

Chapter 4

DTD for Accounting Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-accounting.dtd`, which lists the JUNOS XML tags that contain accounting record information. The associated XML namespace is <http://xml.juniper.net/junos/9.4R1/junos-accounting>. To review reference pages for the tags, see “Summary of Accounting Response Tags” on page 311.

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

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

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

```
<!ELEMENT accounting-profile-columns (column-label)*>
```

```
<!ELEMENT accounting-profile-filter (filter-name | next-scheduled-collection)*>
```

```
<!ELEMENT accounting-profile-header (profile-name | profile-type | profile-interval |  
profile-use-count | filename | filesize | filenumber | bytes-written | transfer-interval |  
next-transfer-time)*>
```

```
<!ATTLIST accounting-profile-header junos:style CDATA #IMPLIED>
```

```
<!ELEMENT accounting-profile-information (accounting-profile-header |  
accounting-profile-columns | accounting-profile-interfaces | accounting-profile-mib |  
accounting-profile-filter)*>
```

```
<!ELEMENT accounting-profile-interfaces (interface-name | next-scheduled-collection)*>
```

```
<!ELEMENT accounting-profile-mib (mib-name | next-scheduled-collection)*>
```

```
<!ELEMENT accounting-record-information (interface-accounting-statistics |  
routing-engine-accounting-statistics | filter-accounting-statistics |  
cu-accounting-statistics | mib-accounting-statistics | file-accounting-records)*>
```

```
<!ELEMENT address-family (#PCDATA)>
```

```
<!ELEMENT arp-count (#PCDATA)>
```

```
<!ELEMENT atm-oam-count (#PCDATA)>
```

```
<!ELEMENT bad-route-discard (#PCDATA)>
```

```
<!ELEMENT bfd-bad-checksum (#PCDATA)>
```

```
<!ELEMENT bfd-bad-ifl-prefix-length (#PCDATA)>
```

<!ELEMENT bfd-bad-length (#PCDATA)>
<!ELEMENT bfd-bad-options (#PCDATA)>
<!ELEMENT bfd-bad-udp-checksum (#PCDATA)>
<!ELEMENT bfd-bad-udp-length (#PCDATA)>
<!ELEMENT bfd-bad-udp-ports (#PCDATA)>
<!ELEMENT bfd-count (#PCDATA)>
<!ELEMENT bfd-invalid-iff (#PCDATA)>
<!ELEMENT bfd-invalid-iif (#PCDATA)>
<!ELEMENT bfd-no-local-ifl (#PCDATA)>
<!ELEMENT bfd-out-of-packets (#PCDATA)>
<!ELEMENT bfd-rx-queue-overflow (#PCDATA)>
<!ELEMENT bfd-total-absorbed (#PCDATA)>
<!ELEMENT bfd-total-packets (#PCDATA)>
<!ELEMENT bfd-transmit-errors (#PCDATA)>
<!ELEMENT bits-to-test-discard (#PCDATA)>
<!ELEMENT byte-count (#PCDATA)>
<!ELEMENT bytes-written (#PCDATA)>
<!ELEMENT cfm-packets-absorbed (#PCDATA)>
<!ELEMENT cfm-packets-dropped (#PCDATA)>
<!ELEMENT cfm-packets-received (#PCDATA)>
<!ELEMENT cfm-packets-received-invalid-length (#PCDATA)>
<!ELEMENT cfm-packets-received-with-sequence-number (#PCDATA)>
<!ELEMENT cfm-packets-sent-to-re (#PCDATA)>
<!ELEMENT cfm-packets-transmit-error (#PCDATA)>
<!ELEMENT cfm-packets-transmitted (#PCDATA)>
<!ELEMENT column-label (#PCDATA)>
<!ELEMENT counter-name (#PCDATA)>
<!ELEMENT cpu15min (#PCDATA)>
<!ELEMENT cpu1min (#PCDATA)>

```

<!ELEMENT cpu5min (#PCDATA)>

<!ELEMENT cu-accounting-record (profile-layout | epoch-timestamp | utc-timestamp |
interface-name | address-family | destination-class-name | source-class-name |
counter-name | packet-count | byte-count)*>
<!ATTLIST cu-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT cu-accounting-statistics (cu-accounting-record)*>

<!ELEMENT data-error-discard (#PCDATA)>

<!ELEMENT date-yyyymmdd (#PCDATA)>

<!ELEMENT destination-class-name (#PCDATA)>

<!ELEMENT epoch-timestamp (#PCDATA)>

<!ELEMENT error (#PCDATA)>

<!ELEMENT ether-oam-count (#PCDATA)>

<!ELEMENT fabric-discard (#PCDATA)>

<!ELEMENT file-accounting-record (profile-layout | epoch-timestamp)*>

<!ELEMENT file-accounting-records (file-accounting-record)*>

<!ELEMENT filename (#PCDATA)>

<!ELEMENT filenumber (#PCDATA)>

<!ELEMENT filesize (#PCDATA)>

<!ELEMENT filter-accounting-record (profile-layout | epoch-timestamp | utc-timestamp |
interfaces | filter-name | counter-name | packet-count | byte-count)*>
<!ATTLIST filter-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT filter-accounting-statistics (filter-accounting-record)*>

<!ELEMENT filter-name (#PCDATA)>

<!ELEMENT forwarding-class-name (#PCDATA)>

<!ELEMENT fr-lmi-count (#PCDATA)>

<!ELEMENT hardware-input-drops (#PCDATA)>

<!ELEMENT hdlc-keepalive-count (#PCDATA)>

<!ELEMENT hostname (#PCDATA)>

<!ELEMENT index (index-name | index-value)*>

<!ELEMENT index-name (#PCDATA)>

<!ELEMENT index-value (#PCDATA)>

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```

<!ELEMENT info-cell-discard (#PCDATA)>

<!ELEMENT input-bytes (#PCDATA)>

<!ELEMENT input-checksum (#PCDATA)>

<!ELEMENT input-errors (#PCDATA)>

<!ELEMENT input-multicast (#PCDATA)>

<!ELEMENT input-packets (#PCDATA)>

<!ELEMENT input-pps (#PCDATA)>

<!ELEMENT input-unicast (#PCDATA)>

<!ELEMENT interface-accounting-record (profile-layout | epoch-timestamp |
utc-timestamp | interface-name | snmp-index | input-bytes | output-bytes | input-packets
| output-packets | input-unicast | output-unicast | input-multicast | output-multicast |
input-errors | output-errors | no-proto | rpf-check-bytes | rpf-check-packets |
rpf-check6-bytes | rpf-check6-packets)*>
<!ATTLIST interface-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT interface-accounting-statistics (interface-accounting-record)*>

<!ELEMENT interface-name (#PCDATA)>

<!ELEMENT interfaces (#PCDATA)>

<!ELEMENT invalid-iif-discard (#PCDATA)>

<!ELEMENT isis-iih-count (#PCDATA)>

<!ELEMENT lacp-count (#PCDATA)>

<!ELEMENT ldp-hello-count (#PCDATA)>

<!ELEMENT lfm-packets-absorbed (#PCDATA)>

<!ELEMENT lfm-packets-dropped (#PCDATA)>

<!ELEMENT lfm-packets-received (#PCDATA)>

<!ELEMENT lfm-packets-sent-to-re (#PCDATA)>

<!ELEMENT lfm-packets-transmit-error (#PCDATA)>

<!ELEMENT lfm-packets-transmitted (#PCDATA)>

<!ELEMENT memory-usage (#PCDATA)>

<!ELEMENT mgmt-state (#PCDATA)>

<!ELEMENT mib-accounting-record (profile | epoch-timestamp | utc-timestamp | name |
object-value)*>
<!ATTLIST mib-accounting-record junos:style CDATA #IMPLIED>

```

```

<!ELEMENT mib-accounting-statistics (mib-accounting-record)*>

<!ELEMENT mib-name (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT next-scheduled-collection (#PCDATA)>

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

<!ELEMENT nexthop-discard (#PCDATA)>

<!ELEMENT no-proto (#PCDATA)>

<!ELEMENT number (#PCDATA)>

<!ELEMENT object-value (#PCDATA)>

<!ELEMENT object-value-type (#PCDATA)>

<!ELEMENT oid (#PCDATA)>

<!ELEMENT ospf-hello-count (#PCDATA)>

<!ELEMENT ospf3-hello-count (#PCDATA)>

<!ELEMENT output-bytes (#PCDATA)>

<!ELEMENT output-errors (#PCDATA)>

<!ELEMENT output-mtu (#PCDATA)>

<!ELEMENT output-multicast (#PCDATA)>

<!ELEMENT output-packets (#PCDATA)>

<!ELEMENT output-pps (#PCDATA)>

<!ELEMENT output-unicast (#PCDATA)>

<!ELEMENT packet-count (#PCDATA)>

<!ELEMENT pfe (slot-index | slot-type | slot-state | mgmt-state | up-time)*>

<!ELEMENT pfe-bfd-statistics-detail (bfd-invalid-iif | bfd-invalid-iff | bfd-bad-checksum |
bfd-bad-options | bfd-bad-length | bfd-bad-udp-checksum | bfd-bad-udp-length |
bfd-bad-udp-ports | bfd-no-local-ifl | bfd-bad-ifl-prefix-length | bfd-rx-queue-overflow |
bfd-out-of-packets | bfd-total-packets | bfd-total-absorbed | bfd-transmit-errors)*>

<!ELEMENT pfe-cfm-statistics-detail (cfm-packets-received | cfm-packets-sent-to-re |
cfm-packets-absorbed | cfm-packets-received-with-sequence-number |
cfm-packets-received-invalid-length | cfm-packets-transmitted |
cfm-packets-transmit-error | cfm-packets-dropped)*>

<!ELEMENT pfe-chip-statistics (input-checksum | output-mtu)*>

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```

<!ELEMENT pfe-cpu-stats (pfe-queue-counters)*>

<!ELEMENT pfe-description (#PCDATA)>

<!ELEMENT pfe-forwarding-module-instance (#PCDATA)>

<!ELEMENT pfe-forwarding-module-name (#PCDATA)>

<!ELEMENT pfe-fpc-instance (#PCDATA)>

<!ELEMENT pfe-hardware-discard-statistics (timeout-discard | truncated-key-discard |
bits-to-test-discard | data-error-discard | stack-underflow-discard | stack-overflow-discard
| bad-route-discard | nexthop-discard | invalid-iif-discard | info-cell-discard |
fabric-discard)*>

<!ELEMENT pfe-information (pfe)*>
<!--ATTLIST pfe-information junos:style CDATA #IMPLIED-->

<!ELEMENT pfe-input-packets (#PCDATA)>

<!ELEMENT pfe-instance (#PCDATA)>

<!ELEMENT pfe-lfm-statistics-detail (lfm-packets-received | lfm-packets-sent-to-re |
lfm-packets-absorbed | lfm-packets-transmitted | lfm-packets-transmit-error |
lfm-packets-dropped)*>

<!ELEMENT pfe-local-protocol-statistics (hdlc-keepalive-count | atm-oam-count |
fr-lmi-count | ppp-lcp-ncp-count | ospf-hello-count | ospf3-hello-count | rsvp-hello-count |
ldp-hello-count | bfd-count | isis-iih-count | lacp-count | arp-count | ether-oam-count |
unknown-count)*>

<!ELEMENT pfe-local-traffic-statistics (pfe-input-packets | pfe-output-packets |
software-input-control-drops | software-input-high-drops | software-input-medium-drops |
software-input-low-drops | software-output-low-drops | hardware-input-drops)*>

<!ELEMENT pfe-multicast-stats (pfe-queue-counters)*>

<!ELEMENT pfe-output-packets (#PCDATA)>

<!ELEMENT pfe-queue (number | forwarding-class-name | queued-packets |
queued-packets-na | queued-bytes-na | queued-bytes | queued-packets-rate |
queued-bytes-rate | trans-packets | trans-bytes | trans-packets-rate | trans-bytes-rate |
tail-drop-packets | tail-drop-packets-rate | tail-drop-packets-na | rate-limit-drop-packets |
rate-limit-drop-packets-rate | rate-limit-drop-packets-na | rate-limit-drop-bytes |
rate-limit-drop-bytes-rate | rate-limit-drop-bytes-na | red-packets-na | red-packets |
red-bytes-na | red-bytes | red-packets-rate | red-bytes-rate | red-packets-ln | red-bytes-ln |
red-packets-rate-ln | red-bytes-rate-ln | red-packets-lt | red-bytes-lt | red-packets-rate-lt |
red-bytes-rate-lt | red-packets-ht | red-bytes-ht | red-packets-rate-ht | red-bytes-rate-ht |
red-packets-hn | red-bytes-hn | red-packets-rate-hn | red-bytes-rate-hn | red-packets-low |
red-bytes-low | red-packets-rate-low | red-bytes-rate-low | red-packets-medium-low |
red-bytes-medium-low | red-packets-rate-medium-low | red-bytes-rate-medium-low |
red-packets-medium-high | red-bytes-medium-high | red-packets-rate-medium-high |
red-bytes-rate-medium-high | red-packets-medium | red-bytes-medium |
red-packets-rate-medium | red-bytes-rate-medium | red-packets-high | red-bytes-high |
red-packets-rate-high | red-bytes-rate-high)*>

<!ELEMENT pfe-queue-counters (pfe-queue)*>

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```

<!ELEMENT pfe-resource (pfe-resource-usage)*>

<!ELEMENT pfe-resource-free (#PCDATA)>

<!ELEMENT pfe-resource-general-information (pfe-description | pfe-instance |
pfe-forwarding-module-name | pfe-forwarding-module-instance |
pfe-resource-usage-details)*>

<!ELEMENT pfe-resource-highlight (#PCDATA)>

<!ELEMENT pfe-resource-inuse (#PCDATA)>

<!ELEMENT pfe-resource-inuse-percent (#PCDATA)>

<!ELEMENT pfe-resource-name (#PCDATA)>

<!ELEMENT pfe-resource-total (#PCDATA)>

<!ELEMENT pfe-resource-units (#PCDATA)>

<!ELEMENT pfe-resource-usage (pfe-fpc-instance | pfe-resource-usage-legend |
pfe-resource-general-information)*>

<!ELEMENT pfe-resource-usage-details (pfe-resource-total | pfe-resource-units |
pfe-resource-free | pfe-resource-inuse | pfe-resource-name | pfe-resource-inuse-percent |
pfe-resource-highlight)*>

<!ELEMENT pfe-resource-usage-legend (#PCDATA)>

<!ELEMENT pfe-statistics (pfe-multicast-stats | pfe-cpu-stats | pfe-tail-drop-statistics |
pfe-total-tail-drop | pfe-traffic-statistics | pfe-local-traffic-statistics |
pfe-local-protocol-statistics | pfe-bfd-statistics-detail | pfe-cfm-statistics-detail |
pfe-lfm-statistics-detail | pfe-hardware-discard-statistics | pfe-chip-statistics)*>

<!ELEMENT pfe-tail-drop-statistics (pfe-queue-counters)*>

<!ELEMENT pfe-total-tail-drop (pfe-queue-counters)*>

<!ELEMENT pfe-traffic-statistics (pfe-input-packets | pfe-output-packets | input-pps |
output-pps)*>

<!ELEMENT ppp-lcp-ncp-count (#PCDATA)>

<!ELEMENT profile (#PCDATA)>

<!ELEMENT profile-interval (#PCDATA)>

<!ELEMENT profile-layout (#PCDATA)>

<!ELEMENT profile-name (#PCDATA)>

<!ELEMENT profile-type (#PCDATA)>

<!ELEMENT profile-use-count (#PCDATA)>

<!ELEMENT queued-bytes (#PCDATA)>

```

<!ELEMENT queued-bytes-na (#PCDATA)>
<!ELEMENT queued-bytes-rate (#PCDATA)>
<!ELEMENT queued-packets (#PCDATA)>
<!ELEMENT queued-packets-na (#PCDATA)>
<!ELEMENT queued-packets-rate (#PCDATA)>
<!ELEMENT rate-limit-drop-bytes (#PCDATA)>
<!ELEMENT rate-limit-drop-bytes-na (#PCDATA)>
<!ELEMENT rate-limit-drop-bytes-rate (#PCDATA)>
<!ELEMENT rate-limit-drop-packets (#PCDATA)>
<!ELEMENT rate-limit-drop-packets-na (#PCDATA)>
<!ELEMENT rate-limit-drop-packets-rate (#PCDATA)>
<!ELEMENT red-bytes (#PCDATA)>
<!ELEMENT red-bytes-high (#PCDATA)>
<!ELEMENT red-bytes-hn (#PCDATA)>
<!ELEMENT red-bytes-ht (#PCDATA)>
<!ELEMENT red-bytes-ln (#PCDATA)>
<!ELEMENT red-bytes-low (#PCDATA)>
<!ELEMENT red-bytes-lt (#PCDATA)>
<!ELEMENT red-bytes-medium (#PCDATA)>
<!ELEMENT red-bytes-medium-high (#PCDATA)>
<!ELEMENT red-bytes-medium-low (#PCDATA)>
<!ELEMENT red-bytes-na (#PCDATA)>
<!ELEMENT red-bytes-rate (#PCDATA)>
<!ELEMENT red-bytes-rate-high (#PCDATA)>
<!ELEMENT red-bytes-rate-hn (#PCDATA)>
<!ELEMENT red-bytes-rate-ht (#PCDATA)>
<!ELEMENT red-bytes-rate-ln (#PCDATA)>
<!ELEMENT red-bytes-rate-low (#PCDATA)>


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<!ELEMENT red-bytes-rate-lt (#PCDATA)>

<!ELEMENT red-bytes-rate-medium (#PCDATA)>

<!ELEMENT red-bytes-rate-medium-high (#PCDATA)>

<!ELEMENT red-bytes-rate-medium-low (#PCDATA)>

<!ELEMENT red-packets (#PCDATA)>

<!ELEMENT red-packets-high (#PCDATA)>

<!ELEMENT red-packets-hn (#PCDATA)>

<!ELEMENT red-packets-ht (#PCDATA)>

<!ELEMENT red-packets-ln (#PCDATA)>

<!ELEMENT red-packets-low (#PCDATA)>

<!ELEMENT red-packets-lt (#PCDATA)>

<!ELEMENT red-packets-medium (#PCDATA)>

<!ELEMENT red-packets-medium-high (#PCDATA)>

<!ELEMENT red-packets-medium-low (#PCDATA)>

<!ELEMENT red-packets-na (#PCDATA)>

<!ELEMENT red-packets-rate (#PCDATA)>

<!ELEMENT red-packets-rate-high (#PCDATA)>

<!ELEMENT red-packets-rate-hn (#PCDATA)>

<!ELEMENT red-packets-rate-ht (#PCDATA)>

<!ELEMENT red-packets-rate-ln (#PCDATA)>

<!ELEMENT red-packets-rate-low (#PCDATA)>

<!ELEMENT red-packets-rate-lt (#PCDATA)>

<!ELEMENT red-packets-rate-medium (#PCDATA)>

<!ELEMENT red-packets-rate-medium-high (#PCDATA)>

<!ELEMENT red-packets-rate-medium-low (#PCDATA)>

<!ELEMENT routing-engine-accounting-record (profile-layout | epoch-timestamp |
utc-timestamp | hostname | date-yyyymmdd | timeofday-hhmmss | uptime | cpu1min |
cpu5min | cpu15min | memory-usage | total-cpu-usage)*>
<!ATTLIST routing-engine-accounting-record junos:style CDATA #IMPLIED>

<!ELEMENT routing-engine-accounting-statistics (routing-engine-accounting-record)*>

```

```
<!ELEMENT rpf-check-bytes (#PCDATA)>
<!ELEMENT rpf-check-packets (#PCDATA)>
<!ELEMENT rpf-check6-bytes (#PCDATA)>
<!ELEMENT rpf-check6-packets (#PCDATA)>
<!ELEMENT rsvp-hello-count (#PCDATA)>
<!ELEMENT slot-index (#PCDATA)>
<!ELEMENT slot-state (#PCDATA)>
<!ELEMENT slot-type (#PCDATA)>
<!ELEMENT snmp-index (#PCDATA)>
<!ELEMENT snmp-object (name | index | oid | object-value | object-value-type | error)*>
<!ELEMENT snmp-object-information (snmp-object | snmp-request-error)*>
<!ELEMENT snmp-req-error-value (#PCDATA)>
<!ELEMENT snmp-request-error (snmp-req-error-value)*>
<!ELEMENT software-input-control-drops (#PCDATA)>
<!ELEMENT software-input-high-drops (#PCDATA)>
<!ELEMENT software-input-low-drops (#PCDATA)>
<!ELEMENT software-input-medium-drops (#PCDATA)>
<!ELEMENT software-output-low-drops (#PCDATA)>
<!ELEMENT source-class-name (#PCDATA)>
<!ELEMENT stack-overflow-discard (#PCDATA)>
<!ELEMENT stack-underflow-discard (#PCDATA)>
<!ELEMENT tail-drop-packets (#PCDATA)>
<!ELEMENT tail-drop-packets-na (#PCDATA)>
<!ELEMENT tail-drop-packets-rate (#PCDATA)>
<!ELEMENT timeofday-hhmmss (#PCDATA)>
<!ELEMENT timeout-discard (#PCDATA)>
<!ELEMENT total-cpu-usage (#PCDATA)>
<!ELEMENT trans-bytes (#PCDATA)>
<!ELEMENT trans-bytes-rate (#PCDATA)>
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```
<!ELEMENT trans-packets (#PCDATA)>  
<!ELEMENT trans-packets-rate (#PCDATA)>  
<!ELEMENT transfer-interval (#PCDATA)>  
<!ELEMENT truncated-key-discard (#PCDATA)>  
<!ELEMENT unknown-count (#PCDATA)>  
  
<!ELEMENT up-time (#PCDATA)>  
<!ATTLIST up-time junos:seconds CDATA #IMPLIED>  
  
<!ELEMENT uptime (#PCDATA)>  
<!ATTLIST uptime junos:seconds CDATA #IMPLIED>  
  
<!ELEMENT utc-timestamp (#PCDATA)>
```

