



# TSCM Device Test

## Belkin WeMo Baby \$89.99



### Summary:

WeMo is a unique wireless baby monitor. It connects to the local Wi-Fi network and broadcasts audio (only) – to an iPhone, iPad, or iPod Touch. The control app is available for free at the App section of the Apple iTunes Store. Reception is through the local Wi-Fi system, or via the iPhone using 3G (thus extending the listening range to any cell phone system supporting 3G, worldwide).

([Spec Sheet](#))

**Set-up:** Using Wi-Fi, phone connects with WeMo directly. Once WeMo is given the local Wi-Fi authentication, the phone is returned to either local Wi-Fi or 3G service. App is launched, and listening begins. ([video instructions](#))

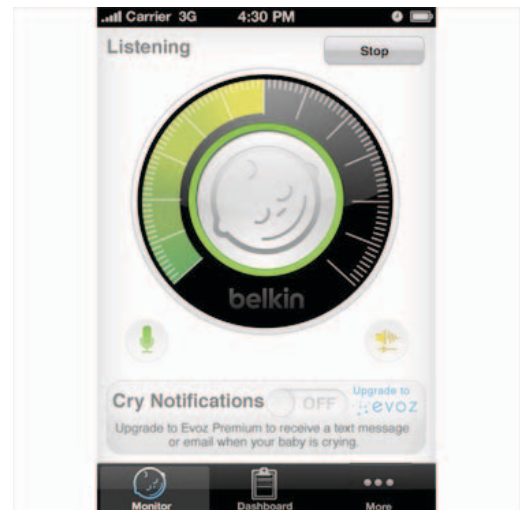
**Features of Interest:** The app provides a squelch control, and by upgrading to the EVOZ service (\$), alerts may be automatically received (text or call) whenever the squelch is exceeded.

**Sound Quality:** Acceptable, but not high-fidelity. Sound is exported to a cloud server for distribution to the app. This induces a slight echo which slightly affects intelligibility. The microphone itself is *highly* sensitive.

### Discovery:

The WeMo signal is in the 2.4 GHz frequency range.

- **Spectrum Analyzer** - Indistinguishable from other Wi-Fi signals.
- **NLJD** - Discoverable, as packaged.
- **IR** - Discoverable, as packaged.
- **Physical Search** - Discoverable, as packaged.





Should a WeMo be repackaged, discover-ability via these means could drop to zero %.

**Preferred Discovery Protocol.** (Assuming device is active).

Conduct an analysis of the 2.4 GHz spectrum using [AirMagnet WiFi Analyzer](#) (or similar).

1. Look for an **Appearance Point** MAC address which begins with "08:86:3B" (Belkin's ID). The SSID may also appear - "WeMo\_Baby.xxx,x"  
Note: Other Belkin prefixes (usage less likely): 00:30:1150, 00:17:3F, 00:1C:DF, EC:1A:59, 00:22:75, 94:44:52
2. If found, look for a **Station** address with the same MAC prefix.
3. If found, compare the suffix of both addresses. If the least significant digits are "0" and "1" respectively, it is very likely you have an active WeMo nearby. The "1" signifies [Multicast](#), "...communication where a piece of information is sent from one or more points to a set of other points."

**Example:**

AP: 08:86:3B:F6:DA:B0 (The Appearance Point MAC address is only revealed by the Wi-Fi Analysis.)

STA: 08:86:3B:F6:DA:B1 (The Station MAC appears on the base of the WeMo.)



**Kevin D. Murray**, CPP, CISM, founded Murray Associates in 1978. It is an independent consultancy providing electronic surveillance detection (TSCM) and counterespionage consulting services to businesses, governments, and at-risk individuals. The firm also partners directly with security organizations, PIs and attorneys on behalf of their clients. He is the author of "[Is My Cell Phone Bugged?](#)" and [Kevin's Security Scrapbook - Spy News from New York](#). His Android app SpyWarn™ allows average individuals to conduct their own forensic cell phone exam to determine if it is infected with spyware – at [SpyWarn.com](#).

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Free information and movies about TSCM can be found at the [Murray Associates web site](#),