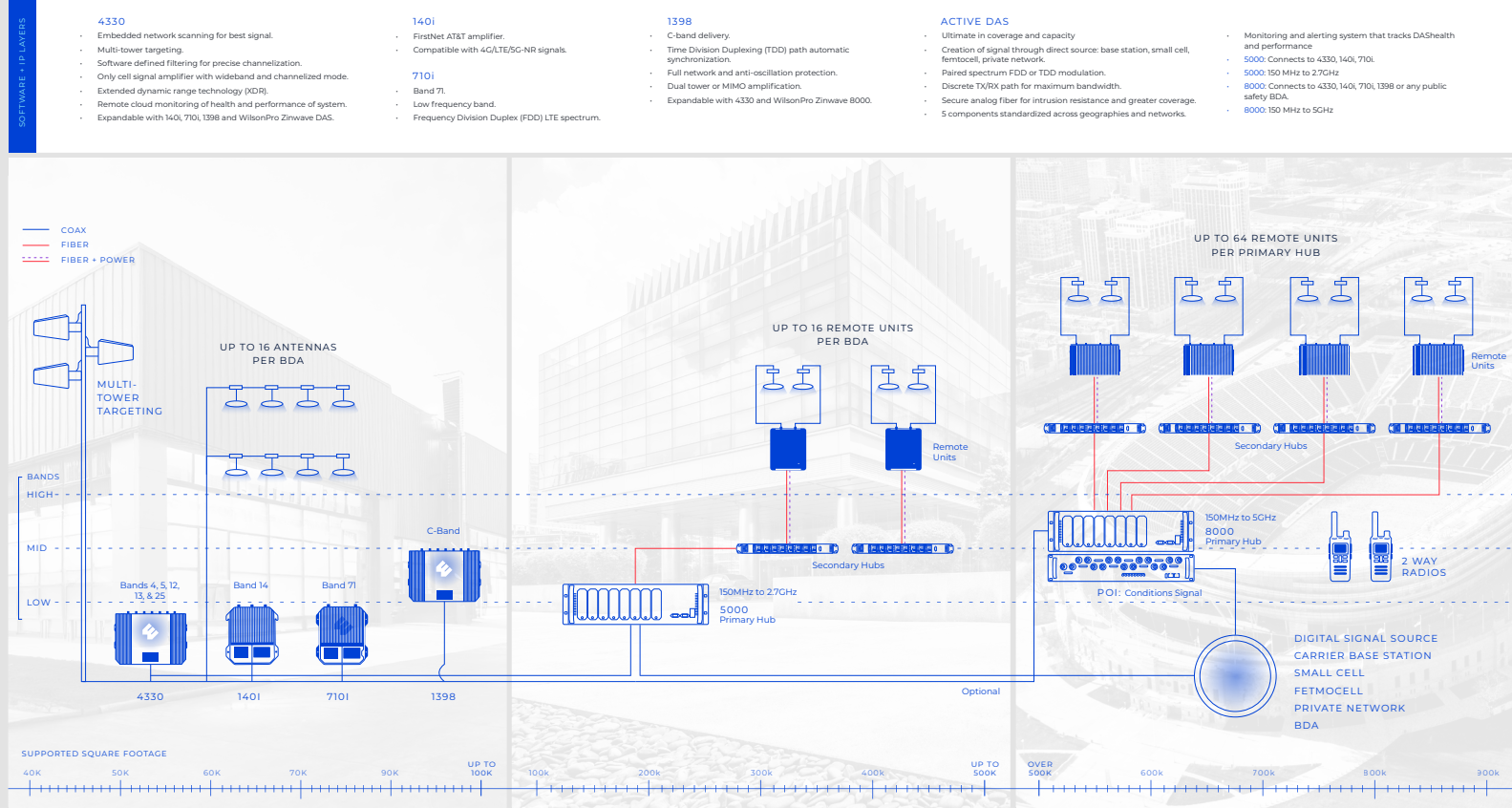# Wilson Connectivity Connected Architecture
How does it work?

CONNECTED ARCHITECURE: A modular scalable foundation that makes it easier to be ready for future bands and technologies.

4330
- Embedded network scanning for best signal.
- Multi-tower targeting.
- Software defined filtering for precise channelization.
- Only cell signal amplifier with wideband and channelized mode.
- Extended dynamic range technology (XDR).
- Remote cloud monitoring of health and performance of system.
- Expandable with 140i, 710i, 1398 and WilsonPro Zinwave DAS.

140i
- FirstNet AT&T amplifier.
- Compatible with 4G/LTE/5G-NR signals.

710i
- Band 71.
- Low frequency band.
- Frequency Division Duplex (FDD) LTE spectrum.

1398
- C-band delivery.
- Time Division Duplexing (TDD) path automatic synchronization.
- Full network and anti-oscillation protection.
- Dual tower or MIMO amplification.
- Expandable with 4330 and WilsonPro Zinwave 8000.

ACTIVE DAS
- Ultimate in coverage and capacity
- Creation of signal through direct source: base station, small cell, femtocell, private network.
- Paired spectrum FDD or TDD modulation.
- Discrete TX/RX path for maximum bandwidth.
- Secure analog fiber for intrusion resistance and greater coverage.
- 5 components standardized across geographies and networks.

- Monitoring and alerting system that tracks DAS health and performance
- 5000: Connects to 4330, 140i, 710i.
- 5000: 150 MHz to 2.7GHz
- 8000: Connects to 4330, 140i, 710i, 1398 or any public safety BDA.
- 8000: 150 MHz to 5GHz

PASSIVE DAS diagram labels:
- COAX
- FIBER
- FIBER + POWER
- UP TO 16 ANTENNAS PER BDA
- MULTI-TOWER TARGETING
- BANDS HIGH / MID / LOW
- C-Band
- Bands 4, 5, 12, 13, & 25
- Band 14
- Band 71
- 4330 / 140I / 710I / 1398

HYBRID DAS diagram labels:
- UP TO 16 REMOTE UNITS PER BDA
- Remote Units
- Secondary Hubs
- 150MHz to 2.7GHz 5000 Primary Hub
- Optional

ACTIVE DAS diagram labels:
- UP TO 64 REMOTE UNITS PER PRIMARY HUB
- Remote Units
- Secondary Hubs
- 150MHz to 5GHz 8000 Primary Hub
- 2 WAY RADIOS
- POI: Conditions Signal
- DIGITAL SIGNAL SOURCE, CARRIER BASE STATION, SMALL CELL, FETMOCELL, PRIVATE NETWORK, BDA

SUPPORTED SQUARE FOOTAGE
40K 50K 60K 70K 90K UP TO 100K | 100K 200K 300K 400K UP TO 500K | OVER 500K 600K 700K 800K 900K

PASSIVE DAS

- A Passive Distributed Antenna System (DAS) uses outside antennas to bring signals into a bi-directional amplifier (BDA)

- Amplified signals are distributed through coaxial cable and inside antennas

- Can amplify all signals for all carriers, or by channel

- Easily add additional bands, including 14, 71, and C-Band

HYBRID DAS

- Uses outside antennas to bring signals into a primary hub

- Amplified signals are sent through fiber to secondary hubs and up to 16 remote units per BDA

- Amplified signals are distributed through inside antennas

- Radio frequency (RF) over fiber has less signal loss over longer distances and better protection from interception

ACTIVE DAS

- Uses signal from any direct radio frequency (RF) source to feed into a primary hub

- Amplified signals are sent through fiber to secondary hubs and up to 64 remote units per primary hub

- Amplified signals are distributed through inside antennas

- Direct radio frequency (RF) source and RF over fiber enable secure signal distribution at critical scale

- Fewest components and the addition of all usable bands and public safety