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Which of the following is not a design goal of a site survey? Diffraction occurs when the path of the RF signal and causes it to bend. They are unsure of the variations of 802.11n they should use for their warehouse, which covers 30,000 square feet yet is essentially open with no interior walls. A virtual private network (VPN) uses an unsecured public network, such as the Internet, as if it were a secure private network. Double-click the profile to display its properties. Finally, it covers how to gather the necessary data and conduct a survey. This is called decryption. 149 Review Questions unidirectional amplifier A device that increases the RF signal level before it is injected into the transmitting antenna. However, the values displayed are identical to the dB values in the graph. Another type of interference can come from another nearby WLAN, when either both networks attempt to use the same channel or an adjacent channel. This is because the delayed out-of-phase signal is "added" to the primary signal, which results in an overall decrease. 9 330 Chapter 9 Wireless LAN Security Vulnerabilities Home Attacks Attacks against home WLANs are easy due to the fact that most home users fail to configure any security on their home networks. Which of the following cannot be used along with fencing as a security perimeter? Click the down arrow next to Priority. An 802.11a AP that supports TPC sends this information to the wireless devices and also indicates the maximum transmit power allowed in the WLAN and the transmit power the AP is currently using. 472 Chapter 13 Other Wireless Networks Body Area Networks (802.15.6) The IEEE 802.15.6 group is currently creating standards for body area networks (BAN). A third channel access method, which is also optional like PCF, is the hybrid coordination function (HCF). Several WIDS/ WIPS products offer remote packet capture and decode capabilities. Wireless networks also make it easier for any office—in either an old or new building—to be modified with new cubicles or furniture. One example of risk is social engineering attacks. For example, a sectorized antenna could divide the entire 360 degrees of coverage area into nine sectors of 40 degrees each. In this project you will explore some of the Netsh commands. Auditory learners Year Born Traits Number in U.S. Population Prior to 1946 Patriotic, loyal, faith in institutions 75 million 1946–1964 Idealistic, competitive, question authority 80 million 1965–1981 Self-reliant, distrustful of institutions, adaptive to technology 46 million 1982–2000 Pragmatic, media savvy 76 million Table 11-1 Traits of learners © Cengage Learning 2013 Copyright 2012 Cengage Learning. The reason for this alteration was to allow higher-level protocols, such as those operating in the Network layer, to interact with Data Link layer protocols without regard for Physical layer specifications. reduce WEP key to more manageable length of 32 bits c. elevation chart A chart that represents the vertical coverage area of an antenna. noise floor Copyright 2012 Cengage Learning. The users are not limited to employees; it can also include vendors, contractors, or visitors, each with different privileges. This increases the probability that those stations that are waiting will transmit sooner than a new station will. war driving The process of searching for wireless signals from an automobile or on foot using a portable computing device. 362 Authentication . Type Exit again and press Enter to close the Administrator Command Prompt window. Distributed Coordination Function IFS (DIFS) An interframe space that is the standard interval between the transmission of data frames. Note that in this emulator the actual MAC address will not be listed under MAC FILTERING RULES. Troubleshooting a Wireless Network 441 Another tool is the Wireless Network Connection Status dialog box, shown in Figure 12-7. Click Power loss. There are two types of wireless LAN bridges. They have been tested with care, but are not guaranteed for any particular intent beyond educational purposes. 20. This data was compared against the Gadd Severity Index (GSI), which is a method developed by car crash researchers for describing just how jarring a blow someone has received. Draw the walls around the two pods of cubicles (6 cubicles and 4 cubicles). FSPL represents the single greatest source of power loss in a wireless system. Washington Heating and Cooling (WHC) has recently moved into a new facility—an older renovated warehouse—and contracted with NITC to install a wireless LAN. Gateways A gateway is a network device that acts as an entrance to another network. When using PSK authentication, the key value must be correctly entered in the device to match the key on the AP. Without understanding the reasons why the network is needed it will be almost impossible to properly design and implement the network. wireless switch A device that contains the management and configuration functions for a lightweight access point. This detailed book not only covers all exam objectives, it also includes practical chapter-review questions and hands-on exercises. Case Project 2-3: Standards Do standards stifle IT or promote it? This secure version is actually "plain" HTTP sent over SSL/TLS and is called Hypertext Transport Protocol over Secure Sockets Layer (HTTPS). It can be used for almost any short-range application where low cost is essential. 345 Case Projects . Using special signal-processing techniques in the PHY layer can permit the FHSS signal be sent at times when WLANs are silent. They are often found in lecture halls and auditoriums. Which of the following is false about roaming? Change the Wireless Band back to 2.4GHz. 14. 331 331 332 335 Vulnerabilities of IEEE 802.11 Security. To make matters worse, if the attacker manages to connect to the enterprise wired network through a rogue AP, she could also read broadcast and multicast wired network traffic that leaks from the wired network to the wireless network. These bands and their maximum power outputs are seen in Table 5-4. Sidebar interference (SBI) c. Case Project icons mark Case Projects, which are scenario-based assignments. The following supplemental materials are available for use in a classroom setting. For the Host 1 Port Range, enter 80 in the first box and 80 in the second box. A wireless mesh access point must quickly determine what it should do with the data it receives. 68 Mbps d. John Cox, "Wi-Fi client surge forces new look at WLAN designs," Network World, Jun 20, 2011. Hands-On Projects 31 19. However, the IEEE has discontinued its relationship with Bluetooth, so that any future Bluetooth versions will not become IEEE standards. 267 WLC frame d. In order to use SNMP, a software agent is loaded onto each network device that will be managed using SNMP. As of mid-2010, all major airlines had either installed wireless on selected flights or announced plans to do so. The station starts listening (carrier sensing) before transmitting, a router and a switch. Station A begins carrier sensing and then transmitting its first frame. Because the drive units are portable, the software communicates with them using wireless local area network technology, which can also interface with any existing WLAN in the DC. Dr. Ciampa has worked in the IT industry as a computer consultant for multiple public and private enterprises. By some estimates there will be 1.4 billion devices shipped in the year 2014 that support the IEEE 802.11 review questions and hands-on exercises. Case Project 2-3: Standards Do standards stifle IT or promote it? This secure version is actually "plain" HTTP sent over SSL/TLS and is called Hypertext Transport Protocol over Secure Sockets Layer (HTTPS). It can be used for almost any short-range application where low cost is essential. 345 Case Projects . Tools for monitoring and containing wireless attacks. Appendix A, "CWNA Certification Examination Objectives," provides a complete listing of the latest CWNA certification exam objectives and shows the chapters and headings in the book that cover material associated with each objective. Current IEEE 802.11a/b/g/n network technology often cannot keep up with delivering this content, particularly high-definition (HD) video, and may result in deteriorated performance, choppy videos, and slow load times. One hospital chain runs a patient-monitoring application at its 23 medical facilities. Unlike infrared light, radio waves can penetrate objects like walls and allow the wireless user to be mobile. Be sure that the file type is Delimited and click Next. ● Expanded in-depth coverage of topics such as radio frequency fundamentals, antennas, wireless LAN architectures, conducting site surveys, wireless security, and others. This data is sent to the center's main database, where it is automatically compared with the patient's history accumulated over several months to Copyright 2012 Cengage Learning. Known as the photophone, it used sunlight reflecting off a vibrating mirror to send to a parabolic mirror at a distance of 700 feet (213 meters). Data gathered from the AP and devices is collected in real time but often there is not always the facility for creating a large repository for that data. Click Login. Under Radar, note the dBm of the different wireless networks. The final step is to add the original data bit to the chipping code, as seen in the bottom pane of the figure, which results in the signal that is transmitted. 461 APPENDIX A CWNA Certification Exam Objectives . In this project you will explore the tools on BackTrack 5. Roller barrier independently rotating large cups (in diameter of 5 inches or 115 millimeters) affixed to the top of a fence prevents the hands of intruders from gripping the top of a fence to climb over it. A dynamic "self-managing" WLAN that can monitor the environment and then automatically adjust power levels or channels to compensate for changes standards. The IEEE has also subdivided the Physical layer (PHY) for WLANs into two sublayers, as seen in Figure 5-8. In this project, you will view logs on a Windows 7 computer. Note that each device can be identified by the Computer Name and Assigned MAC Address. These utilize a special form of energy known as electromagnetic waves. ● Disassociation frame. This data can be used to identify real-time parking trends, make immediate site-specific parking policies, and create a more focused enforcement effort. This contains the mean (average) of the accumulated values for the simulation. Click Wireless to display the Wireless Settings screen. Potential problems include the device location and resolving connectivity issues. Instead, WIMAX uses a scheduling system and the device only has to compete once for initial entry into the network. 382 Chapter 10 Implementing Wireless LAN Security 3. Because the WG only meets once each quarter, creating the charter by the SG usually takes at least two quarters (six months). wireless network is called a a. Which of the following is not a characteristic of IEEE 802.11a? The reason for this is to ensure that the new or expanded WLAN will dovetail into what is already in place. When a station in power save mode must receive a frame intended for all stations (multicast or broadcast frame) the AP will send a special TIM called a delivery traffic indication message (DTIM). hertz (Hz) The unit of measurement for electromagnetic frequencies. What are their strengths? See your lab manager or instructor for more information 1. Also, manufacturing to standards encourages manufacturers to deploy mass-production techniques and economies of scale to keep production costs low, with savings that in turn are passed on to users. Wireless VLANs can be configured for additional security. If no networks appear, click Interface and then select the appropriate wireless NIC interface. core layer b. Move the slider under Link Speed (Mbps) from 54 to 18. Click Rescan networks. 3. Click File and Save As. Save this file as 802.11a 54Mbps Mean Values.txt. What type of AP and antenna should be used? WPA also includes a Message Integrity Check (MIC), designed to prevent an attacker from conducting active or passive man-in-the-middle attacks by capturing, altering, and resending data packets. Unlicensed bands can also pose some difficulties. Propagation Behaviors A common misconception is that an RF signal that goes out from an antenna is a single signal that takes a direct straight path to the receiver. If a wireless device roams into a different cell it sends a reassociation request frame to the new AP. vi Table of Contents WLAN Bridges . hop time d. However, because wireless LANs cannot limit access to the RF signal by walls or doors, wireless authentication requires the wireless device (and not the individual user) to be authenticated prior to being connected to the network. Click Connect. Next to Choose type of cable, select Aircm. Next, the steps for monitoring the network's performance are examined. The emulated login screen appears. Note that Windows 7 Starter Edition cannot be used for this project. You will begin by looking at the principles behind radio frequency (RF) transmissions. WLAN Service Sets 201 Extended Service Set The two limitations of a BSS—a relatively small number of users being confined to a small geographical area—can be overcome with an Extended Service Set (ESS). ● Conflict between operating system configuration and a third-party configuration tool. 4 128 Chapter 4 Antennas an omnidirectional antenna radiates its signal out horizontally as well as vertically, it provides less coverage area vertically. What are the two types of IEEE 802.11 networks that are available for the first band? channel access methods The different ways of sharing the network medium. Significant security vulnerabilities have exposed wireless networking to a variety of attacks. The Address 1 (Destination address) and Address 2 (Source address) fields contain the addresses of the receiving and sending devices, respectively. Asset identification. HT L-SIG Protection 6 d. OFDM. By contrast Figure 4-12 shows the same three illustrations with a semidirectional antenna, where the Azimuth pattern is not uniform in all directions but instead is more focused in one direction, as is the elevation. Existing ISPs have objected to unfair competition from governments using tax funding, and some private companies who contracted with local governments to install wireless data networks have been forced to pull out of the projects because their costs in building the network had significantly increased and the number of projected users who would sign up for the service could not be accurately determined. Even activities that appear unrelated to computer networks may have an impact upon the WLAN. When this option is used, it solves the hidden node problem and provides additional protection against collisions. TxBF utilizes a process in which the sending device codes or assigns weights to the signals before sending them. First, it offers only three nonoverlapping channels, compared to 23 channels for 802.11a. peer-to-peer A wireless network that does not use an AP. Because of the trust relationship you established with WHC, you've been asked to explain those values to WHC management. It is good to install antennas as high as possible and far away from other antennas. Single-Channel Architecture (SCA) The fundamental reason why multiple APs in a MCA are necessary is because the interference range of wireless devices exceeds their useful communication range. What types are listed? This is particularly true if in the past policies did not exist or were loosely enforced, determine his progress and alert physicians if additional actions need to be taken. to ask the user to contact friends d. Shared key authentication c. ● Desktop probe. Figure 13-3 illustrates a slave device that is detected by a master. The process of scrambling and how WEP is implemented are discussed in detail next. It regulates radio and television broadcast stations as well as cable and satellite stations, and also oversees cellular telephones, pagers, and two-way radios. Click in the Length (meter) box and type 1.75. Increased speed of attacks Attackers can launch attacks against millions of computers within minutes. the number of clients. 802.11 Media Access Control Layer Frame Formats and Types 209 of bytes in the frame, and tell what speeds the sending device supports. Modulation and Coding Scheme (MCS) Copyright 2012 Cengage Learning. Trainers and coaches can then make an immediate medical determination of what action needs to be taken regarding the player. In the Data Rate section, click 1Mb/s. Once an AP's firmware has been upgraded, several settings may require adjustment Copyright 2012 Cengage Learning. However, the level of information provided by these tools can vary dramatically, with some tools providing only rudimentary information while others give more detailed statistics. Scroll through this file and close it when you are finished. b. In your opinion, could the inexpensive spectrum analyzers be used as an alternative to the full-featured models, or only as a supplement? Virtually all laptop computers sold today have wireless data capabilities as standard equipment. Manufacturing In a manufacturing environment wireless data communications are also extensively used. Site surveys fall into four different categories, based on when they are conducted. Other client utility software programs are generic and work with wireless NICs from different vendors. out of phase d. What recommendations would you make to the vendors to increase the strength of WPS? This is known as vulnerability appraisal and in effect takes a snapshot of the security of the organization as it now stands. 99 Signal-to-Noise Ratio . No station can transmit if the NAV contains a value other than zero. A VPN concentrator can aggregate multiple VPN connections. Cochannel interference can result when two or more networks attempt to use the same channel. If enough IV values have been collected, the WEP key will appear. Uses different frequencies to reduce interference ● Security. Because this will be delivered to executives and not IT personnel, it should not be too technical in its scope. Click the plus sign (+) next to Advanced Settings in the left pane to expand the options.

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