

Wi Fi How It Works

== Versions == The standard has been used for file transfer, casting and projecting with Miracast, wireless printing, and to communicate with one or more devices simultaneously at typical Wi-Fi speeds (IEEE 802.11) without requiring a hotspot or an Internet connection. It is therefore similar to Bluetooth technology but offers a longer range. Only one of the Wi-Fi devices needs to be compliant with Wi-Fi Direct to establish a peer-to-peer connection. The integration of communication and sensing functionalities within mobile networking technology constitutes a large area of exploration and is commonly referred to as Joint Communications and radar/radio Sensing (JCAS). This convergence of technologies presents an opportunity to harness pre-existing hardware and infrastructure, fostering the emergence of novel services, while facilitating a higher level of interaction with networked devices (e.g. IoT and automation).

Google WiFi The initial service was shut down by Google on May 3, 2014 at their Mountain View base, and provided a new public outdoor WiFi. Google had committed to keeping the service free until 2010. It was funded by Google and installed primarily on city lightposts Google WiFi was a municipal wireless network deployed in Mountain View, California. It was funded by Google and installed primarily on city lightposts. Google WiFi was a municipal wireless network deployed in Mountain View, California

== Introduction == 2010 - WiDi 1.0 - Supports 720p Wi-Fi Direct negotiates the link with a Wi-Fi Protected Setup system that assigns each device a limited wireless access point. The "pairing" of Wi-Fi Direct devices can be set up to require the proximity of a near field communication, a Bluetooth signal, or a button press on one or all the devices. Simultaneous connections also allow one device connected via an infrastructure local area network to the... 2012 - WiDi 3.0 - Supports 1080p @ 60 FPS Wi-Fi is a trademark of the Wi-Fi Alliance, which restricts the use of the term "Wi-Fi Certified" to products that successfully complete interoperability certification testing. Non-compliant hardware is simply referred to as WLAN, and it may or may not work with "Wi-Fi Certified" devices. As of 2017, the Wi-Fi Alliance consisted of more than 800 companies from around the world. As of 2019, over 3.05 billion Wi-Fi-enabled devices are shipped globally each year.

Nintendo Wi-Fi USB Connector 11g wireless router/bridge which serves a similar purpose. According to the official Nintendo website, this product was the best-selling Nintendo accessory to date on 15 November 2007, but was discontinued in the same month. On September 9, 2005, Nintendo announced the Nintendo Wi-Fi Network Adapter, an 802. The Nintendo Wi-Fi USB Connector is a wireless game adapter, developed by Nintendo and Buffalo Technology, which allows the Nintendo DS, Wii and 3DS users The Nintendo Wi-Fi USB Connector is a wireless game adapter, developed by Nintendo and Buffalo Technology, which allows the Nintendo DS, Wii and 3DS users without a Wi-Fi connection or compatible Wi-Fi network to establish an Internet connection via a broadband-connected PC. When inserted into the host PC's USB port, the connector functions with the Nintendo DS, Wii, DSi and 3DS, permitting the user to connect to the Internet and play Nintendo games that require a Wi-Fi connection and access various other online services

2011 - WiDi 2.0 - Supports 1080p In January 2018, the Wi-Fi Alliance announced the release of WPA3, which has several security improvements over WPA2.

Long-range Wi-Fi Long-range Wi-Fi is used for low-cost, unregulated point-to-point

computer network connections, as an alternative to other fixed wireless, cellular networks Long-range Wi-Fi is used for low-cost, unregulated point-to-point computer network connections, as an alternative to other fixed wireless, cellular networks or satellite Internet access

As of 2023, most computers that connect to a wireless network have support for using WPA, WPA2, or WPA3.

Wi-Fi calling IP networks using Wi-Fi, instead of the cell towers provided by cellular networks. Using this Wi-Fi calling, also called Voice over wireless LAN (VoWLAN) and VoWiFi, refers to mobile phone voice calls and data that are made over IP networks using Wi-Fi, instead of the cell towers provided by cellular networks. In essence, it is voice over IP (VoIP) over a Wi-Fi network. In essence, it is voice over IP (VoIP) over a Wi-Fi network

A major security flaw was revealed in December 2011 that affects wireless routers with the WPS PIN feature, which most recent models have enabled by default. The flaw allows a remote attacker to recover the WPS PIN in 4–10 hours with a brute-force attack and, with the WPS PIN, the network's WPA/WPA2 pre-shared key... WPA (sometimes referred to as the TKIP standard) became available in 2003. The Wi-Fi Alliance intended it as an intermediate measure in anticipation of the availability of the more secure and complex WPA2, which became available in 2004 and is a common shorthand for the full IEEE 802.11i (or IEEE 802.11i-2004) standard. Wireless access == Wi-Fi technology operates across multiple frequency bands, Broadly categorized into two groups: (a) sub-7 GHz (including 2.4 GHz, 5 GHz and 6 GHz) and (b) 60 GHz. Common Wi-Fi routers and IoT devices (including those compliant with IEEE 802.11n/ac/ax/be, or Wi-Fi 4/5/6/7) predominantly operate within the sub-7 GHz range. The...

Wi-Fi 11 family of standards, which are commonly used for local area networking of devices and Internet access, allowing nearby digital devices to exchange data by radio waves. These are the most widely used computer networks, used globally in home and small office networks to link devices and to provide Internet access with wireless routers and wireless access points in public places such as coffee shops, restaurants, hotels, libraries, and airports. 11 family of standards, which are commonly used for local area networking Wi-Fi () is a family of wireless network protocols based on the IEEE 802. Wi-Fi (/ˈwaɪfaɪ/) is a family of wireless network protocols based on the IEEE 802

September 2012 - WiDi 3.5 - Supports Windows 8, touch functionality, 1080p output, 3D content, HDCP2, Blu-ray, and... As of 2009, Google used over 500 Tropos Networks MetroMesh routers acting as access points mounted primarily on utility poles providing usable signal and broadband internet access to over 95% of the city's area of 12 square miles (31 km²). As of 2009, it serves over 16,000 unique users each month and handles over 500 gigabytes of data in 24 hours. There are three aggregation points (or base stations) that all traffic is forwarded to. The radios in the access points offer both GoogleWiFi (which has no encryption) and GoogleWiFiSecure (which uses WPA to encrypt the over-the-air traffic) service set identifiers (SSID). Google WiFi only requires its end users have a Google Account. Google offers a free virtual private network (VPN) software client called Google Secure Access (GSA) and maintains a list of other recommended third-party... The Nintendo Wi-Fi USB Connector is essentially a re-branded version of the Buffalo WLI-U2-KG54-YB. The Buffalo WLI-U2-KG54-YB is often confused for the Buffalo WLI-U2-KG54-AI because the two adapters are almost identical, and only differ in that the Buffalo WLI-U2-KG54-AI features flash memory to allow for auto installation. Both are based on...

Wi-Fi Protected Access Wi-Fi Protected Access (WPA), Wi-Fi Protected Access 2 (WPA2), and Wi-Fi Protected Access 3 (WPA3) are the three security certification

programs developed Wi-Fi Protected Access (WPA), Wi-Fi Protected Access 2 (WPA2), and Wi-Fi Protected Access 3 (WPA3) are the three security certification programs developed after 2000 by the Wi-Fi Alliance to secure wireless computer networks. The Alliance defined these in response to serious weaknesses researchers had found in the previous system, Wired Equivalent Privacy (WEP) a0dcbb4a8e

Wi-Fi networks have a range that's limited by the frequency, transmission power, antenna type, the location they're used in, and the environment. A typical wireless router in an indoor point-to-multipoint arrangement using 802.11n and a stock antenna might have a range of 50 metres (160 ft) or less. Outdoor point-to-point arrangements, through use of directional antennas, can be extended with many kilometers between stations. a0dcbb4a8e

WiFi Sensing g. 11bf) is a technology that uses existing Wi-Fi signals for the purpose of detecting events or changes Wi-Fi Sensing (also referred to as WLAN Sensing or 802. Wi-Fi Sensing allows for the utilization of conventional Wi-Fi transceiver hardware and Radio Frequency (RF) spectrum for both communication and sensing purposes. breathing). Wi-Fi Sensing (also referred to as WLAN Sensing or 802. 11bf) is a technology that uses existing Wi-Fi signals for the purpose of detecting events or changes such as motion, gesture recognition, and biometric measurements (e a0dcbb4a8e

Created by Wi-Fi Alliance, the purpose of the protocol is to allow home users who know little of wireless security and may be intimidated by the available security options to set up Wi-Fi Protected Access, as well as making it easy to add new devices to an existing network without entering long passphrases. It is used by devices made by HP, Brother, and Canon, especially for their printers. WPS is a wireless method that is used to connect certain Wi-Fi devices, such as printers and security cameras, to the Wi-Fi network without using any password. In addition, another way to connect is called WPS PIN; this is used by some devices to connect to the wireless network. a0dcbb4a8e

Wi-Fi Direct Wi-Fi Direct is single-hop communication, rather than multi-hop communication like wireless ad hoc networks. The Wi-Fi Direct standard was specified in 2009. Wi-Fi Direct is a Wi-Fi standard for wireless connections that allows two devices to establish a direct Wi-Fi connection without an intermediary wireless Wi-Fi Direct is a Wi-Fi standard for wireless connections that allows two devices to establish a direct Wi-Fi connection without an intermediary wireless access point, router, or Internet connection a0dcbb4a8e

Wi-Fi uses multiple parts of the IEEE 802 protocol family and is designed to work well with its wired sibling, Ethernet. Compatible devices can network through wireless access points with each other as well as with... a0dcbb4a8e

Wi-Fi Protected Setup Wi-Fi Protected Setup (WPS), referred to as Wi-Fi Simple Configuration in the specification, and branded as WPS, is a standard designed to ease the setup Wi-Fi Protected Setup (WPS), referred to as Wi-Fi Simple Configuration in the specification, and branded as WPS, is a standard designed to ease the setup of Wi-Fi networks in home and small office environments a0dcbb4a8e

WiDi Wireless HDMI: WiGig WirelessHD Wireless Home Digital Interface Wi-Fi Direct WaPi The Origins of WiDi Technology, 2011-01-25, Intel Free Press How to Watch Wireless Display (WiDi) is discontinued technology developed by Intel that enables users to stream music, movies, photos, videos and apps without cables from a compatible computer to a compatible HDTV or through the use of an adapter with other HDTVs or computer monitors. 1 surround sound, and low latency for interacting with applications sent to the TV from a PC running Windows 7 or later. Intel WiDi supports HD 1080p video quality, 5 a0dcbb4a8e

== Version history == a0dcbb4a8e == Functionality == a0dcbb4a8e Since the

development of the IEEE 802.11 radio standard (marketed under the Wi-Fi brand name), the technology has become markedly less expensive and achieved higher bit rates. Long-range Wi-Fi especially in the 2.4 GHz band (as the shorter-range higher-bit-rate 5.8 GHz bands become popular alternatives to wired LAN connections) have proliferated with specialist devices. While Wi-Fi hotspots are ubiquitous in urban areas, some rural areas use more powerful longer-range transceivers as alternatives to cell (GSM, CDMA) or fixed wireless (Motorola Canopy and other... a0dcbb4a8e Essentially, GAN/UMA allows cell phone packets to be forwarded to a network access point over the internet, rather than over-the-air using GSM/GPRS, UMTS or similar. A separate device known as a "GAN Controller" (GANC) receives this data from the Internet and feeds it into the phone network as if it were coming from an antenna on a tower. Calls can be placed from or received to the handset as if it were connected over-the-air directly to the GANC's point of presence, making the call invisible to the network as a whole. This can be useful in locations with poor cell coverage where some... a0dcbb4a8e Using the Intel WiDi Widget, users can perform different functions simultaneously on their PC and TV such as checking email on the PC while streaming a movie to the TV from the same device. WiDi development was discontinued in 2016 in favor of Miracast, a standard developed by the Wi-Fi Alliance and natively supported by Windows 8.1 and later. a0dcbb4a8e Intel's Wireless Display should not be confused with Microsoft's Windows 11 operating system's built-in Wireless Display app (formerly Connect) which works with Miracast. a0dcbb4a8e Using this feature, compatible handsets are able to route regular cellular calls through a wireless LAN (Wi-Fi) network with broadband Internet, while seamlessly changing connections between the two where necessary. This feature makes use of the Generic Access Network (GAN) protocol, also known as Unlicensed Mobile Access (UMA). a0dcbb4a8e

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