

## Description of our services. Cell over Satellite.

### Satellite to Existing Phone System (*Product 1*)

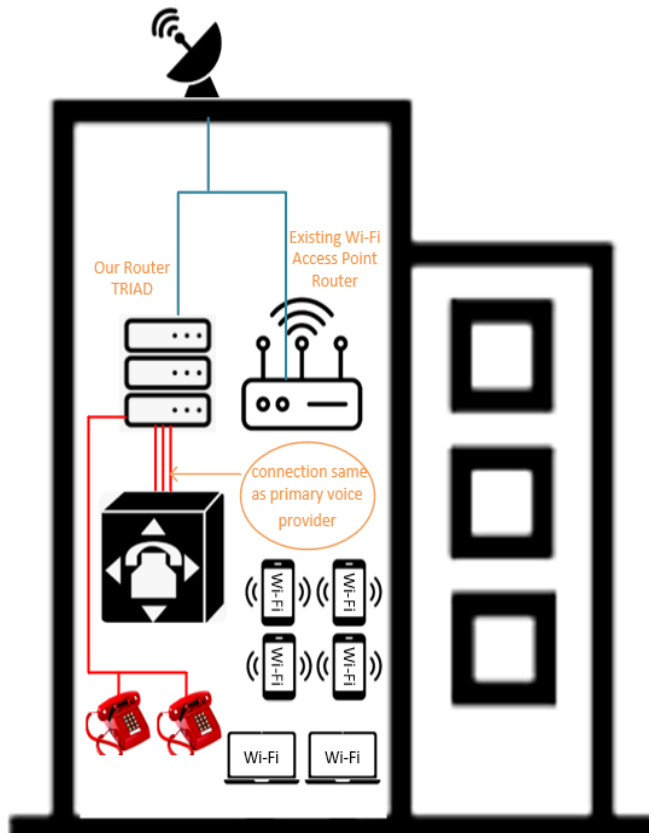
This is what we do physically.

We install one or two satellite dishes at a facility. If a second dish is installed it will be with a different satellite provider. We make everything as redundant as possible.

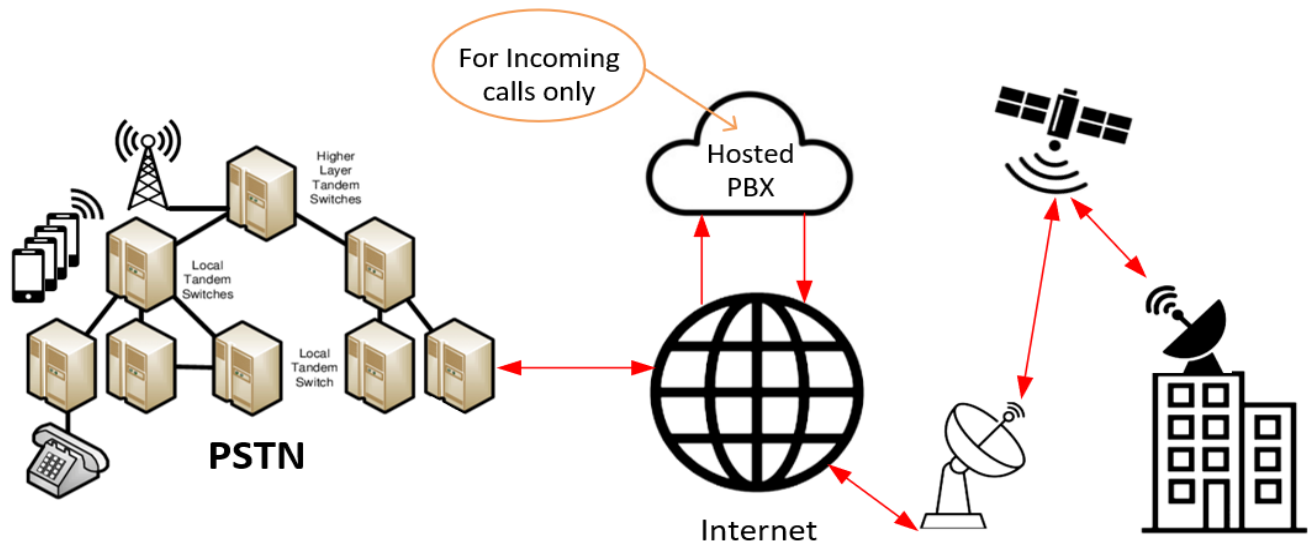
We have satellite modem(s), connect to the building's Wi-Fi access router and to a server we place onsite. We call our server the Triad. The Triad has a satellite internet connection on one end (input) and on the other end (output) we connect to their existing telephone switch and analog red phones if requested. Both the satellite modem and the Wi-Fi access router should have a UPS battery backup, we recommend 12 hours.

We have our own custom software in two places. First, we have software in the Triad that prioritizes and distributes the data. The Triad software also compresses the voice data so that more voice calls can be made over the limited bandwidth. Second, we have the software in the cloud based, hosted PBX. The hosted PBX was designed to intelligently answer and distribute incoming calls. There are ways the hosted PBX can distribute calls that are unique and effective.

**Below is a diagram of a facility with this service**



Below is a network diagram of call flow



Basically, every selected desk phone, desktop computer, laptop, cell phone and red analog phone (if installed) are connected to the Internet and PSTN in a different part of the country. Bypassing all local, regional and on-site issues.

For further review and additional explanation visit

<https://celloversatellite.com/satellite-to-existing-phone/>

### **Satellite Phone System (Product 2)**

With some customers we do not install the Triad. Everything is the same in the building diagram above, except everything on the left is gone, the Triad, phone system and red phones. The network diagram is exactly the same. This service does the same as the previously mentioned service, except the telephone system is not connected to the satellite and thus, desk phones will not work in an outage. Outbound calls are made using VoIP or mobile phones with Wi-Fi access. Inbound calls are directed to the hosted PBX and routed to any connected device, with the exception of desk phones.

*Note: Public Safety Answering Points, (911 Centers) and large hospitals always choose to have calls answered on existing equipment.*

For further review and additional explanation visit

<https://celloversatellite.com/emergency-cloud-communication-system/>

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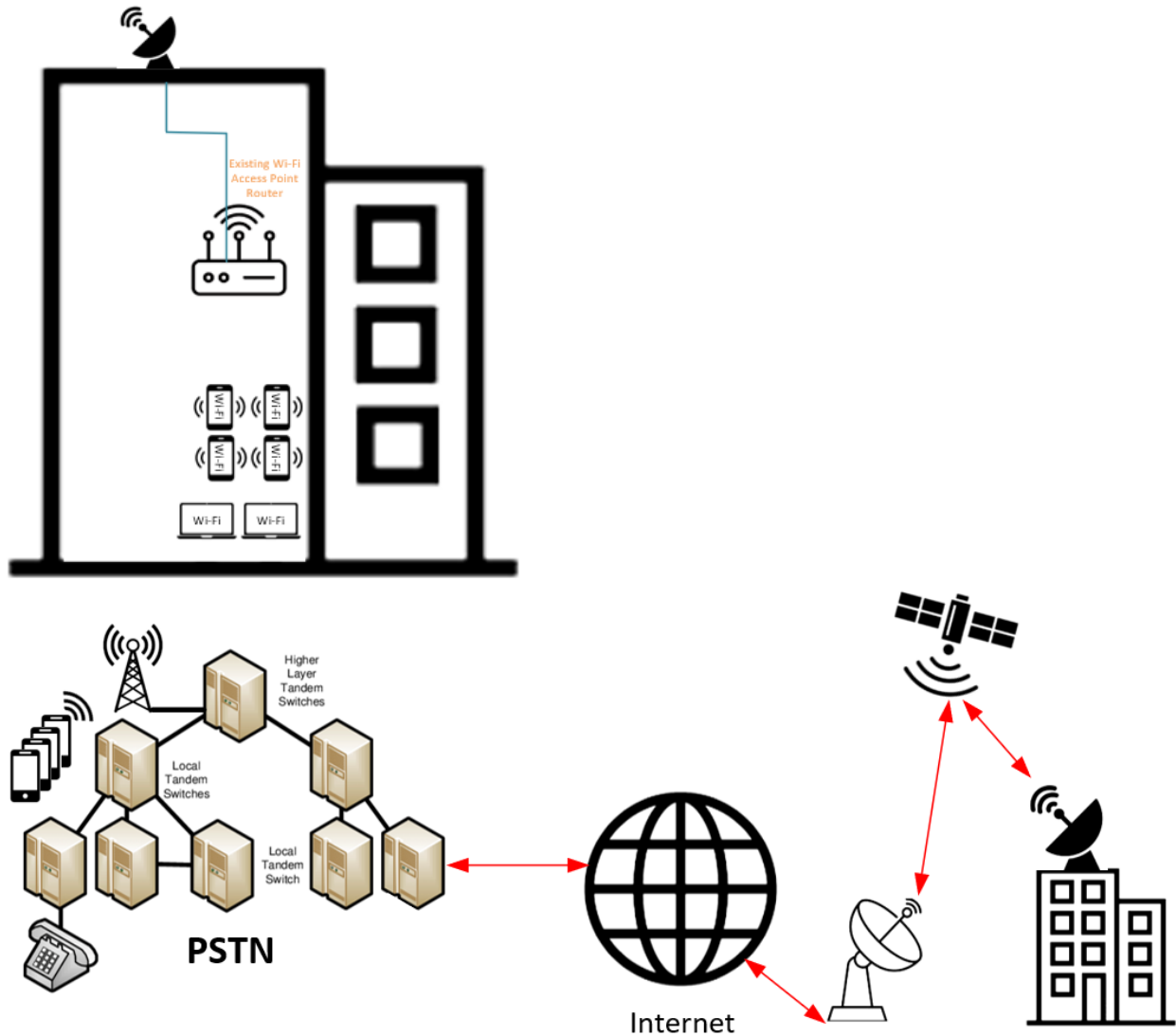
**The new service we are launching is Cell Over Satellite (Product 3)**



The Cell Over Satellite service was designed to be a low cost, first step in disaster recovery and business continuity in regard to restoring communications for an organization. Today 73% of mobile providers support Wi-Fi calling. To connect a mobile device to a satellite, an employee or guest at a facility needs to be given the Wi-Fi password and instructions on how to access the satellite connection. The user needs to follow some basic directions and understand the limitations of the service. If the user's mobile device or provider does not support Wi-Fi calling the user may be limited to text or email access only. There is a user instruction sheet below. For further review and additional explanation visit <https://celloversatellite.com/cos/>

There is a significant difference between the new service we are offering Cell Over Satellite and the Satellite Phone System we have in place. The two main differences are First, with the Satellite Phone System 99% of devices can communicate over satellite. Second, incoming calls to the organization's main numbers and extensions are answered by the right person or department via the satellite connection.

Here is a diagram of a building with Cell Over Satellite service and a network diagram.



*Instructions for converting your Cell Phone into a Satellite Phone*

***Our most important asset is our people.***

**Turn Your Cell Phone into a SATELLITE Phone in 1 Minute**

**THIS WILL ONLY WORK WHILE YOU ARE ON-SITE**

**Instructions:** When on site, under your phone settings, switch the Wi-Fi network to “Cell Over Satellite”, also on settings, turn on Wi-Fi calling. IN some cases, you will need to put your cell phone in **AIRPLANE MODE**. It depends on the phone and where the cellular network problem is.

Your cell phone is now a satellite phone which bypasses tower outages, network spikes (overcrowding) and cellular network failure. It may take 1-2 minutes for your cell phone to register with your cell provider in a different part of the country.

You do not need any special app to make this work. As far as the cellular providers are concerned, they see you in a different part of the country. All the existing apps on your phone should work like normal.

**IMPORTANT - Always remember** to conserve the limited satellite bandwidth that we have available. When possible, communicate by text messages or email. For example, a one-minute phone call on your cell phone is equivalent to approximately 500 texts or emails. Don’t answer a phone call unless you must and talk as little as possible.