Computer information systems

Computer Information Systems Submitted to, Submitted By, of the

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Internet connectivity today is inevitable for every individual as internet is a

timely means of information transfer. Establishing a Local Area Network is

one of the key steps that need to be implemented when network

connectivity, specifically internet connectivity is intended.

BENEFITS

Establishment of a LAN within a home has the following advantages:

Sharing of data/files among computing devices.

Using a shared printing/peripheral device.

Sharing Internet Connection.

Playing network shared computer games. (Computer games often support

LAN mode.)

Home Entertainment.

If the LAN connection is routed to a wireless device that emits wireless

connectivity throughout the premises of the home then it has additive

advantages. These may be narrated as follows:

Mobility: The computing device may be moved from one place to the other

as internet connectivity or LAN connectivity is not limited to the positioning

of the hardware LAN wires anymore.

Wires Not Required: Too much of wiring around the house is not readily

adaptable. Maintenance of Cabling across a number of computers inside a

home may become fussy.

CONNECTIVITY

The devices that could thus get connected to a home LAN are as follows:

Personal Computers/ Laptops

Printer or other peripheral devices

Digital Video Recorders

Video Game Consoles

The devices that could get connected to a wireless networking set up within a home are:

Smartphones,

Tablet PCs,

Wireless enabled Personal Computers and Laptops,

Wireless enabled video gaming consoles etc.

PUBLIC WiFi ACCESS- PROS AND CONS

Public WiFi Access is the key to the connectivity of internet all around the world nowadays. All the hyped and popular handy computing devices support wireless connectivity via public WiFi access. There are, however, a number of pros and cons associated with the concept of WiFi connectivity. These are:

PROS OF WiFi

Accessibility with Convenience, Flexibility

The flexibility of roaming around with your computing device still connected to the internet or any other public network being accessed.

The constraint of wired access and positioning nearby wired connecting device is no longer present. The comfort ability of sitting on your comfortable bed while surfing the internet can be cherished with the WiFi technology. Enables WiFi cards to talk at the same time without interference.

Economical

WiFi setup proves to be much less expensive than the wired connectivity. This is owing to the fact that the main cost is incurred in connecting devices

via wires to the router.

Hotspots

Internet availability via wireless connectivity gets available in public areas such as lobbies, waiting lounges, airports, train stations and eating places etc.

CONS OF WiFi

Transmission Speed and Bandwidth

The more the distance is between your computing device and the access point of the WiFi network the lesser is the strength of the network signal coming via it. This eventually is directly proportional to the speed and quality of surfing.

Security.

Content security is not at very optimum in Wireless Connecting Wi-Fi Networks. Password protection does not ensure security in Wireless Networks. WEP (Wired Equivalent Privacy) is the common encryption standard that is in use to ensure security across Wi-Fi Networks. This protocol is however, is reported to have been repeatedly broken, despite being configured accurately.

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