

# Shaping all that connects us

## Broadband Anyhaul designed for your 5G world

Tectonic changes in many technologies are taking place and shaping the networks of the future. There's an urgent need to invest in the right network and transport capabilities to realize the possibilities of 5G and the Internet of Things (IoT). That's why Nokia has created Broadband Anyhaul, part of the Nokia 5G Anyhaul solution.

## How Broadband Anyhaul innovates

### Efficiently building on existing networks

Broadband Anyhaul uses existing fixed broadband networks to efficiently transport mobile traffic.

### Scaling with your network growth

As mobile networks evolve to deliver higher speeds, the number of small cells will continue to increase. High density, high capacity fiber broadband provides small cells with backhaul connectivity that will scale in line with mobile network growth.

### Slashing the cost and time to market

Using existing network architecture means there's none of the cost associated with building a dedicated transport network. Automated provisioning of mobile cells is simple and fast.

## It's a small step for fixed, but a giant leap for mobile.

### High performance for your 5G world

Next-generation fiber broadband networks and software defined networking support the demanding bandwidth and latency requirements of 5G Anyhaul.

## The role of Broadband Anyhaul

### Perfectly matching footprint

Take advantage of the fiber initiatives for 5G Anyhaul and create a base for efficient synergies.

### Intelligent network

Realize cost benefits by delivering residential, business and mobile transport services on the existing broadband network.

### Differentiated service delivery

Tailor network slices and intelligent traffic engineering to support service-specific requirements on a converged network.

### Agile software

Introduce new capabilities quickly, increase network performance and deployment speed with software defined access networks (SDAN).

## How Broadband Anyhaul rises to 5G Challenges

### Technical

**Q.** How do I handle the mix of demanding 5G requirements?

**A.** Nokia was first to show how Broadband Anyhaul meets 5G requirements for coverage, bandwidth, latency, quality of service (QoS), automation and synchronization.

### Cost

**Q.** How can I cost-effectively upgrade my mobile transport network to cope with traffic increases?

**A.** Broadband Anyhaul utilizes existing fiber networks and access nodes to minimize mobile transport costs.

### Investment

**Q.** How do I minimize investment in next-generation fiber technology?

**A.** Nokia's market-leading Next-Generation Passive Optical Network (NG-PON) solution offers an easy migration path and gradual investment scheme.

### Service

**Q.** How do I ensure QoS through high-traffic converged networks?

**A.** Broadband Anyhaul enables dynamic network slicing and intelligent traffic management, allowing mobile transport to access the network resources it needs.

### Business

**Q.** How do I launch new mobile services faster than my competitors?

**A.** By exploiting existing residential networks, Broadband Anyhaul delivers rapid time to market: rollout, provisioning, service activation, more.

## Performance in numbers

# 50%

### Cost-cutting simplicity

Using existing broadband networks can decrease the cost of mobile transport by 50%.

Source: Nokia Bell Labs

# 10x

### Limitless scalability

Fiber broadband networks are built to support 10x the density of 5G, so they can easily absorb additional cell site connections.

# 25G

### The future of performance

Next-generation fiber technologies can boost capacity to 10G. Soon, that figure will reach 25G.

# 1 day

### Time on your side

Using Broadband Anyhaul, a tier-1 operator has decreased provisioning from three weeks to one day.

## Transform with Broadband Anyhaul

### Move ahead of your competition

Get to market faster with Anyhaul that uses existing infrastructure and enables fast massive rollout.

### Deliver services intelligently

Meet 5G requirements with advanced traffic management capabilities on a high-capacity, high-density and low-latency network.

### Accelerate network monetization

Reduce the payback time of all involved programs with co-investment across residential, business and mobile transport.

### Increase performance through automation

Improve operational efficiency, security and the delivery of new services with the centralized cloud architecture of SDAN.

## What's next for your network?

The arrival of 5G means transport networks must deliver more capacity with fewer delays. CSPs need an innovative fiber transport solution capable of controlling costs, minimizing time to market, and delivering the bandwidth and latency requirements of 5G. Broadband Anyhaul is designed for your 5G world, helping you make 5G a reality – faster.

Let Nokia Broadband Anyhaul take you to 5G – and further.

[Read brochure](#)

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