

Antennas (NU Donor, and optional CU)



- Antenna model(s) identified
- Antenna location identified
- Antenna mounting hardware
- Building entrance point for cabling, and weatherproofing
- Grounding and lightning protection if needed
- Coaxial cable feeds of proper length
- Cable RF terminator types and genders verified

NU and CU Mounting



- NU location, mounting hardware, power outlet
- NU Internet connection
- CU mounting locations and method hardware
- Write down NU serial numbers for commissioning

NU To CU Ethernet Cabling



- Cable routes and lengths (new cables or existing LAN without routers/switches etc.)
- Verify CU cable length maximums are not exceeded

See QUATRA documentation for your model to determine best Internet connection options

Training & Wave Portal Access



- Become familiar with product information at www.cel-fi.com/products
- Request portal access at www.cel-fi.com/account-request
- Complete the on-line Cel-Fi University course (30 min) that is emailed to you.
- Upon course completion, you will receive your Portal login email invite.
- Before any install, contact your distributor if you don't see your Network Unit (NU) serial numbers under the Access tab of the Portal.

Site Survey & Planning



- Define the building: Address, size, interior wall materials (framed, concrete), ceiling (solid, suspended, open), and photos of areas (usage)
- Use the QUATRA Planner Tool (www.cel-fi.com/support/bom-estimator/) to estimate HW needs (adjust later as plan details dictate).
- Decide which Operators need better service (which Cel-Fi QUATRA systems are needed)?
- Ask customer where service is good/ poor/critical. They know! And they have expectations to meet.
- Measure existing cell service quality using Smartphone speedtests or network signal apps.
- Choose donor antenna location(s), or other donor source for best signal quality and data rates.
- Choose locations for NU/CU equipment.
- Work with local IT staff to authorize NU internet access (send them the Cel-Fi QUATRA Management Connection Guide).

Install



- Coordinate LAN/Internet connectivity so it's ready when needed (permanent LAN is best, temporary at a minimum for commissioning).
- Run cables and mount all hardware.
- Connect all cables, connect NUs to internet, and power up the systems.
- If using a small cell donor, follow product specific connection methods.

Commission



- On the Wave Portal, go to the New Systems list and select your system by NU serial number.
- Complete the guided steps.
- When completed, your system will enable and appear on the Map, Site, System pages.
- Use the Request Access feature under the Access tab menu to gain access to your NU if you don't see it on the portal.

Evaluate & Optimize (if needed)



- Clear any alarms (visible on the Portal for the System, or indicated by NU/CU LEDs). Help provided on Portal, User Manual, and at www.cel-fi.com/support
- Select NU to check donor signal health (LTE: RSRP/RSRQ/SINR, WCDMA: RSCP/EcIo).
- To improve signal quality, aim the donor antenna for better LTE SINR and RSRQ on all LTE radios.
- Follow the Portal and documentation guidance for your product. Contact your point-of-sale for any questions.