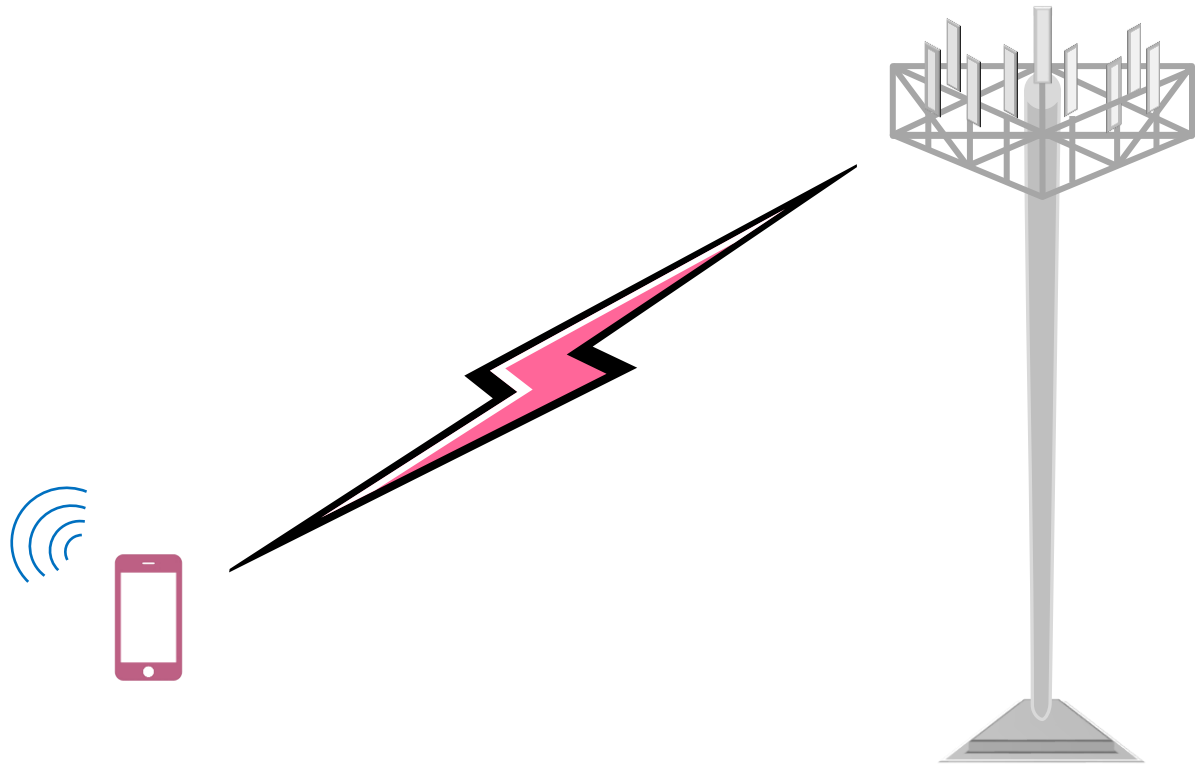


# Fixed Wireless Access (FWA)

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# Creating Wi-Fi Hotspot

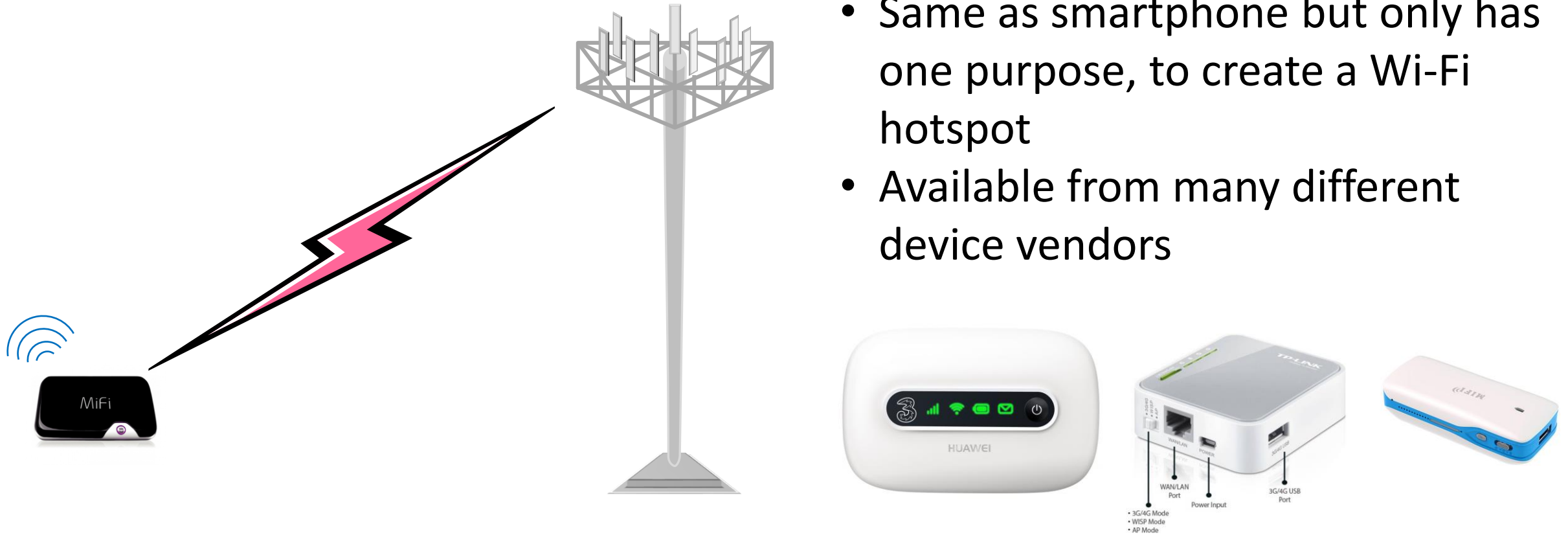
---



- Any modern smartphone (iPhone or Android) can be turned into a WiFi hotspot.
  - A.k.a. Wi-Fi tethering
- Smartphones are generally suitable for such activity for limited duration due to:
  - Plans not suitable for tethering
  - Device not available for calls, etc.
  - Battery life is limited
  - Hotspot coverage area is limited

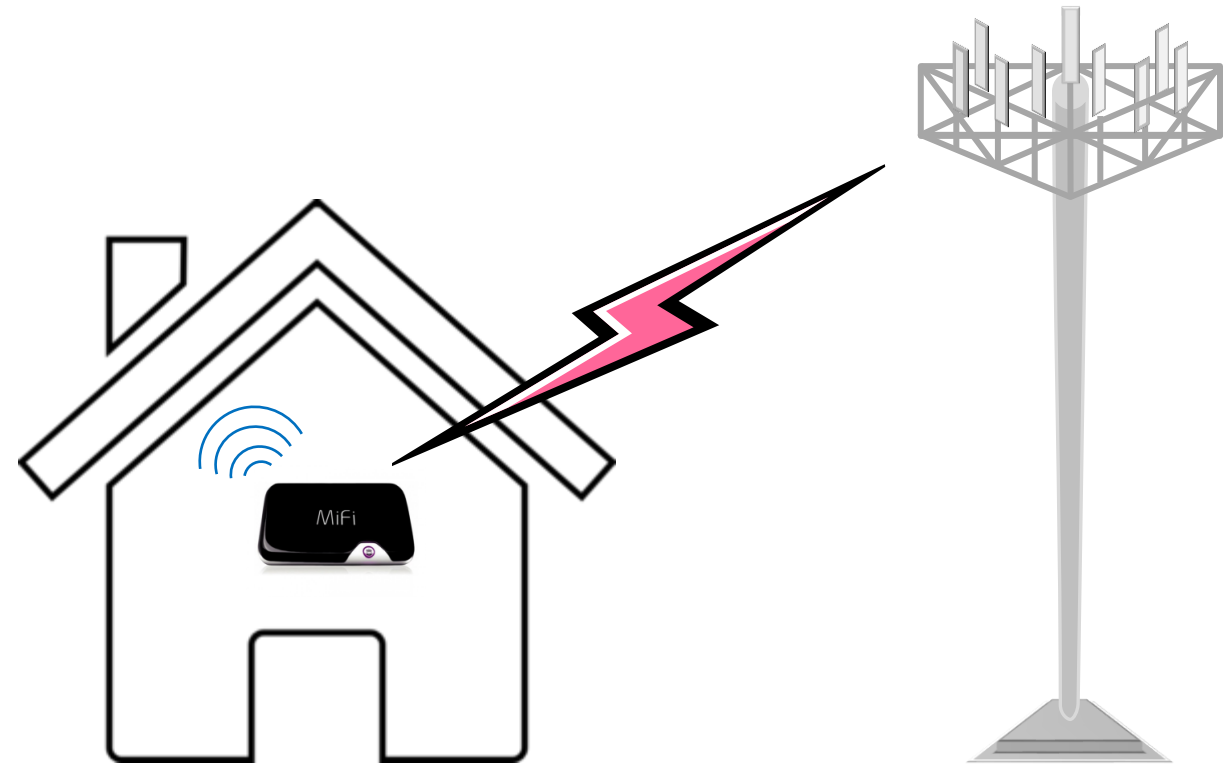
# Creating Wi-Fi Hotspot with MiFi

- MiFi is brand name for Mobile Wireless Router
- Same as smartphone but only has one purpose, to create a Wi-Fi hotspot
- Available from many different device vendors



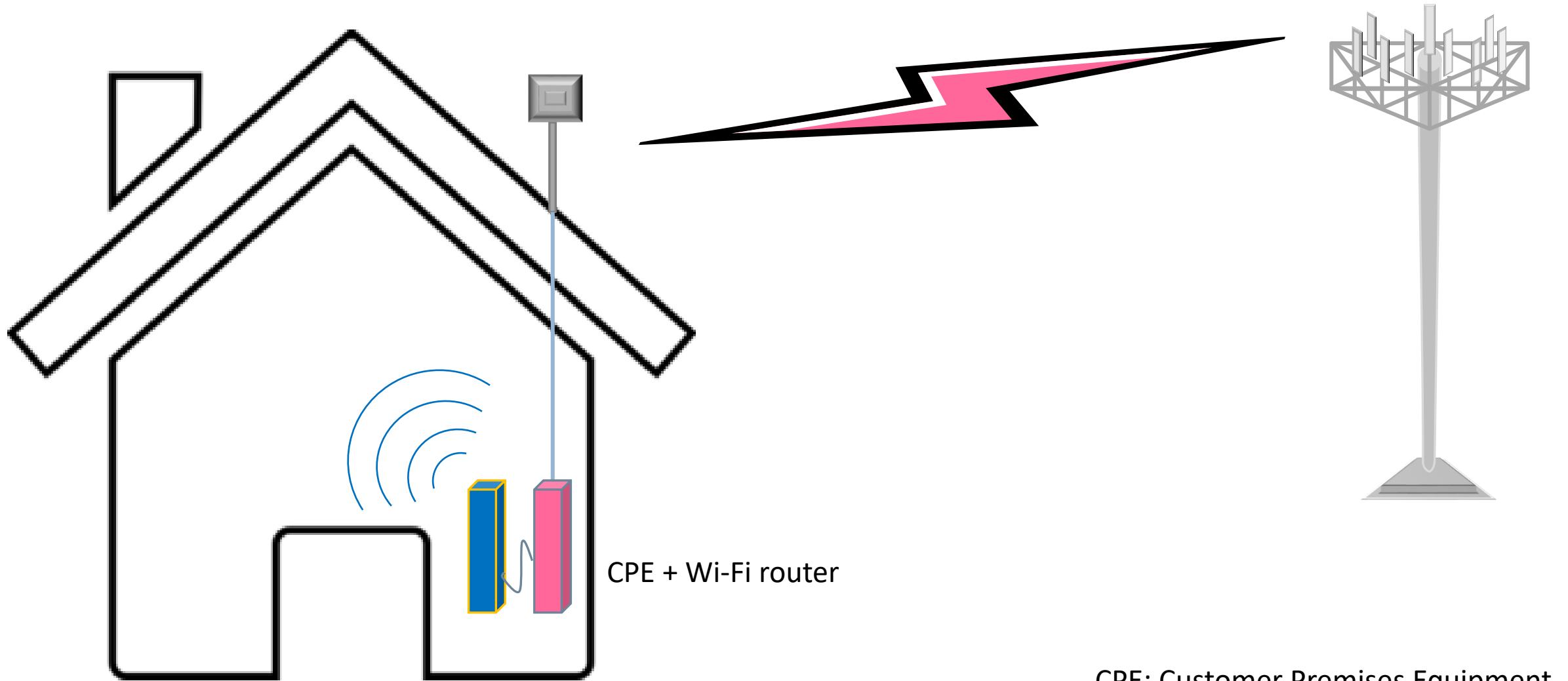
# Creating Wi-Fi Hotspot Indoors

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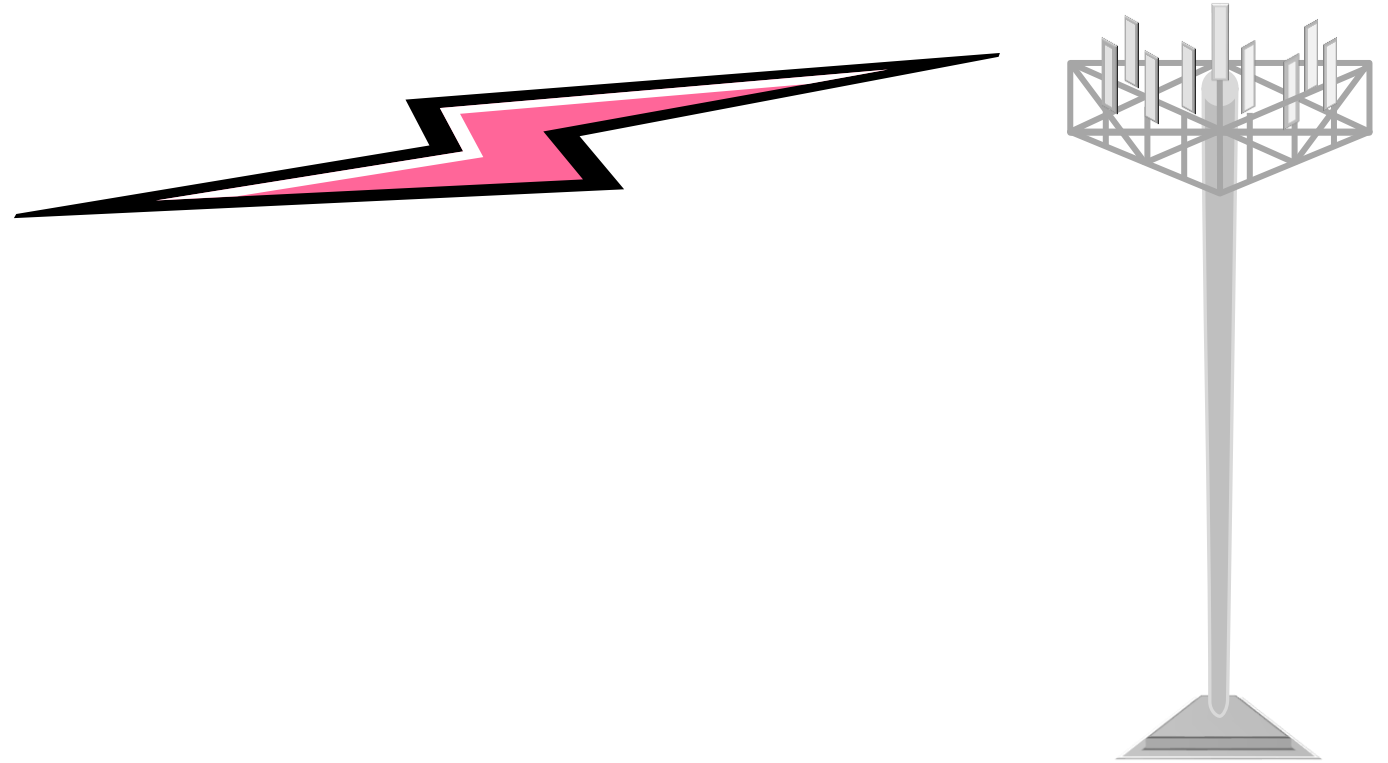
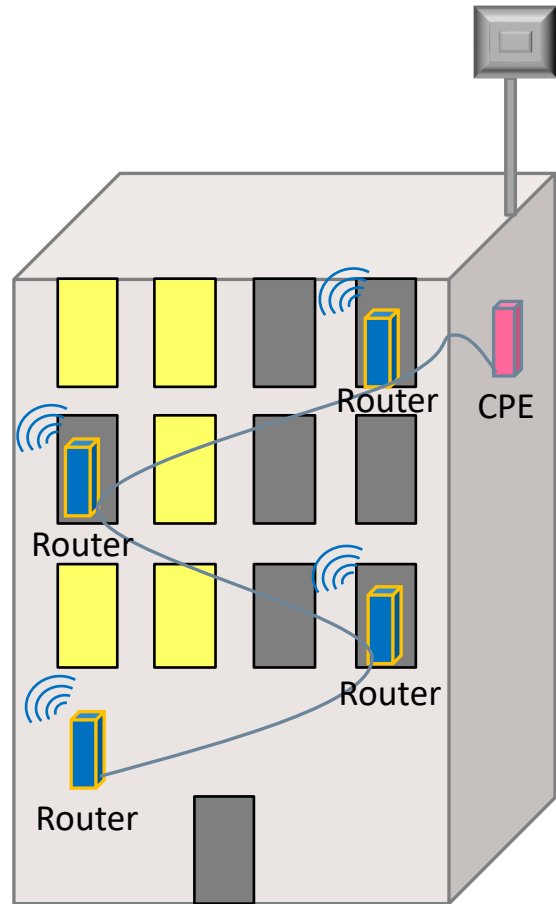


- You can create a Wi-Fi hotspot indoors with smartphone or MiFi devices.
- Its not the best approach because:
  - Mobile signal attenuates when going through walls
  - Smartphones / MiFi devices are only good for small coverage areas
  - For large coverage areas, proper Wi-Fi routers are required

# Fixed Wireless Access (FWA): Indoor



# Fixed Wireless Access (FWA): In-building



# Example Pictures of Fixed Wireless Access (FWA)

## 5G for FWA (Fixed Wireless Access)

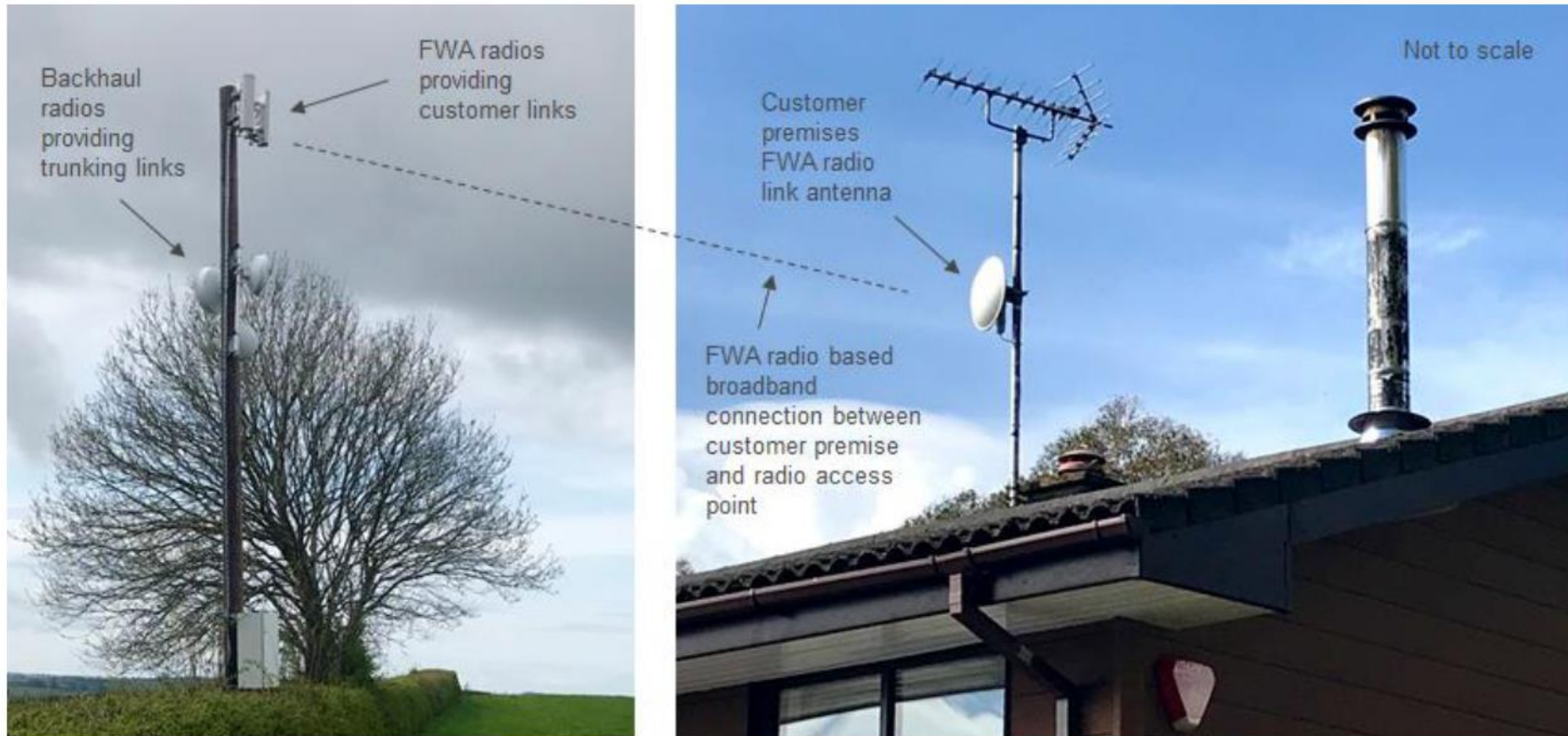
Market



Source: [Open PR](#)

# Example Pictures of Fixed Wireless Access (FWA)

Figure 3.1: 5.8 GHz FWA installation showing radio access point and customer antenna



Source: Plum



# Further Reading

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- High performance wireless broadband: an opportunity for rural and enterprise 5G – Plum Consulting ([link](#))
- Ericsson Technology Review: Fixed Wireless Access in LTE and 5G ([link](#))
- PC Mag: Samsung Shows Off Latest Verizon 5G Home Modems ([link](#))
- Orange Romania: 1st European 5G multi-vendor Fixed Wireless Access test ([link](#))
- Verizon: Putting 5G to work ([link](#))
- Ericsson Technology Review: Fixed wireless access on a massive scale with 5G ([link](#))

# Thank You

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