

## Chapter 11

# Tag Elements Beginning with K

This chapter lists the configuration tag elements that have names beginning with the letter *k*. The tag names are in alphabetical order. For information about the notation used in this chapter, see Table 2 on page cdxiii.

For information about the tag elements that client applications use to request, change, and commit configuration information, see the *JUNOScript API Guide* and *NETCONF API Guide*.



**NOTE:** Every tag element in this chapter optionally accepts the `<apply-groups>` or `<apply-groups-except>` tag element and the `<apply-macro>` tag element as children. For brevity, the reference entries do not list these tag elements as children. For information about these tag elements, see `<apply-groups>` on page 631, `<apply-groups-except>` on page 631, and `<apply-macro>` on page 632.

### **<keep-alive> (configuration/system/services/outbound-ssh/client)**

<b>Usage</b>	<pre>&lt;configuration&gt;   &lt;system&gt;     &lt;services&gt;       &lt;outbound-ssh&gt;         &lt;client&gt;           &lt;keep-alive&gt;             &lt;retry&gt;retry&lt;/retry&gt;             &lt;timeout&gt;timeout&lt;/timeout&gt;           &lt;/keep-alive&gt;         &lt;/client&gt;       &lt;/outbound-ssh&gt;     &lt;/services&gt;   &lt;/system&gt; &lt;/configuration&gt;</pre>
<b>Description</b>	No documentation is available yet.
<b>Contents</b>	<p><code>&lt;retry&gt;</code>—Maximum number of connection attempts.</p> <p><code>&lt;timeout&gt;</code>—Timeout value for connection attempts.</p>

## **<keepalives> (configuration/dynamic-profiles/interfaces/interface)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;dynamic-profiles&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;keepalives&gt;           &lt;interval&gt;seconds&lt;/interval&gt;           &lt;up-count&gt;up-count&lt;/up-count&gt;           &lt;down-count&gt;down-count&lt;/down-count&gt;         &lt;/keepalives&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;   &lt;/dynamic-profiles&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Send or demand keepalive messages.
<b>Contents</b>	<p>&lt;down-count&gt;—Keepalive missed to bring link down.</p> <p>&lt;interval&gt;—Keepalive period.</p> <p>&lt;up-count&gt;—Keepalive received to bring link up.</p>

## **<keepalives> (configuration/dynamic-profiles/interfaces/interface/unit)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;dynamic-profiles&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;unit&gt;           &lt;keepalives&gt;             &lt;interval&gt;seconds&lt;/interval&gt;             &lt;up-count&gt;up-count&lt;/up-count&gt;             &lt;down-count&gt;down-count&lt;/down-count&gt;           &lt;/keepalives&gt;         &lt;/unit&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;   &lt;/dynamic-profiles&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Send or demand keepalive messages.
<b>Contents</b>	<p>&lt;down-count&gt;—Keepalive missed to bring link down.</p> <p>&lt;interval&gt;—Keepalive period.</p> <p>&lt;up-count&gt;—Keepalive received to bring link up.</p>

**<keepalives> (configuration/interfaces/interface)**

---

- Usage** `<configuration>`  
           `<interfaces>`  
           `<interface>`  
             **<keepalives>**  
               `<interval>seconds</interval>`  
               `<up-count>up-count</up-count>`  
               `<down-count>down-count</down-count>`  
             **</keepalives>**  
           `</interface>`  
         `</interfaces>`  
       `</configuration>`
- Description** Send or demand keepalive messages.
- Contents** `<down-count>`—Keepalive missed to bring link down.  
               `<interval>`—Keepalive period.  
               `<up-count>`—Keepalive received to bring link up.

**<keepalives> (configuration/interfaces/interface/unit)**

---

- Usage** `<configuration>`  
           `<interfaces>`  
           `<interface>`  
             `<unit>`  
               **<keepalives>**  
               `<interval>seconds</interval>`  
               `<up-count>up-count</up-count>`  
               `<down-count>down-count</down-count>`  
             **</keepalives>**  
           `</unit>`  
         `</interface>`  
       `</interfaces>`  
       `</configuration>`
- Description** Send or demand keepalive messages.
- Contents** `<down-count>`—Keepalive missed to bring link down.  
               `<interval>`—Keepalive period.  
               `<up-count>`—Keepalive received to bring link up.

## **<keepalives> (configuration/logical-systems/interfaces/interface/unit)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;logical-systems&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;unit&gt;           &lt;keepalives&gt;             &lt;interval&gt;seconds&lt;/interval&gt;             &lt;up-count&gt;up-count&lt;/up-count&gt;             &lt;down-count&gt;down-count&lt;/down-count&gt;           &lt;/keepalives&gt;         &lt;/unit&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;   &lt;/logical-systems&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Send or demand keepalive messages.
<b>Contents</b>	<p>&lt;down-count&gt;—Keepalive missed to bring link down.</p> <p>&lt;interval&gt;—Keepalive period.</p> <p>&lt;up-count&gt;—Keepalive received to bring link up.</p>

## **<kentrox> (configuration/dynamic-profiles/interfaces/interface/e3-options/compatibility-mode)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;dynamic-profiles&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;e3-options&gt;           &lt;compatibility-mode&gt;             &lt;kentrox&gt;               &lt;subrate&gt;subrate&lt;/subrate&gt;             &lt;/kentrox&gt;           &lt;/compatibility-mode&gt;         &lt;/e3-options&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;   &lt;/dynamic-profiles&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Compatible with Kentrox CSU.
<b>Contents</b>	<subrate>—Set subrate value (only for E3 IQ interfaces).

## **<kentrox> (configuration/dynamic-profiles/interfaces/interface/t3-options/compatibility-mode)**

---

**Usage** <configuration>  
           <dynamic-profiles>  
           <interfaces>  
           <interface>  
           <t3-options>  
           <compatibility-mode>  
           **<kentrox>**  
           <subrate>*subrate*</subrate>  
           **</kentrox>**  
           </compatibility-mode>  
           </t3-options>  
           </interface>  
           </interfaces>  
           </dynamic-profiles>  
           </configuration>

**Description** Compatible with Kentrox CSU.

**Contents** <subrate>—Set subrate value (not on 4-port T3 PIC).

## **<kentrox> (configuration/interfaces/interface/e3-options/compatibility-mode)**

---

**Usage** <configuration>  
           <interfaces>  
           <interface>  
           <e3-options>  
           <compatibility-mode>  
           **<kentrox>**  
           <subrate>*subrate*</subrate>  
           **</kentrox>**  
           </compatibility-mode>  
           </e3-options>  
           </interface>  
           </interfaces>  
           </configuration>

**Description** Compatible with Kentrox CSU.

**Contents** <subrate>—Set subrate value (only for E3 IQ interfaces).

## **<kentrox> (configuration/interfaces/interface/t3-options/compatibility-mode)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;interfaces&gt;     &lt;interface&gt;       &lt;t3-options&gt;         &lt;compatibility-mode&gt;           &lt;kentrox&gt;             &lt;substrate&gt;substrate&lt;/substrate&gt;           &lt;/kentrox&gt;         &lt;/compatibility-mode&gt;       &lt;/t3-options&gt;     &lt;/interface&gt;   &lt;/interfaces&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Compatible with Kentrox CSU.
<b>Contents</b>	<substrate>—Set substrate value (not on 4-port T3 PIC).

## **<key> (configuration/security/authentication-key-chains/key-chain)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;security&gt;     &lt;authentication-key-chains&gt;       &lt;key-chain&gt;         &lt;key&gt;           &lt;name&gt;name&lt;/name&gt;    &lt;!-- identifier --&gt;           &lt;secret&gt;secret&lt;/secret&gt;  &lt;!-- mandatory --&gt;           &lt;start-time&gt;start-time&lt;/start-time&gt;  &lt;!-- mandatory --&gt;         &lt;/key&gt;       &lt;/key-chain&gt;     &lt;/authentication-key-chains&gt;   &lt;/security&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Authentication element configuration.
<b>Contents</b>	<p>&lt;name&gt;—Authentication element identifier.</p> <p>&lt;secret&gt;—Authentication key.</p> <p>&lt;start-time&gt;—Start time for key transmission (YYYY-MM-DD.HH:MM).</p>

## **<key> (configuration/security/ipsec/internal/ security-association/manual/direction/authentication)**

---

**Usage**   <configuration>  
           <security>  
           <ipsec>  
           <internal>  
           <security-association>  
           <manual>  
           <direction>  
           <authentication>  
           **<key>**  
               <ascii-text>*ascii-text*</ascii-text>  
               <hexadecimal>*hexadecimal*</hexadecimal>  
           **</key>**  
           </authentication>  
           </direction>  
           </manual>  
           </security-association>  
           </internal>  
           </ipsec>  
           </security>  
         </configuration>

**Description**   Define an authentication key.

**Contents**    <ascii-text>—Format as text.  
               <hexadecimal>—Format as hexadecimal.

**<key> (configuration/security/ipsec/internal/  
security-association/manual/direction/encryption)**

---

**Usage**   <configuration>  
          <security>  
          <ipsec>  
          <internal>  
          <security-association>  
          <manual>  
          <direction>  
          <encryption>  
          **<key>**  
            <ascii-text>*ascii-text*</ascii-text>  
            <hexadecimal>*hexadecimal*</hexadecimal>  
          **</key>**  
          </encryption>  
          </direction>  
          </manual>  
          </security-association>  
          </internal>  
          </ipsec>  
          </security>  
          </configuration>

**Description**   Define an encryption key.

**Contents**   <ascii-text>—Format as text.  
  
              <hexadecimal>—Format as hexadecimal.



## **<key> (configuration/security/ipsec/security-association/manual/direction/authentication)**

---

**Usage**   <configuration>  
               <security>  
                   <ipsec>  
                       <security-association>  
                           <manual>  
                               <direction>  
                                   <authentication>  
                                       **<key>**  
   <ascii-text>*ascii-text*</ascii-text>  
   <hexadecimal>*hexadecimal*</hexadecimal>  
                                       **</key>**  
                                   </authentication>  
                               </direction>  
                           </manual>  
                       </security-association>  
                   </ipsec>  
               </security>  
           </configuration>

**Description**   Define an authentication key.

**Contents**   <ascii-text>—Format as text.  
               <hexadecimal>—Format as hexadecimal.

**<key> (configuration/security/ipsec/security-association/manual/direction/encryption)**

---

**Usage**   <configuration>  
          <security>  
          <ipsec>  
          <security-association>  
          <manual>  
          <direction>  
          <encryption>  
          **<key>**  
            <ascii-text>*ascii-text*</ascii-text>  
            <hexadecimal>*hexadecimal*</hexadecimal>  
          **</key>**  
          </encryption>  
          </direction>  
          </manual>  
          </security-association>  
          </ipsec>  
          </security>  
          </configuration>

**Description**   Define an encryption key.

**Contents**   <ascii-text>—Format as text.  
              <hexadecimal>—Format as hexadecimal.

## **<key> (configuration/services/ipsec-vpn/rule/term/then/manual/direction/authentication)**

---

**Usage**   <configuration>  
               <services>  
                   <ipsec-vpn>  
                       <rule>  
                         <term>  
                           <then>  
                               <manual>  
                                 <direction>  
                                   <authentication>  
                                       **<key>**  
   <ascii-text>*ascii-text*</ascii-text>  
   <hexadecimal>*hexadecimal*</hexadecimal>  
                                       **</key>**  
                                   </authentication>  
                               </direction>  
                           </manual>  
                   </then>  
                 </term>  
               </rule>  
           </ipsec-vpn>  
       </services>  
   </configuration>

**Description**   Define an authentication key.

**Contents**   <ascii-text>—Format as text.  
               <hexadecimal>—Format as hexadecimal.

## **<key> (configuration/services/ipsec-vpn/rule/term/then/manual/direction/encryption)**

---

**Usage**

```

<configuration>
  <services>
    <ipsec-vpn>
      <rule>
        <term>
          <then>
            <manual>
              <direction>
                <encryption>
                  <key>
                    <ascii-text>ascii-text</ascii-text>
                    <hexadecimal>hexadecimal</hexadecimal>
                  </key>
                </encryption>
              </direction>
            </manual>
          </then>
        </term>
      </rule>
    </ipsec-vpn>
  </services>
</configuration>

```

**Description** Define an encryption key.

**Contents** <ascii-text>—Format as text.

<hexadecimal>—Format as hexadecimal.

**<key> (configuration/services/mobile-ip/peer/ip-address/spi)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;services&gt;     &lt;mobile-ip&gt;       &lt;peer&gt;         &lt;ip-address&gt;           &lt;spi&gt;             &lt;key&gt;               &lt;hex&gt;...&lt;/hex&gt;               &lt;ascii&gt;...&lt;/ascii&gt;             &lt;/key&gt;           &lt;/spi&gt;         &lt;/ip-address&gt;       &lt;/peer&gt;     &lt;/mobile-ip&gt;   &lt;/services&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Secret key.
<b>Contents</b>	<p>&lt;ascii&gt;—ASCII string.</p> <p>&lt;hex&gt;—Hexadecimal string.</p>

**<key> (configuration/services/mobile-ip/peer/nai/spi)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;services&gt;     &lt;mobile-ip&gt;       &lt;peer&gt;         &lt;nai&gt;           &lt;spi&gt;             &lt;key&gt;               &lt;hex&gt;...&lt;/hex&gt;               &lt;ascii&gt;...&lt;/ascii&gt;             &lt;/key&gt;           &lt;/spi&gt;         &lt;/nai&gt;       &lt;/peer&gt;     &lt;/mobile-ip&gt;   &lt;/services&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Secret key.
<b>Contents</b>	<p>&lt;ascii&gt;—ASCII string.</p> <p>&lt;hex&gt;—Hexadecimal string.</p>

**<key-chain> (configuration/security/authentication-key-chains)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;security&gt;     &lt;authentication-key-chains&gt;       &lt;key-chain&gt;         &lt;name&gt;name&lt;/name&gt;    &lt;!-- identifier --&gt;         &lt;description&gt;description&lt;/description&gt;         &lt;tolerance&gt;seconds&lt;/tolerance&gt;         &lt;key&gt;...&lt;/key&gt;    &lt;!-- mandatory --&gt;       &lt;/key-chain&gt;     &lt;/authentication-key-chains&gt;   &lt;/security&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	Key chain configuration.
<b>Contents</b>	<p>&lt;description&gt;—Text description of this authentication-key-chain.</p> <p>&lt;key&gt;—Authentication element configuration.</p> <p>&lt;name&gt;—Name of authentication key chain.</p> <p>&lt;tolerance&gt;—Clock skew tolerance.</p>

**<key-id> (configuration/services/ipsec-vpn/ike/policy/remote-id)**

---

<b>Usage</b>	<pre> &lt;configuration&gt;   &lt;services&gt;     &lt;ipsec-vpn&gt;       &lt;ike&gt;         &lt;policy&gt;           &lt;remote-id&gt;             &lt;key-id&gt;               &lt;name&gt;name&lt;/name&gt;    &lt;!-- identifier --&gt;             &lt;/key-id&gt;           &lt;/remote-id&gt;         &lt;/policy&gt;       &lt;/ike&gt;     &lt;/ipsec-vpn&gt;   &lt;/services&gt; &lt;/configuration&gt; </pre>
<b>Description</b>	One or more key ID identification values.
<b>Contents</b>	<name>—One or more key ID identification values.