FACULTY OF ENGINEERING & TECHNOLOGY

Brajesh Mishra
Assistant Professor
Department of Computer Science & Engineering

Topics Covered

Mobile Computing - Major Advantages
Mobile Computing - Security Issues

Mobile Computing - Major Advantages

Mobile computing has changed the complete landscape of our day-to-day life. Following are the major advantages of Mobile Computing −

Location Flexibility
: This has enabled users to work from anywhere as long as there is a connection established. A user can work without being in a fixed position.

Saves Time
: The time consumed or wasted while travelling from different locations or to the office and back, has been slashed

Enhanced Productivity
: Users can work efficiently and effectively from whichever location they find comfortable.

Ease of Research
: Research has been made easier, since users earlier were required to go to the field and search for facts and feed them back into the system.

Entertainment
: Video and audio recordings can now be streamed on-the-go using mobile computing.

Streamlining of Business Processes
: Looking into security issues, adequate measures have been put in place to ensure authentication and authorization of the user accessing the services.

Mobile Computing - Security Issues

Mobile computing has its fair share of security concerns as any other technology. Due to its nomadic nature, it's not easy to monitor the proper usage. Users might have different intentions on how to utilize this privilege. Improper and unethical practices such as hacking, industrial espionage, pirating, online fraud and malicious destruction are some but few of the problems experienced by mobile computing.

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Mobile Computing - Security Issues

The problem of identity theft is very difficult to contain or eradicate. Issues with unauthorized access to data and information by hackers, is also an enormous problem. Outsiders gain access to steal vital data from companies, which is a major hindrance in rolling out mobile computing services.

No company wants to lay open their secrets to hackers and other intruders, who will in turn sell the valuable information to their competitors. It's also important to take the necessary precautions to minimize these threats from taking place. Some of those measures include:

Hiring qualified personnel.
Installing security hardware and software
Educating the users on proper mobile computing ethics
Auditing and developing sound, effective policies to govern mobile computing
Enforcing proper access rights and permissions

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MCQ

1) The modulation technique used for mobile communication systems during world war II was
a. Amplitude modulation
b. Frequency modulation
c. ASK
d. FSK

2) ——— introduced Frequency Modulation for mobile communication systems in 1935.
a. Edwin Armstrong
b. Albert Einstein
c. Galileo Galilei
d. David Bohm

3) The early FM push-to-talk telephone systems were used in
a. Simplex mode
b. Half duplex mode
c. Full duplex mode
d. None of the above

4) DECT stands for
a. Digital European Cellular Telex
b. Digitized Emergency Cellular Telephone
c. Digital European Cordless Telephone
d. Digital European Cellular Telephone

5) World's first cellular system was developed by
a. Nippon Telephone and Telegraph (NTT)
b. Bellcore and Motorola
c. AT&T Bell Laboratories
d. Qualcomm