# Oracle® Communications Billing and Revenue Management ECE RADIUS Gateway Protocol Implementation Conformance Statement





Oracle Communications Billing and Revenue Management ECE RADIUS Gateway Protocol Implementation Conformance Statement, Release 12.0

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# Contents

#### Preface

Audience	iv
Documentation Accessibility	iv
Accessing Oracle Communications Documentation	iv
RADIUS Protocol	
Section Compliance	1-1
Access-Request AVPs	1-5
Access-Accept AVPs	1-6
Access-Reject AVPs	1-7
Access-Challenge AVPs	1-7
RADIUS Accounting Protocol	
Section Compliance	2-1
Accounting-Request AVPs	2-2
Accounting-Response AVPs	2-3



#### **Preface**

This guide serves as a protocol implementation compliance statement (PICS) for Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE) Remote Authentication Dial In User Service (RADIUS) Gateway. Each chapter lists the supported messages and attribute-value pairs for the RADIUS authentication, authorization, and accounting protocols.

#### **Audience**

This guide is intended for system administrators, product integrators, and developers. Readers must be familiar with the following:

- Elastic Charging Engine
- RADIUS protocol
- RADIUS accounting protocol

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ECE documentation and additional Oracle documentation; such as Oracle Database documentation, is available from Oracle Help Center:

http://docs.oracle.com

Additional Oracle Communications documentation is available from the Oracle software delivery Website:

https://edelivery.oracle.com



1

#### **RADIUS Protocol**

This document describes how Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE) Remote Authentication Dial In User Service (RADIUS) Gateway maps the RADIUS access-control messages for the RADIUS protocol defined in RFC-2865 and RFC-2869.

See also "RADIUS Accounting Protocol".

#### **Section Compliance**

Table 1-1 lists the compliance information for the RADIUS protocol sections in RFC-2865.

Table 1-1 RFC-2865 Section Compliance

Section Number	Section	Status	Notes
1	Introduction	Not applicable	-
1.1	Specification of Requirements	Not applicable	-
1.2	Terminology	Not applicable	-
2	Operation	Partially supported	-
2.1	Challenge/Response	Supported	-
2.2	Interoperation with PAP and CHAP	Not supported	-
2.3	Proxy	Not applicable	-
2.4	Why UDP?	Not applicable	-
2.5	Retransmission Hints	Supported	-
2.6	Keep-Alives Considered Harmful	Supported	-
3	Packet Format	Supported -	
4	Packet Types	Supported -	
4.1	Access-Request	Supported -	
4.2	Access-Accept	Supported	-
4.3	Access-Reject	Supported	-
4.4	Access-Challenge	Supported	-
5	Attributes	Supported	-
5.1	User-Name	Supported	-
5.2	User-Password	Supported -	
5.3	CHAP-Password	Supported -	
5.4	NAS-IP-Address	Supported	-
5.5	NAS-Port	Supported	-



Table 1-1 (Cont.) RFC-2865 Section Compliance

Section	Section	Status	Notes
Number	Section	Status	Notes
5.6	Service-Type	Supported	-
5.7	Framed-Protocol	Supported	-
5.8	Framed-IP-Address	Supported	-
5.9	Framed-IP-Netmask	Supported	-
5.10	Framed-Routing	Supported	-
5.11	Filter-Id	Supported	-
5.12	Framed-MTU	Supported	-
5.13	Framed-Compression	Supported	-
5.14	Login-IP-Host	Supported	-
5.15	Login-Service	Supported	-
5.16	Login-TCP-Port	Supported	-
5.17	(unassigned)	Supported	-
5.18	Reply-Message	Supported	-
5.19	Callback-Number	Supported	-
5.20	Callback-Id	Supported	-
5.21	(unassigned)	Supported	-
5.22	Framed-Route	Supported	-
5.23	Framed-IPX-Network	Supported	-
5.24	State	Supported	-
5.25	Class	Supported	-
5.26	Vendor-Specific	Supported	-
5.27	Session-Timeout	Supported	-
5.28	Idle-Timeout	Supported	-
5.29	Termination-Action	Supported	-
5.30	Called-Station-Id	Supported	-
5.31	Calling-Station-Id	Supported	-
5.32	NAS-Identifier	Supported	-
5.33	Proxy-State	Supported	-
5.34	Login-LAT-Service	Supported	-
5.35	Login-LAT-Node	Supported	-
5.36	Login-LAT-Group	Supported	-
5.37	Framed-AppleTalk-Link	Supported	-
5.38	Framed-AppleTalk-Network	Supported	-
5.39	Framed-AppleTalk-Zone	Supported	-
5.40	CHAP-Challenge	Supported	-
5.41	NAS-Port-Type	Supported	-



Table 1-1 (Cont.) RFC-2865 Section Compliance

Section Number	Section	Status	Notes
5.42	Port-Limit	Supported	-
5.43	Login-LAT-Port	Supported	-
5.44	Table of Attributes	Supported	-
6	IANA Considerations	No requirement	-
6.1	Definition of Terms	No requirement	-
6.2	Recommended Registration Policies	No requirement	-
7	Examples	Supported	-
7.1	User Telnet to Specified Host	Supported	-
7.2	Framed User Authenticating with CHAP	Supported	-
7.3	User with Challenge-Response card	Not supported	-
8	Security Considerations	Not supported	-
9	Change Log	No requirement	-
10	References	No requirement	-
11	Acknowledgements	No requirement	-
12	Chair's Address	No requirement	-
13	Authors' Addresses	No requirement	-
14	Full Copyright Statement	No requirement	-

Table 1-2 lists the compliance information for the RADIUS protocol sections in RFC-2869.

Table 1-2 RFC-2869 Section Compliance

Section Number	Section	Status	Notes
1	Introduction	Not applicable	-
1.1	Specification of Requirements	Not applicable	-
1.2	Terminology	Not applicable	-
2	Operation	Partially supported	-
2.1	RADIUS support for Interim Accounting Updates	Not supported	-
2.2	RADIUS support for Apple Remote Access Protocol	Not supported	-
2.3	RADIUS Support for Extensible Authentication Protocol (EAP)	Supported	-
2.3.1	Protocol Overview	Supported	-
2.3.2	Retransmission	Supported	-
2.3.3	Fragmentation	Not supported	-
2.3.4	Examples	Supported	-



Table 1-2 (Cont.) RFC-2869 Section Compliance

Section Number	Section	Status	Notes
2.3.5	Alternative Uses	Supported	-
3	Packet Format	Supported	-
4	Packet Types	Supported	-
5	Attributes	Partially supported	-
5.1	Acct-Input-Gigawords	Not supported	-
5.2	Acct-Output-Gigawords	Not supported	-
5.3	Event-Timestamp	Not supported	-
5.4	ARAP-Password	Not supported	-
5.5	ARAP-Features	Not supported	-
5.6	ARAP-Zone-Access	Not supported	-
5.7	ARAP-Security	Not supported	-
5.8	ARAP-Security-Data	Not supported	-
5.9	Password-Retry	Not supported	-
5.10	Prompt	Not supported	-
5.11	Connect-Info	Not supported	-
5.12	Configuration-Token	Not supported	-
5.13	EAP-Message	Supported	-
5.14	Message-Authenticator	Supported	-
5.15	ARAP-Challenge-Response	Not supported	-
5.16	Acct-Interim-Interval	Not supported	-
5.17	NAS-Port-Id	Supported	-
5.18	Framed-Pool	Not supported	-
5.19	Table of Attributes	Not supported	-
6	IANA Considerations	No requirement	-
7	Security Considerations	Supported	-
7.1	Message-Authenticator Security	Supported	-
7.2	EAP Security	Supported	-
7.2.1	Separation of EAP server and PPP authenticator	Not supported -	
7.2.2	Connection hijacking	Not supported	-
7.2.3	Man in the middle attacks	Not supported	-
7.2.4	Multiple databases	Not supported	-
7.2.5	Negotiation attacks	Not supported	-
8	References	No requirement	-
9	Acknowledgements	No requirement	-
10	Chair's Address	No requirement	-



Table 1-2 (Cont.) RFC-2869 Section Compliance

Section Number	Section	Status	Notes
11	Authors' Addresses	No requirement	-
12	Full Copyright Statement	No requirement	-

# Access-Request AVPs

Table 1-3 lists the compliance information for Access-Request attribute-value pairs (AVPs).

Table 1-3 Access-Request AVPs

RADIUS AVP	Status	Notes
User-Name	Supported	-
User-Password	Supported	-
CHAP-Password	Supported	-
CHAP-Challenge	Supported	-
NAS-IP-Address	Supported	-
NAS-Port	Supported	-
NAS-Port-Type	Supported	-
NAS-Identifier	Supported	-
Service-Type	Supported	-
Framed-Protocol	Supported	-
Framed-IP-Address	Supported	-
Framed-IP-Netmask	Supported	-
Framed-MTU	Supported	-
Framed-Compression	Supported	-
Login-IP-Host	Supported	-
Callback-Number	Supported	-
Called-Station-Id	Supported	-
Calling-Station-Id	Supported	-
State	Supported	-
Proxy-State	Supported	-
Login-LAT-Service	Supported	-
Login-LAT-Node	Supported	-
Login-LAT-Group	Supported	-
Login-LAT-Port	Supported	-
Vendor-Specific	Supported	-
EAP-Message	Supported	-
	•	•



Table 1-3 (Cont.) Access-Request AVPs

RADIUS AVP	Status	Notes
Message-Authenticator	Supported	-

# Access-Accept AVPs

Table 1-4 lists the compliance information for Access-Accept AVPs.

Table 1-4 Access-Accept AVPs

RADIUS AVP User-Name Supported Service-Type Supported Framed-Protocol Supported Framed-Protocol Supported Framed-IP-Address Supported Framed-IP-Netmask Supported Framed-Routing Supported Framed-Routing Supported Framed-Protocol Supported Framed-Routing Framed-Protocol Framed-Routing Framed-Routing Framed-Route Supported Framed-IPX-Network Supported Framed-AppleTalk-Link Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Valve Supported Framed-MTU Supported Framed-MTU Supported Login-IP-Host Supported Login-TCP-Port Supported Callback-Number Supported Callsack-Number Supported Supported Class Supported Framed-Imported Supported Supported Supported Framed-Imported Supported Supported Supported Framed-Imported Supported Supported Supported Framed-Imported Supported Supported Framed-Imported Supported Framed-Imported Framed-			
Service-Type Supported - Framed-Protocol Supported - Framed-IP-Address Supported - Framed-IP-Netmask Supported - Framed-Routing Supported - Framed-Route Supported - Framed-IPX-Network Supported - Framed-AppleTalk-Link Supported - Framed-AppleTalk-Network Supported - Framed-AppleTalk-Network Supported - Framed-AppleTalk-Zone Supported - Filter-Id Supported - Framed-MTU Supported - Framed-Compression Supported - Login-IP-Host Supported - Login-TCP-Port Supported - Reply-Message Supported - Callback-Number Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Idle-Timeout Supported - Itemination-Action Supported - Item	RADIUS AVP	Status	Notes
Framed-Protocol Framed-IP-Address Supported Framed-IP-Netmask Supported Framed-Routing Supported Framed-Route Supported Framed-Route Supported Framed-IPX-Network Supported Framed-AppleTalk-Link Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Network Supported Framed-MTU Supported Framed-MTU Supported Framed-Compression Supported Login-IP-Host Supported Login-Service Supported Login-TCP-Port Supported Callback-Number Supported Callback-Id Supported Supported Class Supported Supported Class Supported Idle-Timeout Supported Framination-Action Supported Supported Supported Supported Supported Supported Supported Supported	User-Name	Supported	-
Framed-IP-Address Framed-IP-Netmask Supported Framed-Routing Supported Framed-Routing Supported Framed-Route Supported Framed-PX-Network Supported Framed-AppleTalk-Link Supported Framed-AppleTalk-Network Supported Framed-AppleTalk-Zone Supported Framed-MTU Supported Framed-Compression Supported Login-IP-Host Supported Login-TCP-Port Supported Callback-Number Supported Callback-Id Supported Supported Supported Supported Class Supported Supported Supported Supported Supported Class Supported Supported Supported Supported Supported Callback-Ind Supported Supported Supported Supported Supported Callback-Ind Supported Supported Supported Supported Supported Supported Supported Framed-Routing Supported	Service-Type	Supported	-
Framed-IP-Netmask  Framed-Routing  Framed-Route  Framed-Route  Framed-IPX-Network  Framed-AppleTalk-Link  Framed-AppleTalk-Network  Fitter-Id  Framed-Compression  Login-IP-Host  Login-Service  Login-TCP-Port  Reply-Message  Callback-Number  Callback-Id  Class  Session-Timeout  Idle-Timeout  Framed-Routing  Supported	Framed-Protocol	Supported	-
Framed-Routing  Framed-Route  Framed-Route  Framed-IPX-Network  Framed-AppleTalk-Link  Framed-AppleTalk-Network  Framed-AppleTalk-Zone  Frimed-AppleTalk-Zone  Fitter-Id  Framed-MTU  Framed-Compression  Login-IP-Host  Login-Service  Login-TCP-Port  Reply-Message  Callback-Id  Class  Supported  -  Supported  -  Callback-Id  Supported  -  Supported  -  Supported  -  Callback-Id  Supported  -  Callback-Id  Supported  -  Supported  -  Supported  -  Callback-Id  Supported  -  Supported  -  Supported  -  Callback-Id  Supported  -  Supported  -  Supported  -  Supported  -  Supported  -  Supported  -  Callback-Id  Supported  -  Suppo	Framed-IP-Address	Supported	-
Framed-Route Supported - Framed-IPX-Network Supported - Framed-AppleTalk-Link Supported - Framed-AppleTalk-Network Supported - Framed-AppleTalk-Zone Supported - Filter-Id Supported - Framed-MTU Supported - Framed-Compression Supported - Login-IP-Host Supported - Login-Service Supported - Login-TCP-Port Supported - Reply-Message Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Supported - Supported - Supported - Class Supported -	Framed-IP-Netmask	Supported	-
Framed-IPX-Network  Framed-AppleTalk-Link  Framed-AppleTalk-Network  Framed-AppleTalk-Zone  Fitter-Id  Framed-MTU  Framed-Compression  Login-IP-Host  Login-Service  Login-TCP-Port  Reply-Message  Callback-Number  Callback-Id  Class  Supported  Supported  Supported  Class  Supported  Supported  Supported  Supported  Supported  Class  Supported  Supported  Supported  Supported  Class  Supported  Supported  Supported  Supported  Callback-Id  Supported  Supported  Supported  Supported  Supported  Class  Supported  Supported  Supported  Supported  Supported  Class  Supported	Framed-Routing	Supported	-
Framed-AppleTalk-Link Framed-AppleTalk-Network Framed-AppleTalk-Zone Filter-Id Filter-Id Supported Framed-MTU Supported Framed-Compression Login-IP-Host Login-Service Supported Login-TCP-Port Reply-Message Supported Callback-Number Callback-Id Supported Supported Supported - Calss Supported - Class Supported - Supported - Supported - Supported - Class Supported -	Framed-Route	Supported	-
Framed-AppleTalk-Network Framed-AppleTalk-Zone Supported Filter-Id Supported Framed-MTU Supported Framed-Compression Supported Login-IP-Host Supported Login-Service Supported Fapply-Message Supported Callback-Number Supported Class Supported Supported Supported Framed-AppleTalk-Zone Supported Framed-AppleTalk-Zone Supported Framination-Action Supported Supported	Framed-IPX-Network	Supported	-
Framed-AppleTalk-Zone  Filter-Id  Supported  Framed-MTU  Supported  Framed-Compression  Login-IP-Host  Login-Service  Supported  Login-TCP-Port  Reply-Message  Supported  Callback-Number  Callback-Id  Supported  Supported  Supported  Supported  Class  Supported	Framed-AppleTalk-Link	Supported	-
Filter-Id Supported - Framed-MTU Supported - Framed-Compression Supported - Login-IP-Host Supported - Login-Service Supported - Login-TCP-Port Supported - Reply-Message Supported - Callback-Number Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Idle-Timeout Supported - State Supported -	Framed-AppleTalk-Network	Supported	-
Framed-MTU Supported - Framed-Compression Supported - Login-IP-Host Supported - Login-Service Supported - Login-TCP-Port Supported - Reply-Message Supported - Callback-Number Supported - Callback-Id Supported - Session-Timeout Supported - Session-Timeout Supported - Idle-Timeout Supported - State Supported - Supported - Supported - Supported - Supported - Supported -	Framed-AppleTalk-Zone	Supported	-
Framed-Compression  Login-IP-Host  Login-Service  Supported  Login-TCP-Port  Supported  Reply-Message  Supported  Callback-Number  Supported  Callback-Id  Supported  Supported  Supported  Class  Supported  Supported  Idle-Timeout  Supported	Filter-Id	Supported	-
Login-IP-Host Supported - Login-Service Supported - Login-TCP-Port Supported - Reply-Message Supported - Callback-Number Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Idle-Timeout Supported - State Supported -	Framed-MTU	Supported	-
Login-Service Supported -  Login-TCP-Port Supported -  Reply-Message Supported -  Callback-Number Supported -  Callback-Id Supported -  Class Supported -  Session-Timeout Supported -  Idle-Timeout Supported -  State Supported -	Framed-Compression	Supported	-
Login-TCP-Port Supported - Reply-Message Supported - Callback-Number Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Idle-Timeout Supported - State Supported -	Login-IP-Host	Supported	-
Reply-Message Supported -  Callback-Number Supported -  Callback-Id Supported -  Class Supported -  Session-Timeout Supported -  Idle-Timeout Supported -  Termination-Action Supported -  State Supported -	Login-Service	Supported	-
Callback-Number Supported - Callback-Id Supported - Class Supported - Session-Timeout Supported - Idle-Timeout Supported - Termination-Action Supported - State Supported -	Login-TCP-Port	Supported	-
Callback-Id Supported -  Class Supported -  Session-Timeout Supported -  Idle-Timeout Supported -  Termination-Action Supported -  State Supported -	Reply-Message	Supported	-
Class Supported - Session-Timeout Supported - Idle-Timeout Supported - Termination-Action Supported - State Supported -	Callback-Number	Supported	-
Session-Timeout Supported -  Idle-Timeout Supported -  Termination-Action Supported -  State Supported -	Callback-Id	Supported	-
Idle-Timeout Supported - Termination-Action Supported - State Supported -	Class	Supported	-
Termination-Action Supported - State Supported -	Session-Timeout	Supported	-
State Supported -	Idle-Timeout	Supported	-
	Termination-Action	Supported	-
Proxy-State Supported -	State	Supported	-
	Proxy-State	Supported	-
Login-LAT-Service Supported -	Login-LAT-Service	Supported	-
Login-LAT-Node Supported -	Login-LAT-Node	Supported	-
Login-LAT-Group Supported -	Login-LAT-Group	Supported	-



Table 1-4 (Cont.) Access-Accept AVPs

RADIUS AVP	Status	Notes
Login-LAT-Port	Supported	-
Port-Limit Port-Limit	Supported	-
Vendor-Specific	Supported	-
Acct-Session-Id	Supported	-
EAP-Message	Supported	-
Message-Authenticator	Supported	-

#### Access-Reject AVPs

Table 1-5 lists the compliance information for Access-Reject AVPs.

Table 1-5 Access-Reject AVPs

RADIUS AVP	Status	Notes
User-Name	Supported	-
Reply-Message	Supported	-
Class	Supported	-
Proxy-State	Supported	-
Vendor-Specific	Supported	-
Acct-Session-Id	Supported	-
EAP-Message	Supported	-
Message-Authenticator	Supported	-

#### Access-Challenge AVPs

Table 1-6 lists the compliance information for Access-Challenge AVPs.

Table 1-6 Access-Challenge AVPs

RADIUS AVP	Status	Notes
Reply-Message	Supported	-
Session-Timeout	Supported	-
Idle-Timeout	Supported	-
State	Supported	-
Proxy-State	Supported	-
Vendor-Specific	Supported	-
EAP-Message	Supported	-
Message-Authenticator	Supported	-



2

# **RADIUS Accounting Protocol**

This document describes how Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE) Remote Authentication Dial In User Service (RADIUS) Gateway maps the RADIUS accounting messages for the RADIUS protocol defined in RFC-2866.

See also "RADIUS Protocol".

#### **Section Compliance**

Table 2-1 lists the compliance information for the RADIUS Accounting protocol sections in RFC-2866.

Table 2-1 RFC-2866 Section Compliance

Section	Section	Status	Notes
Number			
1	Introduction	Not applicable	-
1.1	Specification of Requirement	Not applicable	-
1.2	Terminology	Not applicable	-
2	Operation	Supported	-
2.1	Proxy	Not supported	-
3	Packet Format	Supported	-
4	Packet Types	Supported	-
4.1	Accounting-Request	Supported	-
4.2	Accounting-Response	Supported	-
5	Attributes	Supported	-
5.1	Acct-Status-Type	Supported	-
5.2	Acct-Delay-Time	Supported	-
5.3	Acct-Input-Octets	Supported	-
5.4	Acct-Output-Octets	Supported	-
5.5	Acct-Session-Id	Supported	-
5.6	Acct-Authentic	Supported	-
5.7	Acct-Session-Time	Supported	-
5.8	Acct-Input-Packets	Supported	-
5.9	Acct-Output-Packets	Supported	-
5.10	Acct-Terminate-Cause	Supported	-
5.11	Acct-Multi-Session-Id	Supported	-
5.12	Acct-Link-Count	Supported	-



Table 2-1 (Cont.) RFC-2866 Section Compliance

Section Number	Section	Status	Notes
5.13	Table of Attributes	Supported	-
6	IANA Considerations	Supported	-
7	Security Considerations	Supported	-
8	Change Log	Not Applicable	-
9	References	No Requirement	-
10	Acknowledgements	No requirement	-

# Accounting-Request AVPs

Table 2-2 describes how ECE supports Accounting-Request attribute-value pairs (AVPs).

Table 2-2 Accounting-Request AVPs

RADIUS Accounting AVP	Status	Notes
User-Name	Supported	This is mandatory AVP.
NAS-IP-Address	Supported	This is mandatory AVP.
NAS-Identifier	Supported	This is mandatory AVP.
NAS-Port-Type	Supported	-
Class	Supported	-
Service-Type	Supported	-
Framed-Protocol	Supported	-
Framed-IP-Address	Supported	-
Framed-IP-Netmask	Supported	-
Framed-MTU	Supported	-
Framed-Compression	Supported	-
Login-IP-Host	Supported	-
Callback-Number	Supported	-
Called-Station-Id	Supported	-
Calling-Station-Id	Supported	-
Proxy-State	Supported	-
Login-LAT-Service	Supported	-
Login-LAT-Node	Supported	-
Login-LAT-Group	Supported	-
Login-LAT-Port	Supported	-
CHAP-Challenge	Supported	-
Acct-Status-Type	Supported	This is mandatory AVP.



Table 2-2 (Cont.) Accounting-Request AVPs

RADIUS Accounting AVP	Status	Notes
Acct-Delay-Time	Supported	-
Acct-Input-Octets	Supported	-
Acct-Output-Octets	Supported	-
Acct-Session-Id	Supported	This is mandatory AVP.
Acct-Authentic	Supported	-
Acct-Session-Time	Supported	-
Acct-Input-Packets	Supported	-
Acct-Output-Packets	Supported	-
Acct-Terminate-Cause	Supported	-
Acct-Multi-Session-Id	Supported	-
Acct-Link-Count	Supported	-
Vendor-Specific	Supported	-

# Accounting-Response AVPs

The Accounting-Response message does not contain any AVPs.

