Cisco MultiPlatform DECT 6800 – How to Add 110 Repeater to a Network

If you have a DBS 110 Single-Cell Base Station, you can extend coverage in your location with DBS 110 Repeaters. You can have up to 6 repeaters.

If you have a DBS 210 Multi-Cell Base Station, you can extend coverage in your location with DBS 110 Repeaters. You can have up to 3 repeaters per base station.

Note: Do not connect the repeater to power until Step 6. When you power on a new repeater, it tries to register with the base station, and this registration needs to happen within 5 minutes.

The repeater reboots at the end of its configuration. This is normal because it has set up encrypted communications. After the reboot, it is ready to use.

Procedure:

1. Connect to the base station web page and browse to Repeater page.
2. Click Add Repeater.
3. Set the DECT sync mode field.
    o Manual: You need to manually assign parameters.
    o Local Automatic: The repeater detects the base signal and automatically configures.
4. For manual configuration, select a Repeater Number (RPN) from the dropdown menu.

    Each repeater needs a unique RPN.

    o Single cell systems: The base is always RPN000. The first repeater is RPN01, the second RPN02, and so on.
    o Multi-cell systems: The base numbers increment by 4 (RPN00, RPN04, and so on). The first repeater for the first base station is RPN01, the second RPN02. The first repeater for the second base station is RPN05, the second RPN06.
5. Click Save.
6. Power on the repeater.

The repeater LED will flash green (two short flashes) to indicate registration mode. When registration completes, the repeater and base station reboot to set up encrypted communications. If you powered on the repeater before you completed step 5 and the repeater LED is red, the repeater will not register. You must follow the information in Can't Set Up a Repeater – LED is Red to get the repeater into registration mode.

Can't Set Up a Repeater – LED is Red

Problem

The repeater LED is red and registration of fails.

Cause

The repeater is not in registration mode.

Solution

Reset the repeater with one of these options:

- Unplug the repeater. Wait 30 seconds, and then plug the repeater in again.
- Press and hold the reset button on the bottom edge of the repeater for 5 seconds.

Cisco DECT Network

Home/Status	**Repeater**
Extensions	Name: `Repeater 1`
Servers	DECT sync mode: `Local Automatic`
Network	Save
Management	
Firmware Update	
Country	
Security	
Central Directory	
Multi Cell	
LAN Sync	
Star Codes	
Call Progress Tones	
Dial Plans	
Repeaters	

Cisco DECT Network

Repeaters

Add Repeater

Refresh

	Idx	RPN	Name/ IPEI	DECT sync source	DECT sync mode	State	Type/ FW Info	FWU Progress
☐	1	RPN01	Repeater 1/ 03459072F8	RPN00 (-30dBm)	Local Automatic	Present@RPN00	RPT-110-3PC/ 0480.0002	31%

Check All / Uncheck All
With selected: Delete Repeater(s), Register Repeater(s) Deregister Repeater(s)