Prepared by:	Date Prepared:	Effective Date:
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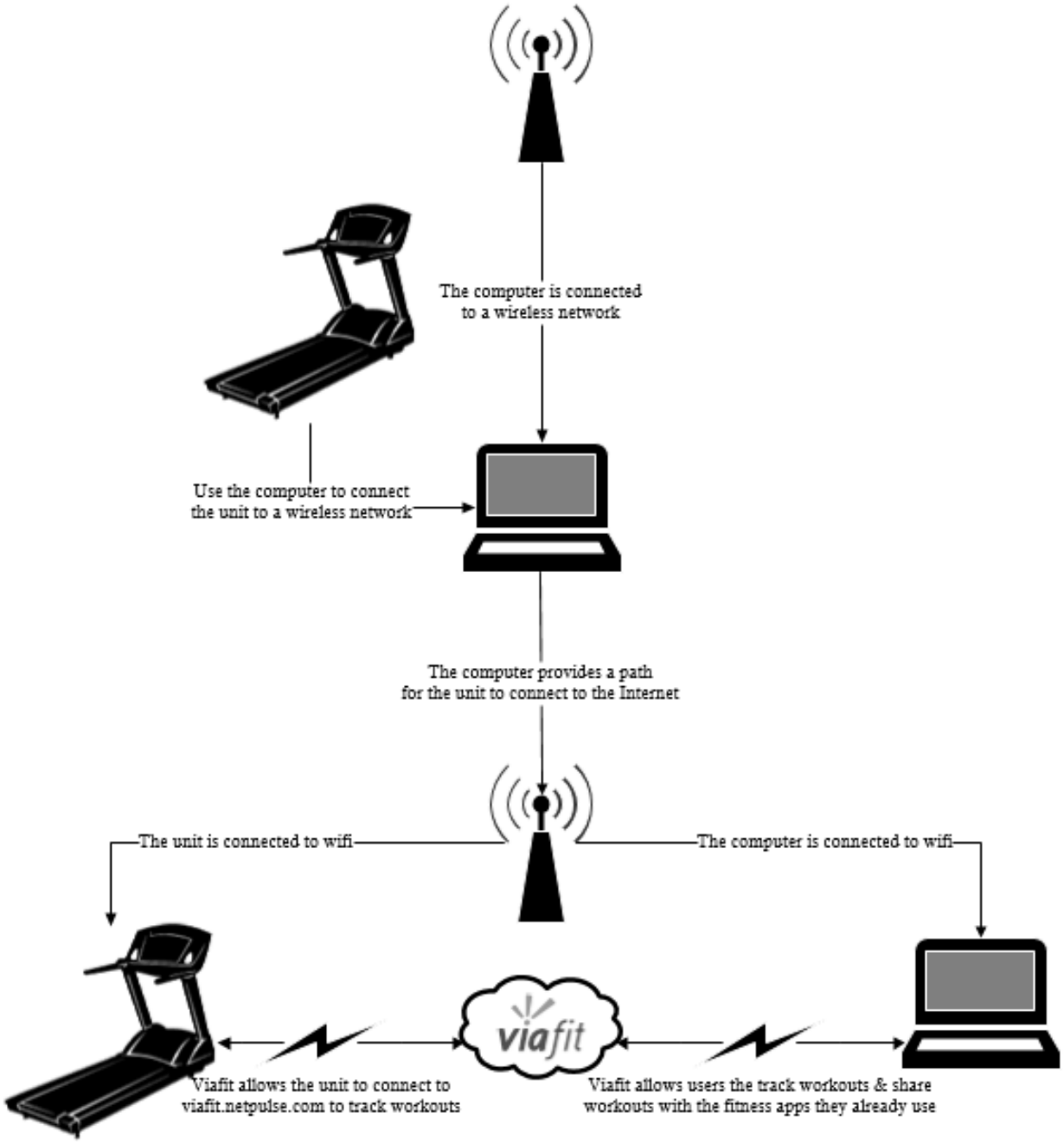
Connectivity Map for Non-GUI Consoles



Wi-Fi Terminology

Term	Definition
Access Point (AP, DAPI)	The computer or network device that serves as an interface between wireless-equipped computers and the rest of the network. Commonly referred to as a Router.
Bandwidth	The amount of information that can be transmitted over a connection, usually measured in bits-per-second or megabytes-per-second (ex: 5 Mbps)
Bridge	Device used to connect one network or device with another
Channel	Specific frequency range that a Wi-Fi adapter has access to at any given time
DSL	Digital Subscriber Line – type of Internet connection that runs over phone lines; you can use the same line for DSL and voice communication at the same time
Encryption	Method for hiding information so that only the sender and intended recipient can read it
ESSID	Extended Service Set Identifier – how to identify a Wi-Fi network by name. Commonly called SSID and BSID
Ethernet	Used for wired networking, available in speeds from 10 Mbps to 10,000 Mbps. Most common wire used is Cat5 (Category 5) and connectors are RJ45 (slightly larger than RJ11 used by phones)
Firewall	Method whereby a computer (or network of computers) is protected by software or hardware configuration that monitors and analyzes the incoming and outgoing traffic.
Hotspot	Designated locations where Wi-Fi access is available
IEEE	Institute of Electrical and Electronics Engineers – organization that researches and institutes electrical standards for technology and communication
IP Address	Unique numerical identifier that tells the computer where other computers are located on the network. IP addresses appear in the form of xxx.xxx.xxx.xxx but each group can have as little as a single digit.
ISP	Internet Service Provider – company that handles the interface between user and Internet
LAN	Local Area Network – group of computers that are connected to each other is some localized way
MAC Address	Media Access Control – a unique, hardware-based identifier used to differentiate between connected users
Range	The distance between an AP and a client over which the Wi-Fi transmission can be successful
Router	Device that accepts multiple internal connections, wired and wireless, and allows them to use the same external IP address
WAP	Wireless Access Point – computer or similar hardware component that allows wireless connectivity Wireless Applications Protocol – service provided for mobile devices with Internet access; many websites provide a version of their site that is tailored to mobile devices
Wireless Standards (set by IEEE)	802.11a – operates in 5 GHz range, speed up to 54 Mbps 802.11b – operates in 2.4 GHz range, speed up to 11 Mbps 802.11g – operates in 2.4 GHz range, speed up to 54 Mbps, compatible with 802.11b 802.11n – operates in 2.4 & 5 GHz range, speed up to 540 Mbps, compatible with 802.11b/g
WEP	Wired Equivalent Privacy – encryption standard that was the original standard for wireless. Current standard is WPA2
WPA2 (old WPA)	Wi-Fi Protected Access – encryption standard to secure wireless computer networks