



Bluejacking

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Patil

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# Bluejacking

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# Introduction

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**Bluejacking** Sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers via the OBEX protocol.

**Origin** Started after a Malaysian IT consultant named Ajack posted a comment on a mobile phone forum.



# Bluejacking Technology

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- 1 Bluetooth technology
- 2 vCard
- 3 OBEX protocol

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- Short range wireless LAN

- Connects numerous devices of different functions like telephones, notebooks, computers, digital cameras etc. In Personal Area Network (PAN).

- Supports point - to - point as well as multi-point.

- Low cost single chip radio feasible

- Low power



# Architecture

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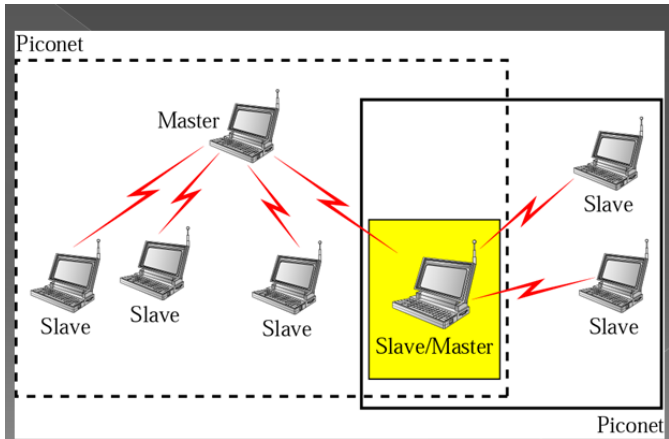


Figure:



# Piconet

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- The devices find each other and form a network called piconet spontaneously.
- A piconet is a basic unit with up to 8 nodes, one of which is a master and up to seven active slave nodes within a maximum distance of 10 meters.
- All communication between master and slaves.
- Piconet is a centralized TDM system. Master controls clock and decides the time slot for the device.
- In a piconet , there can be up to 255 parked nodes.
- Master switches to low power state and parked node wait for beacon from master.



# Technical Features

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Connection Type	Spread Spectrum and Time Division Duplex
Modulation	Gaussian Frequency Keying      Fre- Shift
Transmission Power	1 mw 100 mw
Data Rate	1 Mbps
Range	30 ft
Supported Stations	8 devices
Data Security Authentication Key	128 bit key
Data Security Encryption Key	8-128 bit
Module size	9x9





# How to Bluejack

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- Select an area plenty of mobile user.
- Go to contacts in your address book
- Creat a new contact.
- Enter the message into the name part.
- Save the new contact.
- Choose the "Send via bluetooth", This searches for any bluetooth device within range.
- choose one phone and send the contact.
- You will get message "Card send".



# Usage of bluejacking

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- Busy shopping centre
- Train Station /On a train/ tube/ bus
- High Street
- Cinema/cafe/ restaurant/ pub
- Mobile phone shop
- Electronics shop (e.g. Dixons)





# Places where bluejack occurs

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# Related concepts

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- Bluesnarfing
- Bluecasting
- Bluebugging





# Security issues

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- Promotes an environment that puts consumer devices at greater risk.
- Complete memory contents of some mobile phones can be accessed by a previously trusted paired device.
- Phonebook and calendar can be obtained without owners knowledge.



# Disadvantages

## Bluejacking

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- Bluejacking doesn't work on blackberry, iphone or ipad.





# Future aspects

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- Act as major sale tool
- Because of its low cost and energy consumption, this technology has greater future again.



# Conclusion

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- Bluejacking is technique by which we can interact With new people.
- It has ability to bring a revolution market by sending advertisement.





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- fLegg, Greg, (August 4, 2005) The Bluejacking, Bluesnarfing, Bluebugging Blues: Bluetooth Faces Perception of Vulneability.



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# Thank You...