

Chapter 30

Summary of Access Configuration Statements

The following sections explain each of the access configuration statements. The statements are organized alphabetically.

accounting-port

Syntax	<code>accounting-port port-number;</code>
Hierarchy Level	<code>[edit access radius-server server-address]</code>
Description	Configure the port number on which to contact the accounting server.
Options	<i>port-number</i> —The port number on which to contact the accounting server. Most RADIUS servers use port number 1813 (as specified in RFC 2866).
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

address

Syntax	<code>address address-or-prefix;</code>
Hierarchy Level	<code>[edit access address-pool pool-name]</code>
Description	Configure the IP address or prefix value for clients.
Options	<i>address-or-prefix</i> —An address or prefix value. The remaining statements are explained separately.
Usage Guidelines	See “Configuring the Address Pool” on page 576.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

address-pool

Syntax	address-pool <i>pool-name</i> { address <i>address-or-prefix</i> ; address-range <low <i>lower-limit</i> > <high <i>upper-limit</i> >; }
Hierarchy Level	[edit access]
Description	Allocate IP addresses for clients.
Options	<i>pool-name</i> —Name assigned to an address pool. The remaining statements are explained separately.
Usage Guidelines	See “Configuring the Address Pool” on page 576.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

address-range

Syntax	address-range <low <i>lower-limit</i> > <upper <i>upper-limit</i> >;
Hierarchy Level	[edit access address-pool <i>pool-name</i>]
Description	Configure the address range.
Options	<i>low lower-limit</i> —The lower limit of an address range. <i>high upper-limit</i> —The upper limit of an address range.
Usage Guidelines	See “Configuring the Address Pool” on page 576.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

authentication-order

Syntax	authentication-order [<i>authentication-methods</i>];
Hierarchy Level	[edit access profile <i>profile-name</i>]
Description	Set the order in which the JUNOS software tries different authentication methods when verifying that a client can access the router. For each login attempt, the software tries the authentication methods in order, from first to last.
Options	radius—Verify the client using RADIUS authentication services. password—Verify the client using the information configured at the [edit access profile <i>profile-name</i> client <i>client-name</i>] hierarchy level.
Usage Guidelines	See “Configuring the Authentication Order” on page 571 and “Configuring the Authentication Order” on page 581.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

chap-secret

Syntax	chap-secret <i>chap-secret</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i>]
Options	<i>chap-secret</i> —The secret key associated with a peer.
Usage Guidelines	See “Configuring the CHAP Secret” on page 584.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

client

Syntax client *client-name* {
 chap-secret *chap-secret*;
 group-profile *profile-name*;
 l2tp {
 interface-id *interface-id*;
 lcp-renegotiation;
 local-chap;
 maximum-sessions-per-tunnel *number*;
 multilink {
 drop-timeout *milliseconds*;
 fragmentation-threshold *bytes*;
 }
 ppp-authentication (chap | pap);
 shared-secret *shared-secret*;
 }
 pap-password *pap-password*;
 ppp {
 framed-ip-address *ip-address*;
 framed-pool *framed-pool*;
 idle-timeout *seconds*;
 interface-id *interface-id*;
 keepalive *seconds*;
 primary-dns *primary-dns*;
 primary-wins *primary-win-server*;
 secondary-dns *secondary-dns*;
 secondary-wins *secondary-wins*;
 }
 user-group-profile *profile-name*;
 }

Hierarchy Level [edit access profile *profile-name*]

Description Configure the peer identity.

Options *client-name*—A peer identity.

The other options are explained separately.

Usage Guidelines See “Configuring the Client” on page 582.

Required Privilege Level admin—To view this statement in the configuration.
 admin-control—To add this statement to the configuration.

drop-timeout

Syntax	drop-timeout <i>milliseconds</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> l2tp multilink]
Description	Configure the drop timeout for a multilink bundle.
Options	<i>milliseconds</i> —Number of milliseconds for the timeout that is associated with the first fragment on the reassembly queue. If the timeout expires before all the fragments have been collected, the fragments at the beginning of the reassembly queue are dropped. If the drop timeout is not specified, the JUNOS software holds on to the fragments (fragments may still be dropped if the multilink reassembly algorithm determines that another fragment belonging to the packet on a reassembly queue has been lost.)
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

fragmentation-threshold

Syntax	fragmentation-threshold <i>bytes</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> l2tp multilink]
Description	Configure the fragmentation threshold for multilink bundle.
Options	<i>bytes</i> —The maximum number of bytes in a packet. If a packet exceeds the fragmentation threshold, the JUNOS software fragments it into two or more multilink fragments.
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

framed-ip-address

Syntax	framed-ip-address <i>address</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Specify a framed IP address.
Options	<i>address</i> —The IP version 4 (IPv4) prefix.
Usage Guidelines	See “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

framed-pool

Syntax	<code>framed-pool <i>framed-pool</i>;</code>
Hierarchy Level	[edit access group-profile <i>profile-name</i> ppp], [edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Configure the address pool.
Options	<i>framed-pool</i> —References a configured address pool.
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

group-profile

See the following sections:

group-profile (Group Profile) on page 602

group-profile (Profile) on page 603

group-profile (Group Profile)

Syntax	<pre>group-profile <i>profile-name</i> { l2tp { interface-id <i>interface-id</i>; lcp-renegotiation; local-chap; maximum-sessions-per-tunnel <i>number</i>; } ppp { framed-pool <i>pool-id</i>; idle-timeout <i>seconds</i>; interface-id <i>interface-id</i>; keepalive <i>seconds</i>; primary-dns <i>primary-dns</i>; primary-wins <i>primary-win-server</i>; secondary-dns <i>secondary-dns</i>; secondary-wins <i>secondary-wins</i>; } }</pre>
Hierarchy Level	[edit access]
Description	Configure the group profile.
Options	<i>profile-name</i> —Name assigned to the group profile. The other options are explained separately.

Usage Guidelines See “Configuring the Group Profile” on page 577, “Configuring L2TP for a Group Profile” on page 578, “Configuring the PPP Attributes for a Group Profile” on page 578.

Required Privilege Level admin—To view this statement in the configuration.
admin-control—To add this statement to the configuration.

group-profile (Profile)

Syntax group-profile *profile-name*;

Hierarchy Level [edit access profile *profile-name* client *client-name*]

Description Associate a group profile with a client.

Options *profile-name*—(Optional) Name assigned to the group profile.

Usage Guidelines See “Referencing the Group Profile” on page 585.

Required Privilege Level admin—To view this statement in the configuration.
admin-control—To add this statement to the configuration.

idle-timeout

Syntax idle-timeout *seconds*;

Hierarchy Level [edit access group-profile *profile-name* ppp],
[edit access profile *profile-name* client *client-name* ppp]

Description Configure the idle timeout for a user.

Options *seconds*—The number of seconds a user can remain idle before the session is terminated.
Range: 0 through 4,294,967,295 seconds
Default: 0

Usage Guidelines See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.

Required Privilege Level admin—To view this statement in the configuration.
admin-control—To add this statement to the configuration.

interface-id

Syntax	interface-id <i>interface-id</i> ;
Hierarchy Level	[edit access group-profile <i>profile-name</i> l2tp], [edit access group-profile <i>profile-name</i> ppp], [edit access profile <i>profile-name</i> client <i>client-name</i> l2tp], [edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Configure the interface identifier.
Options	<i>interface-id</i> —The identifier for the interface representing a Layer 2 Tunneling Protocol (L2TP) session configured at the [edit interfaces <i>interface-name</i> unit <i>local-unit-number</i> dial-options] hierarchy level. For more information about the interface ID, see the <i>JUNOS Services Interfaces Configuration Guide</i> .
Usage Guidelines	See “Configuring L2TP for a Group Profile” on page 578, “Configuring the PPP Attributes for a Group Profile” on page 578, “Configuring L2TP Properties for a Profile” on page 585, and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

keepalive

Syntax	keepalive <i>seconds</i> ;
Hierarchy Level	[edit access group-profile <i>profile-name</i> ppp], [edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Configure the keepalive interval for an L2TP tunnel.
Options	<i>seconds</i> —The time period that must elapse before the JUNOS software checks the status of the Point-to-Point Protocol (PPP) session by sending an echo request to the peer. Range: 0 through 32,767 seconds
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

l2tp

See the following sections:

l2tp (Group Profile) on page 605

l2tp (Profile) on page 605

I2tp (Group Profile)

Syntax	<pre> I2tp { interface-id <i>interface-id</i>; lcp-renegotiation; local-chap; maximum-sessions-per-tunnel <i>number</i>; } </pre>
Hierarchy Level	[edit access group-profile <i>profile-name</i>]
Description	<p>Configure the Layer 2 Tunneling Protocol for a group profile.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configuring L2TP for a Group Profile” on page 578.
Required Privilege Level	<p>admin—To view this statement in the configuration.</p> <p>admin-control—To add this statement to the configuration.</p>

I2tp (Profile)

Syntax	<pre> I2tp { interface-id <i>interface-id</i>; lcp-renegotiation; local-chap; maximum-sessions-per-tunnel <i>number</i>; multilink { drop-timeout <i>milliseconds</i>; fragmentation-threshold <i>bytes</i>; } ppp-authentication (chap pap); shared-secret <i>shared-secret</i>; } </pre>
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i>]
Description	<p>Configure the L2TP properties for a profile.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	<p>admin—To view this statement in the configuration.</p> <p>admin-control—To add this statement to the configuration.</p>

lcp-renegotiation

Syntax	lcp-renegotiation;
Hierarchy Level	[edit access group-profile <i>profile-name</i> l2tp], [edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure the L2TP network server (LNS) so it renegotiates the link control protocol (LCP) with the PPP client.
Usage Guidelines	See “Configuring L2TP for a Group Profile” on page 578 and “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

local-chap

Syntax	local-chap;
Hierarchy Level	[edit access group-profile <i>profile-name</i> l2tp], [edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure the JUNOS software so that the LNS ignores proxy authentication attribute-value pairs (AVPs) from the L2TP access concentrator (LAC) and reauthenticates the PPP client using a Challenge Handshake Authentication Protocol (CHAP) challenge. When you do this, the LNS directly authenticates the PPP client.
Usage Guidelines	See “Configuring L2TP for a Group Profile” on page 578 and “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

maximum-sessions-per-tunnel

Syntax	maximum-sessions-per-tunnel <i>number</i> ;
Hierarchy Level	[edit access group-profile l2tp], [edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure the maximum sessions for a Layer 2 tunnel.
Options	<i>number</i> —Maximum number of sessions for a Layer 2 tunnel.
Usage Guidelines	See “Configuring L2TP for a Group Profile” on page 578 and “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

multilink

Syntax	multilink { drop-timeout <i>milliseconds</i> ; fragmentation-threshold <i>bytes</i> ; }
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure the PPP MP for L2TP.
Options	The statements are explained separately.
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

pap-password

Syntax	pap-password <i>password</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i>]
Description	Configure the Password Authentication Protocol (PAP) password.
Options	<i>password</i> —PAP password.
Usage Guidelines	See “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

port

Syntax	port <i>port-number</i> ;
Hierarchy Level	[edit access radius-server <i>server-address</i>]
Description	Configure the port number on which to contact the RADIUS server.
Options	<i>port-number</i> —Port number on which to contact the RADIUS server. Default: 1812 (as specified in RFC 2138)
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593 and “Configuring the RADIUS Disconnect Server for L2TP” on page 595.
Required Privilege Level	system—To view this statement in the configuration. system-control—To add this statement to the configuration.

ppp

See the following sections:

ppp (Group Profile) on page 608

ppp (Profile) on page 609

ppp (Group Profile)

Syntax ppp {
 framed-pool *framed-pool*;
 idle-timeout *seconds*;
 interface-id *interface-id*;
 keepalive *seconds*;
 primary-dns *primary-dns*;
 primary-wins *primary-wins*;
 secondary-dns *secondary-dns*;
 secondary-wins *secondary-wins*;
 }

Hierarchy Level [edit access group-profile *profile-name*]

Description Configure PPP properties for a group profile.

The remaining statements are explained separately.

Usage Guidelines See “Configuring the PPP Attributes for a Group Profile” on page 578.

Required Privilege Level admin—To view this statement in the configuration.
 admin-control—To add this statement to the configuration.

ppp (Profile)

Syntax	<pre> ppp { framed-ip-address <i>address</i>; framed-pool <i>framed-pool</i>; idle-timeout <i>seconds</i>; interface-id <i>interface-id</i>; keepalive <i>seconds</i>; primary-dns <i>primary-dns</i>; primary-wins <i>primary-wins</i>; secondary-dns <i>secondary-dns</i>; secondary-wins <i>secondary-wins</i>; } </pre>
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i>]
Description	<p>Configure PPP properties for a client profile.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

ppp-authentication

Syntax	ppp-authentication (chap pap);
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure PPP authentication.
Options	chap— The Challenge Handshake Authentication Protocol. pap— The Password Authentication Protocol.
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

primary-dns

Syntax	<code>primary-dns primary-dns;</code>
Hierarchy Level	[edit access group-profile <i>profile-name</i> client <i>client-name</i> ppp], [edit access profile <i>profile-name</i> ppp]
Description	Configure the primary Domain Name System (DNS) server.
Options	<i>primary-dns</i> —An IPv4 address.
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration

primary-wins

Syntax	<code>primary-wins primary-wins;</code>
Hierarchy Level	[edit access group-profile <i>profile-name</i> client <i>client-name</i> ppp], [edit access profile <i>profile-name</i> ppp]
Description	Configure the primary Windows Internet name server.
Options	<i>primary-wins</i> —An IPv4 address.
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

profile

```

Syntax  profile profile-name {
            authentication-order [ authentication-methods ];
            client client-name {
                chap-secret chap-secret;
                group-profile profile-name;
                l2tp {
                    interface-id interface-id;
                    lcp-renegotiation;
                    local-chap;
                    maximum-sessions-per-tunnel number;
                    multilink {
                        drop-timeout milliseconds;
                        fragmentation-threshold bytes;
                    }
                    ppp-authentication (chap | pap);
                    shared-secret shared-secret;
                }
                pap-password pap-password;
                ppp {
                    framed-ip-address ip-address;
                    framed-pool framed-pool;
                    idle-timeout seconds;
                    interface-id interface-id;
                    keepalive seconds;
                    primary-dns primary-dns;
                    primary-wins primary-win-server;
                    secondary-dns secondary-dns;
                    secondary-wins secondary-wins;
                }
                user-group-profile profile-name;
            }
        }

```

Hierarchy Level [edit access]

Description Configure PPP CHAP, or a profile and its L2TP or PPP properties.

Options *profile-name*—Name of the profile.

For CHAP, the name serves as the mapping between peer identifiers and CHAP secret keys. This entity is queried for the secret key whenever a CHAP challenge or response is received.

The remaining statements are explained separately.


Usage Guidelines See “Configuring the Challenge Handshake Authentication Protocol” on page 569, “Configuring the Profile” on page 580, “Configuring L2TP Properties for a Profile” on page 585, and “Configuring the PPP Properties for a Profile” on page 588.

Required Privilege Level admin—To view this statement in the configuration.
admin-control—To add this statement to the configuration.

radius-disconnect

Syntax	radius-disconnect { <i>client-address</i> { secret <i>password</i> ; } }
Hierarchy Level	[edit access]
Description	Configure a disconnect server which listens on a configured User Datagram Protocol (UDP) port for disconnect messages from a configured client and processes these disconnect messages.
Options	<i>client-address</i> —A valid IP address configured on one of the router interfaces. The remaining statements are explained separately.
Usage Guidelines	See “Configuring the RADIUS Disconnect Server for L2TP” on page 595.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

radius-disconnect-port

Syntax	radius-disconnect-port <i>port-number</i> ;
Hierarchy Level	[edit access]
Description	Specify a port number on which to contact the RADIUS disconnect server. Most RADIUS servers use port number 1700.
Options	<i>port-number</i> —The server port to which disconnect requests from the RADIUS client are sent. The LNS, which accepts these disconnect requests, is the server.
	NOTE: The JUNOS software accepts only disconnect requests from the client address configured at the [edit access radius-disconnect client <i>client-address</i>] hierarchy level.
	The remaining statements are explained separately.
Usage Guidelines	See “Configuring the RADIUS Disconnect Server for L2TP” on page 595.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

radius-server

Syntax	<pre>radius-server server-address { accounting-port port-number; port port-number; retry attempts; secret password; source-address source-address; timeout seconds; }</pre>
Hierarchy Level	[edit access]
Description	<p>Configure RADIUS for L2TP.</p> <p>To configure multiple RADIUS servers, include multiple radius-server statements. The servers are tried in order and in a round-robin fashion until a valid response is received from one of the servers or until all the configured retry limits are reached.</p>
Options	<p><i>server-address</i>—Address of the RADIUS authentication server.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593.
Required Privilege Level	<p>system—To view this statement in the configuration.</p> <p>system-control—To add this statement to the configuration.</p>

retry

Syntax	<code>retry attempts;</code>
Hierarchy Level	[edit access radius-server <i>server-address</i>]
Description	Number of times that the router attempts to contact a RADIUS authentication server.
Options	<p><i>attempts</i>—Number of times to retry contacting a RADIUS server.</p> <p>Range: 1 through 10</p> <p>Default: 3</p>
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593.
Required Privilege Level	<p>system—To view this statement in the configuration.</p> <p>system-control—To add this statement to the configuration.</p>
See Also	timeout on page 615

secondary-dns

Syntax	<code>secondary-dns secondary-dns;</code>
Hierarchy Level	[edit access group-profile <i>profile-name</i> ppp], [edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Configure the secondary DNS server.
Options	<i>secondary-dns</i> —An IPv4 address.
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

secondary-wins

Syntax	<code>secondary-wins secondary-wins;</code>
Hierarchy Level	[edit access group-profile <i>profile-name</i> ppp], [edit access profile <i>profile-name</i> client <i>client-name</i> ppp]
Description	Configure the secondary Windows Internet name server.
Options	<i>secondary-wins</i> —An IPv4 address.
Usage Guidelines	See “Configuring the PPP Attributes for a Group Profile” on page 578 and “Configuring the PPP Properties for a Profile” on page 588.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

secret

Syntax	<code>secret password;</code>
Hierarchy Level	[edit access radius-disconnect <i>client-address</i>], [edit access radius-server <i>server-address</i>]
Description	Configure the password to use with the RADIUS server. The secret password used by the local router must match that used by the server.
Options	<i>password</i> —Password to use; can include spaces.
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593 and “Configuring the RADIUS Disconnect Server for L2TP” on page 595.
Required Privilege Level	system—To view this statement in the configuration. system-control—To add this statement to the configuration.

shared-secret

Syntax	shared-secret <i>shared-secret</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i> client <i>client-name</i> l2tp]
Description	Configure the shared secret.
Options	<i>shared-secret</i> —The shared secret key for authenticating the peer.
Usage Guidelines	See “Configuring L2TP Properties for a Profile” on page 585.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

source-address

Syntax	source-address <i>source-address</i> ;
Hierarchy Level	[edit access radius-server <i>server-address</i>]
Description	Configure a source address for each configured RADIUS server. Each RADIUS request sent to a RADIUS server uses the specified source address.
Options	<i>source-address</i> —A valid IPv4 address configured on one of the router interfaces.
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

timeout

Syntax	timeout <i>seconds</i> ;
Hierarchy Level	[edit access radius-server <i>server-address</i>]
Description	Configure the amount of time that the local router waits to receive a response from a RADIUS server.
Options	<i>seconds</i> —Amount of time to wait. Range: 1 through 90 seconds Default: 3 seconds
Usage Guidelines	See “Configuring RADIUS Authentication for L2TP” on page 593.
Required Privilege Level	system—To view this statement in the configuration. system-control—To add this statement to the configuration.

traceoptions

Syntax	traceoptions { flag all; flag authentication; flag chap; flag configuration; flag radius; }
Hierarchy Level	[edit access]
Description	Configure access tracing options.
Options	<p>flag—Tracing operation to perform. To specify more than one tracing operation, include multiple flag statements.</p> <p> all—All tracing operations</p> <p> authentication—All authentication module handling</p> <p> chap—All CHAP messages and handling</p> <p> configuration—Reading of configuration</p> <p> radius—All RADIUS messages and handling</p>
Usage Guidelines	See “Tracing Access Processes” on page 572.
Required Privilege Level	<p>admin—To view this statement in the configuration.</p> <p>admin-control—To add this statement to the configuration.</p>

user-group-profile

Syntax	user-group-profile <i>profile-name</i> ;
Hierarchy Level	[edit access profile <i>profile-name</i>]
Description	Apply a configured PPP group profile to PPP users.
Options	<i>profile-name</i> —Name of a PPP group profile configured at the [edit access group-profile <i>profile-name</i>] hierarchy level.
Usage Guidelines	See “Applying a Configured PPP Group Profile to a Tunnel” on page 589.
Required Privilege Level	<p>admin—To view this statement in the configuration.</p> <p>admin-control—To add this statement to the configuration.</p>