

Oracle® Communications Network Charging and Control

Radius Control Agent User's Guide



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The Oracle logo, consisting of the word "ORACLE" in white, uppercase, sans-serif font, centered within a solid red square.

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Contents

About This Document	v
Document Conventions	vi
Chapter 1	
System Overview	1
Overview	1
What is the Radius Control Agent?	1
Chapter 2	
The Radius Control Agent Application	3
Overview	3
Accessing the RCA application	3
Chapter 3	
The RCA Configuration Screens	7
Overview	7
Billing Type Prefix	7
Release Message	10
Service Option	13
Service Option List	16
Service Option Entry	20
IP Address	23
Address List	28
Address List Entry	31
CLI Address List	34
Global Config	38
Using the Find Screens	42
Chapter 4	
Reloading the Configuration	45
Overview	45
Rescheduling the Configuration	45

About This Document

Scope

The scope of this document includes all functionality a user must know in order to effectively operate the Radius Control Agent application. It does not include detailed design of the service.

Audience

This guide is written primarily for Radius Control Agent administrators. However, the overview sections of the document are useful to anyone requiring an introduction.

Prerequisites

Although it is not a prerequisite to using this guide, familiarity with the target platform would be an advantage.

This manual describes system tasks that should only be carried out by suitably trained operators.

Related Documents

The following documents are related to this document:

- *NCC Radius Control Agent Technical Guide*

Document Conventions

Typographical Conventions

The following terms and typographical conventions are used in the Oracle Communications Network Charging and Control (NCC) documentation.

Formatting Convention	Type of Information
Special Bold	Items you must select, such as names of tabs. Names of database tables and fields.
<i>Italics</i>	Name of a document, chapter, topic or other publication. Emphasis within text.
Button	The name of a button to click or a key to press. Example: To close the window, either click Close , or press Esc .
Key+Key	Key combinations for which the user must press and hold down one key and then press another. Example: Ctrl+P or Alt+F4 .
Monospace	Examples of code or standard output.
Monospace Bold	Text that you must enter.
<i>variable</i>	Used to indicate variables or text that should be replaced with an actual value.
menu option > menu option >	Used to indicate the cascading menu option to be selected. Example: Operator Functions > Report Functions
hypertext link	Used to indicate a hypertext link.

Specialized terms and acronyms are defined in the glossary at the end of this guide.

System Overview

Overview

Introduction

This chapter provides a high-level overview of the application. It explains the basic functionality of the system and lists the main components.

It is not intended to advise on any specific Oracle Communications Network Charging and Control (NCC) network or service implications of the product.

In this Chapter

This chapter contains the following topics.

What is the Radius Control Agent? 1

What is the Radius Control Agent?

Introduction

The Radius Control Agent (RCA) is a SLEE interface that acts as the gateway between Radius and INAP, providing a seamless integration between prepaid PSDNs and applications such as ACS or Prepaid Charging. The connection to the Oracle SLC is through a CAMEL 2 interface.

RCA can also be configured to work between Cisco GGSN and Prepaid Charging by editing the **eserv.config** file and **sms.jnlp** files.

The following functionality is provided:

- Listening on specific ports for incoming Radius messages
- Sending Radius messages to predetermined ports
- Sending SLEE events to another SLEE application using a service key
- Constructing outgoing INAP messages
- Processing incoming INAP messages

Available features

Some of the features in RCA may be unavailable, depending on licensing and permissions.

The Radius Control Agent Application

Overview

Introduction

This chapter explains how to access the Radius Control Agent application and how to use the RCA screens.

In this chapter

This chapter contains the following topics.

Accessing the RCA application 3

Accessing the RCA application

Introduction

The Radius Control Agent (RCA) screens, accessed through the Service Management System screens, allow you to configure the RCA tables in the SMF database on the SMS. To begin configuring the RCA database, the SMS screens must first be configured and running.

This book is a test version of the RCA User's Guide, to check out the relocated Author-it database.

SMS main menu

Here is an example of the SMS main menu showing the RCA menu options.



Accessing the Radius Control Agent screen

Follow these steps to access the Radius Control Agent screen.

Step	Action
1	From the SMS main screen, select the Services > RCA Service > RADIUS Control Agent menu options. Result: You see the Radius Control Agent screen.

Radius Control Agent screen

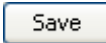
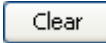
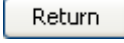
The Radius Control Agent screen lets you configure the RCA. Here is an example screen:

On-screen buttons

The RCA uses a set of buttons to start specific actions within each screen.

The table below describes the function of each button.

Button	Function
	Opens the Find window, enabling you to find records that match the search criteria.

Button	Function
	When you click Find in the Find screen, an Oracle Like% query is triggered that returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in the Query field, the system will return records such as 123, 1234, 12345.
	Creates a new record template on the current screen. Click Save to save the new record details to the database.
	Saves any changes to the record on the current screen to the database.
	Removes the selected record from the database.
	Clears all entries from the screen, enabling you to clear the screen before adding a new record.
	Opens context-sensitive Help containing information about the functionality available in the current screen.
	Returns you to the previous screen in the screen hierarchy. Note: Any changes that have been made on-screen will not be saved (unless Save has been clicked previously).

The RCA Configuration Screens

Overview

Introduction

This chapter explains how to configure the RCA on the SMS using the RCA screens.

To configure RCA in the the database the following items *must* be defined:

- *Global Config* (on page 38)

Optionally the following items may also be defined:

- *Billing Type Prefix* (on page 7)
- *Release Message* (on page 10)
- *Address List* (on page 28)
- *Service Option* (on page 13)

In this chapter

This chapter contains the following topics.

Billing Type Prefix.....	7
Release Message.....	10
Service Option.....	13
Service Option List.....	16
Service Option Entry.....	20
IP Address.....	23
Address List.....	28
Address List Entry.....	31
CLI Address List.....	34
Global Config.....	38
Using the Find Screens.....	42

Billing Type Prefix

Introduction

You use the **Billing Type Prefix** tab to configure different billing types (volume or duration) for particular CLI prefixes.

To maintain Billing Type Prefixes, see the relevant option:

- *Adding a billing type prefix* (on page 8)
- *Editing a billing type prefix* (on page 10)
- *Deleting a billing type prefix* (on page 10)

Billing Type Prefix tab

Here is an example **Billing Type Prefix** tab.

RCA Service - Radius Control Agent Screen - Find mode

Find New Save Delete Clear Help

Service Option Service Option List Service Option Entry Global Config

Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message

Prefix:

Billing Type:

Remark:

Last Change Data

Last User:

Last Date:

Order By:

Messages:

Adding a billing type prefix

Follow these steps to Add a new billing type prefix.

Step	Action
1	On the Billing Type Prefix tab in the Radius Control Agent Screen - Find mode, click New . Result: You see the tab in New mode.

Step	Action								
 Find New Save Delete Clear Help <table border="1"> <tr> <td>Service Option</td> <td>Service Option List</td> <td>Service Option Entry</td> <td>Global Config</td> </tr> <tr> <td>Billing Type Prefix</td> <td>CLI Address List</td> <td>Address List</td> <td>Release Message</td> </tr> </table> Prefix: Billing Type: Remark: Last Change Data Last User: Last Date: Return Messages:		Service Option	Service Option List	Service Option Entry	Global Config	Billing Type Prefix	CLI Address List	Address List	Release Message
Service Option	Service Option List	Service Option Entry	Global Config						
Billing Type Prefix	CLI Address List	Address List	Release Message						

- 2 In the **Prefix** field, enter the CLI prefix you want to assign a billing type to.
 - 3 From the **Billing Type** drop down box, select the billing type to use for billing calls that match the CLI prefix.
 - 4 In the **Remark** field, enter a comment if required.
 - 5 Click **Save**.
 - 6 Repeat steps 2 through 5 for all the required Billing Type Prefixes.
- Note:** When you click **Save**, the saved values remain on the screen. You can create another new record by typing over these values and clicking **Save** again.
- 7 Click **Return** to go back to the previous screen.

Editing a billing type prefix

Follow these steps to edit a billing type prefix.

Step	Action
1	In Find mode on the Billing Type Prefix tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a billing type prefix</i> (on page 8).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a billing type prefix

Follow these steps to delete an RCA billing type prefix.

Step	Action
1	In Find mode on the Billing Type Prefix tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Release Message

Introduction

The **Release Message** tab allows you to specify the RADIUS release message to send, corresponding to the release codes received from the IN, if the IN releases instead of connecting the call.

To maintain global configurations, see the relevant option:

- Adding a release message (on page 11)
- Editing a release message (on page 13)
- Deleting a release message (on page 13)

Release Message tab

Here is an example **Release Message** tab in Find mode.

RCA Service - Radius Control Agent Screen - Find mode

Find New Save Delete Clear Help

Service Option Service Option List Service Option Entry Global Config
Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message

Release Cause:

Name:

Message:

Remark:

Last Change Data

Last User:

Last Date:

Order By: Release Cause

Messages:

Adding a release message

Follow these steps to Add a new release message.

Step	Action
1	On the Release Message tab in the Radius Control Agent Screen - Find mode, click New . Result: You see the tab in New mode.

Step	Action
RCA Service - Radius Control Agent Screen - New mode Find New Save Delete Clear Help Service Option Billing Type Prefix Service Option List CLI Address List Service Option Entry Address List Global Config Release Message Release Cause: Name: Message: Remark: Last Change Data Last User: Last Date: Return Messages:	

- 2 In the **Release Cause** field, enter the code corresponding to the release cause from the destination application (either ACS or CCS).
 - 3 In the **Name** field, enter the name to assign to the release cause.
 - 4 In the **Message** field, enter the RADIUS release message to send when a call is disconnected with this release cause.
 - 5 In the **Remark** field, enter a comment if required.
 - 6 Click **Save**.
 - 7 Repeat steps 2 through 6 for all the required release messages.
- Note:** When you click **Save**, the saved values remain on the screen. You can create another new record by typing over these values and clicking **Save** again.
- 8 Click **Return** to go back to the previous screen.

Editing a release message

Follow these steps to edit an RCA release message.

Step	Action
1	In Find mode on the Release Message tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a release message</i> (on page 11).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a release message

Follow these steps to delete an RCA release message.

Step	Action
1	In Find mode on the Release Message tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Service Option

Introduction

The RCA Service Option tabs let you configure the available service options for a service provided by the PDSN.

Service Options must be defined in the following order:

Step	Action
1	Define the available service options on the Service Option tab. See <i>Adding a service option</i> (on page 15).
2	Create the service option list on the Service Option List tab. See <i>Adding a service option list</i> (on page 18).
3	On the Service Option Entry tab, assign the service options you have defined to the service option list. See <i>Adding a service option entry</i> (on page 22).

Maintaining service options

To maintain service option configurations, see the relevant option:

- *Adding a service option* (on page 15)
- *Editing a service option* (on page 16)
- *Deleting a service option* (on page 16)

Service Option tab

Here is an example of the **Service Option** tab.

The screenshot shows the 'RCA Service - Radius Control Agent Screen - Find mode' window. The menu bar includes 'Find', 'New', 'Save', 'Delete', 'Clear', and 'Help'. The tabs at the top are 'Billing Type Prefix', 'CLI Address List', 'Address List', 'Address List Entry', 'IP Address', and 'Release Message'. The 'Service Option' tab is active. The main area contains input fields for 'ID:', 'Name:', 'Remark:', 'Last Change Data', 'Last User:', 'Last Date:', and 'Order By:' (set to 'ID'). A 'Messages:' section is at the bottom.

Adding a service option

Follow these steps to Add a new service option.

Step	Action
1	On the Service Option tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

The screenshot shows the 'RCA Service - Radius Control Agent Screen - New mode' window. The 'Service Option' tab is selected. The form includes the following fields:

- ID:** A text input field.
- Name:** A text input field.
- Remark:** A text input field.
- Last Change Data:** A container for:
 - Last User:** A text input field.
 - Last Date:** A text input field.
- Return:** A button at the bottom right.
- Messages:** A section at the bottom of the window.

- 2 In the **ID** field, enter the ID corresponding to the PDSN ID for the service option. This is an integer which must be in the range 0-255.
- 3 In the **Name** field, enter the service option name. You may use up to 30 characters.
- 4 In the **Remark** field, enter any comments.
- 5 Click **Save**.
- 6 Repeat steps 2 through 5 for all the required service options.
Note: When you click **Save**, the saved values remain on the screen. You can create another new record by typing over these values and clicking **Save** again.
- 7 Click **Return** to go back to the previous screen.

Editing a service option

Follow these steps to edit a service option.

Step	Action
1	In Find mode on the Service Option tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a service option</i> (on page 15).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a service option

Follow these steps to delete a service option in the RCA.

Step	Action
1	In Find mode on the Service Option tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears:
5	Click Yes to confirm. Result: The record is removed from the database.
6	Click Return to return to the previous screen.

Service Option List

Introduction

The RCA Service Option tabs let you configure the available service options for a service provided by the PDSN.

Service Options must be defined in the following order:

Step	Action
1	Define the available service options on the Service Option tab. See <i>Adding a service option</i> (on page 15).
2	Create the service option list on the Service Option List tab. See <i>Adding a service option list</i> (on page 18).
3	On the Service Option Entry tab, assign the service options you have defined to the service option list. See <i>Adding a service option entry</i> (on page 22).

Maintaining service option lists

To maintain service option list configurations, see the relevant option:

- *Adding a service option list* (on page 18)
- *Editing a service option list* (on page 19)
- *Deleting a service option list* (on page 20)

Service Option List tab

Here is an example **Service Option List** tab.

RCA Service - Radius Control Agent Screen - Find mode

Find New Save Delete Clear Help

Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message

Service Option Service Option List Service Option Entry Global Config

Name:

Remark:

Last Change Data

Last User:

Last Date:

Order By: Name

Messages:

Adding a service option list

Follow these steps to Add a new Service Option List.

Step	Action
1	On the Service Option List tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

Step	Action
RCA Service - Radius Control Agent Screen - New mode Find New Save Delete Clear Help Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message Service Option Service Option List Service Option Entry Global Config Name: Remark: Last Change Data Last User: Last Date: Return Messages:	

- 2 In the **Name** field, enter the service option list name. This can be up to 30 characters long.
 - 3 In the **Remark** field, enter any comments.
 - 4 Click **Save**.
 - 5 Repeat steps 2 through 4 for all the required service option lists.
- Note:** When you click **Save**, the saved values remain on the screen. You can create another new record by typing over these values and clicking **Save** again.
- 6 Click **Return** to go back to the previous screen.

Editing a service option list

Follow these steps to edit a service option list name.

Step	Action
1	In Find mode on the Service Option List tab, enter selection criteria in one or more query fields.

Step	Action
	Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a service option list</i> (on page 18).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a service option list

Follow these steps to delete an RCA service option list.

Step	Action
1	In Find mode on the Service Option List tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Service Option Entry

Introduction

The RCA Service Option tabs let you configure the available service options for a service provided by the PDSN.

Service Options must be defined in the following order:

Step	Action
1	Define the available service options on the Service Option tab. See <i>Adding a service option</i> (on page 15).

Step	Action
2	Create the service option list on the Service Option List tab. See <i>Adding a service option list</i> (on page 18).
3	On the Service Option Entry tab, assign the service options you have defined to the service option list. See <i>Adding a service option entry</i> (on page 22).

Maintaining service option entry

To maintain service option entry configurations, see the relevant option:

- *Adding a service option entry* (on page 22)
- *Editing a service option entry* (on page 23)
- *Deleting a service option entry* (on page 23)

Service Option Entry tab

Here is an example of the **Service Option Entry** tab in find mode.

The screenshot shows the 'RCA Service - Radius Control Agent Screen - Find mode' window. The 'Find' button is highlighted. The 'Service Option Entry' tab is selected. The form contains the following fields:

- Option List:** A dropdown menu with '<Any>' selected.
- Option:** A dropdown menu with '<Any>' selected.
- Max Num Instances:** A text input field.
- Remark:** A text input field.
- Last Change Data:** A group box containing:
 - Last User:** A text input field.
 - Last Date:** A text input field.
- Order By:** A dropdown menu with 'Option List' selected.

At the bottom left, there is a 'Messages:' label.

Adding a service option entry

Follow these steps to Add a Service Option Entry to a Service Option List.

Step	Action
1	On the Service Option Entry tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

RCA Service - Radius Control Agent Screen - New mode

Find New Save Delete Clear Help

Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message
Service Option Service Option List Service Option Entry Global Config

Option List:

Option:

Max Num Instances:

Remark:

Last Change Data

Last User:

Last Date:

Return

Messages:

- 2 From the **Service Option List** drop down box, select the required service option list.
 - 3 From the **Service Option** drop down box, select the service option to include in the list.
 - 4 In the **Max Num Instances** enter the maximum number of simultaneous accesses to the service option, that the customer may have. This is an integer which must be in the range 0-255.
 - 5 Click **Save**.
 - 6 Repeat steps 2 through 5 for all the required service options.
- Note:** When you click **Save**, the saved values remain on the screen. You can create another new record by typing over these values and clicking **Save** again.
- 7 Click **Return** to go back to the previous screen.

Editing a service option entry

Follow these steps to Edit a Service Option Entry.

Step	Action
1	In Find mode on the Service Option Entry tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the grid on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a service option entry</i> (on page 22).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a service option entry

Follow these steps to delete an RCA Service Option Entry.

Step	Action
1	In Find mode on the Service option Entry tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

IP Address

Introduction

The address tabs in the RCA allow you to configure lists of IP addresses for remote billing purposes (see *X.S011 - 005 - C, cdma200 Wireless IP Network Standard: Accounting Services and 3GPP2 RADIUS VSAs*).

Note: It is the responsibility of the PDSN to perform the remote accounting, and not the RADIUS Control Agent.

Addresses in RCA need to be configured in the following order:

Step	Action
1	Define the IP addresses on the IP Address tab. See <i>Adding an IP address</i> (on page 25).
2	Define IP address lists on the Address List tab. See <i>Adding an address list</i> (on page 29).
3	Assign the IP addresses to an address list, on the Address List Entry tab. See <i>Adding an address list entry</i> (on page 33).
4	Assign the address lists to CLI prefixes on the CLI Address List tab. See <i>Adding a CLI address list</i> (on page 36).

Maintaining IP address

To maintain IP address configurations, see the relevant option:

- *Adding an IP address* (on page 25)
- *Editing an IP address* (on page 27)
- *Deleting an IP address* (on page 27)

IP Address tab

Here is an example **IP Address** tab in find mode.

The screenshot shows a window titled "RCA Service - Radius Control Agent Screen - Find mode". At the top, there is a toolbar with buttons: Find, New, Save, Delete, Clear, and Help. Below the toolbar is a tabbed interface with four tabs: Service Option, Service Option List, Service Option Entry, and Global Config. The "Service Option List" tab is active, and within it, the "IP Address" sub-tab is selected. The main area contains the following fields:

- Address Type: <Any> (dropdown menu)
- QUALIFIER: ☒
- IP Address:
- Mask or Prefix:
- Description:
- Remark:
- Last Change Data section:
 - Last User:
 - Last Date:
- Order By: IP Address (dropdown menu)

At the bottom left, there is a "Messages:" label.

Adding an IP address

Follow these steps to Add a new IP address.

Step	Action
1	On the IP Address tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

Step	Action								
 Find New Save Delete Clear Help <table border="1"> <tr> <td>Service Option</td> <td>Service Option List</td> <td>Service Option Entry</td> <td>Global Config</td> </tr> <tr> <td>Billing Type Prefix</td> <td>CLI Address List</td> <td>Address List</td> <td>Release Message</td> </tr> </table> Address Type: IPv4 QUALIFIER: ☐ IP Address: Mask or Prefix: Description: Remark: Last Change Data Last User: Last Date: Return Messages:		Service Option	Service Option List	Service Option Entry	Global Config	Billing Type Prefix	CLI Address List	Address List	Release Message
Service Option	Service Option List	Service Option Entry	Global Config						
Billing Type Prefix	CLI Address List	Address List	Release Message						

2 From the **Address Type** drop down list, select the address type.

3 Select the **Qualifier** check box if the IP address is exempt from billing.

Note: The exemption is subject to interpretation by the PDSN, and not the RADIUS Control Agent.

4 In the **IP Address** field, enter the IP address you want to add.

5 In the **Mask or Prefix** field, enter the mask or prefix for the IP address.

Note: This will depend on the Address Type. Enter a mask if the Address Type is IPv4, or a prefix if it is IPv6.

6 In the **Description** field enter a description for the IP address. This can be up to 50 characters long.

7 In the **Remark** field, enter a user comment if required.

8 Click **Save**.

9 Repeat steps 2 through 8 for all the required IP Addresses.

Note: When you click **Save**, the values from the previous entry remain on the screen. You can create another new record by typing over these values and clicking **Save** again.

Step	Action
10	Click Return to go back to the previous screen.

Editing an IP address

Follow these steps to edit an RCA IP address.

Step	Action
1	In Find mode on the IP Address tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding an IP address</i> (on page 25).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting an IP address

Follow these steps to delete an RCA IP address.

Step	Action
1	In Find mode on the IP Address tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Address List

Introduction

The address tabs in the RCA allow you to configure lists of IP addresses for remote billing purposes (see *X.S011 - 005 - C, cdma200 Wireless IP Network Standard: Accounting Services and 3GPP2 RADIUS VSAs*).

Note: It is the responsibility of the PDSN to perform the remote accounting, and not the RADIUS Control Agent.

Addresses in RCA need to be configured in the following order:

Step	Action
1	Define the IP addresses on the IP Address tab. See <i>Adding an IP address</i> (on page 25).
2	Define IP address lists on the Address List tab. See <i>Adding an address list</i> (on page 29).
3	Assign the IP addresses to an address list, on the Address List Entry tab. See <i>Adding an address list entry</i> (on page 33).
4	Assign the address lists to CLI prefixes on the CLI Address List tab. See <i>Adding a CLI address list</i> (on page 36).

Maintaining address list

To maintain address list configurations, see the relevant option:

- *Adding an address list* (on page 29)
- *Editing an address list* (on page 30)
- *Deleting an address list* (on page 31)

Address List tab

Here is an example **Address List** tab in Find mode.

The screenshot shows a web application window titled "RCA Service - Radius Control Agent Screen - Find mode". The window has a menu bar with buttons: Find, New, Save, Delete, Clear, and Help. Below the menu bar is a tabbed interface with four tabs: Service Option, Service Option List, Service Option Entry, and Global Config. The Service Option List tab is active, showing sub-tabs: Billing Type Prefix, CLI Address List, Address List, Address List Entry, IP Address, and Release Message. The Address List sub-tab is selected. The main area contains a "Name:" label followed by a text input field. Below this is a "Remark:" label followed by a text input field. Under the Remark field is a "Last Change Data" section containing "Last User:" and "Last Date:" labels, each followed by a text input field. At the bottom of this section is an "Order By:" label followed by a dropdown menu currently set to "Name". A "Messages:" label is located at the bottom left of the window.

Adding an address list

Follow these steps to Add a new address list.

Step	Action
1	On the Address List tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

Step	Action
RCA Service - Radius Control Agent Screen - New mode Find New Save Delete Clear Help Service Option Service Option List Service Option Entry Global Config Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message Name: Remark: Last Change Data Last User: Last Date: Return Messages:	

2 In the **Name** field, enter the name of the address list to add.

3 In the **Remark** field, enter a user comment if required.

4 Click **Save**.

5 Repeat steps 2 through 5 for all the required address lists.

Note: When you click **Save**, the values from the previous entry remain on the screen. You can create another new record by typing over these values and clicking **Save** again.

6 Click **Return** to go back to the previous screen.

Editing an address list

Follow these steps to edit an RCA address list.

Step	Action
1	In Find mode on the Address List tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find .

Step	Action
	Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select .
	Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding an address list</i> (on page 29).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting an address list

Follow these steps to delete an RCA address list.

Step	Action
1	In Find mode on the Address List tab, enter selection criteria in one or more query fields.
	Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find .
	Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete .
	Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Address List Entry

Introduction

The address tabs in the RCA allow you to configure lists of IP addresses for remote billing purposes (see *X.S011 - 005 - C, cdma200 Wireless IP Network Standard: Accounting Services and 3GPP2 RADIUS VSAs*).

Note: It is the responsibility of the PDSN to perform the remote accounting, and not the RADIUS Control Agent.

Addresses in RCA need to be configured in the following order:

Step	Action
1	Define the IP addresses on the IP Address tab. See <i>Adding an IP address</i> (on page 25).

Step	Action
2	Define IP address lists on the Address List tab. See <i>Adding an address list</i> (on page 29).
3	Assign the IP addresses to an address list, on the Address List Entry tab. See <i>Adding an address list entry</i> (on page 33).
4	Assign the address lists to CLI prefixes on the CLI Address List tab. See <i>Adding a CLI address list</i> (on page 36).

Maintaining address list entry

To maintain address list entry configurations, see the relevant option:

- *Adding an address list entry* (on page 33)
- *Editing an address list entry* (on page 34)
- *Deleting an address list entry* (on page 34)

Address List Entry tab

Here is an example **Address List Entry** tab in find mode.

RCA Service - Radius Control Agent Screen - Find mode

Find New Save Delete Clear Help

Service Option	Service Option List	Service Option Entry	Global Config
Billing Type Prefix	CLI Address List	Address List	Release Message

Address List:

IP Address:

Remark:

Last Change Data

Last User:

Last Date:

Order By:

Messages:

Adding an address list entry

Follow these steps to Add a new address list.

- | Step | Action |
|------|---|
| 1 | On the Address List Entry tab in the Radius Control Agent Screen in Find mode, click New .
Result: You see the tab in New mode. |

- 2 From the **Address List** drop down box, select the name of the address list to add an IP address to.
- 3 From the **IP Address** drop down box, select the IP address to add.
- 4 In the **Remark** field, enter a user comment if required.
- 5 Click **Save**.
- 6 Repeat steps 2 through 5 for all the required address lists.

Note: When you click **Save**, the values from the previous entry remain on the screen. You can create another new record by typing over these values and clicking **Save** again.

- 7 Click **Return** to go back to the previous screen.

Editing an address list entry

Follow these steps to edit an RCA address list entry.

Step	Action
1	In Find mode on the Address List Entry tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding an address list entry</i> (on page 33).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting an address list entry

Follow these steps to delete an RCA address list entry.

Step	Action
1	In Find mode on the Address List Entry tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

CLI Address List

Introduction

The address tabs in the RCA allow you to configure lists of IP addresses for remote billing purposes (see X.S011 - 005 - C, *cdma200 Wireless IP Network Standard: Accounting Services and 3GPP2 RADIUS VSAs*).

Note: It is the responsibility of the PDSN to perform the remote accounting, and not the RADIUS Control Agent.

Addresses in RCA need to be configured in the following order:

Step	Action
1	Define the IP addresses on the IP Address tab. See <i>Adding an IP address</i> (on page 25).
2	Define IP address lists on the Address List tab. See <i>Adding an address list</i> (on page 29).
3	Assign the IP addresses to an address list, on the Address List Entry tab. See <i>Adding an address list entry</i> (on page 33).
4	Assign the address lists to CLI prefixes on the CLI Address List tab. See <i>Adding a CLI address list</i> (on page 36).

Maintaining CLI address list

To maintain CLI address list configurations, see the relevant option:

- *Adding a CLI address list* (on page 36)
- *Editing a CLI address list* (on page 37)
- *Deleting a CLI address list* (on page 38)

CLI Address List tab

Here is an example **CLI Address List** tab in find mode.

The screenshot shows a window titled "RCA Service - Radius Control Agent Screen - Find mode". The window has a menu bar with "Find", "New", "Save", "Delete", "Clear", and "Help". Below the menu bar is a tabbed interface with four tabs: "Service Option", "Service Option List", "Service Option Entry", and "Global Config". The "Service Option List" tab is selected, and it contains sub-tabs: "Billing Type Prefix", "CLI Address List", "Address List", "Address List Entry", "IP Address", and "Release Message". The "CLI Address List" sub-tab is active. The main area of the window contains the following fields:

- Prefix:
- Address List:
- Remark:
- Last Change Data:
- Last User:
- Last Date:
- Order By:

At the bottom of the window is a "Messages:" label.

Adding a CLI address list

Follow these steps to add a new CLI address list.

Step	Action
1	On the CLI Address List tab in the Radius Control Agent Screen in Find mode, click New . Result: You see the tab in New mode.

Step	Action
RCA Service - Radius Control Agent Screen - New mode Find New Save Delete Clear Help Service Option Service Option List Service Option Entry Global Config Billing Type Prefix CLI Address List Address List Address List Entry IP Address Release Message Prefix: Address List: Remark: Last Change Data Last User: Last Date: Return Messages:	

- 2 In the **Prefix** field, enter the CLI prefix to assign an address list to.
- 3 From the **Address List** drop down box, select the address list.
- 4 In the **Remark** field, enter a user comment if required.
- 5 Click **Save**.
- 6 Repeat steps 2 through 5 for all the address lists to assign to a CLI.

Note: When you click **Save**, the values from the previous entry remain on the screen. You can create another new record by typing over these values and clicking **Save** again.

- 7 Click **Return** to go back to the previous screen.

Editing a CLI address list

Follow these steps to edit an RCA CLI address list.

Step	Action
1	In Find mode on the CLI Address List tab, enter selection criteria in one or more query fields.

Step	Action
	Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a CLI address list</i> (on page 36).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a CLI address list

Follow these steps to delete an RCA CLI address list.

Step	Action
1	In Find mode on the CLI Address List tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Global Config

Introduction

The **Global Config** tab allows you to specify the global default values for the RCA service.

To maintain global configurations, see the relevant option:

- *Adding a global configuration* (on page 39)
- *Editing a global configuration* (on page 41)
- *Deleting a global configuration* (on page 41)

Global Config tab

Here is the **Global Config** tab view, in find mode.

The screenshot shows the 'RCA Service - Radius Control Agent Screen - Find mode' window. At the top, there are buttons: Find, New, Save, Delete, Clear, and Help. Below these are tabs: Billing Type Prefix, CLI Address List, Address List, Address List Entry, IP Address, and Release Message. The 'Global Config' tab is selected. The form contains the following fields and controls:

- Name: [Text Field]
- Service Option List: [Dropdown Menu, currently showing '<Any>']
- Max Service Instances: [Text Field]
- Session Timeout: [Text Field]
- Idle Timeout: [Text Field]
- Billing Type: [Dropdown Menu, currently showing '<Any>']
- Write UDR: [Checked Checkbox]
- Release: [Dropdown Menu, currently showing '<Any>']
- Internal Error: [Text Area]
- Max Volume Quota: [Text Field]
- Max Duration Quota: [Text Field]
- Shared Secret: [Text Field]
- Remark: [Text Field]
- Last Change Data: [Text Field]
- Last User: [Text Field]
- Last Date: [Text Field]
- Order By: [Dropdown Menu, currently showing 'Name']

The Windows taskbar at the bottom shows several open applications: Micro..., Re: [Fwd: R..., Re: RCA - I..., 2 AuthorIT, Images, Acrobat Re..., 4 Interne..., and Jasc.

Adding a global configuration

Follow these steps to add a new global configuration for the RCA.

Step	Action
1	On the Global Config tab in the Radius Control Agent Screen in Find mode, click New . Result: The Global Config tab redisplayes in New mode.
2	In the Name field, enter the name for the global configuration. Note: This name corresponds to the <code>ConfigName</code> parameter in the <code>eserv.config</code> file. This tells the Radius Gateway which database configuration to load at startup.
3	From the Service Option List drop down box, select the service option list. This will have been previously defined on the Service Option List tab.

Step	Action
	Note: This is intended for volume-based billing; for duration-based billing leave blank or none.
4	In the Max Service Instances field, enter the maximum number of external services that can be accessed at one time. Note: This is related to service options; for duration-based billing leave blank.
5	In the Session Timeout field, enter the maximum length of time for a session before it is disconnected (regardless of the activity of the session). Note: Leave blank or 0 for no timeout.
6	In the Idle Timeout field, enter the length of time the session can be inactive before it is disconnected. To ensure that calls can be billed correctly, you must enter a value for Idle Timeout that is: • Greater than zero (0). If you set Idle Timeout to zero or leave this field blank, the timer is disabled. • Greater than the largest reservation chunk that will be returned by the billing engine. This will prevent the RCA from timing out sessions that are still active. • Less than the billing engine timeout value that is set in the Session Timeout field; if the billing engine times out first, it will release the reservation, so the call will not be billed. Note: When the idle timer expires, RCA sends an ApplyChargingReport to ACS, signaling that the call has ended, and billing for the call.
7	From the Billing Type drop down list, select the default billing type for incoming calls. Select one of: • Duration • Volume • None Note: If you select None , then you must select a value in the Release field. If the CLI for an incoming call does not match any prefix configured in the Billing Type Prefix tab then the incoming call is released using the release code configured here.
8	Select the Write UDR check box if you want to write usage data records. Note: This should be left unselected, Oracle applications write EDRs generated by Prepaid Charging.
9	In the Internal Error field, enter the RADIUS error message to send for any errors occurring that are not related to releasing the call.
10	In the Max Volume Quota field, enter the maximum amount of data (in octets) that can be used. Note: This is used for volume-based billing; for duration-based billing leave blank or 0.
11	In the Max Duration Quota field, enter the maximum length of time (in seconds) that the user can be connected when no billing is being performed. For example, if RCA receives a Connect/Continue from the IN without an ApplyCharging. Note: This is used for duration-based billing; for volume-based billing leave blank or 0.
12	In the Shared Secret field, enter the key used for encryption/decryption between RCA and the RADIUS client.
13	In the Remark field, enter a user comment if required.

Step	Action
14	Click Save .
15	Repeat steps 2 through 14 for all global configuration records to define. Note: When you click Save , the values from the previous entry remain on the screen. You can then create another new record by typing over these values.
16	Click Return to go back to the previous screen.

Editing a global configuration

Follow these steps to edit an RCA global configuration.

Step	Action
1	In Find mode on the Global Config tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to edit.
4	Click Select . Result: The selected record appears in Update mode on the tab.
5	Edit the details as described in <i>Adding a global configuration</i> (on page 39).
6	Click Save , and then Return , to save your changes and return to the previous screen.

Deleting a global configuration

Follow these steps to delete an RCA global configuration.

Step	Action
1	In Find mode on the Global Config tab, enter selection criteria in one or more query fields. Note: If a field is left empty, then the search will retrieve all instances of that field.
2	Click Find . Result: The query returns the first 100 records that begin with the selection criteria. For example, if you enter 123 in a query field, the system will return records such as 123, 1234, 12345. The results appear in the table on the Find result mode screen for the type of record you are querying. See <i>Using the Find Screens</i> (on page 42).
3	Click on the record to delete.
4	Click Delete . Result: The Confirm Delete Record screen appears.
5	Click Yes to confirm.
6	Click Return to return to the previous screen.

Using the Find Screens

Introduction

A find screen enables you to find records that match the selection criteria. All RCA find screens contain the following:

- Buttons
- Query fields

Example RCA find screen

Here is an example find screen. This is always the mode used when opening a tab.

The screenshot shows a software window titled "RCA Service - Radius Control Agent Screen - Find mode". At the top is a menu bar with buttons: Find, New, Save, Delete, Clear, and Help. Below this is a tabbed interface with tabs: Billing Type Prefix, CLI Address List, Address List, Address List Entry, IP Address, and Release Message. The "CLI Address List" tab is active, showing a sub-tab "Service Option List". The main area contains several query fields: "ID:" with a text box, "Name:" with a text box, "Remark:" with a text box, "Last Change Data:" with a text box, "Last User:" with a text box, "Last Date:" with a text box, and "Order By:" with a dropdown menu currently set to "ID". At the bottom left, there is a "Messages:" label.

You see the available query fields in the screen, and the screen title indicates that you are in Find mode.

Example Find result mode screen

Here is an example Find results mode screen. This screen is shown after **Find** has been clicked and there are two or more records found. A single record automatically goes to the tab Update mode screen.

Note: The first 100 records matching the selection criteria in the database are listed, displayed in no particular order. If the required record is not found, add more search criteria to conduct a more specific search.

ID	Name	Remark	Last Used
1	Option 1		SU
2	Option 2		SU
3	Option 3		SU

Messages: Displaying page 1 of 1 pages: 3 records found that matched your query

Find result mode buttons

The table below describes the function of each button displayed at the bottom of the RADIUS Control Agent Screens in Find result mode.

Button	Function
Previous	Goes back to the previous set of records in the table, if you have used the Next button to display more records.
Next	Displays the next set of records, if all the Find results cannot be displayed in the table at one time.
Select	Selects the record highlighted in the table and displays it on the tab in Update mode.
Modify All	Modifies a group of records.
Delete All	Deletes a group of records.

Button	Function
Export	Exports the Find results to a file.
Print	Prints the Find results.
Return	Returns you to the RADIUS Control Agent Screen in Find mode for the tab.

Reloading the Configuration

Overview

Introduction

This chapter explains how to reload the RCA configuration. This lets you apply any changes you have made, either through the RCA configuration screens or in the **eserv.config** file, straight away.

In this chapter

This chapter contains the following topics.

Rescheduling the Configuration 45

Rescheduling the Configuration

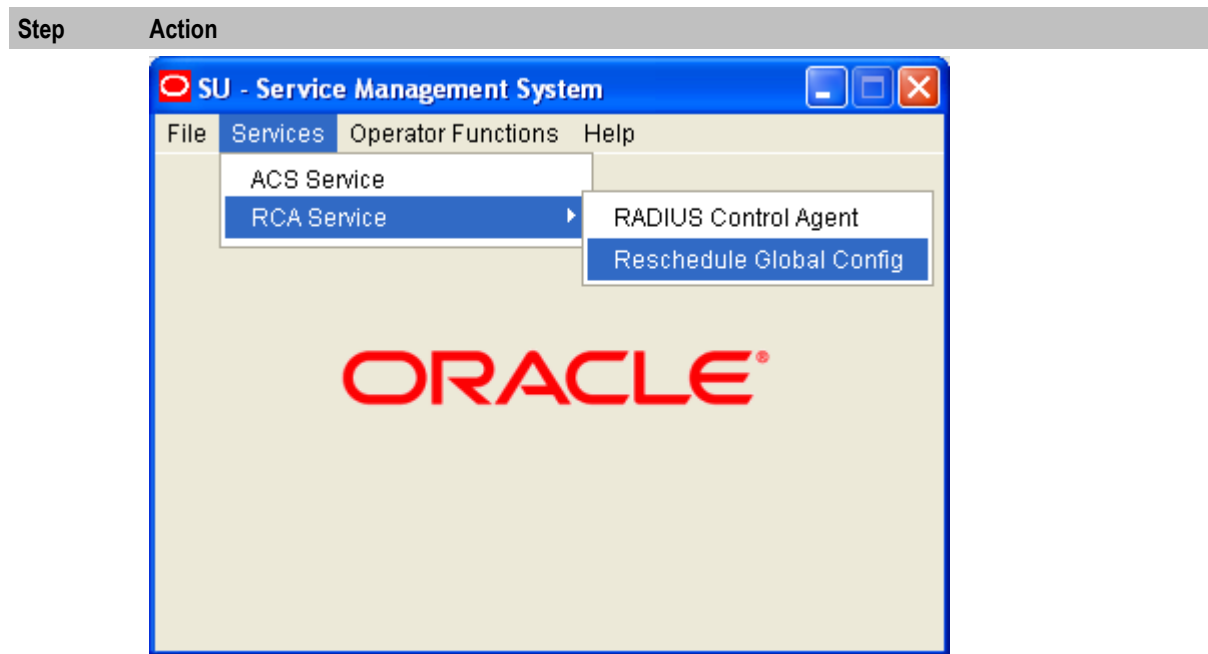
Introduction

The RCA configuration is loaded at startup. If you make any changes to the configuration, either through the screens or in the **eserv.config** file, you can reload the configuration using the Reschedule Global Config facility. This lets you apply any changes to the configuration straight away.

Accessing the Reschedule Global Config screen

Follow these steps to access the Reschedule Global Config screen.

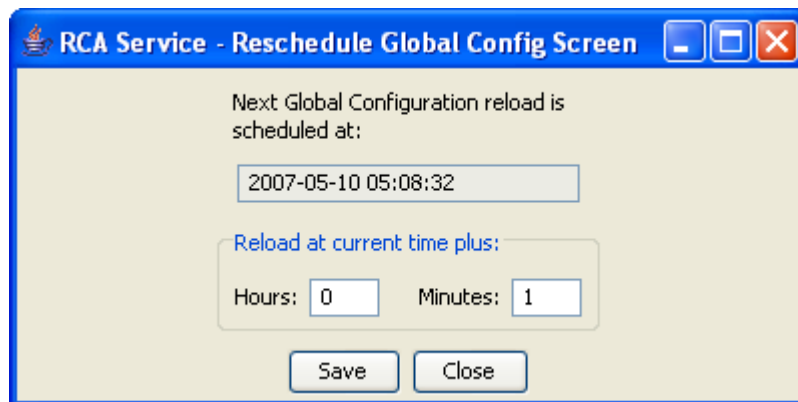
Step	Action
1	From the SMS main screen, select the Services > RCA Service > Reschedule Global Config menu options.



Result: You see the Reschedule Global Config screen.

The Reschedule Global Config screen

Here is an example of the RCA Service - Reschedule Global Config screen.



Reschedule Global Config screen fields

This table describes the function of each field.

Field	Description
Next Global Configuration reload is scheduled at	This field is populated when you request a global configuration reload. The next scheduled time is calculated as the current time with the Hours and Minutes you specify added on.
Hours	The number of hours to add to the current time to create the new schedule time for the global configuration reload.
Minutes	The number of minutes to add to the current time to create the new schedule time for the global configuration reload.

Setting the reschedule time

Follow these steps to set the time to reload the RCA configuration.

Step	Action
1	In the Hours field in the Reschedule Global Config screen, specify the number of hours after the current system time to wait before reloading the RCA configuration.
2	In the Minutes field in the Reschedule Global Config screen, specify the number of minutes to continue waiting before reloading the RCA configuration.
3	Click Save . Result: The RCA configuration is reloaded with the latest parameter values once the specified time has elapsed.