

## Chapter 7

# Application Terminate Reasons

This chapter lists the default mappings for application terminate reasons to RADIUS Acct-Terminate-Cause attributes. Table 50 lists the default mappings for AAA, Table 51 lists default mappings for L2TP, Table 52 lists the default mappings for PPP, and Table 53 lists default mappings for RADIUS client. See *Mapping Application Terminate Reasons to RADIUS Terminate Codes* in *Chapter 1, Configuring Remote Access* for information about configuring custom mappings for application terminate reasons to RADIUS Acct-Terminate-Cause attributes.

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- L2TP Terminate Reasons on page 228
- PPP Terminate Reasons on page 238
- RADIUS Client Terminate Reasons on page 243

## AAA Terminate Reasons

Table 50 lists the default AAA terminate mappings. The table indicates the supported AAA terminate and deny reasons and the RADIUS Acct-Terminate-Cause attributes they are mapped to by default.

**Table 50: Default AAA Mappings**

AAA Shutdown or Deny Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
deny address allocation failure	17	user error
deny address assignment failure	17	user error
deny application error	17	user error
deny authentication denied	17	user error
deny authentication failure	17	user error
deny authorization failure	17	user error
deny incompatible request	17	user error
deny invalid tunnel configuration	17	user error
deny limit exceeded	17	user error
deny mixed user types	10	nas request
deny no access challenge support	17	user error

**Table 50: Default AAA Mappings (continued)**

AAA Shutdown or Deny Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
deny no address allocation resources	17	user error
deny no resources	10	nas request
deny redirected authentication failure	17	user error
deny server not available	17	user error
deny server request timeout	17	user error
deny terminating user	10	nas request
deny unknown subscriber	17	user error
deny user termination	17	user error
shutdown address lease expiration	10	nas request
shutdown administrative reset	6	admin reset

## L2TP Terminate Reasons

Table 51 lists the default L2TP terminate mappings. The table indicates the supported L2TP terminate reasons and the RADIUS Acct-Terminate-Cause attributes they are mapped to by default.

**Table 51: Default L2TP Mappings**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
session access interface down	8	port error
session admin close	6	admin reset
session admin drain	6	admin reset
session call down	10	nas request
session call failed	15	service unavailable
session create failed limit reached	9	nas error
session create failed no resources	9	nas error
session create failed single shot tunnel already fired	9	nas error
session create failed too busy	9	nas error
session failover protocol resync disconnect	6	admin reset
session hardware unavailable	8	port error
session no resources server port	9	nas error
session not ready	9	nas error
session rx cdn	10	nas request
session rx cdn avp bad hidden	10	nas request
session rx cdn avp bad value assigned session id	10	nas request
session rx cdn avp duplicate value assigned session id	10	nas request
session rx cdn avp malformed bad length	10	nas request

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
session rx cdn avp malformed truncated	10	nas request
session rx cdn avp missing mandatory assigned session id	10	nas request
session rx cdn avp missing mandatory result code	10	nas request
session rx cdn avp missing random vector	10	nas request
session rx cdn avp missing secret	10	nas request
session rx cdn avp unknown	10	nas request
session rx cdn no resources	10	nas request
session rx iccn avp bad hidden	10	nas request
session rx iccn avp bad value framing type	10	nas request
session rx iccn avp bad value proxy authen type	10	nas request
session rx iccn avp bad value unsupported proxy authen type	10	nas request
session rx iccn avp malformed bad length	10	nas request
session rx iccn avp malformed truncated	10	nas request
session rx iccn avp missing mandatory connect speed	10	nas request
session rx iccn avp missing mandatory framing type	10	nas request
session rx iccn avp missing mandatory proxy authen challenge	10	nas request
session rx iccn avp missing mandatory proxy authen id	10	nas request
session rx iccn avp missing mandatory proxy authen name	10	nas request
session rx iccn avp missing mandatory proxy authen response	10	nas request
session rx iccn avp missing random vector	10	nas request
session rx iccn avp missing secret	10	nas request
session rx iccn avp unknown	10	nas request
session rx iccn no resources	10	nas request
session rx iccn unexpected	10	nas request
session rx icrp avp bad hidden	10	nas request
session rx icrp avp bad value assigned session id	10	nas request
session rx icrp avp duplicate value assigned session id	10	nas request
session rx icrp avp malformed bad length	10	nas request
session rx icrp avp malformed truncated	10	nas request
session rx icrp avp missing mandatory assigned session id	10	nas request
session rx icrp avp missing random vector	10	nas request
session rx icrp avp missing secret	10	nas request
session rx icrp avp unknown	10	nas request
session rx icrp no resources	10	nas request
session rx icrp unexpected	10	nas request

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
session rx icrq admin close	6	admin reset
session rx icrq authenticate failed host	10	nas request
session rx icrq avp bad hidden	10	nas request
session rx icrq avp bad value assigned session id	10	nas request
session rx icrq avp bad value bearer type	10	nas request
session rx icrq avp bad value cisco nas port	10	nas request
session rx icrq avp duplicate value assigned session id	10	nas request
session rx icrq avp malformed bad length	10	nas request
session rx icrq avp malformed truncated	10	nas request
session rx icrq avp missing mandatory assigned session id	10	nas request
session rx icrq avp missing mandatory call serial number	10	nas request
session rx icrq avp missing random vector	10	nas request
session rx icrq avp missing secret	10	nas request
session rx icrq avp unknown	10	nas request
session rx icrq no resources	10	nas request
session rx icrq unexpected	10	nas request
session rx occn avp bad hidden	10	nas request
session rx occn avp bad value framing type	10	nas request
session rx occn avp malformed bad length	10	nas request
session rx occn avp malformed truncated	10	nas request
session rx occn avp missing mandatory connect speed	10	nas request
session rx occn avp missing mandatory framing type	10	nas request
session rx occn avp missing random vector	10	nas request
session rx occn avp missing secret	10	nas request
session rx occn avp unknown	10	nas request
session rx occn no resources	10	nas request
session rx occn unexpected	10	nas request
session rx ocrp avp bad hidden	10	nas request
session rx ocrp avp bad value assigned session id	10	nas request
session rx ocrp avp duplicate value assigned session id	10	nas request
session rx ocrp avp malformed bad length	10	nas request
session rx ocrp avp malformed truncated	10	nas request
session rx ocrp avp missing mandatory assigned session id	10	nas request
session rx ocrp avp missing random vector	10	nas request
session rx ocrp avp missing secret	10	nas request
session rx ocrp avp unknown	10	nas request
session rx ocrp no resources	10	nas request

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
session rx ocrp unexpected	10	nas request
session rx ocrq admin close	10	admin reset
session rx ocrq authenticate failed host	10	nas request
session rx ocrq avp bad hidden	10	nas request
session rx ocrq avp bad value assigned session id	10	nas request
session rx ocrq avp bad value bearer type	10	nas request
session rx ocrq avp bad value framing type	10	nas request
session rx ocrq avp duplicate value assigned session id	10	nas request
session rx ocrq avp malformed bad length	10	nas request
session rx ocrq avp malformed truncated	10	nas request
session rx ocrq avp missing mandatory assigned session id	10	nas request
session rx ocrq avp missing mandatory bearer type	10	nas request
session rx ocrq avp missing mandatory call serial number	10	nas request
session rx ocrq avp missing mandatory called number	10	nas request
session rx ocrq avp missing mandatory framing type	10	nas request
session rx ocrq avp missing mandatory maximum bps	10	nas request
session rx ocrq avp missing mandatory minimum bps	10	nas request
session rx ocrq avp missing random vector	10	nas request
session rx ocrq avp missing secret	10	nas request
session rx ocrq avp unknown	10	nas request
session rx ocrq no resources	10	nas request
session rx ocrq unexpected	10	nas request
session rx ocrq unsupported	9	nas error
session rx sli avp bad hidden	10	nas request
session rx sli avp bad value accm	10	nas request
session rx sli avp malformed bad length	10	nas request
session rx sli avp malformed truncated	10	nas request
session rx sli avp missing mandatory accm	10	nas request
session rx sli avp missing random vector	10	nas request
session rx sli avp missing secret	10	nas request
session rx sli avp unknown	10	nas request
session rx sli no resources	10	nas request
session rx unexpected packet lac incoming	10	nas request
session rx unexpected packet lac outgoing	10	nas request
session rx unexpected packet lns incoming	10	nas request
session rx unexpected packet lns outgoing	10	nas request
session rx unknown session id	10	nas request

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
session rx wen avp bad hidden	10	nas request
session rx wen avp malformed bad length	10	nas request
session rx wen avp malformed truncated	10	nas request
session rx wen avp missing mandatory call errors	10	nas request
session rx wen avp missing random vector	10	nas request
session rx wen avp missing secret	10	nas request
session rx wen avp unknown	10	nas request
session rx wen no resources	10	nas request
session timeout connection	10	nas request
session timeout inactivity	4	idle timeout
session timeout session	5	session timeout
session timeout upper create	9	nas error
session transmit speed unavailable	9	nas error
session tunnel down	15	service unavailable
session tunnel failed	15	service unavailable
session tunnel switch profile deleted	6	admin reset
session tunneled interface down	8	port error
session unknown cause	9	nas error
session upper create failed	9	nas error
session upper removed	15	service unavailable
session warmstart not operational	15	service unavailable
session warmstart recovery error	15	service unavailable
session warmstart upper not restacked	10	nas request
tunnel admin close	6	admin reset
tunnel admin drain	6	admin reset
tunnel control channel failed	15	service unavailable
tunnel created no sessions	1	user request
tunnel destination address changed	6	admin reset
tunnel destination down	10	nas request
tunnel failover protocol no resources for recovery tunnel	15	service unavailable
tunnel failover protocol no resources for session resync	15	service unavailable
tunnel failover protocol not supported	15	service unavailable
tunnel failover protocol not supported by peer	15	service unavailable
tunnel failover protocol recovery control channel failed	15	service unavailable
tunnel failover protocol recovery tunnel failed	15	service unavailable
tunnel failover protocol recovery tunnel finished	1	user request
tunnel failover protocol recovery tunnel primary down	1	user request

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel failover protocol session resync failed	15	service unavailable
tunnel host profile changed	6	admin reset
tunnel host profile deleted	6	admin reset
tunnel rx sccn authenticate failed challenge	17	user error
tunnel rx sccn avp bad hidden	15	service unavailable
tunnel rx sccn avp bad value challenge response	15	service unavailable
tunnel rx sccn avp malformed bad length	15	service unavailable
tunnel rx sccn avp malformed truncated	15	service unavailable
tunnel rx sccn avp missing challenge response	17	user error
tunnel rx sccn avp missing random vector	15	service unavailable
tunnel rx sccn avp missing secret	15	service unavailable
tunnel rx sccn avp unexpected challenge response	15	service unavailable
tunnel rx sccn avp unknown	15	service unavailable
tunnel rx sccn no resources	15	service unavailable
tunnel rx sccn session id not null	15	service unavailable
tunnel rx sccn unexpected	15	service unavailable
tunnel rx sccrp authenticate failed challenge	17	user error
tunnel rx sccrp authenticate failed host	17	user error
tunnel rx sccrp avp bad hidden	15	service unavailable
tunnel rx sccrp avp bad value assigned tunnel id	15	service unavailable
tunnel rx sccrp avp bad value bearer capabilities	15	service unavailable
tunnel rx sccrp avp bad value challenge	15	service unavailable
tunnel rx sccrp avp bad value challenge response	15	service unavailable
tunnel rx sccrp avp bad value failover capability	15	service unavailable
tunnel rx sccrp avp bad value framing capabilities	15	service unavailable
tunnel rx sccrp avp bad value protocol version	15	service unavailable
tunnel rx sccrp avp bad value receive window size	15	service unavailable
tunnel rx sccrp avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx sccrp avp malformed bad length	15	service unavailable
tunnel rx sccrp avp malformed truncated	15	service unavailable
tunnel rx sccrp avp missing challenge response	17	user error
tunnel rx sccrp avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx sccrp avp missing mandatory framing capabilities	15	service unavailable
tunnel rx sccrp avp missing mandatory host name	15	service unavailable
tunnel rx sccrp avp missing mandatory protocol version	15	service unavailable
tunnel rx sccrp avp missing random vector	15	service unavailable
tunnel rx sccrp avp missing secret	15	service unavailable

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel rx sccrp avp unexpected challenge response	15	service unavailable
tunnel rx sccrp avp unexpected challenge without secret	15	service unavailable
tunnel rx sccrp avp unknown	15	service unavailable
tunnel rx sccrp no resources	15	service unavailable
tunnel rx sccrp session id not null	15	service unavailable
tunnel rx sccrp unexpected	15	service unavailable
tunnel rx sccrq admin close	6	admin reset
tunnel rx sccrq authenticate failed host	17	user error
tunnel rx sccrq avp bad hidden	15	service unavailable
tunnel rx sccrq avp bad value assigned tunnel id	15	service unavailable
tunnel rx sccrq avp bad value bearer capabilities	15	service unavailable
tunnel rx sccrq avp bad value challenge	15	service unavailable
tunnel rx sccrq avp bad value failover capability	15	service unavailable
tunnel rx sccrq avp bad value framing capabilities	15	service unavailable
tunnel rx sccrq avp bad value protocol version	15	service unavailable
tunnel rx sccrq avp bad value receive window size	15	service unavailable
tunnel rx sccrq avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx sccrq avp malformed bad length	15	service unavailable
tunnel rx sccrq avp malformed truncated	15	service unavailable
tunnel rx sccrq avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx sccrq avp missing mandatory framing capabilities	15	service unavailable
tunnel rx sccrq avp missing mandatory host name	15	service unavailable
tunnel rx sccrq avp missing mandatory protocol version	15	service unavailable
tunnel rx sccrq avp missing random vector	15	service unavailable
tunnel rx sccrq avp missing secret	15	service unavailable
tunnel rx sccrq avp unexpected challenge without secret	15	service unavailable
tunnel rx sccrq avp unknown	15	service unavailable
tunnel rx sccrq bad address	15	service unavailable
tunnel rx sccrq no resources	15	service unavailable
tunnel rx sccrq no resources max tunnels	15	service unavailable
tunnel rx sccrq session id not null	15	service unavailable
tunnel rx sccrq unexpected	15	service unavailable
tunnel rx stopccn	1	user request
tunnel rx stopccn avp bad hidden	15	service unavailable
tunnel rx stopccn avp bad value assigned tunnel id	15	service unavailable
tunnel rx stopccn avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx stopccn avp malformed bad length	15	service unavailable



**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel rx stopccn avp malformed truncated	15	service unavailable
tunnel rx stopccn avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx stopccn avp missing mandatory result code	15	service unavailable
tunnel rx stopccn avp missing random vector	15	service unavailable
tunnel rx stopccn avp missing secret	15	service unavailable
tunnel rx stopccn avp unknown	15	service unavailable
tunnel rx stopccn no resources	15	service unavailable
tunnel rx stopccn session id not null	15	service unavailable
tunnel rx frs avp malformed truncated	15	service unavailable
tunnel rx frs avp missing mandatory failover session state	15	service unavailable
tunnel rx frs avp missing random vector	15	service unavailable
tunnel rx frs avp missing secret	15	service unavailable
tunnel rx frs avp unknown	15	service unavailable
tunnel rx frs no resources	15	service unavailable
tunnel rx frs session id not null	15	service unavailable
tunnel rx fsq avp bad hidden	15	service unavailable
tunnel rx fsq avp malformed bad length	15	service unavailable
tunnel rx fsq avp malformed truncated	15	service unavailable
tunnel rx fsq avp missing mandatory failover session state	15	service unavailable
tunnel rx fsq avp missing random vector	15	service unavailable
tunnel rx fsq avp missing secret	15	service unavailable
tunnel rx fsq avp unknown	15	service unavailable
tunnel rx fsq no resources	15	service unavailable
tunnel rx fsq session id not null	15	service unavailable
tunnel rx fsr avp bad hidden	15	service unavailable
tunnel rx fsr avp malformed bad length	15	service unavailable
tunnel rx unexpected packet	15	service unavailable
tunnel rx unexpected packet for session	15	service unavailable
tunnel rx unknown packet message type indecipherable	15	service unavailable
tunnel rx unknown packet message type unrecognized	15	service unavailable
tunnel rx recovery sccn authenticate failed challenge	17	user error
tunnel rx recovery sccn avp bad hidden	15	service unavailable
tunnel rx recovery sccn avp bad value challenge response	15	service unavailable
tunnel rx recovery sccn avp malformed bad length	15	service unavailable
tunnel rx recovery sccn avp malformed truncated	15	service unavailable
tunnel rx recovery sccn avp missing challenge response	17	user error
tunnel rx recovery sccn avp missing random vector	15	service unavailable

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel rx recovery sccn avp missing secret	15	service unavailable
tunnel rx recovery sccn avp unexpected challenge response	15	service unavailable
tunnel rx recovery sccn avp unknown	15	service unavailable
tunnel rx recovery sccn no resources	15	service unavailable
tunnel rx recovery sccn session id not null	15	service unavailable
tunnel rx recovery sccrp authenticate failed challenge	17	user error
tunnel rx recovery sccrp avp bad hidden	15	service unavailable
tunnel rx recovery sccrp avp bad value assigned tunnel id	15	service unavailable
tunnel rx recovery sccrp avp bad value bearer capabilities	15	service unavailable
tunnel rx recovery sccrp avp bad value challenge	15	service unavailable
tunnel rx recovery sccrp avp bad value challenge response	15	service unavailable
tunnel rx recovery sccrp avp bad value framing capabilities	15	service unavailable
tunnel rx recovery sccrp avp bad value protocol version	15	service unavailable
tunnel rx recovery sccrp avp bad value receive window size	15	service unavailable
tunnel rx recovery sccrp avp bad value suggested control sequence	15	service unavailable
tunnel rx recovery sccrp avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx recovery sccrp avp malformed bad length	15	service unavailable
tunnel rx recovery sccrp avp malformed truncated	15	service unavailable
tunnel rx recovery sccrp avp mismatched host name	15	service unavailable
tunnel rx recovery sccrp avp mismatched vendor name	15	service unavailable
tunnel rx recovery sccrp avp missing challenge response	17	user error
tunnel rx recovery sccrp avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx recovery sccrp avp missing mandatory framing capabilities	15	service unavailable
tunnel rx recovery sccrp avp missing mandatory host name	15	service unavailable
tunnel rx recovery sccrp avp missing mandatory protocol version	15	service unavailable
tunnel rx recovery sccrp avp missing random vector	15	service unavailable
tunnel rx recovery sccrp avp missing secret	15	service unavailable
tunnel rx recovery sccrp avp unexpected challenge response	15	service unavailable
tunnel rx recovery sccrp avp unexpected challenge without secret	15	service unavailable
tunnel rx recovery sccrp avp unknown	15	service unavailable
tunnel rx recovery sccrp no resources	15	service unavailable
tunnel rx recovery sccrp session id not null	15	service unavailable
tunnel rx recovery sccrp admin close	6	admin reset

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel rx recovery sccrq avp bad hidden	15	service unavailable
tunnel rx recovery sccrq avp bad value assigned tunnel id	15	service unavailable
tunnel rx recovery sccrq avp bad value bearer capabilities	15	service unavailable
tunnel rx recovery sccrq avp bad value challenge	15	service unavailable
tunnel rx recovery sccrq avp bad value framing capabilities	15	service unavailable
tunnel rx recovery sccrq avp bad value protocol version	15	service unavailable
tunnel rx recovery sccrq avp bad value receive window size	15	service unavailable
tunnel rx recovery sccrq avp bad value tunnel recovery	15	service unavailable
tunnel rx recovery sccrq avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx recovery sccrq avp duplicate value tie breaker	15	service unavailable
tunnel rx recovery sccrq avp malformed bad length	15	service unavailable
tunnel rx recovery sccrq avp malformed truncated	15	service unavailable
tunnel rx recovery sccrq avp mismatched host name	15	service unavailable
tunnel rx recovery sccrq avp mismatched vendor name	15	service unavailable
tunnel rx recovery sccrq avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx recovery sccrq avp missing mandatory framing capabilities	15	service unavailable
tunnel rx recovery sccrq avp missing mandatory host name	15	service unavailable
tunnel rx recovery sccrq avp missing mandatory protocol version	15	service unavailable
tunnel rx recovery sccrq avp missing mandatory tunnel recovery	15	service unavailable
tunnel rx recovery sccrq avp missing random vector	15	service unavailable
tunnel rx recovery sccrq avp missing secret	15	service unavailable
tunnel rx recovery sccrq avp missing tie breaker	15	service unavailable
tunnel rx recovery sccrq avp unexpected challenge without secret	15	service unavailable
tunnel rx recovery sccrq avp unknown	15	service unavailable
tunnel rx recovery sccrq no resources	15	service unavailable
tunnel rx recovery sccrq session id not null	15	service unavailable
tunnel rx recovery sccrq tunnel id not null	15	service unavailable
tunnel rx recovery stopccn avp bad hidden	15	service unavailable
tunnel rx recovery stopccn avp bad value assigned tunnel id	15	service unavailable
tunnel rx recovery stopccn avp duplicate value assigned tunnel id	15	service unavailable
tunnel rx recovery stopccn avp malformed bad length	15	service unavailable
tunnel rx recovery stopccn avp malformed truncated	15	service unavailable

**Table 51: Default L2TP Mappings (continued)**

L2TP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
tunnel rx recovery stopccn avp missing mandatory assigned tunnel id	15	service unavailable
tunnel rx recovery stopccn avp missing mandatory result code	15	service unavailable
tunnel rx recovery stopccn avp missing random vector	15	service unavailable
tunnel rx recovery stopccn avp missing secret	15	service unavailable
tunnel rx recovery stopccn avp unknown	15	service unavailable
tunnel rx recovery stopccn no resources	15	service unavailable
tunnel rx recovery stopccn session id not null	15	service unavailable
tunnel rx recovery unexpected packet	15	service unavailable
tunnel rx recovery unknown packet message type indecipherable	15	service unavailable
tunnel rx recovery unknown packet message type unrecognized	15	service unavailable
tunnel rx session packet null sid invalid	15	service unavailable
tunnel rx session packet null sid without assigned session id	15	service unavailable
tunnel timeout connection	15	service unavailable
tunnel timeout connection recovery tunnel	15	service unavailable
tunnel timeout idle	1	user request
tunnel unknown cause	9	nas error
tunnel warmstart not operational	15	service unavailable
tunnel warmstart recovery error	15	service unavailable

## PPP Terminate Reasons

Table 52 lists the default PPP terminate mappings. The table indicates the supported PPP terminate reasons and the RADIUS Acct-Terminate-Cause attributes they are mapped to by default.

**Table 52: Default PPP Mappings**

PPP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
authenticate authenticator timeout	17	user error
authenticate challenge timeout	10	nas request
authenticate chap no resources	10	nas request
authenticate chap peer authenticator timeout	17	user error
authenticate deny by peer	17	user error
authenticate inactivity timeout	4	idle timeout
authenticate max requests	10	nas request
authenticate no authenticator	10	nas request

**Table 52: Default PPP Mappings (continued)**

PPP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
authenticate pap peer authenticator timeout	17	user error
authenticate pap request timeout	10	nas request
authenticate session timeout	5	session timeout
authenticate too many requests	10	nas request
authenticate tunnel fail immediate	10	nas request
authenticate tunnel unsupported tunnel type	10	nas request
bundle fail create	10	nas request
bundle fail engine add	10	nas request
bundle fail fragment size mismatch	10	nas request
bundle fail fragmentation location	10	nas request
bundle fail fragmentation mismatch	10	nas request
bundle fail join	10	nas request
bundle fail link selection mismatch	10	nas request
bundle fail local mped not set yet	10	nas request
bundle fail local mrru mismatch	10	nas request
bundle fail local mru mismatch	10	nas request
bundle fail peer mrru mismatch	10	nas request
bundle fail reassembly location	10	nas request
bundle fail reassembly mismatch	10	nas request
bundle fail record network	10	nas request
bundle fail server location mismatch	10	nas request
bundle fail static link	10	nas request
failover during authentication	6	admin reset
interface admin disable	6	admin reset
interface down	2	lost carrier
interface no hardware	8	port error
ip admin disable	10	nas request
ip inhibited by authentication	10	nas request
ip link down	10	nas request
ip max configure exceeded	10	nas request
ip no local ip address	10	nas request
ip no local ip address mask	10	nas request
ip no local primary dns address	10	nas request
ip no local primary nbns address	10	nas request
ip no local secondary dns address	10	nas request
ip no local secondary nbns address	10	nas request
ip no peer ip address	10	nas request

**Table 52: Default PPP Mappings (continued)**

PPP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
ip no peer ip address mask	10	nas request
ip no peer primary dns address	10	nas request
ip no peer primary nbns address	10	nas request
ip no peer secondary dns address	10	nas request
ip no peer secondary nbns address	10	nas request
ip no service	10	nas request
ip peer renegotiate rx conf ack	10	nas request
ip peer renegotiate rx conf nak	10	nas request
ip peer renegotiate rx conf rej	10	nas request
ip peer renegotiate rx conf req	10	nas request
ip peer terminate term ack	10	nas request
ip peer terminate code rej	10	nas request
ip peer terminate term req	10	nas request
ip service disable	10	nas request
ip stale stacking	10	nas request
ipv6 admin disable	10	nas request
ipv6 inhibited by authentication	10	nas request
ipv6 link down	10	nas request
ipv6 local and peer interface ids identical	10	nas request
ipv6 max configure exceeded	10	nas request
ipv6 no local ipv6 interface id	10	nas request
ipv6 no peer ipv6 interface id	10	nas request
ipv6 no service	10	nas request
ipv6 peer renegotiate rx conf ack	10	nas request
ipv6 peer renegotiate rx conf nak	10	nas request
ipv6 peer renegotiate rx conf rej	10	nas request
ipv6 peer renegotiate rx conf req	10	nas request
ipv6 peer terminate code rej	10	nas request
ipv6 peer terminate term ack	10	nas request
ipv6 peer terminate term req	10	nas request
ipv6 service disable	10	nas request
ipv6 stale stacking	10	nas request
lcp authenticate terminate hold	10	nas request
lcp configured mrru too small	10	nas request
lcp configured mru invalid	10	nas request
lcp configured mru too small	10	nas request
lcp dynamic interface hold	10	nas request

**Table 52: Default PPP Mappings (continued)**

PPP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
lcp keepalive failure	10	nas request
lcp loopback rx conf req	10	nas request
lcp loopback rx echo reply	10	nas request
lcp loopback rx echo req	10	nas request
lcp max configure exceeded	10	nas request
lcp mru changed	10	nas request
lcp negotiation timeout	10	nas request
lcp no localacm	10	nas request
lcp no localacfc	10	nas request
lcp no local authentication	10	nas request
lcp no local endpoint discriminator	10	nas request
lcp no local magic number	10	nas request
lcp no local mrru	10	nas request
lcp no local mru	10	nas request
lcp no localpfc	10	nas request
lcp no peer accm	10	nas request
lcp no peer authentication	10	nas request
lcp no peer endpoint discriminator	10	nas request
lcp no peer magicnumber	10	nas request
lcp no peer mrru	10	nas request
lcp no peer mru	10	nas request
lcp no peer pfc	10	nas request
lcp peer terminate code rej	1	user request
lcp peer terminate term ack	1	user request
lcp peer terminate term req	1	user request
lcp peer terminate protocol reject	1	user request
lcp peer renegotiate rx conf ack	1	user request
lcp peer renegotiate rx conf nak	1	user request
lcp peer renegotiate rx conf rej	1	user request
lcp peer renegotiate rx conf req	1	user request
lcp tunnel disconnected	10	nas request
lcp tunnel failed	10	nas request
link interface no hardware	8	port error
lower interface attach failed	2	lost carrier
lower interface teardown	2	lost carrier
mpls admin disable	10	nas request
mpls link down	10	nas request

**Table 52: Default PPP Mappings (continued)**

PPP Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
mpls max configure exceeded	10	nas request
mpls no service	10	nas request
mpls peer renegotiate rx conf ack	10	nas request
mpls peer renegotiate rx conf nak	10	nas request
mpls peer renegotiate rx conf rej	10	nas request
mpls peer renegotiate rx conf req	10	nas request
mpls peer terminate code rej	10	nas request
mpls peer terminate term ack	10	nas request
mpls peer terminate term req	10	nas request
mpls service disable	10	nas request
mpls stale stacking	10	nas request
network interface admin disable	6	admin reset
no bundle	10	nas request
no interface	8	port error
no link interface	8	port error
no ncps available	10	nas request
no network interface	10	nas request
no upper interface	9	nas error
osi admin disable	10	nas request
osi link down	10	nas request
osi max configure exceeded	10	nas request
osi no local align npdu	10	nas request
osi no peer align npdu	10	nas request
osi no service	10	nas request
osi peer renegotiate rx conf ack	10	nas request
osi peer renegotiate rx conf nak	10	nas request
osi peer renegotiate rx conf rej	10	nas request
osi peer renegotiate rx conf req	10	nas request
osi peer terminate code rej	10	nas request
osi peer terminate term ack	10	nas request
osi peer terminate term req	10	nas request
osi service disable	10	nas request
osi stale stacking	10	nas request



## RADIUS Client Terminate Reasons

Table 53 lists the default RADIUS client terminate mappings. The table indicates the supported RADIUS client terminate reasons and the RADIUS Acct-Terminate-Cause attributes they are mapped to by default.

**Table 53: Default RADIUS Client Mappings**

RADIUS Client Terminate Reason	RADIUS Acct-Terminate-Cause	
	Code	Description
no-acct-server	10	nas request
system-reboot	10	nas request
virtual-router-deletion	10	nas request

