

CORNING

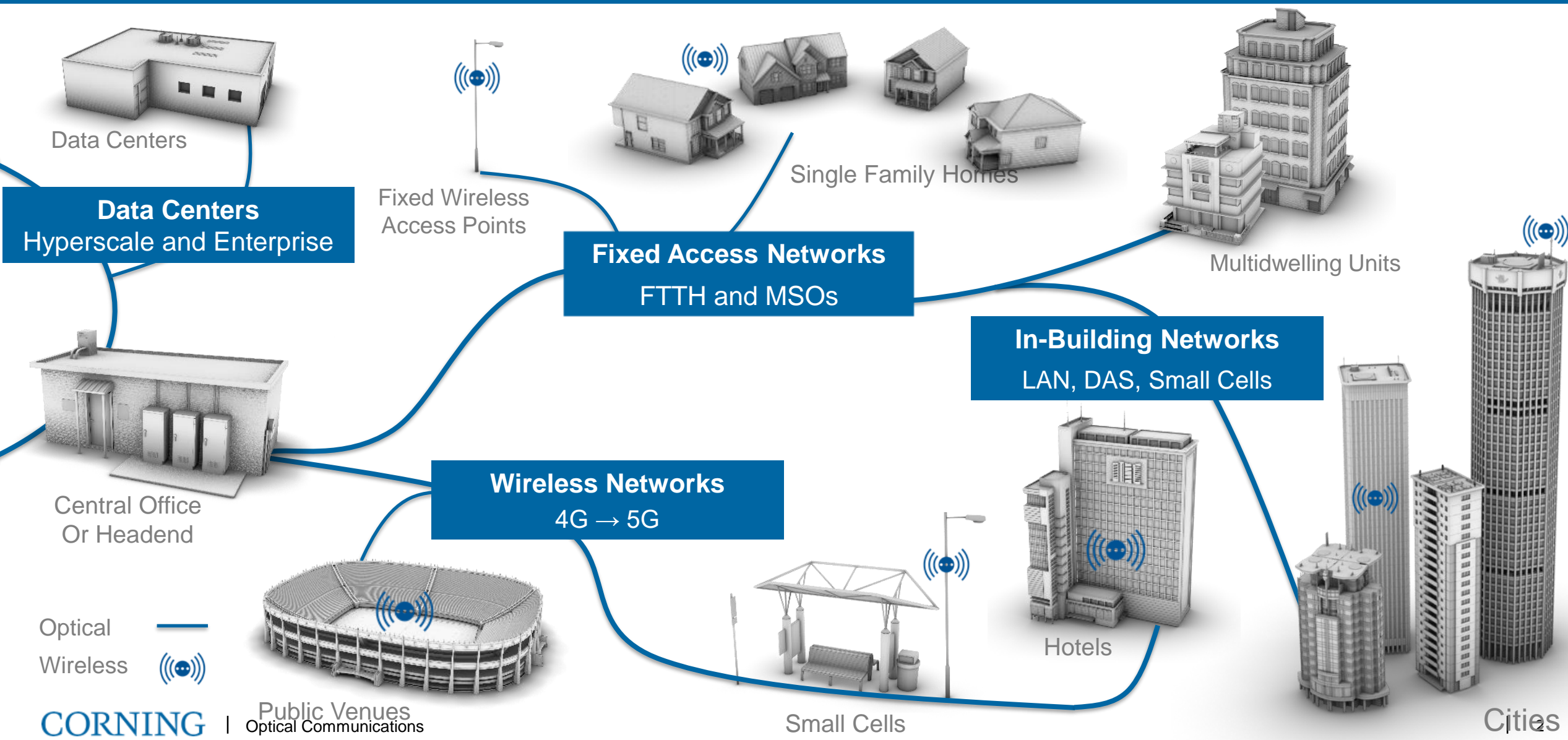
In Building Neutral Host

New Solutions to Meet the Challenge

12 May 2021



Corning's fiber solutions are the foundation for modern networks



We depend upon in-building network technology more and more...



It's Time to Design the Network Differently...



Communication networks
are changing rapidly.



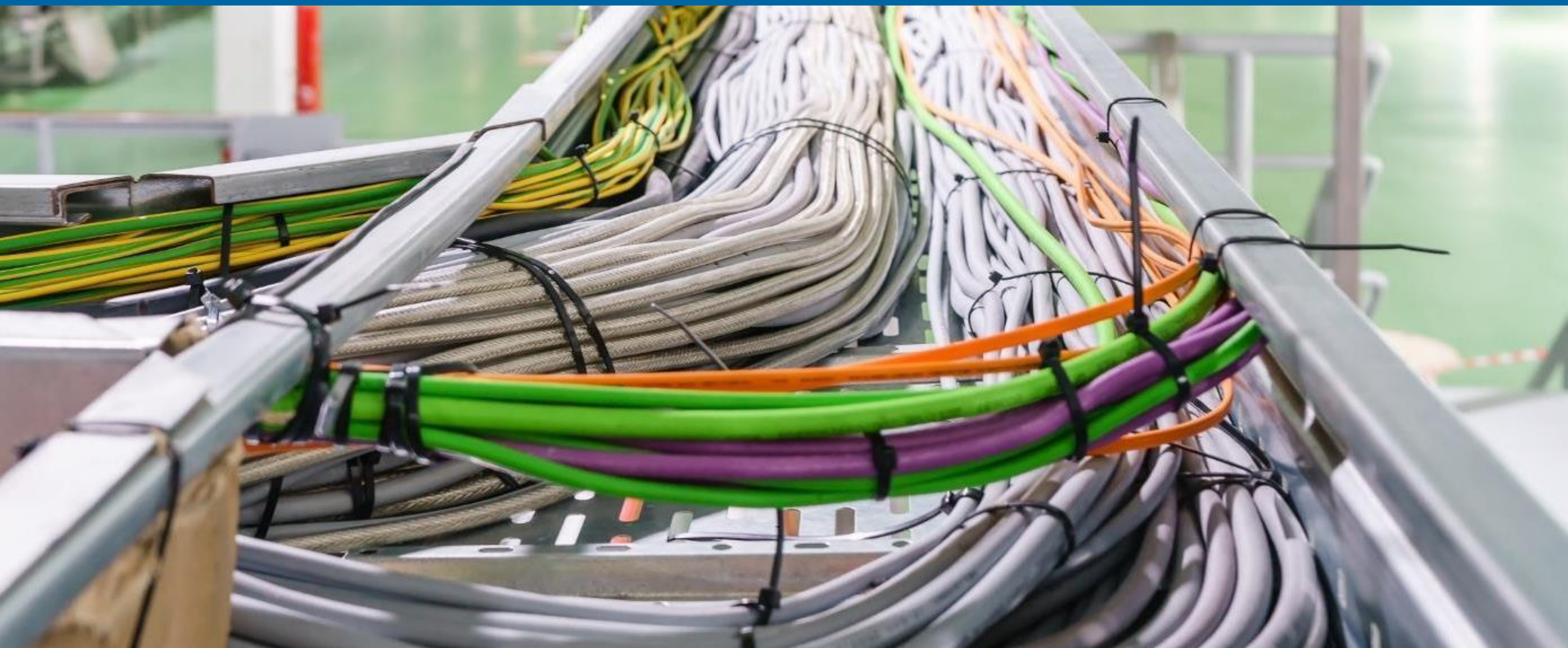
Traditional network
design will be cost
prohibitive and will not
satisfy the needs of users
in the future.



Corning has a better way
to design more capable
networks and save 30%
on the initial build and
50% on future technology
upgrades.



We can do better than this!



And save cost, time, space while being ready for the future!



Corning brings all the pieces to the table including DAS and Small Cell

DAS is Great for Neutral Host...

- Shared infrastructure for multiple operators
- Supports multiple frequency bands
- Supports multiple technologies
- Works with any capacity source

But DAS is...

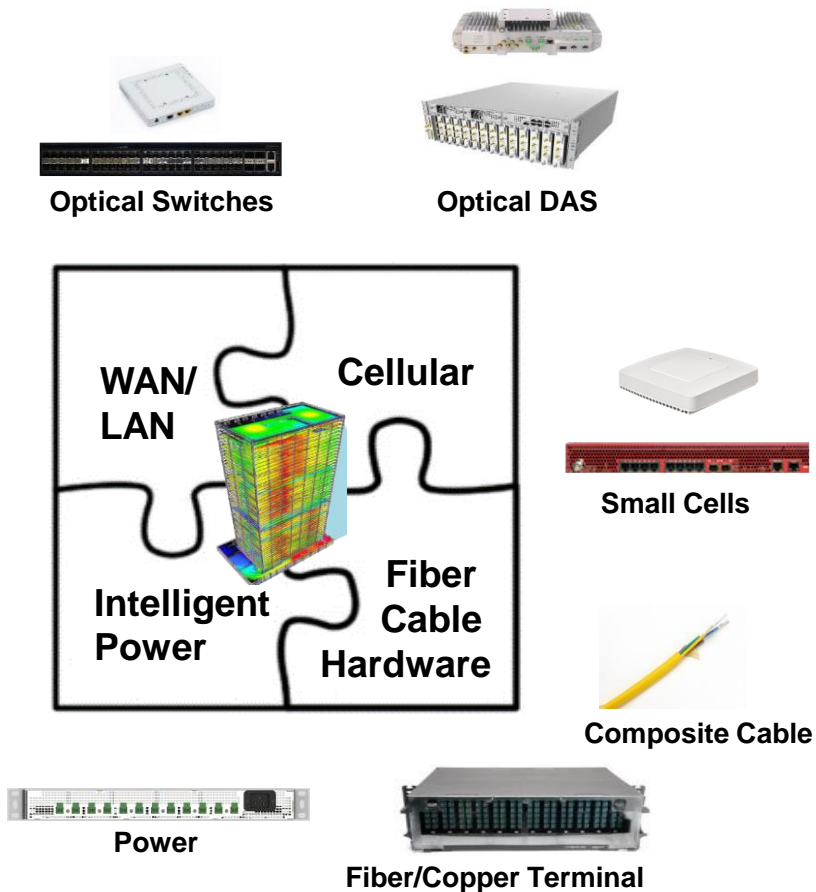
- Useless without signal sources
- Complex coordination with all parties

Small Cells are Great...

- WiFi like deployment on existing LAN or fiber LAN
- Full sector of capacity at each radio node
- Full end to end operator insight & management

But Can Be Challenging for Neutral Host...

- Single operator so requires parallel layers
- Fixed technology at the edge
- Same RAN solution may not be approved for every operator
- High sector count can be a concern to operators
- Can be expensive to scale operators, bands, technologies, etc.



What is Everon™ 500?

The Best of DAS and the best of Small Cell integrated into one

This is a cost-effective, breakthrough solution for buildings, starting at under 100,000 sq. ft., with multioperator requirements:

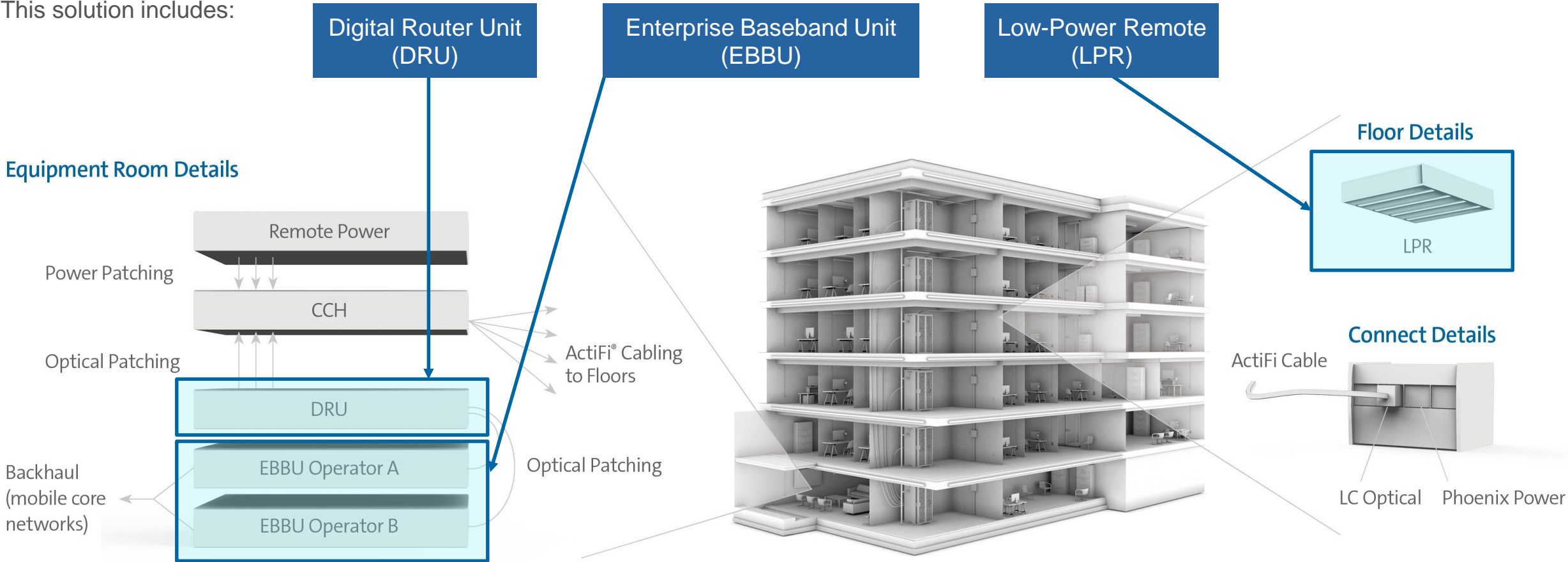
- **Provides total enterprise friendly end-to-end solution**
 - integrated centralized cellular signal sources, IP backhaul
 - remote power and composite cabling to support the future
 - neutral host, technology agnostic signal distribution
- **Minimizes risk and wait time for operator “connection”**
 - integrated, *operator-approved* signal source eases acquisition issues and on-air delays
- **Simplifies installation**
 - minimal need for rack capacity, electricity, and HVAC in the headend
 - cabling can be installed by any licensed low-voltage electrician
- **Ready to accommodate new technology such as 5G**



Everon™ 500 System Overview

This solution includes:

Equipment Room Details



Enterprise Baseband Unit (EBBU)

One EBBU per Operator

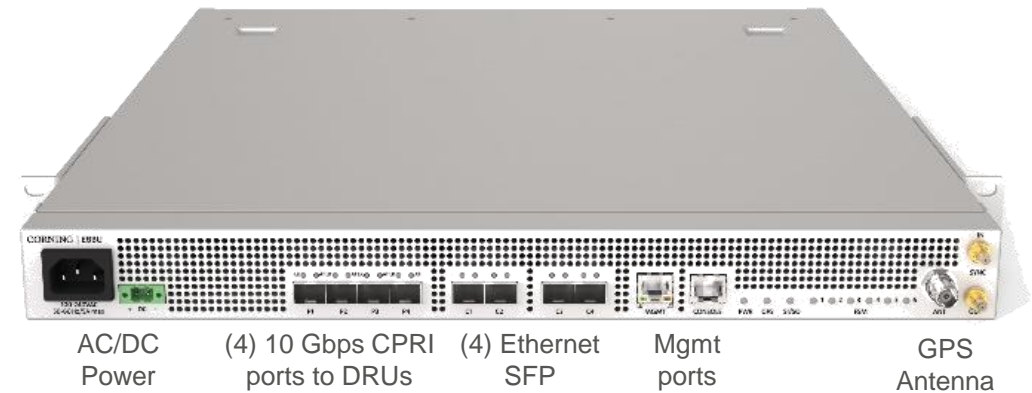
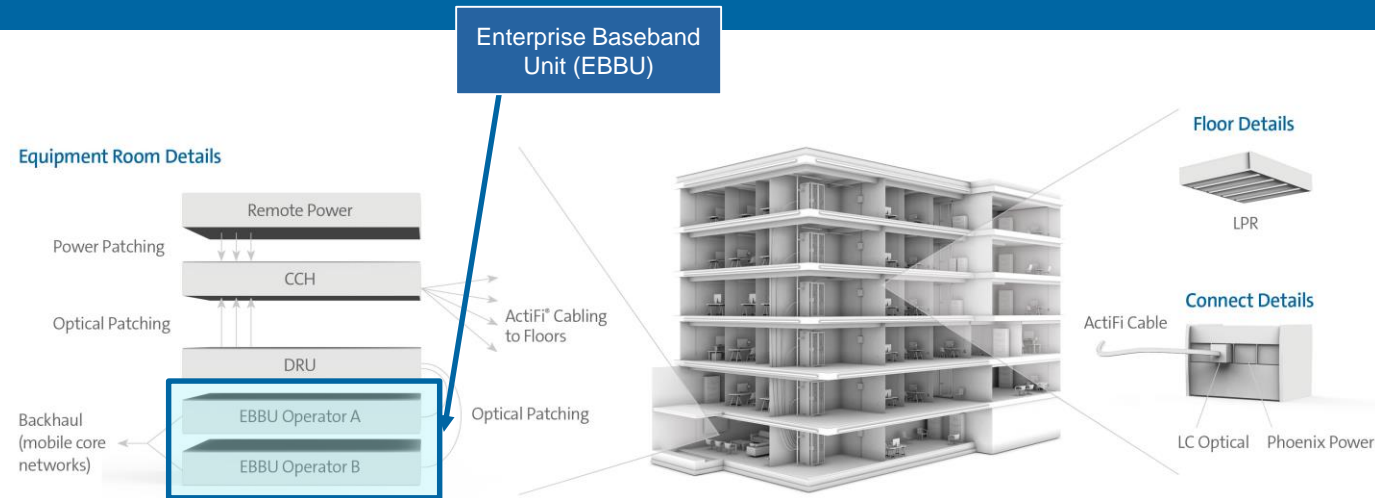
- 4G cellular signal source

EBBU Interconnects

- IP/IPSec connection to mobile core network via internet or private network
- CPRI optical connection to multiple digital router units (DRU)

EBBU Cellular

- Generates up to twelve 20 MHz LTE 2T2R cell signals
- Cellular band agnostic: radio signals are managed at each low power remote (LPR)



Digital Router Unit (DRU)

Neutral Host Interconnect

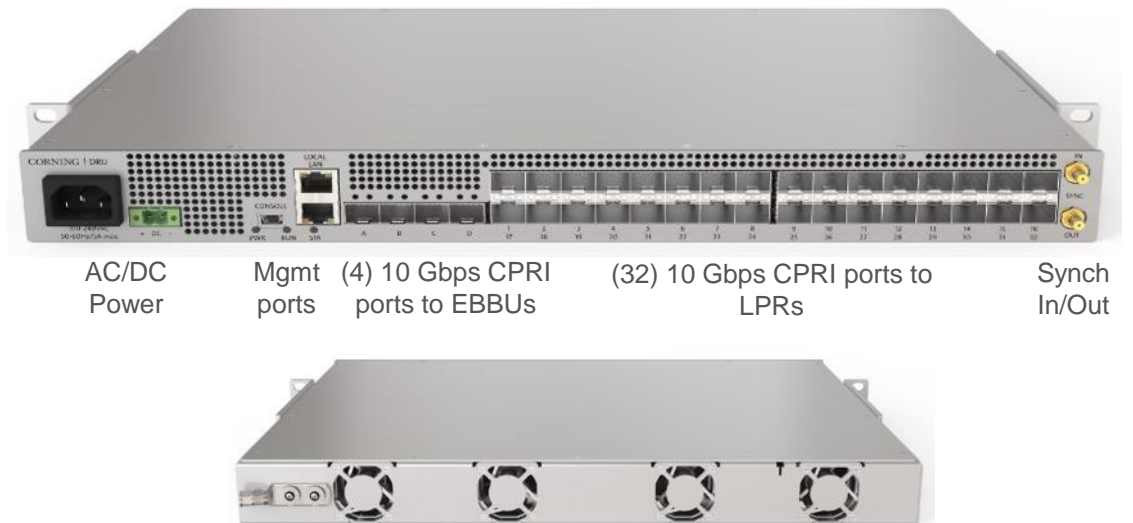
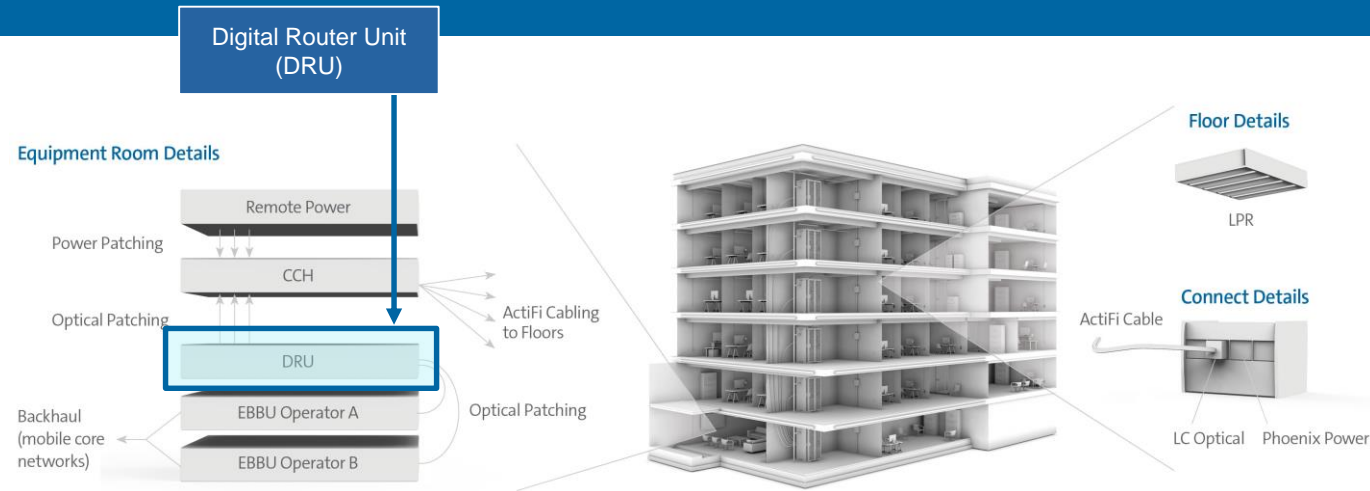
- Routes EBBU signals to/from all low-power remotes (LPR)

DRU Interconnects

- 10 Gbps CPRI optical to EBBU and up to 32 attached LPRs

DRU Cellular

- Orchestrates the sector and band plan
- Aggregates and routes signals between EBBU and LPRs
- Operator agnostic



Low-Power Remote (LPR)

LPR Is the Radio at the Edge of Everon™ 500

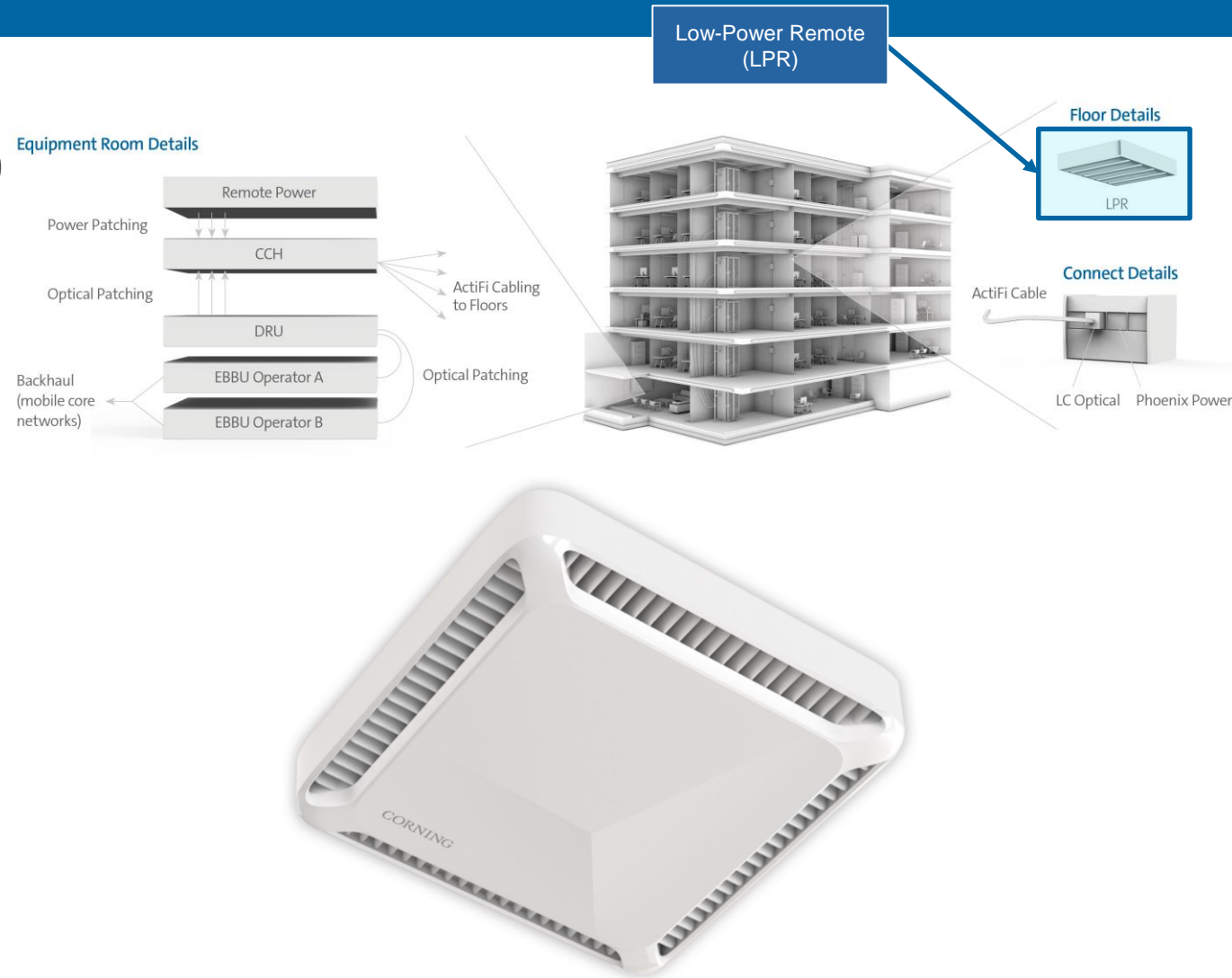
- Ceiling or wall mounted
- Designed to fit into visual aesthetics of most buildings

LPR Interconnects

- Powered over ActiFi® composite cable
- 10 Gbps optical CPRI

LPR Cellular

- Provides coverage to about 5k sq. ft.
- Up to six 2T2R channels can be configured across three bands
- Operator and technology agnostic



Everon™ 500: Merges the best of Neutral Host DAS & Small Cell!

