



NOKIA

Fiber portfolio for
a new generation
of broadband

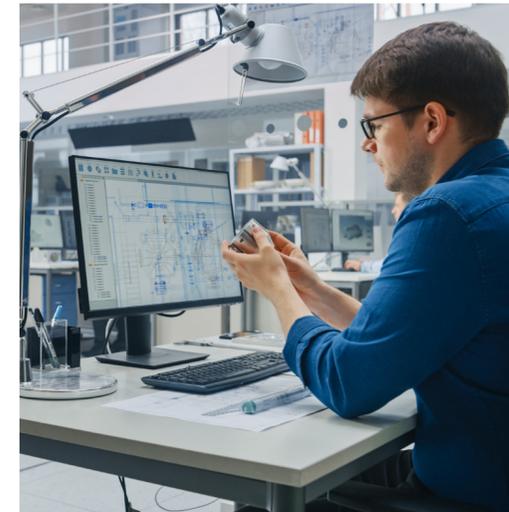
Fiber-to-the-home becomes Fiber for Everything

Fiber is the fastest and greenest broadband technology. And it's future-proof: once deployed, it lasts forever.

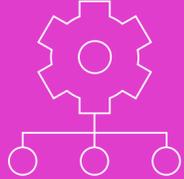
Today, fiber is everywhere. It passes every street, every building, stretching beyond cities into towns and across rural communities.

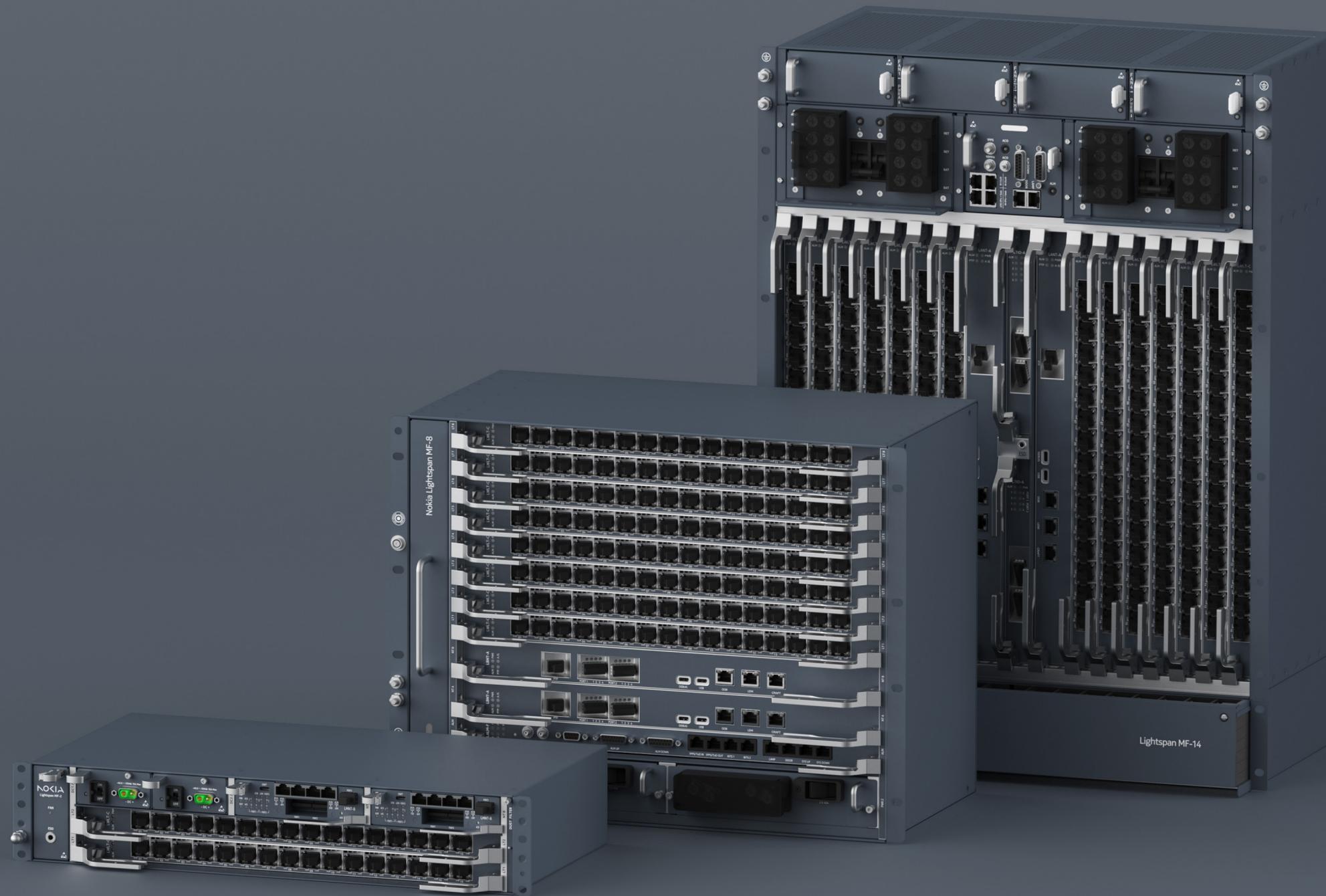
This makes fiber readily available to connect more than just homes: it can now be used to connect enterprises, Industry 4.0, 5G sites, smart cities, smart meters and much, much more.

Fiber-to-the-home is ready to become Fiber for Everything.



A disruption enabled by technology evolution

 <h2>Capacity</h2>	 <h2>SDN</h2>	 <h2>Low latency</h2>	 <h2>Reliability</h2>	 <h2>Green</h2>
<p>PON capacity keeps increasing. Now you can deliver all bandwidth-hungry services on a single fiber infrastructure.</p>	<p>Massive connectivity requires SDN for automated operations and flexibility in managing multiple services.</p>	<p>A growing number of applications require very low latency. Recent advances in PON technology ensure that these requirements are met.</p>	<p>Businesses and consumers depend on broadband. Fiber is robust, and new software and hardware approaches enhance reliability.</p>	<p>Fiber is the greenest way to deliver broadband. The more end points connected to fiber, the better it is for energy bills and the environment.</p>
<ul style="list-style-type: none">• 25G today• 50G standard• 100G demo	<ul style="list-style-type: none">• Automation• Network slicing	<ul style="list-style-type: none">• Sub-millisecond latency• Industry 4.0• 5G anyhaul	<ul style="list-style-type: none">• Mission critical• Minimum five-nines availability	<ul style="list-style-type: none">• 6-8 times lower carbon footprint than copper, coax or wireless



Nokia

Lightspan MF

The industry's first platform for next generation broadband

True next generation capacity
4 times greater than Gen5

25G-50G-100G
Ready for the future

No single point of failure
Six-nines availability

20% greener
Than the industry average

Open & programmable
Open API for anyone to use

Fast telemetry
10x higher scale than Gen5

Cloud controllable
Automation SDN enabled

Modular software
Agile to test and deploy

Lightspan MF enables evolution based on **cost, time, need**

25G PON, 50G PON and beyond are the future of fiber. You choose a network technology for various reasons: cost, service focus, competition, business priorities, timing, or usually a combination of all these things.

Different flavors of PON help you diversify your service offering and compete more effectively.

Lightspan MF is designed to support high-density 25G PON, 50G PON and beyond, enabling any evolution path that works for you.

10G

Mass deployment today

25G

Deployments started

50G

2025 trials 2024

100G

2030+ PoC today

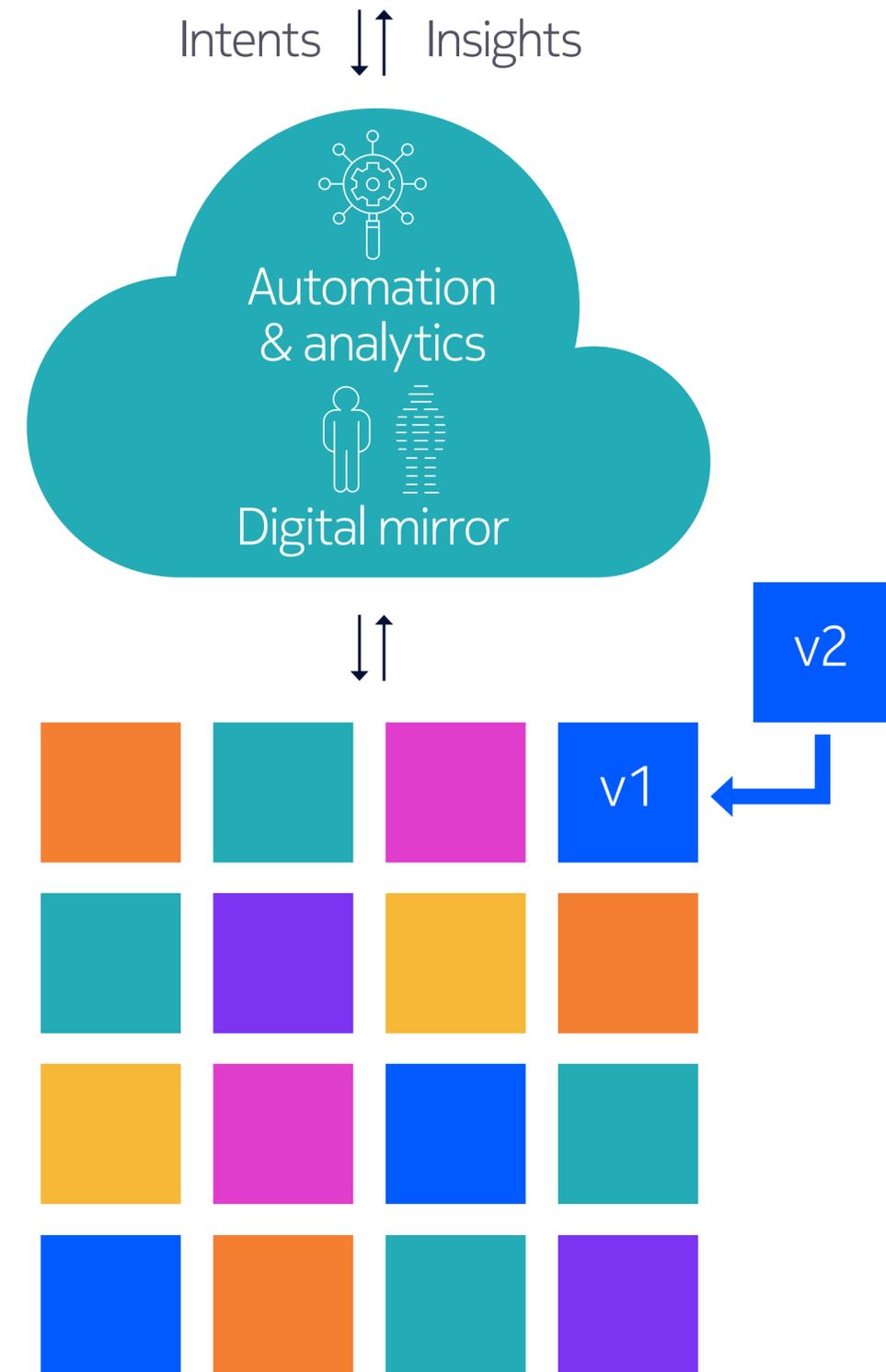


New software architecture for more agility

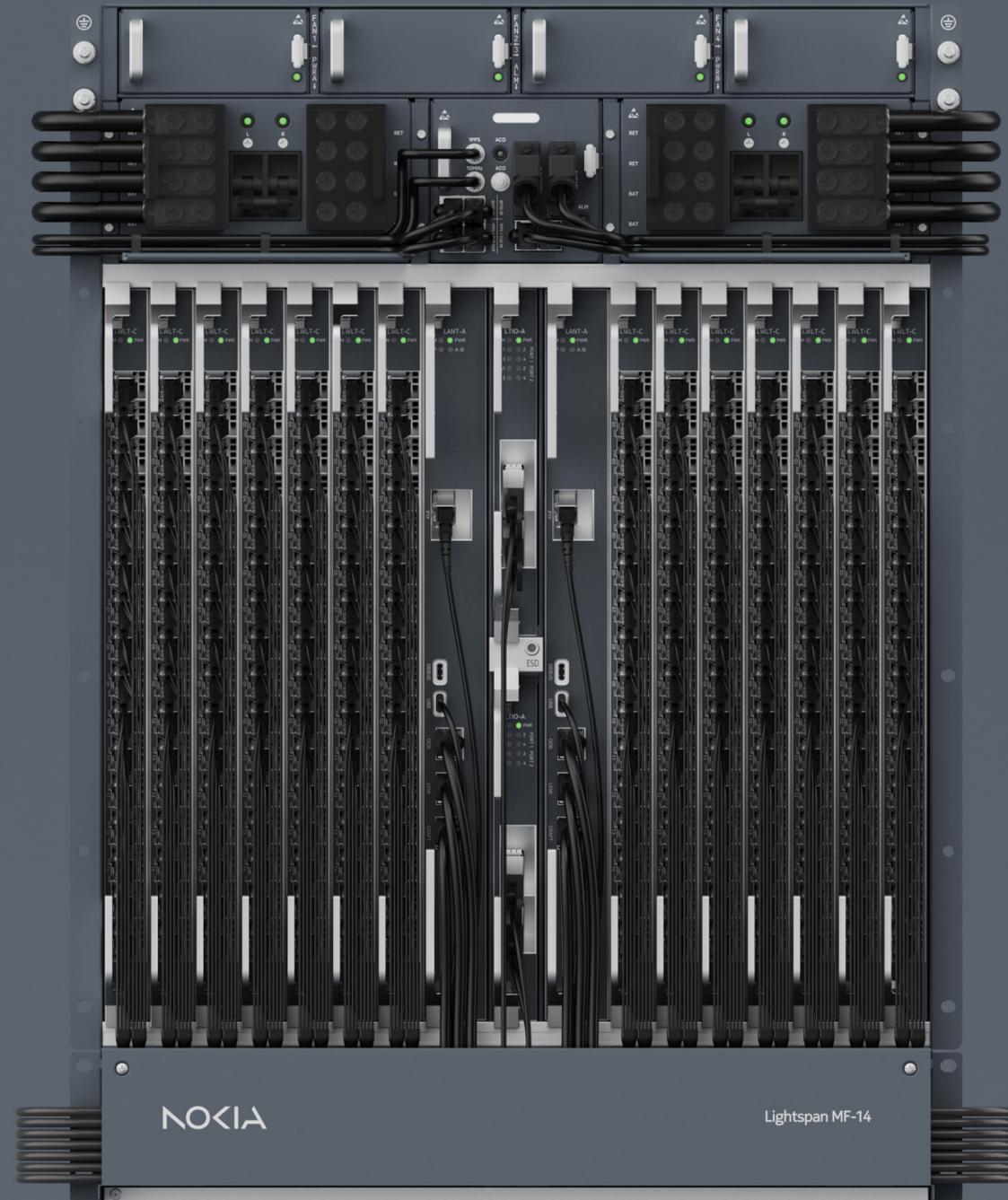
- Open APIs for vendor-agnostic management and control
- Easy access to data for Nokia and 3rd party network applications
- Zero-touch automation with fewer inconsistencies and errors
- Selective modular software upgrades accelerate time-to-market and network innovation
- More powerful control and partitioning of node resources to support network slicing

Cloud-native SDN controller

Modular network OS



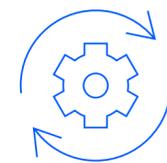
Lightspan MF brings future capabilities – today



Start with a premium platform that will support you for decades



Get more revenue with the first Fiber for Everything platform
Capacity, reliability, low latency, network slicing



Excel in network operational efficiency
Fully programmable, disaggregated architecture, open and standardized



Stay ahead of energy targets
20% more energy efficient than the industry average

A close-up, high-angle view of a square integrated circuit (chip) mounted on a printed circuit board (PCB). The chip is illuminated with a bright blue light, and the word "NOKIA" is printed in large, white, sans-serif capital letters on its top surface, with "Quillion" written in a smaller font below it. The PCB is densely packed with various electronic components, including several cylindrical capacitors and numerous fine traces of copper or gold. The background is dark, making the glowing blue traces and the illuminated chip stand out prominently.

Nokia Quillion chipset

Powering next-generation, massive scale access networks

- Developed in-house
- Superior reliability through highly-integrated design
- Up to 50% power savings
- Reduced service interruption during software upgrades
- Programmability for in-field modification of functional behavior
- Ready for time critical functionality (low latency) for 5G transport
- Industry-first coexistence: GPON, XGS-PON and 25G PON on a single line card

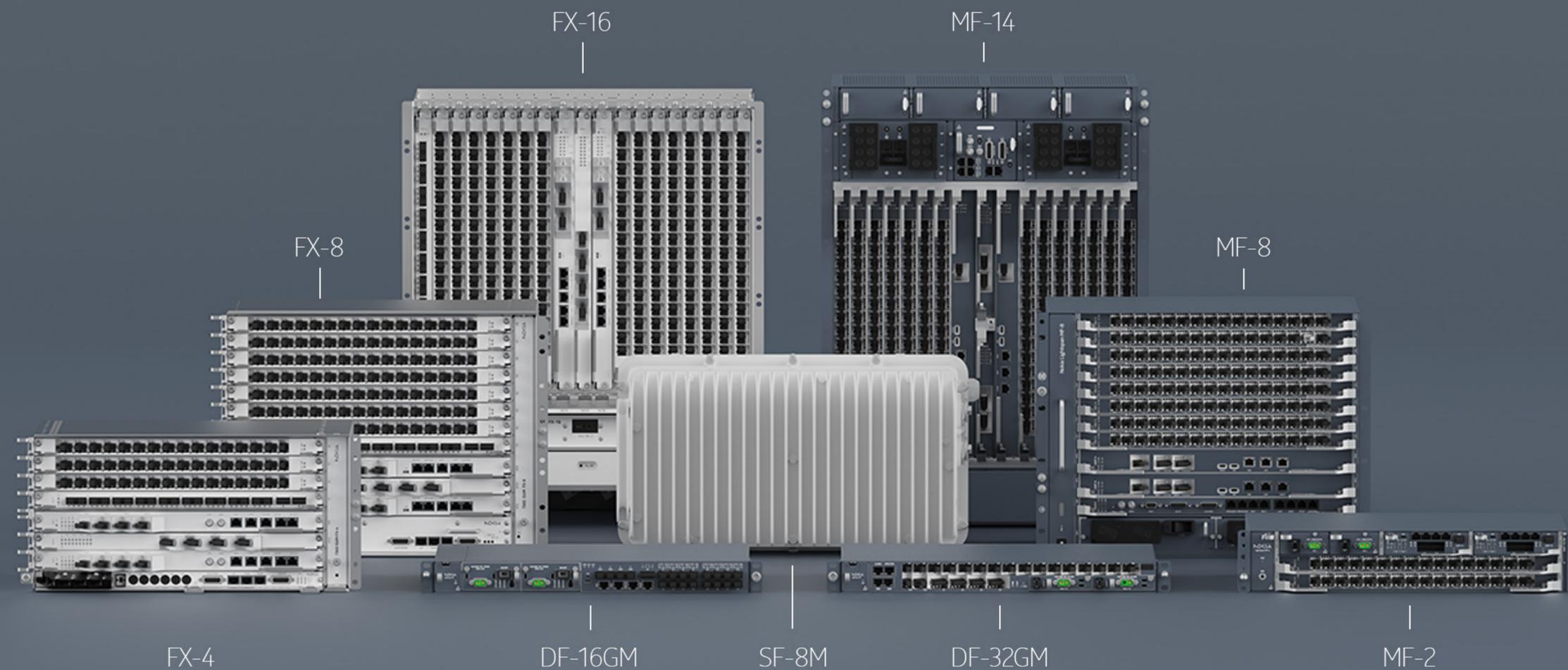
100% customer adoption

Nokia Lightspan portfolio

Common management across platforms

Covering all hardware architectures: chassis-based or disaggregated

Optimized for all deployments: central office, cabinet, remote



Nokia Oyj
Karakaari 7
02610 Espoo
Finland
Tel. +358 (0) 10 44 88 000
CID: 212791
nokia.com

NOKIA

At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering the future where networks meet cloud to realize the full potential of digital in every industry.

Through networks that sense, think and act, we work with our customers and partners to create the digital services and applications of the future.

Nokia is a registered trademark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

© 2024 Nokia