

## RADIUS IETF Attributes Supported by the AAA Service Framework

Table 1 on page 1 describes the RADIUS IETF attributes supported by the JUNOS software AAA Service Framework.

**Table 1: Supported RADIUS IETF Attributes**

Attribute Number	Attribute Name	Description
1	User-Name	<ul style="list-style-type: none"> <li>■ Name of user to be authenticated</li> <li>■ Configurable username override</li> </ul>
2	User-Password	<ul style="list-style-type: none"> <li>■ Password of user to be authenticated Password Authentication Protocol (PAP)</li> <li>■ Configurable password override</li> <li>■ Password Authentication Protocol (PAP)</li> </ul>
4	NAS-IP-Address	IP address of the network access server (NAS) that is requesting authentication of the user
5	NAS-Port	Physical port number of the NAS that is authenticating the user
6	Service-Type	Type of service the user has requested or the type of service to be provided
8	Framed-IP-Address	<ul style="list-style-type: none"> <li>■ IP address to be configured for the user</li> <li>■ 0.0.0.0 or absence is interpreted as 255.255.255.254</li> </ul>
9	Framed-IP-Netmask	<ul style="list-style-type: none"> <li>■ IP network to be configured for the user when the user is a router to a network</li> <li>■ Absence implies 255.255.255.255</li> </ul>
11	Filter-ID	<ul style="list-style-type: none"> <li>■ Name of the filter list for the user</li> <li>■ Interpreted as input policy name</li> </ul>
18	Reply-Message	<ul style="list-style-type: none"> <li>■ Text that may be displayed to the user</li> <li>■ Only the first instance of this attribute is used</li> </ul>
22	Framed-Route	String that provides routing information to be configured for the user on the NAS; in the format:  <code>&lt;addr&gt;[/&lt;maskLen&gt;][&lt;nextHop&gt; [&lt;cost&gt;]] (tag &lt;tagValue&gt;) [distance &lt;distValue&gt;]</code>
25	Class	An arbitrary value that the NAS includes in all accounting packets for the user if supplied by the RADIUS server
27	Session-Timeout	Maximum number of consecutive seconds of service to be provided to the user before termination of the session
32	NAS-Identifier	Identifies the NAS originating the request

**Table 1: Supported RADIUS IETF Attributes** (continued)

Attribute Number	Attribute Name	Description
40	Acct-Status-Type	Indicates whether this Accounting-Request marks the beginning of the user service (Start), the end (Stop), or the interim (Interim-Update)
41	Acct-Delay-Time	Indicates how many seconds the client has been trying to send a particular record
42	Acct-Input-Octets	Indicates how many octets have been received from the port during the time this service has been provided
43	Acct-Output-Octets	Indicates how many octets have been sent to the port during the time this service has been provided
44	Acct-Session-ID	Unique accounting identifier that makes it easy to match start and stop records in a log file. The identifier can be in one of the following formats: <ul style="list-style-type: none"><li>■ decimal—For example, 435264</li><li>■ description—In the generic format, <i>jnpr interface-specifier:subscriber-session-id</i>; For example, <i>jnpr fastEthernet 3/2.6:1010101010101</i></li></ul>
45	Acct-Authentic	Indicates how the user was authenticated: whether by RADIUS, the NAS itself, or another remote authentication protocol
46	Acct-Session-Time	Indicates how long in seconds that the user has received service
47	Acct-Input-Packets	Indicates how many packets have been received from the port during the time this service has been provided to a framed user
48	Acct-Output-Packets	Indicates how many packets have been sent to the port in the course of delivering this service to a framed user

**Table 1: Supported RADIUS IETF Attributes** (continued)

Attribute Number	Attribute Name	Description
49	Acct-Terminate-Cause	<p>Contains the reason the service (a PPP session) was terminated. The service can be terminated for the following reasons:</p> <ul style="list-style-type: none"> <li>■ User Request (1)—User initiated the disconnect (log out)</li> <li>■ Idle Timeout (4)—Idle timer has expired</li> <li>■ Session Timeout (5)—Client reached the maximum continuous time allowed on the service or session</li> <li>■ Admin Reset (6)—System administrator terminated the session</li> <li>■ Port Error (8)—PVC failed; no hardware or no interface</li> <li>■ NAS Error (9)—Negotiation failures, connection failures, or address lease expiration</li> <li>■ NAS Request (10)—PPP challenge timeout, PPP request timeout, tunnel establishment failure, PPP bundle failure, IP address lease expiration, PPP keep-alive failure, Tunnel disconnect, or an unaccounted-for error</li> </ul>
52	Acct-Input-Gigawords	Indicates how many times the Acct-Input-Octets counter has wrapped around $2^{32}$ during the time this service has been provided. Can be present in Accounting-Request records only where the Acct-Status-Type is set to Stop or Interim-Update
53	Acct-Output-Gigawords	Indicates how many times the Acct-Output-Octets counter has wrapped around $2^{32}$ in the course of delivering this service. Can be present in Accounting-Request records only where the Acct-Status-Type is set to Stop or Interim-Update
55	Event-Timestamp	Records the time that this event occurred on the NAS, in seconds, since January 1, 1970 00:00 UTC
61	NAS-Port-Type	Indicates the type of physical port the NAS is using to authenticate the user
85	Acct-Interim-Interval	Number of seconds between each interim accounting update for this session
87	NAS-Port-ID	Text string that identifies the physical interface of the NAS that is authenticating the user
88	Framed-Pool	Name of an assigned address pool that should be used to assign an address for the user

