Route Diversity – Verified and Simple

From hidden risk and tool sprawl to one network, one view, and diversity you can prove

One network. One view. Diversity you can prove.

Buying wavelengths from two providers was never proof of physical separation. Even truly diverse Day-1 paths drift back into shared risk as networks are groomed, rerouted, and expanded. You rarely discover the overlap during procurement. You discover it during an outage.

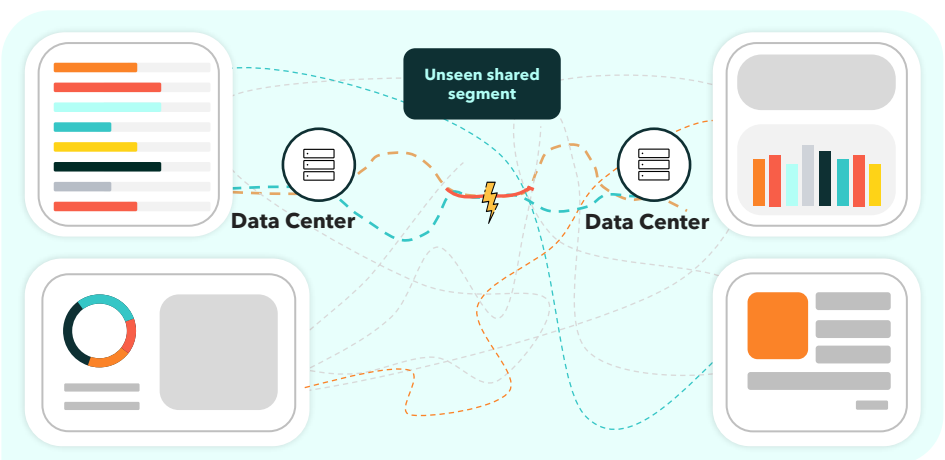
But there's a second problem hiding behind the first: In a multi-vendor environment, checking whether you still have diversity is hard. Every provider brings its own portal, its own data, and its own support model so the proof you need can be scattered across tools that don't talk to each other. The more vendors you add in the name of diversity, the harder verification may become.

More vendors. More tools. Less visibility.

The multi-vendor model can multiply operational overhead. Each provider you add to seek diversity adds another portal to log into, another data set to reconcile, and another support queue to chase during an incident. Tool fragmentation grows, coordination fatigue sets in, and the single most important question "are my routes still diverse" gets harder to answer, not easier.

Where complexity can creep in:

- Tool fragmentation – a separate portal per vendor, with no unified view.
- Visibility gaps – no single tool sees the full physical path end to end.
- Coordination fatigue – every change means reconciling multiple parties.
- Vendor sprawl – more contracts and SLAs mean more seams where overlap hides.
- Shared restoration paths stay invisible, because no one tool sees across vendors.



And these problems can compound.

As infrastructure velocity climbs AI density, east-west traffic growth, constant grooming of the gaps do not allow them to remain steady. They can widen. The market is already feeling it:

52% face staffing challenges as network complexity grows

73% expect to replace their monitoring / troubleshooting tools

only **32%** are completely satisfied with their network monitoring and troubleshooting tools

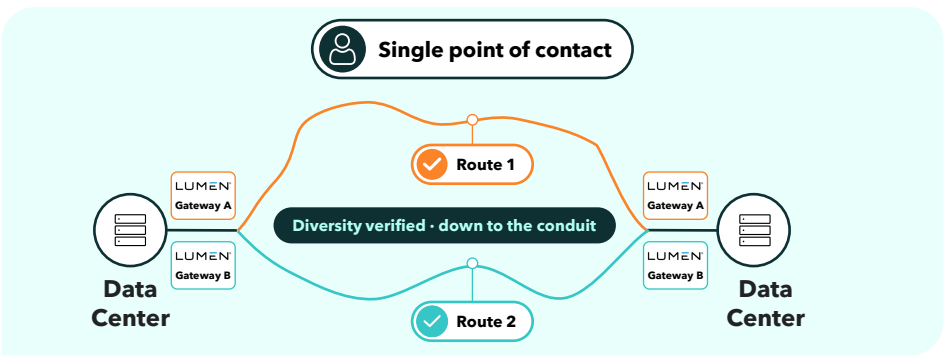
Source: Enterprise Management Associates (EMA), Network Management Megatrends 2026, survey of 352 IT professionals.

One provider. One view. Diversity made simple.

Lumen Dual Path Wavelengths brings this single-provider model to life: two independent, physically diverse 100G or 400G wavelengths between your sites, both active at full bandwidth. Lumen validates the routes before turn-up and proactively monitors them—giving you verified diversity without managing a second provider.

Where Lumen restores visibility:

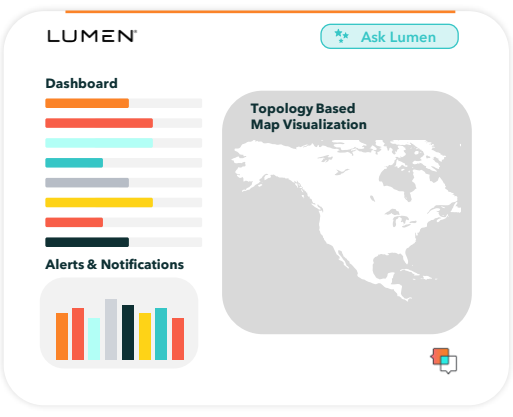
- One portal replaces many – all paths in a single view.
- Physical separation documented down to the conduit, not assumed.
- Continuous validation as the network evolves – not a one-time Day-1 snapshot.
- One owner accountable end to end – no seams for hidden overlap to hide in.



Lumen is your partner, not just another vendor.

Lumen isn't just another line on your vendor list, we own and operate the fiber your traffic rides on, so that means we can stand behind what we show you. We don't ask you to take diversity on faith or reconcile it yourself across a wall of dashboards. We engineer it in, prove it down to the conduit, which enables us to continue proving it for the life of the service. That's the difference between a supplier and a partner: accountability you can see.

See how Lumen validates diversity – explore the tools, the portal, and the proof.



- Single portal with AI-driven visibility and control
- GenAI service diagnostics
- 380+ powerful workflow automations
- Dual gateways per market with diverse routes engineered into the design
- Proactive failover for seamless disaster recovery
- Native optical-layer encryption with dynamic key rotation; each wavelength is a physically isolated circuit

Why Lumen

Market leadership, proven at scale.

As the **#1** wavelength services provider in the U.S., recognized as a four-time leader by Vertical Systems Group and **ranked #1** in the Frost Radar for Wavelength Services, Lumen delivers proven expertise. Underpinning it all is North America's largest ultra-low-loss intercity fiber network, fully owned and operated end to end by Lumen, delivering the control, visibility, performance, and validated diversity required for infrastructure assurance.

Explore Lumen Dual Path Wavelengths. Two active routes. One provider.

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