

## Defining the Values of RADIUS Attributes

The values of RADIUS attributes can be a standard value (see Table 1) or an expression. Expressions are evaluated with Python. For example: `lowWord(inOctets)` extracts the lower 32 bits of the 64-bit `inOctets` counter. You can define multiple values for an expression in a comma-separated list.

**Table 1: Standard Values for RADIUS Attributes**

Value	Type of Plug-In	Comments
accountingId	User and service tracking	
authUserId	Service tracking	
dhcp	User and service tracking	Provides access to DHCP packet. See <a href="#">[Unresolved xref]</a> for details.
domain	Authorization	
eventTime	User and service tracking	Seconds since 1970-01-01T00:00Z
ifRadiusClass	User and service tracking	
ifSessionId	User and service tracking	
inOctets	Service tracking	64-bit counter
inPackets	Service tracking	
interfaceAlias	User and service tracking	
interfaceDescr	User and service tracking	
interfaceName	User and service tracking	
localNasId	All	Configured NAS-ID
localNasIp	All	Configured NAS-IP
loginId	User and service authorization	ID provided by the subscriber; the loginId value is not separated into UID and domain name.
loginName	User and service tracking	Name that the subscriber uses to log in to portal
nasIp	User and service tracking	NAS IP address of the router
nasPort	User and service tracking	32-bit integer
outOctets	Service tracking	64-bit counter
outPackets	Service tracking	

**Table 1: Standard Values for RADIUS Attributes** *(continued)*

Value	Type of Plug-In	Comments
password	User and service authorization	
portId	User and service tracking	ID of the port on the JUNOS router; for example, FastEthernet 3/1 :2001
primaryUserName	User and service tracking	Name that the subscriber uses for DHCP/PPP authentication
radiusClass	User tracking, user and service authorization	For service tracking, this value is taken from the RADIUS Access-Accept response. If the response does not contain a value, the RADIUS class defined in the service definition is used.  This attribute can be set by an authorization response.
replyMessage	User and service authorization	This attribute can only be set.
routerName	User and service tracking	
serviceBundle	User tracking and authorization	This attribute can be set by an authorization response.
serviceName	Service tracking	Sets an arbitrary attribute (for example, class) to the name of the service.
serviceSessionName	Service tracking	Named service session; empty for default session
serviceSessionTag	Service tracking	
sessionId	User and service tracking	
sessionTime	User and service tracking	
sessionTimeout	User tracking, user and service authorization	This attribute can be set by an authorization response.

**Table 1: Standard Values for RADIUS Attributes** *(continued)*

Value	Type of Plug-In	Comments
sessionVolumeQuota	User authorization	<p>This attribute can only be set. It is sent for session tracking events and can be returned by service authorization events. It can be set and retrieved through the portal API and can also be defined through an LDAP attribute in the service definition.</p> <p>If the attribute is defined multiple times, the following precedence is observed:</p> <ol style="list-style-type: none"> <li>1. Service definition (lowest)</li> <li>2. Authorization</li> <li>3. API call (highest)</li> </ol> <p><b>NOTE:</b> The SAE does not enforce a volume quota directly; it only makes the attribute available to an external application that can control the volume quota.</p>
setAcctInterimTime	User authorization	Integer
setAuthVirtualRouterName	DHCP authorization	Text
setIdleTimeout(ATTR)	User authorization	
setLoadServices(ATTR)	User authorization	This attribute can only be set.
setPoolName	DHCP authorization	Text
setRadiusClass(ATTR)	User and service authorization	
setReplyMessage(ATTR)	User and service authorization	
setSessionTimeout(ATTR)	User and service authorization	
setServiceBundle(ATTR)	User authorization	
setSessionVolumeQuota(ATTR)	User authorization	
setSubstitution	User authorization	Text. Substitutions can be set only for service sessions.
setTerminateTime	User authorization	Text
setUserIpAddress	DHCP authorization	Integer

**Table 1: Standard Values for RADIUS Attributes** *(continued)*

Value	Type of Plug-In	Comments
sspHost	User and service tracking	
terminateCause	User and service tracking	
uid	User and service authorization	
userDn	User and service tracking	
userIpAddress	User and service tracking	
userMacAddress	User and service tracking	
userRadiusClass	Service tracking	RADIUS class of associated subscriber session
userSessionId	Service tracking	RADIUS session ID of associated subscriber session

**Related Topics**

- Overview of Flexible RADIUS Plug-Ins
- Using Flexible RADIUS Packet Definitions
- Configuring a RADIUS Packet Template
- Configuring UDP Ports for RADIUS Plug-Ins

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