Name

Professor name

Subject

June 30, 2019

Notes for Wireless Communications Paper

Introduction

The common wireless communications technologies used for accessing internet include Wi-Fi, Bluetooth, and NFC. Many users opt for wireless communications because it is more convenient compared to installation of wires and cables. Wireless connections uses electromagnetic signals and communications occur when the device capture signals.

Bluetooth devices must be placed within the range of about 33 feet for transmitting information. It can also be extended to about 325 feet with additional equipment. Bluetooth devices are paired for sharing information. When connecting two devices using Bluetooth, the originating device sends a code to the connecting device. The codes must match to establish the connection.

An NFC tag is a chip that can store small amounts of data. NFC tags are in a variety of objects, such as posters, ski lift tickets, business cards, stickers, and wristbands (Nitz). For successful communications, the NFC devices or objects are placed closer to each other. For example, two NFC-enabled phones placed together can transfer contacts, or an NFC-enabled phone can bee used with parking meter to pay for parking. Examples of NFC-enabled devices include smartphones, digital cameras, television, and terminals. Credit cards, tickets, and NFC tags are examples of objects that also use this technology.

One popular feature of Wi-Fi is in hot spots that offer mobile users the ability to connect to the Internet with their Wi-Fi-enabled wireless computers and devices. Wi-Fi, which stands for wireless fidelity, uses radio signals to provide high-speed Internet and network connections to computers and devices capable of communicating via Wi-Fi. In open or outdoor areas free from interference, the computers or devices should remain within 300 feet of a wireless device. In closed areas, the wireless network range is about 100 feet. Many homes and small businesses also use Wi-Fi to access internet. To obtain communications at maximum distances, users may need to install extra hardware to extend or strengthen a wireless signal.

Conclusion

Three popular wireless communications technologies are Wi-Fi, Bluetooth, and NFC. Wireless communications use air or space to send communications signals. The society is using Wi-Fi due to the increased convenience, easy access and portability.

Work Cited

Nitz, Nicholas Michael. Near Field Communications. Pacific Press, 2011.