Oracle® Communications Convergent Charging Controller
Short Message Charging Bundle Help

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Contents

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SMCB Service

This chapter explains the how to use the SMCB Service screen.

This chapter contains the following topics.

CCS SMCB Service Screen

The Short Message Charging Bundle service provides an SMS screen to allow you to configure billing rates and rules. This defines the charging mechanism and cost for sending a short message.

There are three rule types:

* Named Event
* Tariffed
* Free

Searching for records

Follow these steps to search for records on the tabs of the CCS SMCB Service screen.

1. Within the search fields at the top of the tab, enter all or part of the content you are searching for.

   Note: Leaving all fields blank will return all records.

2. Click **Search**.

Rating Rules

You create rating rules on the **Rating Rules** tab in the CCS SMCB Services screen. They can be prioritized to provide a given behavior, such as charging for short codes differently to PSTN numbers that start with the same digits.

Lower priority (0..1) entries are processed before higher priority entries (2+).

Rating Rules tab search fields

This table describes the fields on the **Rating Rules** tab available for searching records.

Field	Description
Name	The name of the rating rule to search for. Restricted to 20 characters in length.
Priority	The priority given to this rule, from 0 (most preferred) to 99999 (least preferred).
Source	The source regular expression to search for. Restricted to 64 characters.
Destination	The destination regular expression to search for. Restricted to 64 characters.
Text Content	The text to search for. Restricted to 64 characters.

For more information, see Searching for records.

Regular expressions

The following is an explanation of regular expressions and their use.

Regular expressions can contain anchors ('^' and '$'), groups ('[ ]') and wild cards ('*'):

- '^' anchors the expression to the start of the string
- '$' anchors the expression to the end of the string
- '[ ]' groups characters into a class, for example [0-9] means any number
- '*' repeats the previous character class zero or more times, such as '[0-9]*'

Examples

This table shows some example expressions.

Expression	Description
^1234$	Will match the exact string 1234.
^1234	Will match any string beginning with 1234.
1234$	Will match any string that ends with 1234.
^[0-9]*1234$	Will match a string that begins with zero or more numbers (0-9) and ends with 1234.
1234[0-9][0-9]*	Will match a string that contains the substring 1234 and then 1 or more numbers (0-9).

Creating rating rules

Follow these steps to set up an SMCB rating rule.

1. On the **Rating Rules** tab, click **New**.

   Result: You see the Create SMCB Rating Rule screen.

2. Fill in the fields, as described in Rating rules fields.

3. Click **Save**.

Related topic

Rating Rules

Rating rules fields

This table describes the function of each field.

Field	Description
Name	The name given to this rating rule. Restricted to 20 characters.
Priority	The priority given to this rule, from 0 (most preferred) to 99999 (least preferred).
	If the source, destination and (optionally) content regular expressions from two rules *both* match a given short message, the priority will be used to determine which rule is used.
	If the two rules have the same priority, the rules will be ordered alphabetically by rule name.
Source Regex	The regular expression that is applied to the source number to determine if the rule matches.
	Restricted to 64 characters. This field will be verified when the **Save** button is selected, (see Regular expressions).
Destination Regex	The regular expression that is applied to the destination number to see if the rule matches.
	Restricted to 64 characters. This field will be verified when the **Save** button is selected, (see Regular expressions).
Content Regex	The text against which messages are matched. This rule is optional. It is applied after the other rules have been applied.
	Restricted to 200 characters.
Ignore Text Case	Defines whether or not to ignore the case of the message text when matching it against the text in the **Content Regex** field.
Rating Type	The type of the rating the will be applied to the call if the rule matches. Lists all the currently defined rating type names. This shows the name of the rating types on the **Rating Types** tab.
No Funds Reply	The text that is returned to the user if there are insufficient funds to bill this call.
	Restricted to 160 characters.
Comment	A free form text field allowing you to enter comments. This field is not used for any processing, but is present to allow you to save extra information if needed.
	Restricted to 100 characters.

Editing rating rules

Follow these steps to edit an SMCB rating rule.

1. On the **Rating Rules** tab, from the table, select the rule to edit.

2. Click **Edit**.

> **Result:** You see the Edit SMCB Rating Rule screen.

3. Make changes to the fields, as described in Rating rules fields.

4. Click **Save**.

Deleting rating rules

Follow these steps to delete an SMCB rating rule.

1. On the **Rating Rules** tab, from the table, select the rule to delete.

2. Click **Delete**.

    Result: You see a Confirm Deletion dialog box.

3. Click **OK**.

Related topic

Rating Rules

Rating Types

The **Rating Types** tab lists the SMCB rating types that have been defined for use in the rating rules. You can add new rating types to the list, edit, or delete existing ones.

Rating Types tab search fields

This table describes the fields on the **Rating Types** tab available for searching records.

Field	Description
Name	The name of the rating type to be found. Restricted to 20 characters.
Rating Type	The type of the rating to be search for. The drop down list is set to: • Any • Tariff • Free • Named Event

For more information, see Searching for records.

Creating rating types

Follow these steps to create an SMCB rating type.

1. On the **Rating Types** tab, click **New**.

    Result: You see the Create SMCB Rating Type screen.

2. Fill in the fields, as described in Rating types fields.

3. Click **Save**.

Related topic

Rating types fields

This table describes the function of each field.

Field	Description
Name	The name of this rating type. Restricted to 20 characters.
Rating Type	The type of the rating type. The available types are: • Free • Named Event • Tariff
Calling Number Prefix	The calling number prefix that is applied before sending the information to the billing engine (only enabled with type is `Tariff`). Restricted to 10 hexadecimal digits (0-9,A-F).
Named Event Class	The named event class that is billed (only enabled with type is `Named Event`). Restricted to currently defined event classes in the database.
Named Event Name	The named event name that is billed (only enabled with type is `Named Event`). Restricted to currently defined event names in the database.

Editing rating types

Follow these steps to edit an SMCB Rating Type.

1. On the **Rating Types** tab, from the table, select the type to edit.
2. Click **Edit**.

   Result: You see the Edit SMCB Rating Type screen.
3. Make changes to the fields, as described in Rating types fields.
4. Click **Save**.

Deleting rating types

Follow these steps to delete an SMCB rating type.

1. On the **Rating Types** tab, from the table, select the type to delete.

2. Click **Delete**.

   Result: You see a Confirm Deletion dialog box.

3. Click **OK**.

Related topic

Rating Types

2

SMCB Feature Node

This chapter describes the Oracle Communications Convergent Charging Controller SMCB Macro feature node available from the SMCB palette group in the ACS Control Plan Editor.

This chapter contains the following topics.

Short Message Charging

This node provides the charging mechanism in an ACS service plan where ever it is required.

This allows a flexible approach to call logic and functionality.

For example, a CCS Friends and Family feature node could be used before the Short Message Charging feature node to provide a discount for sending short messages to friends and family numbers.

Node exits

This node has one entry and eight exits. The number of exits cannot be changed.

Exit	Cause	Description
1	Confirm Res Success	Confirm reservation success (debitUnitRes)
2	Revoke Res Success	Reservation revoked success (releaseRes)
3	No Rating Rule	No rating rule found (no billing at all)
4	Initial Res Failure	SMS forward denied (reserveUnitErr)
5	Confirm Res Failure	Confirm reservation failure (debitUnitErr)
6	Revoke Res Failure	Reservation revoked failure (not sure this is possible in MOX)
7	General Failure	An error occurred. Can be anything, for example: • Failure to communicate with the billing engine • Actions not supported for this service domain (failure to talk to the billing engine or actions not supported for this service domain)
8	Free SMS	Free Short Message (no billing at all)

Configuring the node

This node requires no configuration data. You may change the **Node name**, if required.