9 Managing RCs

About This Chapter

This function is performed to set the RC attributes and the RC extended attributes to lock or unlock an RC, to reset an RC, and to perform automatic power control function.

9.1 Managing RC Attributes

This function is performed to view and set the ARFCN (frequency number of the current RC).

Prerequisite

You have logged in to the BTS through the Site Maintenance Terminal.

Context

Table 9-1 lists the description of the parameter configuration.

Table 9-1 Parameters in the RC Attributes Management dialog box

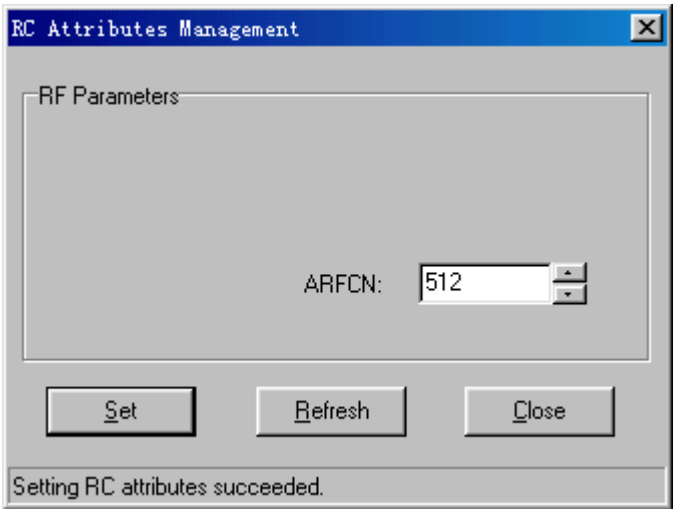
Parameter Name	Meaning	Value Range
ARFCN	Determines the frequency number of the RC	• 850 MHz: 124 frequencies numbered from 128 to 251 • 900 MHz: 193 frequencies numbered from 1 to 124 and 955 to 1023 • 1800 MHz: 374 frequencies numbered from 512 to 885 • 1900 MHz: 299 frequencies numbered from 512 to 810

Procedure

Step 1 In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of window, double-click **RC Attributes Management**.

The **RC Attributes Management** dialog box is displayed, as shown in Figure 9-1.

Figure 9-1 RC attributes management



Step 2 Enter a value in **ARFCN**.

NOTE

The parameters displayed on the terminal are the activated parameters on the BTS. You can adjust their values.

Step 3 Click **Set**.

The RC attributes are set successfully. The result is displayed on the status bar in the **RC Attributes Management** dialog box,

Step 4 Click **Refresh**.

The RC attributes are set successfully. The result is displayed on the status bar in the **RC Attributes Management** dialog box, as shown in **Figure 9-1**.

NOTE

The configure operation enables the site maintenance terminal to activate the parameters on the BTS. The refresh operation enables the site maintenance terminal to obtain the latest data from the BTS. You can perform the refresh operation to confirm the accuracy of data.

----End

9.2 Managing RC Extended Attributes

This function is performed to view or set the extended RC attribute parameters, including static power level, saturation threshold, saturation voltage threshold, and power mode.

Prerequisite

You have logged in to the BTS through the Site Maintenance Terminal.

Context

Table 9-2 lists the description of the parameter configuration.

Table 9-2 Parameters in the RC Extended Attribute Management dialog box

Parameter Name	Meaning	Value Range
Static power level	Based on the local network coverage, you can change the static power level to change the power and the coverage.	0 ～ 10
Saturation Threshold	This parameter determines whether the random access is the valid access request. If the level on the RACH is greater than this threshold and smaller than the **Random Access Error Threshold**, the BTS considers the access as valid. Set this parameter according to the actual BTS sensitivity and the lowest MS access level.	0–5 (1 is the default value.)
Saturation Voltage Threshold	Determines the maximum level value of the access. If the voltage of the access exceeds this threshold, the access is invalid.	0–255

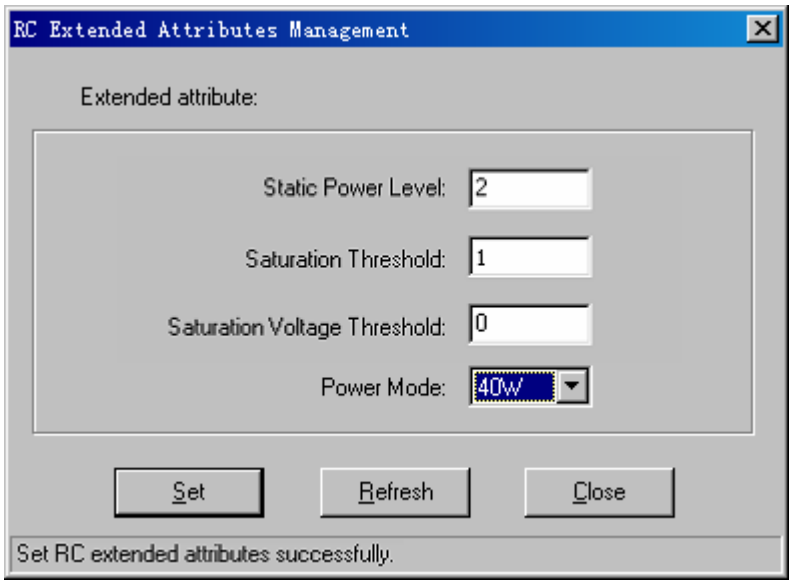
Parameter Name	Meaning	Value Range
Power Mode	Current work mode, that is, power type of a DTRU.	• Not known, 40 W, 60 W (BTS3012, BTS3012AE) • 40 W, 55 W, 63 W (BTS3006C)

Procedure

Step 1 In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of the window, double-click **RC Extended Attributes Management**.

The **RC Extended Attributes Management** dialog box is displayed, as shown in **Figure 9-2**.

Figure 9-2 RC extended attribute management



Step 2 Set the parameters of the RC extended attributes.

NOTE

The parameters displayed on the terminal are the activated parameters on the BTS. You can adjust their values.

Step 3 Click **Set**.

The extended attribute is set successfully. The result is displayed on the status bar in the **RC Extended Attributes Management** dialog box, as shown in **Figure 9-2**.

NOTE

The configure operation enables the site maintenance terminal to activate the parameters on the BTS. The refresh operation enables the site maintenance terminal to obtain the latest data from the BTS. You can perform the refresh operation to confirm the accuracy of data.

----End

9.3 Changing RC Management States

This function is performed to lock or unlock an RC.

Prerequisite

You have logged in to the BTS through the Site Maintenance Terminal.

Context

CAUTION

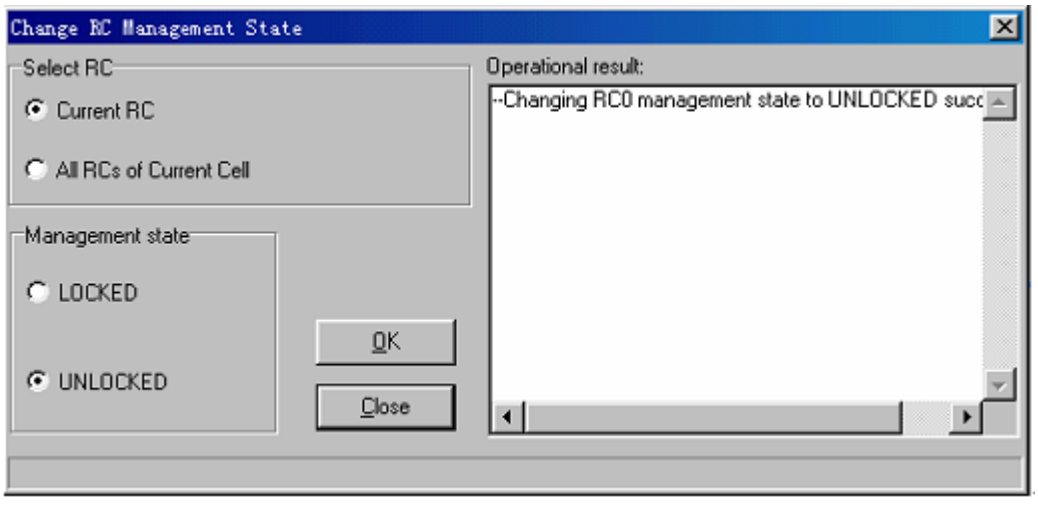
When the RC management state is set to Locked, all the channels on the RC are in out of service state. That is, the RC cannot provide any service. Therefore, you should perform this function carefully.

Procedure

Step 1 In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of the window, double-click **Change RC Management State**.

The **Change RC Management State** dialog box is displayed, as shown in **Figure 9-3**.

Figure 9-3 Changing the RC management state



Step 2 Choose an RC and select a management state.

NOTE

The parameters displayed on the terminal are the activated parameters on the BTS. You can adjust their values.

Step 3 Click **OK**.

The RC management state is changed successfully. In the **Change RC Management State** dialog box, the result is displayed in the **Operational result** list box, as shown in **Figure 9-3**.

----End

9.4 Initializing RCs

This function is performed to reset an RC. After the RC is reset, the DTMU/DOMU sends the saved configuration data to the RC again to validate these configuration data.

Prerequisite

You have logged in to the BTS through the Site Maintenance Terminal.

Context

CAUTION

This function is performed to reset the RC hardware. All the services of the RC are interrupted during the reset. Therefore, you should perform this function carefully.

Procedure

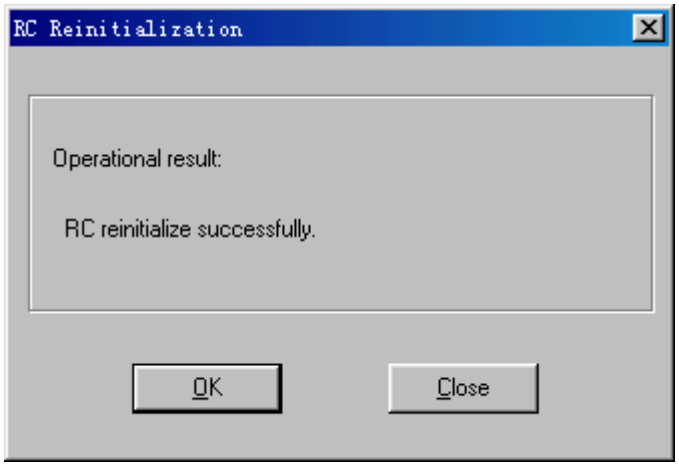
Step 1 In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of the window, double-click **RC Reinitialization**.

The **RC Reinitialization** dialog box is displayed.

Step 2 Click **OK**.

The RC is reinitialized successfully. The result is displayed in the **RC Reinitialization** dialog box, as shown in **Figure 9-4**.

Figure 9-4 RC reinitialization



----End

9.5 Obtaining Automatic Power Control Type

This function is performed to enable the user to obtain the frequency band of an RC and to indicate whether the RC supports the automatic power control function.

Prerequisite

You have logged in to the BTS through the Site Maintenance Terminal.

Context

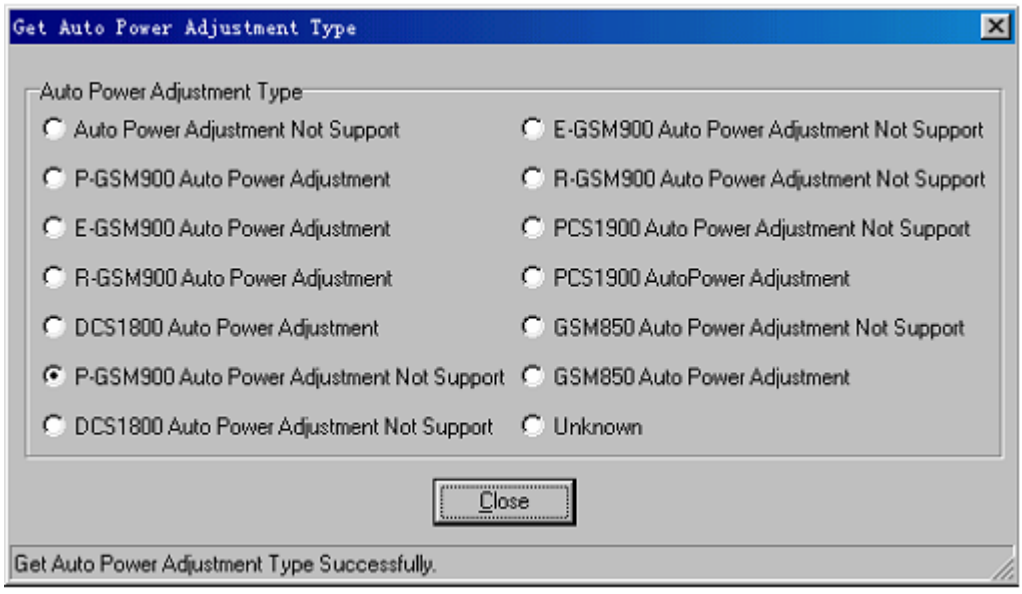
The automatic power control function can keep the frequency of the RC within a fixed range.

Procedure

In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of the window, double-click **Get Auto Power Adjustment Type**.

The auto power adjustment type is obtained successfully. The result is displayed on the status bar in the **Get Auto Power Adjustment Type** dialog box, as shown in **Figure 9-5**.

Figure 9-5 Get Auto Power Adjustment Type dialog box



NOTE

This command is used only for viewing.

----End

9.6 Obtaining RC Power Modes

This function is performed to view the power type and the current work mode of an RC.

Prerequisite

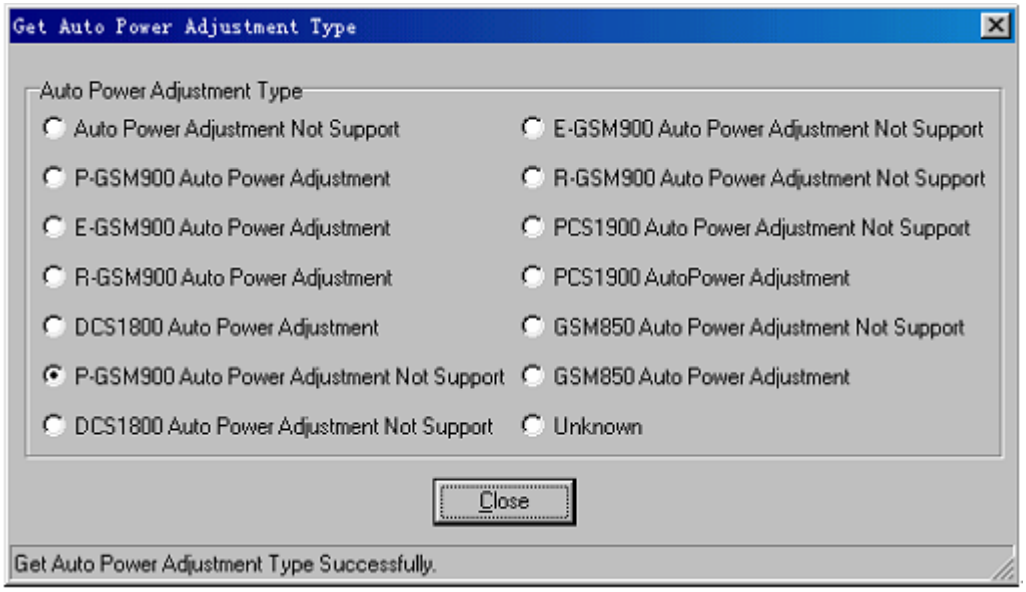
You have logged in to the BTS through the Site Maintenance Terminal.

Procedure

In the left pane of the **Site Maintenance Terminal System** window, select **RC**. In the right pane of the window, double-click **Get RC Power Mode**.

The **Get RC Power Mode** dialog box is displayed. The query result is displayed, as shown in **Figure 9-6**.

Figure 9-6 Obtaining the RC power mode



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