Blue Jacking Technology

MANISHA KUMAWAT[1] AJMEET SINGH[2] SAMIYA GAURI[3]

[1, 2, 3] *Department of Electronics and Communication Engineering, Poornima College of Engineering*

Abstract -- The cell phone technology has evolved quite in the past forty years in view that its invention in 1973 as a result of its precise, wiring sans and fixation free networked system. Cellular phones were espoused as a regular technology, Omni present at every physical vicinity. Initially used merely as a communicative tool to facilitate a channel for mediated communiqué, the usage of cellular phones has been diversified steadily. One such appropriation is blue jacking, the approach of relaying anonymous, undesirable and unsolicited quick messages via vCard capability over Bluetooth to Bluetooth-enabled gadgets using the OBEX (Object Exchange) protocol. This Paper affords a top level view of Blue Jacking Technology.

Index Words: Blue jack, OBEX, vCard, Blue spam, free jacking

I. INTRODUCTION

Blue jacking uses the Bluetooth technology to ship or send unwelcomed message to Bluetooth enable gadgets. Receiver does not get to know who has dispatched the message to it. It most effective gets the message in conjunction with name and model of the sender's phone.

This technology is referred to as blue jacking. Blue jacking is instigated by an attacker (termed as blue jacker or blue jack addict) who forwards unsolicited messages to a user of Bluetooth enable device. Whilst the relationship is going thru, the blue jacker attempts to send a message to recipient. The real message dispatched to the person's tool does not motive detriment, but is used to inveigle the person to counter react in some manner or upload the brand new contact tools address book.

II. ORIGIN OF BLUE JACKING

This blue jack idea commenced after a Malaysian IT representative named "Ajack" published a comment on a cellular smart phone discussion board. The Ajack informed to IT internet that the used his Ericsson cell phone in a financial institution to send a short message to a person with a Nokia 7650. He were given bored

At the same time as status in a financial institution queue, so Ajack did a Bluetooth discovery to see if there has been some other Bluetooth device in and around. He found a Nokia 7650 inside the location, so he created a new touch and stuffed the primary name with, "Buy Ericsson" and he dispatched a commercial enterprise card to that Nokia 7650 smart phone. Thus blue jacking has grown to be very popular among most of the young people trying to play some practical jokes. A 13-12 months-antique boy named Ellie from surrey in the United Kingdom has commenced devoted blue jacking site referred to as blue jack

Figure: - Origin of Blue Jacking

OBEX PROTOCOL

OBEX protocol is the coronary heart of report transfer over Bluetooth. OBEX (stands for item change) is a one of the communications protocol that helps the alternate of binary items between gadgets.

PROTOCOL RUN OVER OBEX

OBEX record switch protocol. It is far used to shop and retrieve where OBEX push. It is used for transferring a document from the originator of the request to the recipient. Files are much like FTP. It is far much like record switch however makes use of phone book entries may be listed. Device are most

sharp, Motorola, Samsung, Sony Ericsson, HTC and Nokia with infrared or Bluetooth port these all are support with the aid of OBEX.

VCARD FUNCTIONALITY

VCard are comparable like established blocks of text facts that provide the content material what's extra or much less a digital enterprise card. Here the information can be name, address, cell phone number (no can be of domestic, commercial enterprise, fax, pager, cell, ISDN, voice, data, video) and email id and associated net URLs. vCard can also incorporate pix and multimedia, that consist of snap shots, organization logos, audio clips, together with the geographic and time-zone facts. vCard can also designed to guide multiple language, delivery and the operating gadget impartial.

III. SOFTWARE TOOLS USED FOR BLUE JACKING PROCEDURE

The Procedure for blue jacking as stated or explained in advance are very lengthy and difficult to keep away from this we have got developed some software program to do blue jacking in an simpler manner. So by way of downloading that software program for your private laptop or for your Bluetooth configured cell smart phone you could do it without delay via just looking the enable Bluetooth device and send unsolicited messages to them. There are many software program equipment to be had inside the market and there call is in line with their use. Some of them are as follows:

1. Blue spam
2. Assembly point
3. Free jacking
4. Easy jacking

1. BLUE SPAM

Blue junk mail searches for all discoverable Bluetooth gadgets and sends a documents to them (unsolicited mail's them) in the event that they assist OBEX. By way of default a small textual content could be send. To customize the message that have to be send you need a palm with an SD/MMC card, then you definitely create the directory or blue spam and placed the file you would really like to send into this listing. Activity is logged to blue junk mail. Blue unsolicited mail also helps backfire, in case you placed your palm into discoverable and connectable mode, blue junk mail will intercept all connection attempts via different Bluetooth device and starts off evolved sending a message again to the sender.

2. ASSEMBLY POINT

Meeting factor is the proper tool to search for Bluetooth gadgets. You may set your assembly factor to a certain channel and meet up with humans you have not met earlier than. Integrate it with any blue jacking tools and have masses of a laugh. This software is compatible with pocket pc, palm, home, windows.

3. FREE JACKING

Free jack is like minded to java phone like Nokia N-collection.

4. EASY JACKING

Allows sending of text messages to other blue allows gadgets.

IV. PROCESS OF BLUE JACKING

The fundamental direction of action of blue jacking is pretty concise, hassle-free and convenient. It could be carried out with the aid of using the subsequent steps.

Step 1: Go to contacts within the telephone book (if the usage of cellular) or cope with eBook program like outlook (if the use of computers/laptops).
Step 2: Choose the "New contact" alternative. Consecutively, create a new contact.
Step 3: Enter the preferred message into the, name "area with which one desires to blue jack the other device. Message like, you have been blue jacked!" startle the victim.
Step 4: Press executed/ good enough choice. Save this new contact in the cell phone/cope with e-book of cell phone.
Step 5: click on at the contact created. Go to movement. Pick "Thru Bluetooth" or "send to Bluetooth" option.

Step 6: Click on the, search option for coming across energetic Bluetooth devices. Select a tool from the list. Step 7: After the choice of the tool, the message could be transmitted to it. Hence forth, the device might be blue jacked.

V. BENEFITS OF BLUE JACKING

1. Usually, a blue jacker will best ship a text message, however with modem-day telephones its possible to send pictures or sound as properly.
2. Humans can send any pictures or sounds as properly.
3. Any copyright sound files will handiest be dispatched with the written consent of the copyright holder.
4. We can easily transfer files from cellular to computer or from cellular to cell in a brief duration.
5. We can even revel in music by way of wireless headphones via blue jacking.

VI. NEGATIVE ASPECTS OF BLUE JACKING

1. But with growth in the availability of Bluetooth enable gadgets, those devices have end up prone to virus attacks and
Complete takeover of devices via a bug software. Those any even cause irritation in any man or woman as these are just unwelcomed messages or a few jokes.
2. They can annoy absolutely everyone very without difficulty.

VII. FUTURE ELEMENTS OF BLUE JACKING

Searching at its modern use and misuse also through few people, it's far predicted that within the destiny, it can have the following elements. Either it will be used appreciably or people might be able to get all the necessary records on their devices if they have their Bluetooth on, or human beings will forestall the use of Bluetooth even and best blue jackers can be playing with each other, or some new manner will be developed for you to locate the place of the tool sending a blue jack request and their location can be

traced. In the event that they preserve send traumatic messages, we are able to find them out and may check in a grievance against them. By using this manner, Bluetooth with be made more reliable.

VIII. CONCLUSION

In end, it could be stated that blue jacking isn't always at all harmful. Through it, we are able to engage with new human beings. The best element it could do at worst is to irritate you or annoy you through sending unsolicited messages but you may none the less save you yourselves from these messages through changing the visibility of your Bluetooth to invisible or non-discoverable mode.

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