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Bluetootii		Important
 Bluetooth is a short-range (approx. 32 feet), low-power wireless protocol transmitting in the 2.4 GHz band. 		
 Bluetooth transmits data in Personal Area Networks (PANs) through mobile phones, laptops, printers, and audio devices. 		
• As these become popular, people started trying to find holes in it.		
 Security issues: Bluetooth features easy configuration of devices to allow communication with no need for network addresses or ports. 		
 It uses pairing to establish trust relationship between devices 		
 To establish that trust, the devices need advertise capabilities & require passkey 		
 To help maintain security, into both devices- this prev 	most devices require the passkey vents a default passkey – type atta	to be entered ack
 The Bluetooth's protocol advertisement of services and pairing properties is where the security issues start 		







802.11 Protocol		
Authentication		
 Handled in its most basic form by the 802.11 AP, forcing the clients to perform a handshake when attempting to "associate" to the AP. 		
 Service set identifier (SSID) 		
• The SSID is a phrase based authentication mechanism that helps ensure that you are connecting to the correct AP.		
 The SSID setting should limit access only to the authorized users of the wireless network. 		
 SSID phrase is transmitted in all the access point's beacon frames 		
Beacon Frame		
 An 802.11 management frame for the network and contains all the information about the network., such as SSID, timestamp 		
Transmitted periodically to announce the presence of a Wireless LAN network		
 The designers of 802.11 standard attempted to maintain confidentiality by introducing Wired Equivalent Privacy (WEP) 		
• WEP uses the RC4 stream cipher to encrypt the data as it is transmitted through the air.		
• Have an implementation problem that can be exploited to break security		















