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15035

\*Hw11 Individual Homework Assignment:

Answer

R1

in infrastructure mode of operation, each wireless host is connected to the larger network via a access point. If not operating in infrastructure mode, a network operates in ad-hoc mode. Inad-hoc mode, wireless hosts have no infrastructure with which to connect. In the absence of such infrastructure, the hosts themselves must provide for services such as routing, address assignment ,DNS-like name translation, and more

R7

Usually 802.11 networks operate in Infrastructure/Station Mode or Ad-Hoc mode. Ad-Hoc is essentially Peer-to-Peer where there is no centralized wireless node to connect to. Ad-Hoc clients connect directly to each other.

R10

No, there wouldn’t be any advantage. Suppose there are two stations that want to transmit at the same time, and they both use RTS/CTS. If the RTS frame is as long as a DATA frames, the channel would be wasted for as long as it would have been wasted for two colliding DATA frames. Thus, the RTS/CTS exchange is only useful when the RTS/CTS frames are significantly smaller than the DATA frames

The demand for access to business information and applications through mobile technologies such as the Apple iPhone and pad, devices running Google Android and Windows 7 Mobile or using RIM Blackberry is surging as consumer preferences and behavior spill over into the business workforce. The massive growth of adoption of these technologies around the world has many business managers wondering how to effectively position their firms to benefit from the trend. The drive for mobility is part of the business technology agenda for most companies today. Obviously, however, in a business rather than personal context, more types and complexity of information are needed, ranging from access to documents and presentations, to status on initiatives and processes, and for specific application needs to perform various business intelligence functions.

Against this fast-moving mobile background it is clear that just having mobile access to e-mail is profoundly insufficient for increasing productivity and producing better-informed employees. The integration of mobile devices such as laptops, tablet computers, PDAs and smartphones, along with their various applications and software, make it easier than ever for workers to collaborate and businesses to communicate with staff, customers, and vendors.

Mobile technology allows people to use company data and resources without being tied to a single location. Whether our staff is travelling to meetings, out on sales calls, working from a client site or from home anywhere on the globe, mobile devices can help them keep in touch, be productive, and make use of company resources.

Mobile IT devices can also change the way your company does business - new technologies lead to new ways of working, and new products and services that can be offered to your customers. They can make your team more efficient, more creative, and more valuable to your clients.

Every day businesses are learning more about the ways mobile technology can be used to increase their productivity and lead to increased profitability. Below are some of the key areas in which mobile technology can be useful:

**Networking / Communication**

Mobile technology allows companies to have an unprecedented level of connectivity between employees, vendors, and/or customers. Workers can download applications on their mobile devices that allow them to connect with others through social media such as LinkedIn, Facebook and Twitter; or the firm can use native or web-based applications to enable direct communication with these audiences in a variety of ways.

Real-time communication with the office can be important in delivering business benefits, such as efficient use of staff time, improved customer service, and a greater range of products and services delivered. Examples might include:

* making presentations to customers, and being able to download product information to their network during the visit
* quotations and interactive order processing
* checking stock levels via the office network
* interacting with colleagues while travelling - sending and receiving emails, collaborating on responses to tenders, delivering trip reports in a timely manner

**Benefits**

Mobile technology can improve the services you offer your customers.  For example, when meeting with customers you can access your firm's customer relationship management system - over the internet - allowing you to update customer details while away from the office. Alternatively, you can enable customers to pay for services or goods without having to write a check or swipe a credit or use cash. More powerful solutions can link you directly into the office network while working off-site to access such resources as your database or accounting systems. For example, you could:

* set up a new customer's account
* check prices and stock availability
* place an order online

Mobile technology leads to great flexibility in working - for example, enabling home working, or working while travelling. The growth of cloud computing has also impacted positively on the use of mobile devices, supporting more flexible working practices by providing services over the internet.

**Mobile technology solutions:**

* mobile infrastructure,
* mobile website and/or application development,
* mobile commerce solutions,
* mobile marketing solutions,
* mobile communication solutions,
* mobile technology hardware / software management solutions,
* GPS tracking solutions,.

Organizations that embrace mobility for business purposes likely will become not just more efficient, but also places where more people want to work. This could be an edge for employers in the increasing competitive challenges of recruiting and retaining talent in the coming decade.