

Using Medscribbler mobility on cellular networks

Scriptnetics

PMB 6136
2711 Centerville
DE 19808
Phone: 1 (506) 350-6337



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Speed is the parameter that every Medscribbler user expects to have without any hindrances. Every wireless service provider specifies speed by geographic area, aka cell tower. It is impossible for Medscribbler to improve the raw speed at any particular place but Medscribbler is built to manage poor data network connections. It compensates for network speed variations, but sometimes Medscribbler appears slow or even appears frozen!

There are two variables in using Medscribbler that will affect whether Medscribbler can be used successfully on cellular networks or not. The one is the cellular network speed and the other is the content using the network. Slowness in mobile use is not Medscribbler itself but either the network or user inputted content that is stored in Medscribbler.



Using cellular networks, Medscribbler compensates for a weak or dropped signal without shutting Medscribbler down completely. It automatically “fills in the blanks” of a lost network connection. This may appear to make it slow but it is really trying to compensate for the signal loss. Medscribbler doesn’t blindly stop working with “flaky” or slow networks. The cellular providers do not tell you a lot of things about what they charge you for. Unfortunately, there is little that can be done about the cellular company data network speed except complain about the differences between what is paid for and what is provided. Network monitoring software will give the “ammunition” to get past the nameless customer “service” drone.

There is no guarantee of getting the coverage paid for many reasons. A busy city with tall buildings may block signals. Outlying areas with greater distances from the network tower make weak signals. Buildings with thick walls or multiple walls make interior signals weak. There may be a full strength signal outside the front door, but only a limited 2G or 3G data or worse connection indoors. This is a common problem for mobile broadband users and is a physical limitation of the radio network itself, not Medscribbler. Another reason for poor connection speeds may be network traffic. When there are too many users connected to a cell tower most cellular companies drop the connection speed down to 2G or worse.



The good news is there is something that can be done. The signal reception can be improved through hardware to prevent Medscribblers from having to devote resources to “compensation.”

Many of the popular 3G and 4G network USB dongles and cards sold by the mobile operators have a connection for an external aerial. This connection will give a good signal boost from an externally mounted aerial. An universal 3G or 4G clip-on antenna will work with most data card or USB dongle and can conveniently clip on to the screen of a tablet PC, extending the range and boosting the data network signal. The clip-on antenna is Omni-directional, meaning it works in all directions and is a low gain antenna. This makes it suitable for situations where there

already is a good signal, but maybe it's a bit weak in certain parts of the building. If there is no signal at all indoors, a high gain antenna may be the answer.

High gain 3G antennas are meant for places where a lot of boosting is required. The operation of this antenna is very similar to that of clip-on antennas except they are larger. Some are 10in by 10in plastic squares and others are wires 10 or 15 inches long. There is another solution, especially for mobile medical units or home visiting practices. There are 3/4G routers that can connect to the cellular network but allow a user to connect to the Internet locally through more reliable Wi-Fi.

A user creates a secure wireless 802.11g (108G) network to provide access to a local Wi-Fi network then uses the mobile 3/4G router using a cellular signal. By connecting a 3G card to the 3G mobile router, an Internet connection can be accessed and shared virtually anywhere within a wireless broadband, Wi-Fi, network. There are several advantages to this method.

First, once a signal is established to the 3G network signal strength is stable and consistent. Secondly, there are many inexpensive options that can greatly boost the output of the Wi-Fi broadband for a strong signal. The user is not encumbered with the extra antennas or devices, they can be left in a vehicle or even on a cell tower facing window sill in a building. There might actually be a cost saving as several users can share on 3G data network account.



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Using a 3G signal booster repeater generally is not a good option because the boosted signal has a limited range of only up to about 20 feet. These might be an option where the only problem is signal loss in homes being visited and it can easily be placed on a window sill.

The second variable in the speed of Medscribbler used mobility is the user generated content that is attempted to be transferred across the cellular network. If lab reports are imported into that are ten to fifteen pages long, opening a patient record will necessitate the transfer of that pdf for its information. Needless to say this will take a very long time and make it appear Medscribbler is

frozen. It is not, Medscribbler is just transferring user inputted information. Medscribbler has many technologies built into it to prevent this network problem. All scanned input must be no larger than single pages of each being no more than about 200 Kb. Scanning at higher resolutions or combining pages does nothing but slow the response of Medscribbler as computer screens cannot display a higher resolution and cellular and even poor signal quality Wi-Fi networks cannot handle the throughput quickly.

Medscribbler is constantly adding better network management techniques to deal with the massive amount of data that must securely pass between the user and the database. Medscribbler already is by far the most advanced technologically in the industry for network management. Our goal is to make users not even be aware of the network.

See the [Medscribbler Knowledge Center](#) for more networking information. Here are some hardware suggestions (users must decide for themselves on suitability for their situation.)

ARC Freedom 6" Booster Antenna

12" Magnetic Mount Antenna

Wilson Tri-Band Yagi 700Mhz - 2500Mhz (Verizon/Sprint/Alltel/AT&T) – 304411

Cradlepoint PHS300 3G/WiMAX Router (Includes Extra Battery)

Cradlepoint MBR1000 3G/4G Router

D-Link 3G Mobile Router DIR-450

Novatel MiFi 2200 Personal Hotspot (Verizon, Sprint)

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