

# Bluejacking Technology: A Review

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**Abstract:** This paper is about sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers, sending a vCard which typically contains a message in the name field to another Bluetooth-enabled device via the OBEX protocol. It is around 10 meters for mobile phones, and about 100 meters for laptops with powerful transmitters. This technology allows phone users to send business cards anonymously using Bluetooth wireless technology. Receiver does not know who has sent the message, but it has the name and model of the phone of bluejacker. People who get to receive such messages should not add the contacts into their address book. Devices that are set in non-discoverable, hidden or invisible mode are not susceptible to blue jacking. It has been noted that many people are still not aware of this technology. There are other technologies also which are very similar to it. These are Bluebug, Bluesnarfing, Blueprinting, etc. This paper provides an overview of the Bluejacking Technology.

**Keywords:** Blue Jacking, Blue Jack Addict, Bluetooth Exchange, Obex, Vcard.

## I. INTRODUCTION

Bluejacking makes use of the Bluetooth technology to send unsolicited/unwelcomed messages to Bluetooth enabled devices. Receiver does not get to know who has sent the message to it. It only receives the message along with name and model of the sender's phone. This technology is known as Bluejacking. Bluejacking is instigated by an attacker (termed as bluejacker or bluejack addict) who forwards unsolicited messages to a user of Bluetooth-enabled device. When the connection goes through, the bluejacker tries to send a message to the recipient. The actual message sent to the user's device does not cause detriment, but is used to inveigle the user to counter react in some manner or add the new contact to the device's address book.

## II. BLUEJACKING TECHNOLOGY



As we know that bluejacking is the sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers, sending a vCard which typically contains a message in the name field (i.e. for blue dating or blue chat) to another Bluetooth enabled device via the OBEX protocol.

## III. BLUETOOTH TECHNOLOGY

Bluetooth Technology was developed to solve the simple problem of eliminating the connector cable. The idea is to replace the cables that are needed to accompany portable devices carried by many mobile travelers with a low-cost, secure, robust RF link. Originally Bluetooth marketed to small handheld devices such as cell phones and laptops. As the Bluetooth standard emerged successfully into society, the world demanded more. It is reported on Lets Go Digital in an article written by IlseJurrien that three new Bluetooth products are qualified every day and 10 million Bluetooth units are shipped per week. Bluetooth is so efficient, effective, and secure that even the IEEE approved the 802.15.1 Standard for Wireless Personal Area Networks based on the Bluetooth specification.



## IV. BLUETOOTH PICONETS

The cordless telephone has one Bluetooth transmitter in the base and another in the handset. The manufacturer has programmed each unit with an address that falls into a range of addresses it has established for a particular type of device. When the base is first turned on, it sends radio signals asking for a response from any units with an address in a particular range. Since the handset has an address in the range, it responds, and a tiny network is formed. Now, even if one of these devices should receive a signal from another system, it will ignore it since it's not from within the network. The computer and entertainment system go through similar routines, establishing networks among addresses in ranges established by manufacturers. Once the networks are established, the systems begin talking among themselves. Each piconet hops randomly through the available frequencies, so all of the piconets are completely separated from one another. Now the living room has three separate networks established, each one made up of devices that know the address of transmitters it should listen to and the address of receivers it should talk to. Since each network is changing the frequency of its operation thousands of times a second, it's unlikely that any two networks will be on the same frequency at the same time. If it turns out that they are, then the resulting confusion will only cover a tiny fraction of a second.

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