



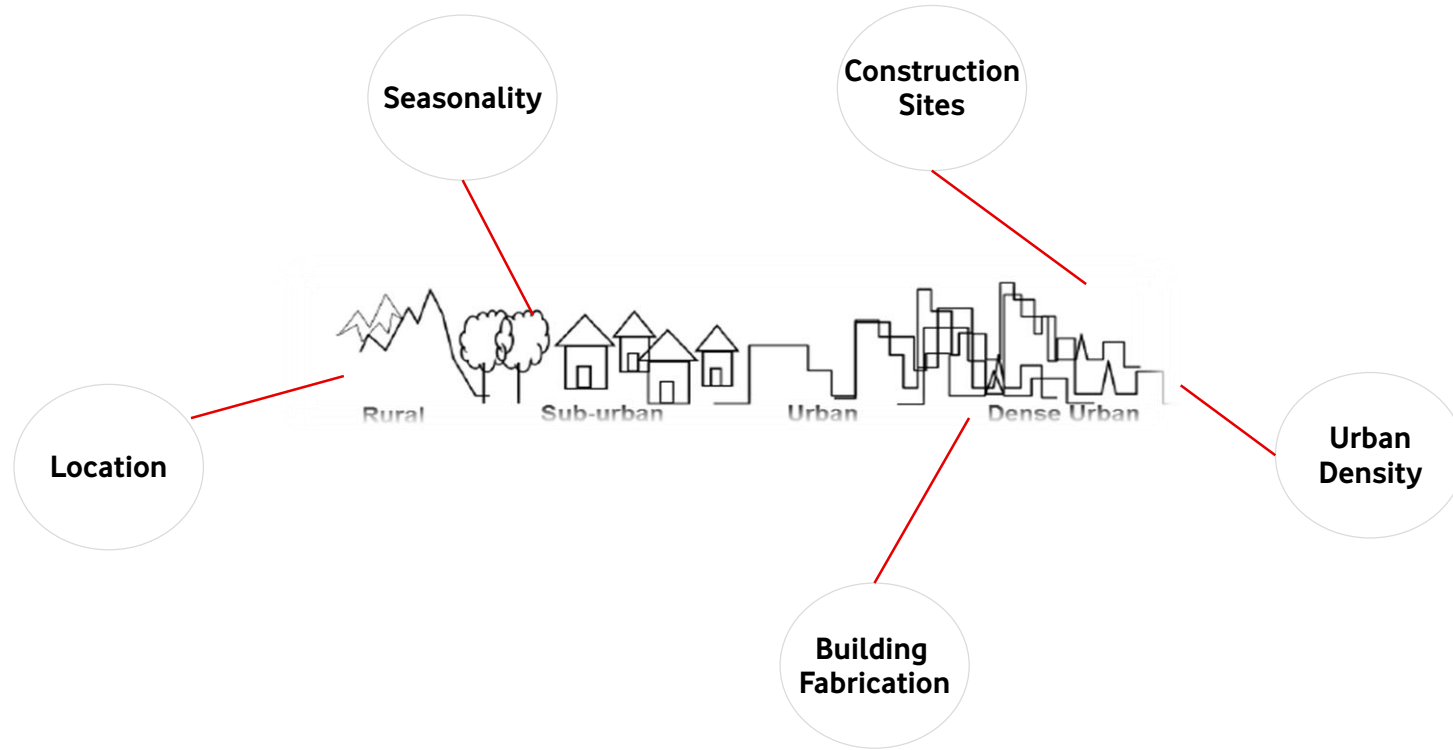
Cel-Fi

The smart signal booster.

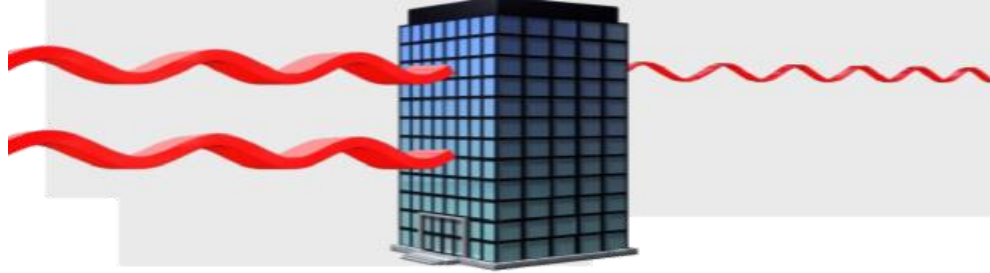
C2 Vodafone Restricted



Why networks have coverage problems

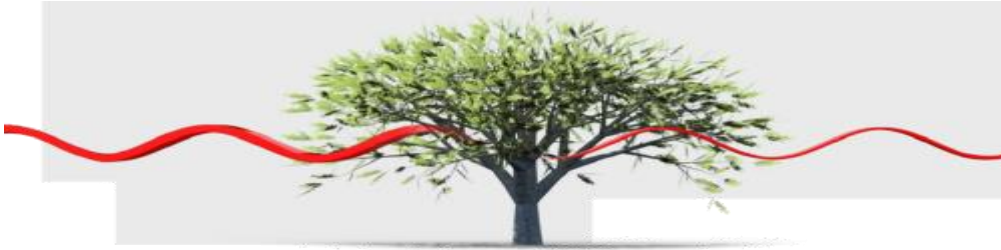


Top 3 Coverage Challenges



Coverage is impacted by:

Buildings,
Construction and Infrastructure have an
Impact, e.g. triple glazed windows and metal
cladding



Foliage, seasonal changes have a impact on
performance



Topography of Land



What is Cel-Fi PRO?

Improve voice and data coverage for 3G and 4G.

- Cel-Fi PRO improves 3G, 4G and LTE cellular service, eliminating dead zones and dropped calls across four (4) concurrent bands, Cel-Fi PRO covers up to 13,000 sq. ft. (approximately 1,200 m2) of indoor space per system.
- Cel-Fi PRO systems feature an LCD colour interface, are fully self-contained and self-configuring, and require no network backhaul, external antennas or wiring. Customers simply plug it in to boost indoor cellular coverage.
- If a signal is not available inside the building, then an external antenna or the Cel-Fi Pro X Cable adapter can be used to provide a more flexible solution.
- Cel-Fi-PRO is a third party solution sold by Vodafone's partner Net CS who sell the products and provide all after sales support.



A Cel-Fi Pro consists of 2 units the Network unit (NU) and the Coverage unit (CU). The NU receives the mobile signal, amplifies it and then sends it to the CU; (via wireless or optional Cable). The CU then broadcasts the mobile signal inside the building.



Cel-Fi PRO Features and benefits

Features



Clean and compact industrial design.



Integrated antennas.



End-to-end cellular communication encryption.



Unlocked to all devices.



Remote software update capability.



Engineering mode.

Benefits

Easy to install and set-up

Just plug it in and follow the visual feedback. No special tools or knowledge required.

Secure

Communicate securely through the encrypted wireless link.

Maximum spatial flexibility

The included mount allows for the system to be wall-mounted or ceiling mounted.

Wave mobile app

Allows registration, software updates and logs download.

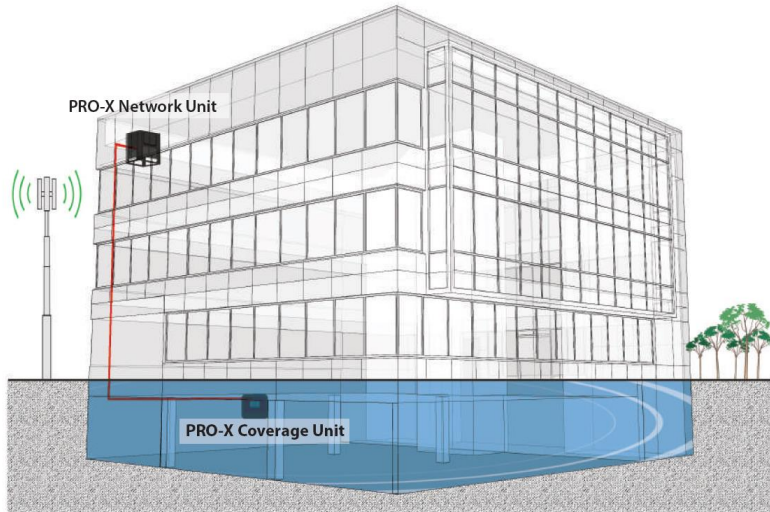
Technical Support

Allows technicians to collect information on site for support or configuration issues.



What is Cel-Fi PRO-X

An affordable solution to unfriendly cellular environments, connecting the units via a dedicated cable.



- The Pro-X is an accessory for the Pro
 - The Pro-X provides the ability to connect the network unit and coverage units together via a cable in the event that the building does not allow a wireless signal.
 - E.g. into a cellar/basement
- Cel-Fi PRO-X is a third party solution sold by Vodafone's partner Net CS who sell the products and provide all after sales support.



Cel-Fi PRO –X Features and Benefits

Features



Made exclusively for Cel-Fi PRO.

The device works with any existing Cel-Fi PRO, without any modifications to Cel-Fi PRO.

- No hardware or software changes required
- Tuned for maximum range
- Maintains look and feel of Cel-Fi PRO



Compatible with Mounting Brackets.

The Mounting Brackets that come with your Cel-Fi PRO may still be used.



No Additional Power Required.

All the Cel-Fi ProX components are passive.



Standard Cable & Connections.

Uses standard SMA male cable connectors and 50 ohm coax (40 dB maximum cable loss at 6Hz).



Easy to attach adapters.

The sleeve-style harness for the PRO Network Unit and Snap-On adapter for the Coverage Unit.

Benefits

Improved Voice & Data Coverage

The PRO-X is a Cel-Fi PRO accessory that enables clear and reliable voice connections within the coverage area (13,000 Sq. Ft / ~1,200m²).

Solves Difficult Installations

Allows a cabled connection between Cel-Fi Network and Coverage Units where the wireless link is not effective.

Extended Link Range

Up to 40 meters from Unit to Unit with LMR-200 cable. Longer ranges for lower loss cables are available.

Additional Installation Flexibility





Allows a range of new Cel-Fi PRO installation scenarios.

Maximizes Cel-Fi Pro performance

Cel-Fi system coverage performance is typically maximised when PRO-X is used.



Basic installation

Find the best mobile signal	Place the Network Unit (NU)	Place the Coverage Unit (CU)	Register Device
			
<p>Use your phone to find the best mobile signal. Typically you will get the best signal near a window.</p>	<p>Place the NU in the location where you get the best mobile signal.</p>	<p>Place the CU in the location where you need improved coverage.</p>	<p>Devices need to be registered before use via the Cel-Fi WAVE app. Once registered your CU will now provide mobile signal.</p>



For more information

- Nextivity have a number of channels where you can get more information

<https://www.youtube.com/user/celfibooster>

<https://plus.google.com/u/0/+Cel-fi>

<https://www.facebook.com/5bars>

- NET CS (our UK partner) have comprehensive information on their website

<https://shop.netcs.eu/>

- Cel-Fi-PRO is a third party solution sold by Vodafone's partner, Net CS. Vodafone doesn't sell the solution or provide any warranty or assurance in respect of it or its effectiveness in any particular environment. Customers need to satisfy themselves that it is suitable for their specific requirements before purchase."



Use Cases



Poor Internal signal present – Standard Office Environment

- Scenario

- Customer has signal outside building, or within a part of a building
- Clutter is standard office partitions

- Solution

- Standard Cel-Fi Pro



Poor signal around your building.

If you have at least one bar of mobile signal somewhere in your building, then the Cel-Fi Pro can enhance and extend this into 4 or 5 bars across to the areas where you currently don't have signal. Simply plug and play, register the device, and you are away.

[BUY NOW](#)



External but no Internal signal present

– Standard Office Environment

- Scenario

- Customer has signal outside building, or within a part of a building
- Clutter is standard office partitions

- Solution

- Standard Cel-Fi Pro
- Will require external panel antenna or in extreme circumstances a directional antenna

Panel Antenna

Directional Antenna



Internal signal present – Non Standard Clutter

- Scenario

- Customer has signal outside building, or within a part of a building
- Building construction does not allow wireless

- Solution

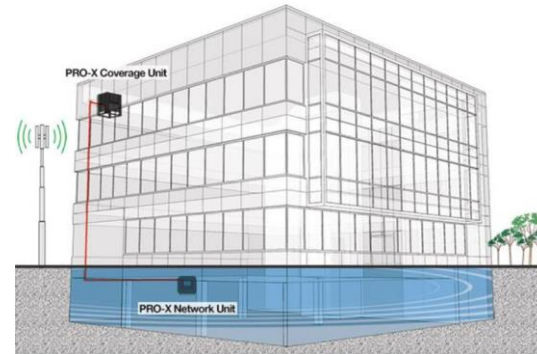
- Cel-Fi Pro and
- Cel-Fi Pro X



Cel-Fi pro



Cel-Fi Pro X



Large distance between units or obstructing concrete walls or floors.

Because the Cel-Fi Pro relies on 5GHz wireless technology for the Network and Coverage Units to "talk" to each other, if the distance between them is too large, or obstructed by concrete or metal obstructions, you may prefer to run a cable between the two. The Pro-X accessory and cable enables this – up to 40 metres.

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External signal present – Non Standard Clutter

- Scenario

- Customer has signal outside building, or within a part of a building
- Building construction does not allow wireless

- Solution

- Cel-Fi Pro and
- Cel-Fi Pro X
- Panel or directional antenna



Panel Antenna



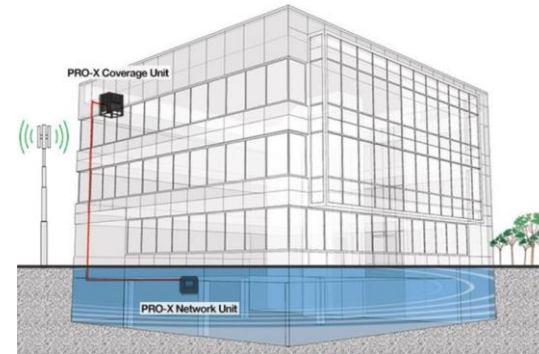
Directional Antenna



Cel-Fi pro



Cel-Fi Pro X



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