

The CRD is not just a cell tower. It is designed to do many jobs. There are multiple ways it can be deployed. The CRD has multiple pathways it uses to talk to the internet and the outside world. This is generally called WAN, or Wide Area Network. In the Cellular world, this is called Backhaul. The Cradlepoint router manages this traffic and uses Ethernet (wired internet), Wi-Fi from another source, high speed satellite or cellular network SIM cards to communicate with any working cell towers in the area for internet connectivity. Different SIM cards can be used based on which working cell towers are available, and can be easily changed as needed using a screwdriver. Instructions for this can be found in the Owners Manual & Quick-Start Guide.

The pathways the CRD uses to communicate with you, are called LAN, or Local Area Network. Cellular networks sometimes refer to this as User Access.

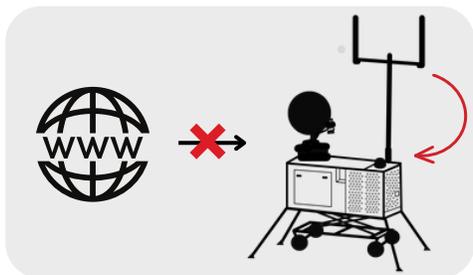
**Warning:** It is important to understand that you cannot simultaneously transmit FirstNet cellular from the CRD while FirstNet SIM cards are in the Cradlepoint router. Use your FirstNet SIM cards only when providing Wi-Fi and/or wired ethernet with the FirstNet cell tower radio off.

## SIM CARD USAGE

### Using different SIM Cards

SIM cards are small integrated chips that hold a unique identification number, phone number and other data that links to the customer's cellular/LTE provider's account. In the CRD, SIM cards in the Cradlepoint modem are used to communicate with the local cellular towers to bring data to the unit.

The CRD can become a local cellular tower by using the contained SBO FirstNet Cellular radio to transmit a FirstNet LTE cell signal. When using the FirstNet Cellular radio with the mast and antenna, the CRD has effectively become a local FirstNet LTE cell tower.



It is important to remember that there cannot be the same carrier of SIM in the Cradlepoint as the signal being transmitted through the CRD radio and mast.

The SIM will lock onto the CRD cell tower and create a no-data loop. For example, if the CRD is transmitting as a FirstNet cell tower, there cannot be black FirstNet SIMs in the Cradlepoint.

In some use cases, the CRD does not need to transmit FirstNet LTE, but needs to provide internet to a building that has lost its internet connection. In these cases, it is recommended to put black FirstNet SIMs into the Cradlepoint and let them communicate with either a local FirstNet cell tower or an AT&T tower for high-speed internet access with priority and preemption.