Verizon’s Network Evolution

Leveraging technologies of the future

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What Is Verizon’s NEVO Program?

Network Evolution Is

• A way to leverage the latest technology to serve our **existing** and **future** customers
  – Deliver current services with better reliability
  – Maintain or reduce the cost to the customer
  – Position the network for future demands

Network Evolution Is Not

• The IP transition
• A way to charge customers more money
• Anti-competitive
• The end of copper
Customers Are Fleeing Older Technology …

70% of copper lines have vanished.
Customers have more choices than ever.
Traditional Verizon Consumer Neighborhood
Traditional Verizon Consumer Neighborhood

- >30% already cut the cord
- 60% bundle

If there are alternative facilities, why maintain copper?
Fiber Runs Parallel To Existing Copper
The copper network currently runs from the CO to the customer location carrying traditional telephone signals.

Signals are converted to light in the CO. The light is delivered over the fiber optic cable.

The ONT is inside or outside the home and plugs into an electrical outlet. A back-up battery is provided in the event of a power outage.

The light is converted back to a traditional signal at the customer’s location by an ONT.

The customer’s IW is connected to the ONT.

Over 600K customers now better served
What Happens In Copper-Only Areas?

Not everyone has access to fiber
Copper-Fed Home Configuration

The copper network currently runs from the CO to the customer location carrying traditional telephone signals.

1. The new device is installed in the customers home in a spot with the best wireless signal.
2. The inside wire is isolated from the OSP at the NID
3. The device is plugged into a jack connected to the rest of the in-home network, thus “backlighting” the entire house.
4. The customer’s number is ported to the new device.

Wireless-Fed Home Configuration

VZ Central Office

Over 6K customers moved to date
Why is NEVO necessary?
- Customer demands are changing rapidly
- Increased investment in the latest technologies is required, not elective

Where do we go from here?
- Regulation needs to keep pace with the marketplace
- We need a level playing field
- Investment should be encouraged
- Alternatives need to be explored