

RE: Emulating a wireless access point

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From: bparis@sorrentolactalis.com

Date: 08/15/01

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From: bparis@sorrentolactalis.com

To: pen-test@securityfocus.com

Subject: RE: Emulating a wireless access point

Date: Wed, 15 Aug 2001 12:42:41 -0400

You are correct Meredith.

I live near a cell tower (100m away) and can clearly hear cell conversations on my scanner at the 1st lower harmonic, app 450-460Mhz.

Getting back the the original question, cordless 2.4Ghz phones are notorious for creating interference with other devices using the same freq band. I recommend not operating 2.4Ghz phones in a wireless environment.

William S. Paris
Telecommunication/Network Analyst
Sorrento Lactalis Inc.
bparis@sorrentolactalis.com

Actually, it probably has to do w/ the frequency / harmonic resonance of the phone interfering w/the AP ... not the proximity. Even if the phone operates on a different frequency, it can interfere w/ the AP via harmonic resonance.

Harmonic Resonance occurs when one of the frequencies is a multiple of the other. Say your AP operates at 2 hz (for simplicity sake) and your phone operates at 4 hz, then every other cycle of the phones frequency will be in phase w/ the access points.

ASCII Diagra:

| x -- sine peak As you can see, the sine waves are prefectly

||||| Phone in-phase at 2 and 4 w/ respect to the phone.

|||||||

|||||

|_____ T = 1 sec

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| x --- sine peak
||
|| |.....| |. Access Point
||
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_____ T = 1 sec

Are there any Ham operators out there that can confirm or deny this?

--- Meredith Shaebanyan

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