocs (#PCDATA)>
<!ELEMENT tsb-max-bytes (#PCDATA)>
<!ELEMENT tsb-size (#PCDATA)>
<!ELEMENT tsb-terse-fullpage EMPTY>
<!ELEMENT tsb-terse-transient EMPTY>
<!ELEMENT user-mac-address (#PCDATA)>
<!ELEMENT user-name (#PCDATA)>
<!ELEMENT vlan-map (vlan-map-entry)*>
<!ELEMENT vlan-map-entry (msti-id | vlan-string)*>
<!ELEMENT vlan-string (#PCDATA)>
```



```
<!ELEMENT vst-bridge-parameters (root-bridge | root-port | root-cost | hello-time-learned  
| max-age-learned | forward-delay-learned | msg-age | time-since-last-tc |  
topology-change-count | extended-system-id | this-bridge | hello-time-configured |  
max-age-configured | forward-delay-configured | path-cost-method)*>
```

```
<!ELEMENT vstp-interface-statistics (stp-interface-statistics-entry)*>
```

```
<!ELEMENT vstp-statistics (message-type | total-bpdus-sent | total-bpdus-received |  
bpdus-sent-5seconds | bpdus-received-5seconds)*>
```

