



**ARE YOU TIRED OF PULLING OVER AT THE TOP OF SKYLINE TO
MAKE CELL PHONE CALLS BEFORE GETTING TO THE
'CELL PHONE DEAD ZONE'?**

SDWISP Can Help!

Our fixed wireless network supports cellular WiFi calling and Micro Cells. A Micro Cell is a small, personal cell site that plugs into the SDWISP network enabling you to make and receive cell calls over the internet. WiFi calling also allows you to make calls over the internet without any additional hardware.

As of May, 2016 most major cell phone providers now support WiFi calling. It is a feature that you enable on your newer technology cell phone/handset to allow cellular calls over your WiFi. A Micro Cell may be used to connect devices that do not support WiFi calling. A Micro Cell would be purchased from your cellular provider, plugged into a router, and aimed south to receive the GPS signal. Once these simple steps are complete (about 20 minutes) Wah! You now have cell coverage in your home!!

Verizon calls their 3G Micro Cell a *network extender* and to date the most current Model is the Samsung SCS-2U01. The current cost from Verizon is \$250.00 and needs to be registered to be active on the Verizon account. There is the option to secure it to only registered user(s) on your account or to leave it open to any Verizon phone user within range. I suggest leaving it unlocked since it only covers roughly 200 feet from the base. Verizon offers free WiFi calling as of May 2016.

Verizon Web links:

<http://www.verizonwireless.com/support/wifi-calling-faq>

<http://www.verizonwireless.com/accessories/samsung-network-extender-scs-2u01>

AT&T currently sells a Cisco 4 Gig Micro Cell for \$150.00 and sometimes offer a \$75.00 rebate making the final cost \$75.00. This is a great Micro Cell for a good price. The Micro Cell should be purchased from an AT&T store and be fully registered there. All the AT&T phone numbers that you wish to use with the Micro Cell will need to be listed on your AT&T account. AT&T does

not offer the option to leave it open for any phone to connect. The Rancho San Diego AT&T store has been very helpful to me over the years. Tell them SDWISP sent you.

To date there is no fee for WiFi Calling. AT&T offers free WiFi calling as of May 2016.

AT&T Web links:

<http://www.att.com/att/microcell/>

<https://www.att.com/shop/wireless/features/wifi-calling.html>

Sprint has a Micro Cell. However, they have had WiFi calling for years and there is no hardware cost. Enable WiFi Calling on your handset and connect to your wireless network. You may need to call them to add WiFi calling to your phone. At last check there was a \$5.00 monthly access fee (A bit greedy in my opinion as they have the worst cellular coverage ever!).

T-Mobile has had WiFi Calling for years and one of the first to offer it (pioneers in my book). I'm not aware of any Micro Cell they offer.

T-Mobile Web link:

<https://business.t-mobile.com/businessoffer/wifi-calling-wifi-extenders.html>

A Micro Cell is not a land line replacement and SDWISP encourages all residences to have an AT&T landline with a corded phone to insure communication in the event of an emergency and to receive reverse 911 calls. Any Micro cell should work on any quality wired or fixed wireless internet service that has very low latency (delay). Micro cells will not work on satellite internet service as there is just too much latency.

Keep in mind that Micro Cells are just as they sound. A micro cell site in your home connects to your cell carrier via the internet. They are often mistaken for cell site repeaters, but are not a repeater as they are not connected to a cell tower. Micro Cells are carrier specific, so if you have Verizon and AT&T users you will need one for each carrier. Yes, you can have two micro cells in your house which is what we did before WiFi calling. I have only listed cell carriers I have worked with, so it's not all inclusive.

Common Troubleshooting issues with ATT and Verizon WiFi Calling as of July 2016

1. If you've made a call and hear a message that the caller is not accepting WiFi calls, simply hang up and dial the number including the area code (i.e. all 10 digits).
2. If you have a strong WiFi signal and are having trouble making or receiving calls, go to your phone settings and enable airplane mode (this disables the communication with a cell site). Next, enable WiFi so that you're now only using WiFi. This will dramatically improve your WiFi calling experience. This may take a few minutes and/or several attempts to make the call. If you receive a message that you need to disable airplane mode to make a call it's not true. Keith and I have tested this thoroughly with our

iPhone 6's. We have not tested it with any other handsets. Remember to disable airplane mode when you leave your house.

It seems there are still some bugs to be worked out. Another reason we emphasize the importance of a wired landline and telephone.

If you're still reading this, you are very perseverant and clearly a very thorough individual. I'd love to hear your feedback, and if you see me in town, feel free to say something like "Hey Eric! Nice job on the WiFi Calling and Micro Cell info."

This has been a public service message courtesy of Eric Williams, owner of SDWISP. This could perhaps be considered a small infomercial of our internet services. As of July 2016, this is the most recent information that I'm aware of, so please follow up with your own research. If you find my information inaccurate please feel free to email me at: eric@sdwisp.com (I think I know it all until proven otherwise..... ;-).

Sincerely,

Eric Williams {W7EMW}

www.SDWISP.com

Improving the way we communicate for over 30 years (Man, I'm getting old!).