



# RADIUS Vendor-Proprietary Attributes

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The IETF draft standard for RADIUS specifies a method for communicating vendor-proprietary information between the network access server and the RADIUS server. However, some vendors have extended the RADIUS attribute set for specific applications. This document provides Cisco IOS support information for these vendor-proprietary RADIUS attributes.

## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the [“Feature Information for RADIUS Vendor-Proprietary Attributes”](#) section on page 13.

Use Cisco Feature Navigator to find information about platform support and Cisco IOS and Catalyst OS software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

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## Supported Vendor-Proprietary RADIUS Attributes

[Table 73](#) lists Cisco-supported vendor-proprietary RADIUS attributes and the Cisco IOS release in which they are implemented. In cases where the attribute has a security server-specific format, the format is specified. Refer to [Table 74](#) for a list of descriptions.



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**Note**

Attributes implemented in special (AA) or early development (T) releases will be added to the next mainline image.

**Table 73** *Supported Vendor-Proprietary RADIUS Attributes*

Number	Vendor-Proprietary Attribute	11.1	11.2	11.3	11.3AA	11.3T	12.0	12.1	12.2	12.3	12.4
17	Change-Password	no	no	yes	yes	yes	yes	yes	yes	no	no
21	Password-Expiration	no	no	yes	yes	yes	yes	yes	yes	no	no
68	Tunnel-ID	no	no	no	no	no	no	no	yes	yes	yes
108	My-Endpoint-Disc-Alias	no	no	no	no	no	no	no	no	no	no
109	My-Name-Alias	no	no	no	no	no	no	no	no	no	no
110	Remote-FW	no	no	no	no	no	no	no	no	no	no
111	Multicast-GLeave-Delay	no	no	no	no	no	no	no	no	no	no
112	CBCP-Enable	no	no	no	no	no	no	no	no	no	no
113	CBCP-Mode	no	no	no	no	no	no	no	no	no	no
114	CBCP-Delay	no	no	no	no	no	no	no	no	no	no
115	CBCP-Trunk-Group	no	no	no	no	no	no	no	no	no	no
116	Appletalk-Route	no	no	no	no	no	no	no	no	no	no
117	Appletalk-Peer-Mode	no	no	no	no	no	no	no	no	no	no
118	Route-Appletalk	no	no	no	no	no	no	no	no	no	no
119	FCP-Parameter	no	no	no	no	no	no	no	no	no	no
120	Modem-PortNo	no	no	no	no	no	no	no	no	no	no
121	Modem-SlotNo	no	no	no	no	no	no	no	no	no	no
122	Modem-ShelfNo	no	no	no	no	no	no	no	no	no	no
123	Call-Attempt-Limit	no	no	no	no	no	no	no	no	no	no
124	Call-Block-Duration	no	no	no	no	no	no	no	no	no	no
125	Maximum-Call-Duration	no	no	no	no	no	no	no	no	no	no
126	Router-Preference	no	no	no	no	no	no	no	no	no	no
127	Tunneling-Protocol	no	no	no	no	no	no	no	no	no	no
128	Shared-Profile-Enable	no	no	no	no	no	no	no	no	yes	yes
129	Primary-Home-Agent	no	no	no	no	no	no	no	no	no	no
130	Secondary-Home-Agent	no	no	no	no	no	no	no	no	no	no
131	Dialout-Allowed	no	no	no	no	no	no	no	no	no	no
133	BACP-Enable	no	no	no	no	no	no	no	no	no	no
134	DHCP-Maximum-Leases	no	no	no	no	no	no	no	no	no	no
135	Primary-DNS-Server	no	no	no	no	yes	yes	yes	yes	yes	yes
136	Secondary-DNS-Server	no	no	no	no	yes	yes	yes	yes	yes	yes
137	Ascend-Client-Assign-DNS	no	no	no	no	no	no	no	no	yes	yes

**Table 73** Supported Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	11.1	11.2	11.3	11.3AA	11.3T	12.0	12.1	12.2	12.3	12.4
138	User-Acct-Type	no	no	no	no	no	no	no	no	no	no
139	User-Acct-Host	no	no	no	no	no	no	no	no	no	no
140	User-Acct-Port	no	no	no	no	no	no	no	no	no	no
141	User-Acct-Key	no	no	no	no	no	no	no	no	no	no
142	User-Acct-Base	no	no	no	no	no	no	no	no	no	no
143	User-Acct-Time	no	no	no	no	no	no	no	no	no	no
144	Assign-IP-Client	no	no	no	no	no	no	no	no	no	no
145	Assign-IP-Server	no	no	no	no	no	no	no	no	no	no
146	Assign-IP-Global-Pool	no	no	no	no	no	no	no	no	no	no
147	DHCP-Reply	no	no	no	no	no	no	no	no	no	no
148	DHCP-Pool-Number	no	no	no	no	no	no	no	no	no	no
149	Expect-Callback	no	no	no	no	no	no	no	no	no	no
150	Event-Type	no	no	no	no	no	no	no	no	no	no
151	Ascend-Session-Svr-Key	no	no	no	yes	no	no	yes	yes	yes	yes
152	Ascend-Multicast-Rate-Limit	no	no	no	yes	no	no	yes	yes	yes	yes
153	IF-Netmask	no	no	no	no	no	no	no	no	no	no
154	h323-Remote-Address	no	no	no	no	no	no	no	no	yes	yes
155	Ascend-Multicast-Client	no	no	no	yes	no	no	yes	yes	yes	yes
156	FR-Circuit-Name	no	no	no	no	no	no	no	no	no	no
157	FR-LinkUp	no	no	no	no	no	no	no	no	no	no
158	FR-Nailed-Grp	no	no	no	no	no	no	no	no	no	no
159	FR-Type	no	no	no	no	no	no	no	no	no	no
160	FR-Link-Mgt	no	no	no	no	no	no	no	no	no	no
161	FR-N391	no	no	no	no	no	no	no	no	no	no
162	FR-DCE-N392	no	no	no	no	no	no	no	no	no	no
163	FR-DTE-N392	no	no	no	no	no	no	no	no	no	no
164	FR-DCE-N393	no	no	no	no	no	no	no	no	no	no
165	FR-DTE-N393	no	no	no	no	no	no	no	no	no	no
166	FR-T391	no	no	no	no	no	no	no	no	no	no
167	FR-T392	no	no	no	no	no	no	no	no	no	no
168	Bridge-Address	no	no	no	no	no	no	no	no	no	no
169	TS-Idle-Limit	no	no	no	no	no	no	no	no	no	no
170	TS-Idle-Mode	no	no	no	no	no	no	no	no	no	no
171	DBA-Monitor	no	no	no	no	no	no	no	no	no	no
172	Base-Channel-Count	no	no	no	no	no	no	no	no	no	no
173	Minimum-Channels	no	no	no	no	no	no	no	no	no	no

**Table 73** Supported Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	11.1	11.2	11.3	11.3AA	11.3T	12.0	12.1	12.2	12.3	12.4
174	IPX-Route	no	no	no	no	no	no	no	no	no	no
175	FT1-Caller	no	no	no	no	no	no	no	no	no	no
176	Ipssec-Backup-Gateway	no	no	no	no	no	no	no	no	yes	yes
177	rm-Call-Type	no	no	no	no	no	no	no	no	yes	yes
178	Group	no	no	no	no	no	no	no	no	no	no
179	FR-DLCI	no	no	no	no	no	no	no	no	no	no
180	FR-Profile-Name	no	no	no	no	no	no	no	no	no	no
181	Ara-PW	no	no	no	no	no	no	no	no	no	no
182	IPX-Node-Addr	no	no	no	no	no	no	no	no	no	no
183	Home-Agent-IP-Addr	no	no	no	no	no	no	no	no	no	no
184	Home-Agent-Password	no	no	no	no	no	no	no	no	no	no
185	Home-Network-Name	no	no	no	no	no	no	no	no	no	no
186	Home-Agent-UDP-Port	no	no	no	no	no	no	no	no	no	no
187	Multilink-ID	no	no	no	yes	yes	yes	yes	yes	yes	yes
188	Ascend-Num-In-Multilink	no	no	no	yes	yes	yes	yes	yes	yes	yes
189	First-Dest	no	no	no	no	no	no	no	no	no	no
190	Pre-Input-Octets	no	no	no	yes	yes	yes	yes	yes	no	no
191	Pre-Output-Octets	no	no	no	yes	yes	yes	yes	yes	no	no
192	Pre-Input-Packets	no	no	no	yes	yes	yes	yes	yes	no	no
193	Pre-Output-Packets	no	no	no	yes	yes	yes	yes	yes	no	no
194	Maximum-Time	no	no	yes	yes	yes	yes	yes	yes	no	no
195	Disconnect-Cause	no	no	yes	yes	yes	yes	yes	yes	yes	yes
196	Connect-Progress	no	no	no	no	no	no	yes	yes	yes	yes
197	Data-Rate	no	no	no	no	yes	yes	yes	yes	yes	yes
198	PreSession-Time	no	no	no	yes	yes	yes	yes	yes	yes	yes
199	Token-Idle	no	no	no	no	no	no	no	no	yes	yes
201	Require-Auth	no	no	no	no	no	no	no	no	yes	yes
202	Number-Sessions	no	no	no	no	no	no	no	no	no	no
203	Authen-Alias	no	no	no	no	no	no	no	no	no	no
204	Token-Expiry	no	no	no	no	no	no	no	no	no	no
205	Menu-Selector	no	no	no	no	no	no	no	no	no	no
206	Menu-Item	no	no	no	no	no	no	no	no	no	no
207	PW-Warntime	no	no	no	no	no	no	no	no	no	no
208	PW-Lifetime	no	no	yes	yes	yes	yes	yes	yes	yes	yes
209	IP-Direct	no	no	no	no	yes	yes	yes	yes	yes	yes
210	PPP-VJ-Slot-Compression	no	no	yes	yes	yes	yes	yes	yes	yes	yes

**Table 73** Supported Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	11.1	11.2	11.3	11.3AA	11.3T	12.0	12.1	12.2	12.3	12.4
211	PPP-VJ-1172	no	no	no	no	no	no	no	no	no	no
212	PPP-Async-Map	no	no	no	no	no	no	no	no	no	no
213	Third-Prompt	no	no	no	no	no	no	no	no	no	no
214	Send-Secret	no	no	no	no	no	no	yes	yes	yes	yes
215	Receive-Secret	no	no	no	no	no	no	no	no	no	no
216	IPX-Peer-Mode	no	no	no	no	no	no	no	no	no	no
217	IP-Pool	no	no	yes	yes	yes	yes	yes	yes	yes	yes
218	Static-Addr-Pool	no	no	yes	yes	yes	yes	yes	yes	yes	yes
219	FR-Direct	no	no	no	no	no	no	no	no	no	no
220	FR-Direct-Profile	no	no	no	no	no	no	no	no	no	no
221	FR-Direct-DLCI	no	no	no	no	no	no	no	no	no	no
222	Handle-IPX	no	no	no	no	no	no	no	no	no	no
223	Netware-Timeout	no	no	no	no	no	no	no	no	no	no
224	IPX-Alias	no	no	no	no	no	no	no	no	no	no
225	Metric	no	no	no	no	no	no	no	no	no	no
226	PRI-Number-Type	no	no	no	no	no	no	no	no	no	no
227	Dial-Number	no	no	no	no	no	no	yes	yes	yes	yes
228	Route-IP	no	no	yes	yes	yes	yes	yes	yes	yes	yes
229	Route-IPX	no	no	no	no	no	no	no	no	no	no
230	Bridge	no	no	no	no	no	no	no	no	no	no
231	Send-Auth	no	no	no	no	no	no	yes	yes	yes	yes
232	Send-Passwd	no	no	no	no	no	no	no	no	no	no
233	Link-Compression	no	no	yes	yes	yes	yes	yes	yes	yes	yes
234	Target-Util	no	no	no	yes	no	yes	yes	yes	yes	yes
235	Maximum-Channels	no	no	yes	yes	yes	yes	yes	yes	yes	yes
236	Inc-Channel-Count	no	no	no	no	no	no	no	no	no	no
237	Dec-Channel-Count	no	no	no	no	no	no	no	no	no	no
238	Seconds-of-History	no	no	no	no	no	no	no	no	no	no
239	History-Weigh-Type	no	no	no	no	no	no	no	no	no	no
240	Add-Seconds	no	no	no	no	no	no	no	no	no	no
241	Remove-Seconds	no	no	no	no	no	no	no	no	no	no
242	Data-Filter	no	no	yes	yes	yes	yes	yes	yes	yes	yes
243	Call-Filter	no	no	no	no	no	no	no	no	yes	yes
244	Idle-Limit	no	no	yes	yes	yes	yes	yes	yes	yes	yes
245	Preempt-Limit	no	no	no	no	no	no	no	no	no	no
246	Callback	no	no	no	no	no	no	no	no	yes	yes

**Table 73** Supported Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	11.1	11.2	11.3	11.3AA	11.3T	12.0	12.1	12.2	12.3	12.4
247	Data-Service	no	no	no	no	no	no	yes	yes	yes	yes
248	Force-56	no	no	no	no	no	no	yes	yes	yes	yes
249	Billing Number	no	no	no	no	no	no	no	no	no	no
250	Call-By-Call	no	no	no	no	no	no	no	no	no	no
251	Transit-Number	no	no	no	no	no	no	no	no	no	no
252	Host-Info	no	no	no	no	no	no	no	no	no	no
253	PPP-Address	no	no	no	no	no	no	no	no	no	no
254	MPP-Idle-Percent	no	no	no	no	no	no	no	no	no	no
255	Xmit-Rate	no	no	no	yes	yes	yes	yes	yes	yes	yes

## Comprehensive List of Vendor-Proprietary RADIUS Attribute Descriptions

Table 74 lists and describes the known vendor-proprietary RADIUS attributes:

**Table 74** Vendor-Proprietary RADIUS Attributes

Number	Vendor-Proprietary Attribute	Description
17	Change-Password	Specifies a request to change the password of a user.
21	Password-Expiration	Specifies an expiration date for a user's password in the user's file entry.
68	Tunnel-ID	(Ascend 5) Specifies the string assigned by RADIUS for each session using CLID or DNIS tunneling. When accounting is implemented, this value is used for accounting.
108	My-Endpoint-Disc-Alias	(Ascend 5) No description available.
109	My-Name-Alias	(Ascend 5) No description available.
110	Remote-FW	(Ascend 5) No description available.
111	Multicast-GLeave-Delay	(Ascend 5) No description available.
112	CBCP-Enable	(Ascend 5) No description available.
113	CBCP-Mode	(Ascend 5) No description available.
114	CBCP-Delay	(Ascend 5) No description available.
115	CBCP-Trunk-Group	(Ascend 5) No description available.
116	Appletalk-Route	(Ascend 5) No description available.
117	Appletalk-Peer-Mode	(Ascend 5) No description available.
118	Route-Appletalk	(Ascend 5) No description available.
119	FCP-Parameter	(Ascend 5) No description available.
120	Modem-PortNo	(Ascend 5) No description available.
121	Modem-SlotNo	(Ascend 5) No description available.

**Table 74 Vendor-Proprietary RADIUS Attributes (continued)**

<b>Number</b>	<b>Vendor-Proprietary Attribute</b>	<b>Description</b>
122	Modem-ShelfNo	(Ascend 5) No description available.
123	Call-Attempt-Limit	(Ascend 5) No description available.
124	Call-Block-Duration	(Ascend 5) No description available.
125	Maximum-Call-Duration	(Ascend 5) No description available.
126	Router-Preference	(Ascend 5) No description available.
127	Tunneling-Protocol	(Ascend 5) No description available.
128	Shared-Profile-Enable	(Ascend 5) No description available.
129	Primary-Home-Agent	(Ascend 5) No description available.
130	Secondary-Home-Agent	(Ascend 5) No description available.
131	Dialout-Allowed	(Ascend 5) No description available.
133	BACP-Enable	(Ascend 5) No description available.
134	DHCP-Maximum-Leases	(Ascend 5) No description available.
135	Primary-DNS-Server	Identifies a primary DNS server that can be requested by Microsoft PPP clients from the network access server during IPCP negotiation.
136	Secondary-DNS-Server	Identifies a secondary DNS server that can be requested by Microsoft PPP clients from the network access server during IPCP negotiation.
137	Client-Assign-DNS	No description available.
138	User-Acct-Type	No description available.
139	User-Acct-Host	No description available.
140	User-Acct-Port	No description available.
141	User-Acct-Key	No description available.
142	User-Acct-Base	No description available.
143	User-Acct-Time	No description available.
144	Assign-IP-Client	No description available.
145	Assign-IP-Server	No description available.
146	Assign-IP-Global-Pool	No description available.
147	DHCP-Reply	No description available.
148	DHCP-Pool-Number	No description available.
149	Expect-Callback	No description available.
150	Event-Type	No description available.
151	Session-Svr-Key	No description available.
152	Multicast-Rate-Limit	No description available.
153	IF-Netmask	No description available.
154	Remote-Addr	No description available.
155	Multicast-Client	No description available.

**Table 74** Vendor-Proprietary RADIUS Attributes (continued)

<b>Number</b>	<b>Vendor-Proprietary Attribute</b>	<b>Description</b>
156	FR-Circuit-Name	No description available.
157	FR-LinkUp	No description available.
158	FR-Nailed-Grp	No description available.
159	FR-Type	No description available.
160	FR-Link-Mgt	No description available.
161	FR-N391	No description available.
162	FR-DCE-N392	No description available.
163	FR-DTE-N392	No description available.
164	FR-DCE-N393	No description available.
165	FR-DTE-N393	No description available.
166	FR-T391	No description available.
167	FR-T392	No description available.
168	Bridge-Address	No description available.
169	TS-Idle-Limit	No description available.
170	TS-Idle-Mode	No description available.
171	DBA-Monitor	No description available.
172	Base-Channel-Count	No description available.
173	Minimum-Channels	No description available.
174	IPX-Route	No description available.
175	FT1-Caller	No description available.
176	Backup	No description available.
177	Call-Type	No description available.
178	Group	No description available.
179	FR-DLCI	No description available.
180	FR-Profile-Name	No description available.
181	Ara-PW	No description available.
182	IPX-Node-Addr	No description available.
183	Home-Agent-IP-Addr	Indicates the home agent's IP address (in dotted decimal format) when using Ascend Tunnel Management Protocol (ATMP).
184	Home-Agent-Password	With ATMP, specifies the password that the foreign agent uses to authenticate itself.
185	Home-Network-Name	With ATMP, indicates the name of the connection profile to which the home agent sends all packets.
186	Home-Agent-UDP-Port	Indicates the UDP port number the foreign agent uses to send ATMP messages to the home agent.



**Table 74 Vendor-Proprietary RADIUS Attributes (continued)**

<b>Number</b>	<b>Vendor-Proprietary Attribute</b>	<b>Description</b>
187	Multilink-ID	Reports the identification number of the multilink bundle when the session closes. This attribute applies to sessions that are part of a multilink bundle. The Multilink-ID attribute is sent in authentication-response packets.
188	Num-In-Multilink	Reports the number of sessions remaining in a multilink bundle when the session reported in an accounting-stop packet closes. This attribute applies to sessions that are part of a multilink bundle. The Num-In-Multilink attribute is sent in authentication-response packets and in some accounting-request packets.
189	First-Dest	Records the destination IP address of the first packet received after authentication.
190	Pre-Input-Octets	Records the number of input octets before authentication. The Pre-Input-Octets attribute is sent in accounting-stop records.
191	Pre-Output-Octets	Records the number of output octets before authentication. The Pre-Output-Octets attribute is sent in accounting-stop records.
192	Pre-Input-Packets	Records the number of input packets before authentication. The Pre-Input-Packets attribute is sent in accounting-stop records.
193	Pre-Output-Packets	Records the number of output packets before authentication. The Pre-Output-Packets attribute is sent in accounting-stop records.
194	Maximum-Time	Specifies the maximum length of time (in seconds) allowed for any session. After the session reaches the time limit, its connection is dropped.
195	Disconnect-Cause	Specifies the reason a connection was taken offline. The Disconnect-Cause attribute is sent in accounting-stop records. This attribute also causes stop records to be generated without first generating start records if disconnection occurs before authentication is performed. For more information, refer to the table of <a href="#">Disconnect-Cause Attribute Values</a> and their meanings.
196	Connect-Progress	Indicates the connection state before the connection is disconnected.
197	Data-Rate	Specifies the average number of bits per second over the course of the connection's lifetime. The Data-Rate attribute is sent in accounting-stop records.
198	PreSession-Time	Specifies the length of time, in seconds, from when a call first connects to when it completes authentication. The PreSession-Time attribute is sent in accounting-stop records.
199	Token-Idle	Indicates the maximum amount of time (in minutes) a cached token can remain alive between authentications.
201	Require-Auth	Defines whether additional authentication is required for class that has been CLID authenticated.

Table 74 Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	Description
202	Number-Sessions	Specifies the number of active sessions (per class) reported to the RADIUS accounting server.
203	Authen-Alias	Defines the RADIUS server's login name during PPP authentication.
204	Token-Expiry	Defines the lifetime of a cached token.
205	Menu-Selector	Defines a string to be used to cue a user to input data.
206	Menu-Item	Specifies a single menu-item for a user-profile. Up to 20 menu items can be assigned per profile.
207	PW-Warntime	(Ascend 5) No description available.
208	PW-Lifetime	Enables you to specify on a per-user basis the number of days that a password is valid.
209	IP-Direct	<p>When you include this attribute in a user's file entry, a framed route is installed to the routing and bridging tables.</p> <p><b>Note</b> Packet routing is dependent upon the entire table, not just this newly installed entry. The inclusion of this attribute does not guarantee that all packets should be sent to the specified IP address; thus, this attribute is not fully supported.</p> <p>These attribute limitations occur because the Cisco router cannot bypass all internal routing and bridging tables and send packets to a specified IP address.</p>
210	PPP-VJ-Slot-Comp	Instructs the Cisco router not to use slot compression when sending VJ-compressed packets over a PPP link.
211	PPP-VJ-1172	Instructs PPP to use the 0x0037 value for VJ compression.
212	PPP-Async-Map	Gives the Cisco router the asynchronous control character map for the PPP session. The specified control characters are passed through the PPP link as data and used by applications running over the link.
213	Third-Prompt	Defines a third prompt (after username and password) for additional user input.
214	Send-Secret	Enables an encrypted password to be used in place of a regular password in outdial profiles.
215	Receive-Secret	Enables an encrypted password to be verified by the RADIUS server.
216	IPX-Peer-Mode	(Ascend 5) No description available.
217	IP-Pool-Definition	Defines a pool of addresses using the following format: X a.b.c Z; where X is the pool index number, a.b.c is the pool's starting IP address, and Z is the number of IP addresses in the pool. For example, 3 10.0.0.1 5 allocates 10.0.0.1 through 10.0.0.5 for dynamic assignment.
218	Assign-IP-Pool	Tells the router to assign the user and IP address from the IP pool.

**Table 74 Vendor-Proprietary RADIUS Attributes (continued)**

Number	Vendor-Proprietary Attribute	Description
219	FR-Direct	Defines whether the connection profile operates in Frame Relay redirect mode.
220	FR-Direct-Profile	Defines the name of the Frame Relay profile carrying this connection to the Frame Relay switch.
221	FR-Direct-DLCI	Indicates the DLCI carrying this connection to the Frame Relay switch.
222	Handle-IPX	Indicates how NCP watchdog requests will be handled.
223	Netware-Timeout	Defines, in minutes, how long the RADIUS server responds to NCP watchdog packets.
224	IPX-Alias	Allows you to define an alias for IPX routers requiring numbered interfaces.
225	Metric	No description available.
226	PRI-Number-Type	No description available.
227	Dial-Number	Defines the number to dial.
228	Route-IP	Indicates whether IP routing is allowed for the user's file entry.
229	Route-IPX	Allows you to enable IPX routing.
230	Bridge	No description available.
231	Send-Auth	Defines the protocol to use (PAP or CHAP) for username-password authentication following CLID authentication.
232	Send-Passwd	Enables the RADIUS server to specify the password that is sent to the remote end of a connection on outgoing calls.
233	Link-Compression	Defines whether to turn on or turn off "stac" compression over a PPP link.  Link compression is defined as a numeric value as follows: <ul style="list-style-type: none"> <li>• 0: None</li> <li>• 1: Stac</li> <li>• 2: Stac-Draft-9</li> <li>• 3: MS-Stac</li> </ul>
234	Target-Util	Specifies the load-threshold percentage value for bringing up an additional channel when PPP multilink is defined.
235	Maximum-Channels	Specifies allowed/allocatable maximum number of channels.
236	Inc-Channel-Count	No description available.
237	Dec-Channel-Count	No description available.
238	Seconds-of-History	No description available.
239	History-Weigh-Type	No description available.
240	Add-Seconds	No description available.
241	Remove-Seconds	No description available.

**Table 74** Vendor-Proprietary RADIUS Attributes (continued)

Number	Vendor-Proprietary Attribute	Description
242	Data-Filter	Defines per-user IP data filters. These filters are retrieved only when a call is placed using a RADIUS outgoing profile or answered using a RADIUS incoming profile. Filter entries are applied on a first-match basis; therefore, the order in which filter entries are entered is important.
243	Call-Filter	Defines per-user IP data filters. On a Cisco router, this attribute is identical to the Data-Filter attribute.
244	Idle-Limit	Specifies the maximum time (in seconds) that any session can be idle. When the session reaches the idle time limit, its connection is dropped.
245	Preempt-Limit	No description available.
246	Callback	Allows you to enable or disable callback.
247	Data-Svc	No description available.
248	Force-56	Determines whether the network access server uses only the 56 K portion of a channel, even when all 64 K appear to be available.
249	Billing Number	No description available.
250	Call-By-Call	No description available.
251	Transit-Number	No description available.
252	Host-Info	No description available.
253	PPP-Address	Indicates the IP address reported to the calling unit during PPP IPCP negotiations.
254	MPP-Idle-Percent	No description available.
255	Xmit-Rate	(Ascend 5) No description available.

For more information on vendor-proprietary RADIUS attributes, refer to the section “[Configuring Router for Vendor-Proprietary RADIUS Server Communication](#)” in the chapter “[Configuring RADIUS](#).”

# Feature Information for RADIUS Vendor-Proprietary Attributes

Table 75 lists the release history for this feature.

Not all commands may be available in your Cisco IOS software release. For release information about a specific command, see the command reference documentation.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS and Catalyst OS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



**Note**

Table 75 lists only the Cisco IOS software release that introduced support for a given feature in a given Cisco IOS software release train. Unless noted otherwise, subsequent releases of that Cisco IOS software release train also support that feature.

**Table 75** Feature Information for RADIUS Vendor-Proprietary Attributes

Feature Name	Releases	Feature Information
RADIUS Vendor-Proprietary Attributes	12.2(1)XE	The IETF draft standard for RADIUS specifies a method for communicating vendor-proprietary information between the network access server and the RADIUS server. However, some vendors have extended the RADIUS attribute set for specific applications. This document provides Cisco IOS support information for these vendor-proprietary RADIUS attributes.  In 12.2(1) XE, this feature was introduced.

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