

# Market Report

Popular Network Monitoring Apps for Android

# Android network monitor apps

*are designed for advanced users who want to control incoming and outgoing traffic on their phones and tablets. Such programs provide information on all Internet connections, services, and apps that utilize Internet traffic, and IP addresses they connect to. Monitoring software displays the amount of data sent and received during each connection. This data is useful for tracking suspicious network activity. Some applications can be configured to send notifications every time the phone establishes an Internet connection. This report contains a list of most popular android network monitor apps listing their features and issues which will be discussed briefly in the next section.*

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## 1) PingTools Network Utilities

*PingTools makes it possible to ping the network, get information about its configuration, detect ports and Wi-Fi networks, check whois information, lookup IP addresses, DNS, etc. With PingTools, you can track the use of the network. It also features a wake-on network function*

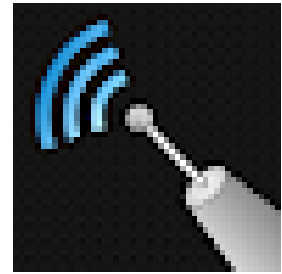


### ❖ Features

- Info - basic information about your device network
- Watcher - continuous monitoring of remote resources
- Local-Area Network - shows all devices on your network
- Ping - ICMP, TCP and HTTP ping
- GeoPing - Check resource availability worldwide
- Traceroute - UDP or ICMP traceroute tool
- iPerf - tool for network performance measurement and tuning
- SpeedTest - iPerf based network speed measurement
- Port scanner - TCP ports scanner
- Whois
- UPnP scanner - UPnP\DLNA devices scanner
- Bonjour browser
- Wi-Fi scanner
- Subnet scanner
- DNS Lookup
- Wake on LAN
- IP Calculator

## 2) Wi-Fi Analyzer

*Introducing a new way to analyze and optimize your Wi-Fi, turn android device into Wi-Fi Analyzer, Recommends the best channel and place for your network, gives you the most useful optimization information to help decrease interference and increase connection speed and stability.*



### ❖ Features

- Wi-Fi Optimizer for Interference Issues
- Channel Analyzer for Nearby APs
- Real-time data and distance calculations.
- History of signal strength
- Supports 2.4GHz/5GHz
- View Hidden Wi-Fi networks.
- Copy MAC address
- Channel Optimize

## 3) Netcut pro for android 2021

*It can disable (shutdown) the internet connection of other devices connected to the same Wi-Fi network. It is a very useful tool for Wi-Fi internet users using which you can cut (Turn off) other people off from a common Wi-Fi network and allocate all the bandwidth to yourself. The app is for Android only and it requires root access.*



### ❖ Features

- quickly detect all WIF network users.
- Set offline to any network users, including phone, Xbox, softphone, PS3, PS4 etc.
- cut off network between two network users within LAN box.
- Netcut Defender built in. (turn on and off in one click)
- Scan network when you feel there are users still on network and you can't see it.
- Check phone type and vendor.
- Give user easy to remember name.
- Detect attacks like ARP spoof.

## 4) IP Tools- Network Utilities

*IP Tools is a powerful network toolkit for speed up and setup networks. It allows quick detecting any computer network problems, IP address detection and boosting network performance. This is a must-have app for IT specialists and network administrators.*

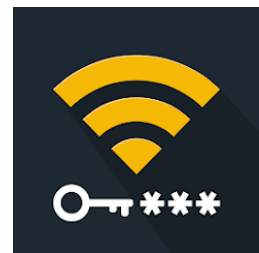


### ❖ Features

- Whois - Provides Information about a Website and Its Owner
- Wi-Fi/LAN scanner: discover all devices connected to any network
- IP range scanner (Scans LAN/Private and Public IP networks)
- Open discovered hosts in web browser if port 80 or 443 is reported open
- Full device details including IP address, MAC address, Device Name, Vendor, Device Manufacturer and more
- Inventory of devices and networks
- Internet connectivity checker
- Network Info – IP calculator
- ISP analysis and location
- Internet Info IP Tools
- Network Signal
- Network Tools
- Subnet scanner
- Network Tools IP Utilities
- Ping Tools Network Utilities
- Port scanner: TCP port scanning that automatically finds open ports and available services
- Ping and trace route: for network quality measurement
- WOL: remotely wake up devices
- DNS Lookup and reverse DNS lookup
- Network intruder detection - Network Analyzer

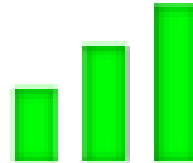
## 5) Wi-Fi Password Recovery

*Wifi Password Recovery is the app to recover the ever-lost password of WiFi networks that device has connected. "WIFI Password Recovery" will recover wlan passwords of previously connected Wi-Fi networks on android device.*



## 6) Network Monitor Mini

*This is a mini network monitor for your phone. It monitors the upload and download speed per second. It will always stay in the corner of the phone's screen. can set the indicator to any corner of the screen, customize the color and transparency of the indicator. record the live network information for WiFi / 3G / 4G network speed.*



### ❖ Features

- Live Network Traffic Meter (Speed / Data Rate)
- Normalize VPN / proxy / loopback traffic.

## 7) Network Connections

*Powerful tool that displays and monitors (tracks) all inbound and outbound connection from and to your Android device. A low-level connections capture module ensures best performance with a minimal battery usage.*



### ❖ Features

- Monitors all internet connections from and to Android device
- Displays notification when hidden apps are connecting to remote servers
- Displays detailed IP information for each connection - IP address, reverse resolving (PTR), AS number, Abuse RBL data, administrative information, etc.
- Gets detailed info about each app that connects to remote servers and network connections used by it - permissions granted to each captured package and all IP addresses used by it.
- Real-time sort by most active, latest connections or by package name.
- Log and export the captured data.

## 8) 3G Watchdog- Data Usage

*The app can count every type of data usage (3G, 4G, WiFi, etc.) and display it in a convenient way. 3G Watchdog demonstrates traffic used by every app on your device. View a net data usage with detailed information about traffic used for certain periods of time (today, per week, per month). export all data to the CSV file.*



### ❖ Features

- Counts Mobile (4G / 3G / Edge / GPRS) & WiFi usage and displays it as graph, text, table.
- Usage by application (Android 2.2+)
- Shows current usage status as a notification icon (green/orange/red) in the status bar.
- Plan & day usage history with CSV export/import.
- Alerts & optional auto-disable of mobile network
- Real Time traffic graphs (Mobile and WiFi)
- Translated in over 20 languages.

## 9) Fing- Network Tools

*The app can count every type of data usage (3G, 4G, WiFi, etc.) and display it in a convenient way. 3G Watchdog demonstrates traffic used by every app on your device. View a net data usage with detailed information about traffic used for certain periods of time (today, per week, per month). export all data to the CSV file.*



### ❖ Features

- Run WiFi and Cellular internet speed tests, download speed and upload speed analysis and latency
- Scan networks with Fing's Wi-Fi & LAN network scanner and discover all devices connected to any network
- Get the most accurate device recognition of IP address, MAC address, device name, model, vendor, and manufacturer
- Advanced device analysis of NetBIOS, UPnP, SNMP and Bonjour names, properties, and device types
- Includes port scanning, device ping, traceroute and DNS lookup
- Receive network security and device alerts to your phone and email

# Conclusion

*From the previous list it became clear that most networks monitoring apps contains multiple features that help users monitor and manage their own local networks and protect themselves from unauthorized access to their local network, resources, and information.*

*Popular network monitoring apps contain the following features:*

- Run Wi-Fi and Cellular internet speed tests.
- Scan network to discover all connected devices.
- Inform user when new device gets connected to the network.
- Data usage.
- Ping and Calculate Latency
- DNS Lookup
- Basic network information (host IP, gateway, Signal strength, etc.)

*What network monitoring apps lack:*

- Easy to use and understand app (as most apps usually directed to experts).
- Support of multiple languages (Most apps only support English).
- App that doesn't require root privileges.
- All in one app (provides most needed features in one application).
- Open-source app (trusted as source code is readable to all, usable by other developers in the community).
- Free app available to everybody with no annoying ads.