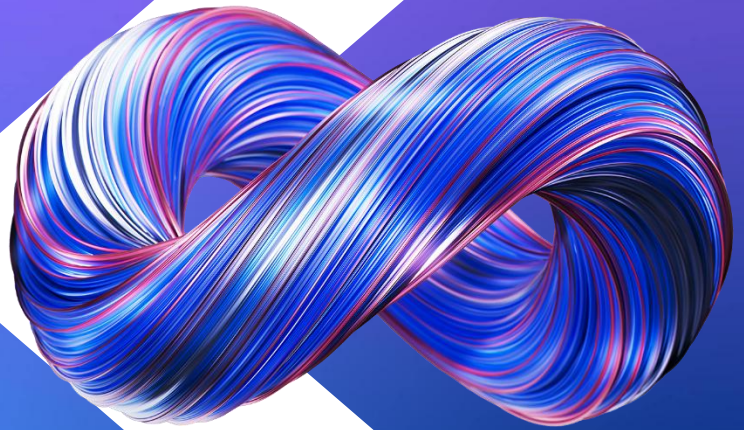
Nokia IP portfolio

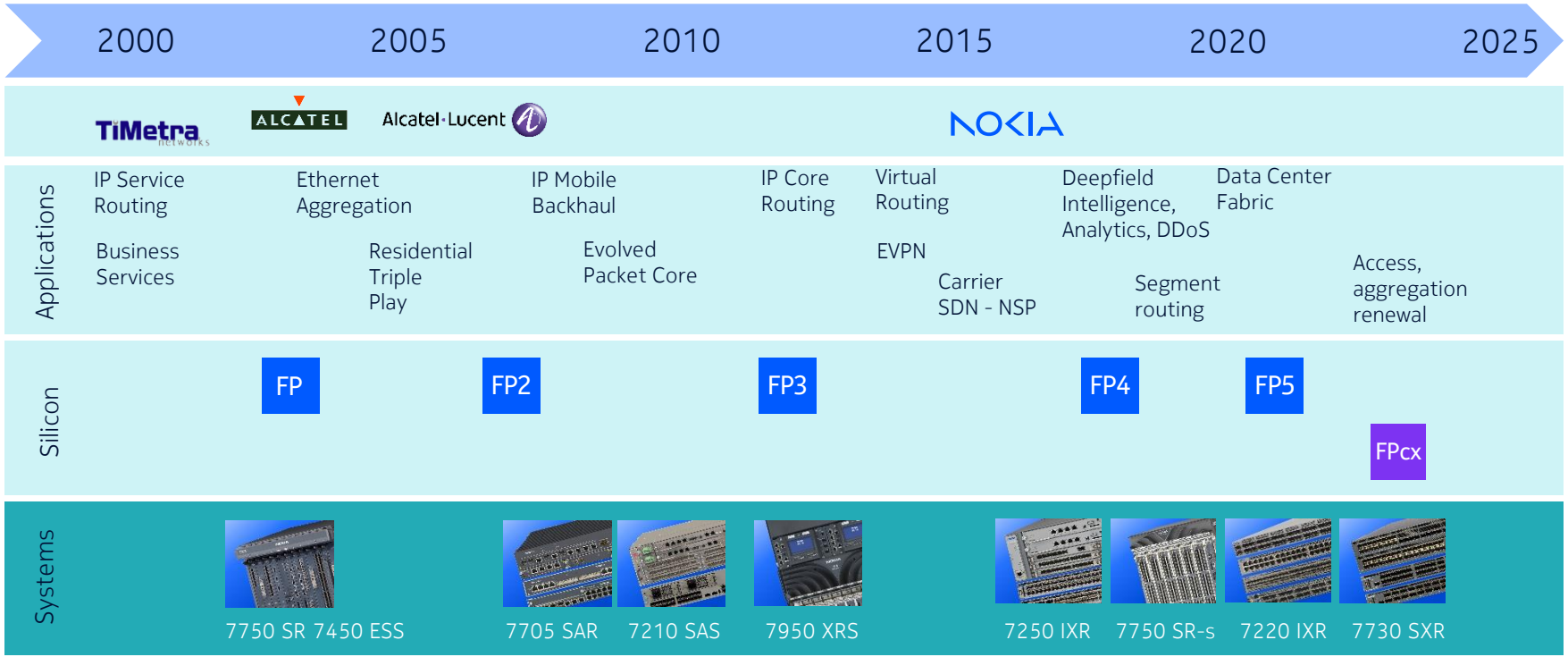
2026.10.21.



© 2026 Nokia | Confidential

History of innovation leadership

Continuous evolution of IP applications, services and technology

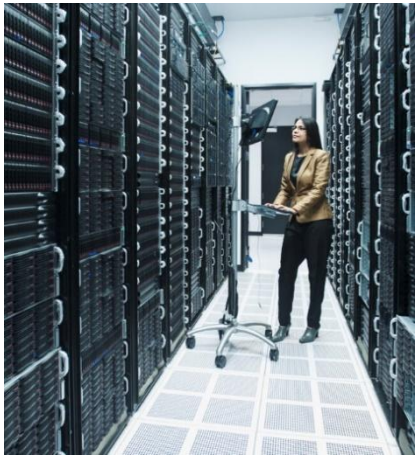


© 2026 Nokia | Confidential

IP Networks customers



Communications Services Providers



AI & Cloud providers



Mission Critical Enterprise

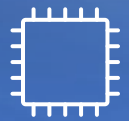


Government

© 2026 Nokia | Confidential

Technology and people we invest in

IP and data center networks foundation



Silicon and systems



Software excellence

+



Security in depth



AI-enabled automation

+



Services

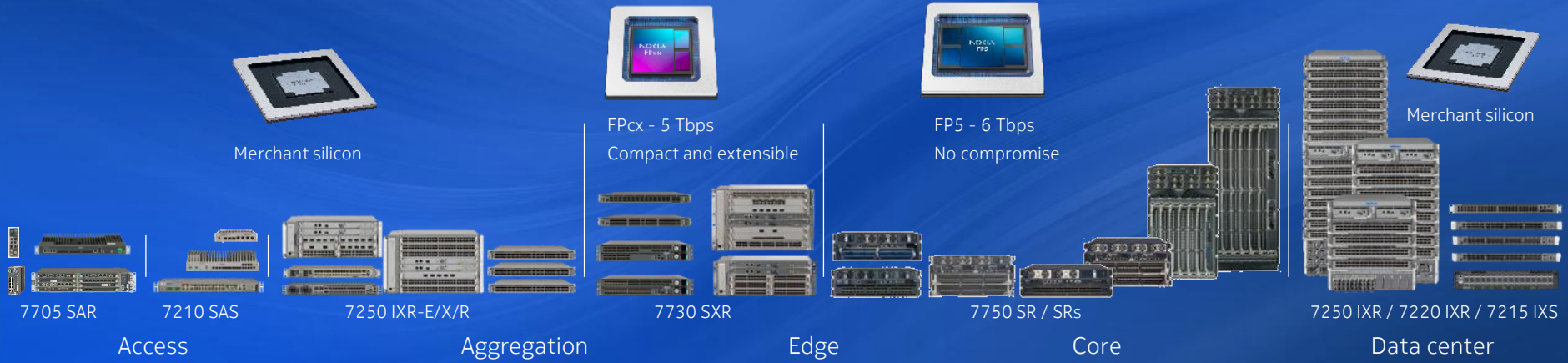
© 2026 Nokia | Confidential

Silicon and systems

A wide range of products for the best price-performance

- Continued innovation
- Leading in 400G/800G connectivity
- Renowned for network quality and resilience
- Low cost and power per bit

A choice of platforms with silicon diversity to match your needs



© 2026 Nokia | Confidential

Software excellence

Robust network operating systems

No major outages in over 15 years

500+ testers

400,000+ test cases

3.5+ years of test hours every 2 weeks

Exceptional IP network performance with our proven router software

SR OS

Proven protocol stacks and networking applications

Extensible & open for cloud era data center and IP networks

SR Linux

Hardened open-source for cloud and data center environments

SONiC

© 2026 Nokia | Confidential

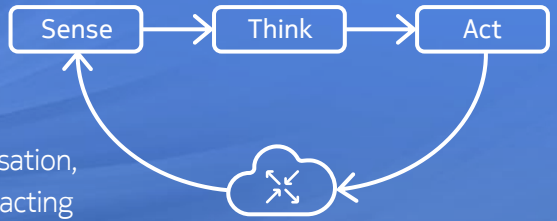
AI-enabled automation

Build extremely agile, efficient and reliable networks

- Entire network lifecycle automated - design, deployment, daily operations
- Network complexity abstracted to make life easier
- Field-proven expertise in achieving TM Forum autonomous operations

AI-enabled operations

Agentic AI takes network operations beyond conversation, into sensing, thinking, and acting



Network Service Platform (NSP) for your IP network

Event-Driven Automation (EDA) for your data center network

68% reduction in labor time

96% reduction in downtime

© 2026 Nokia | Confidential

Security in depth

A multi-layer embedded approach

AI-driven big-data DDoS security	• Deepfield Defender • Deepfield Secure Genome®
NOS apps and tools	• IPsec Security Gateway • SR OS Firewalls • ESM security
Quantum-Safe Networks	• Pre-shared keys (PSK) & QKD • Public Key Cryptography (PKC) & PQC
IP trusted systems	• System security • Secure product lifecycle • Platform trust • Secure supply chain
IP silicon	• High performance DDoS filtering • IEEE 802.1AE (MACsec, ANYsec) line-rate encryption

- Networks and users protected
- Business continuity ensured

Ai-driven detection and auto-mitigation of all types of DDoS in

less than 30 sec

The clock is ticking

Manage your risk with a quantum-safe defense-in-depth approach

© 2026 Nokia | Confidential

IP Services

Your advanced services partner for the connected world

Teams

- Professional services
- Care and maintenance
- Deployment and integration
- Learning services

Leading practice areas

- Enabling automation
- Global delivery centers
- Cloud-based engineering services
- Digital twin and staged solutions
- Factory migration and digital process automation
- Networks as-a-Service

Outcome

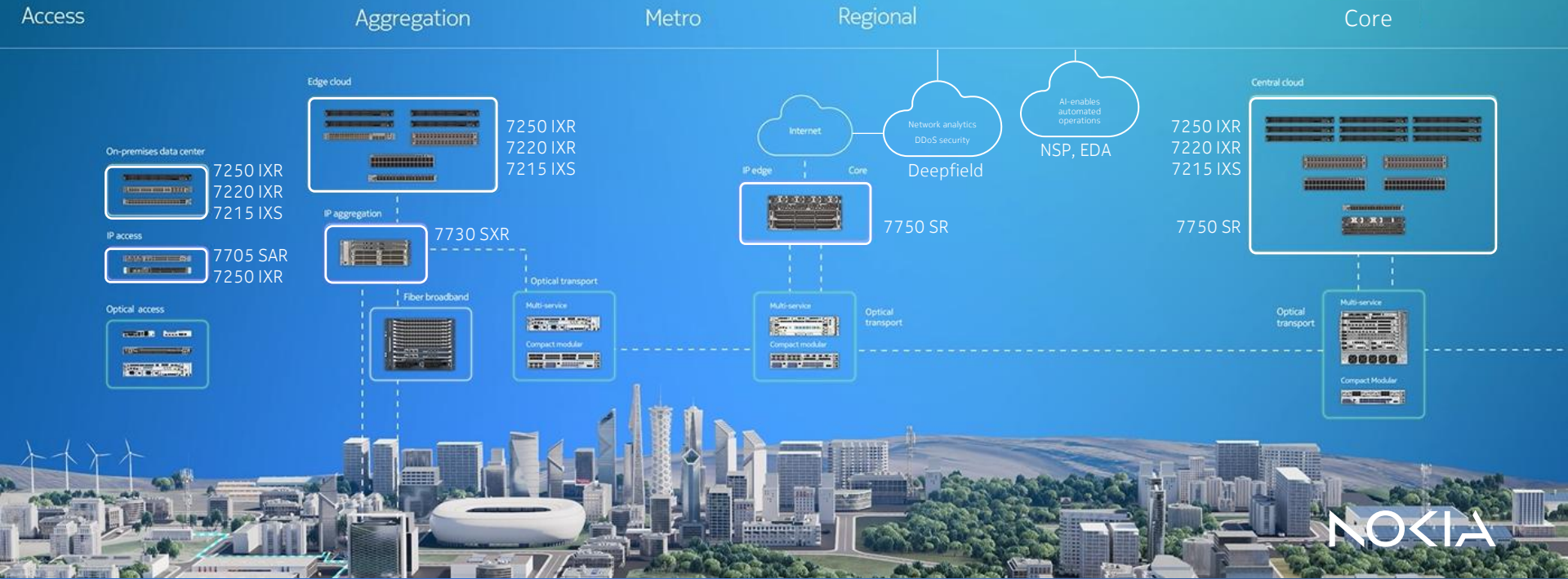
- ✓ Increased agility and speed-to-respond
- ✓ Accelerated time-to-market
- ✓ Reduced cost-to-serve



© 2026 Nokia | Confidential

Comprehensive portfolio for IP and data center networks

Right sized with performance, features and scale for all network applications



Nokia 7750 service router

High-performance IP routing for the 5G and the AI and cloud era

Speed and capacity

- Powerful Nokia FP5 and FP4 silicon for demanding network roles
- High density 800/400/100/50/25/10/1GE interfaces
- Up to 1.6Tb/s clear channel flows
- System capacity scales from 100 Gb/s up to 230 Tb/s FD

Flexibility

- Deterministic performance, certainty under all network conditions
- Fully programmable FP NPU to meet new requirements
- Full array of edge, core and aggregation applications
- Comprehensive SR OS, includes DDoS mitigation and MACsec/ANYsec

Energy efficiency

- 75% savings over FP4, no performance penalty to achieve savings
- System and line card breadth to design for any location
- Mechanical cooling designs enable full 400GE/800GE density
- Energy savings between 25% to 43% with next gen optics



7750 SR-s series



7750 SR series

© 2026 Nokia | Confidential

Nokia 7730 service interconnect router

IP Access and aggregation with enhanced performance and quantum security

Speed and capacity

- Powerful Nokia FPcx silicon
- High density 400/100/50/25/10/1GE interfaces with full breakout support
- System capacity from 3.6 to 5.6 Tb/s FD

Flexibility

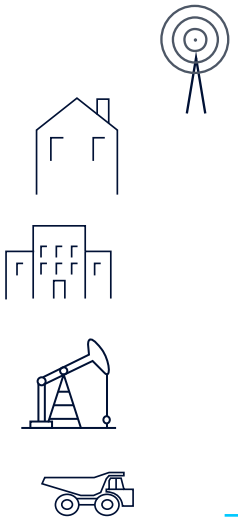
- Enhanced NetOps with SR Linux
- Integrated network security
- Advanced network timing features, extended temperature range, right-sized for target applications
- Re-use of 7250 IXR for modular systems



© 2026 Nokia | Confidential

Access and aggregation/interconnection routers

Wide selection to meet diverse network and business requirements



Access trends

- GE ⇒ 10GE
- Low latency
- IP services moving to the access
- Increased need for security
- Continuing support for legacy services

Aggregation/ interconnection trends

- 100GE connectivity
- Multiple interface support: 25/40/50GE
- Need for high port density
- Distributed architectures

Multi-service
High security, reliability

7705 SAR

GE aggregation
Demarcation

7210 SAS

High bandwidth
Low latency

7250 IXR

© 2026 Nokia | Confidential

Routers and switches

Power efficient, high-performance access, aggregation and interconnection

7250/7220 Interconnect Router

7250 IXR

- Mobile transport
- High bandwidth, scalable interfaces
- Timing , latency



7220 IXR

- Data center



7210 Service Access System

7210 SAS

- GE/10GE aggregation
- Demarcation



7705 Service Aggregation Router

7705 SAR

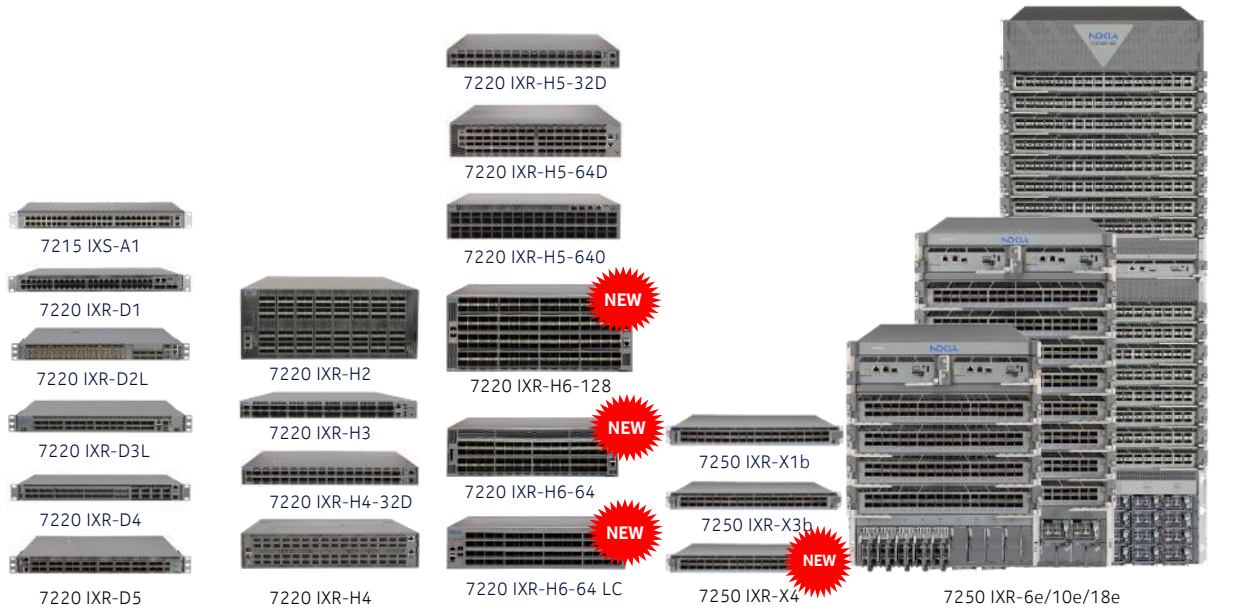
- Digital industry and government
- Multi-service
- High security, reliability



© 2026 Nokia | Confidential

Data center switches

Reliable and visionary platforms ready for the AI era



- Merchant silicon-based platforms for back-end and front-end networks
- Proven hardware design practices and track record
- Unique design innovations in modular platforms
- Lowest power super-spine platforms in the industry
- Designed for scale and future expansion
- Power and cooling optimized

SR Linux

SONiC

Note: SONiC support is offered on specific platforms | SONiC and the SONiC logo are registered trademarks of The Linux Foundation.

© 2026 Nokia | Confidential

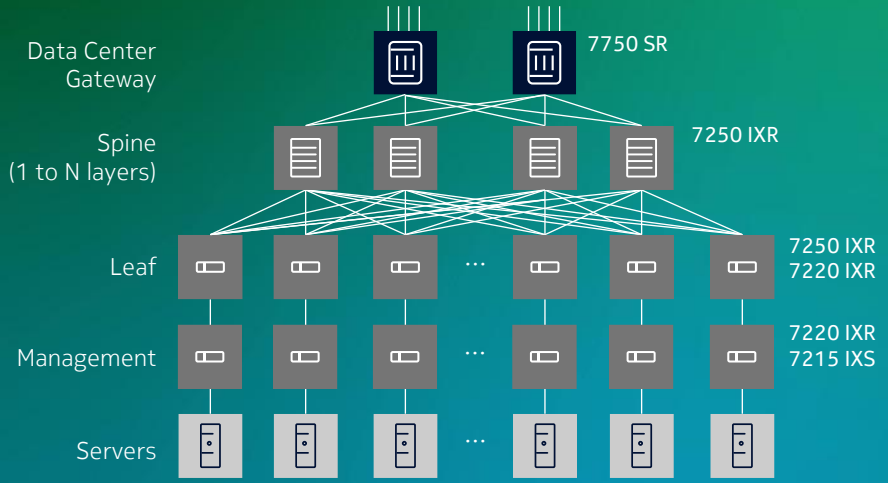
NOKIA

Nokia Data Center Fabric solution

Network connectivity for all workloads

SR Linux
Network operating system

Event-Driven
Automation (EDA)



Non-blocking fabrics

- IP and EVPN fabrics
- DC gateway or border leaf derivatives
- Collapsed core for edge DC
- Scale via super spines / pods

Merchant silicon (Broadcom)

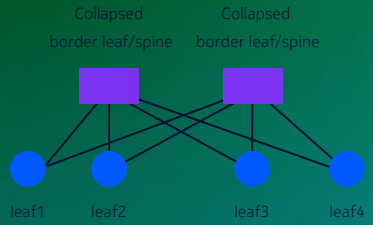
- Tomahawk for shallow buffer IP fabrics
- Trident for shallow buffer EVPN fabrics
- Jericho for deep buffer requirements

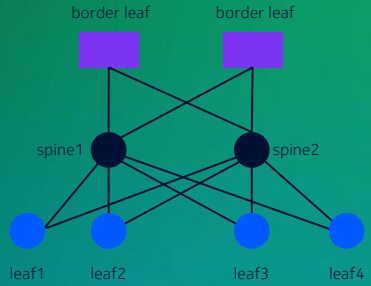
Out-of-band management

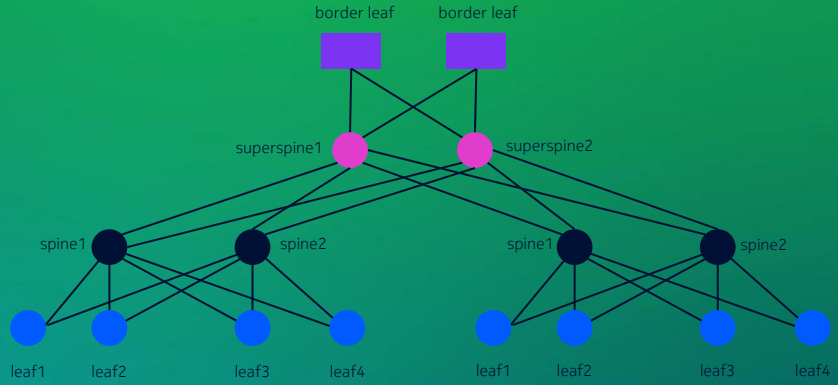
- Merchant silicon
- 1G/10G port speeds

© 2026 Nokia | Confidential

DCF Topologies
Leaf/Spine aka CLOS







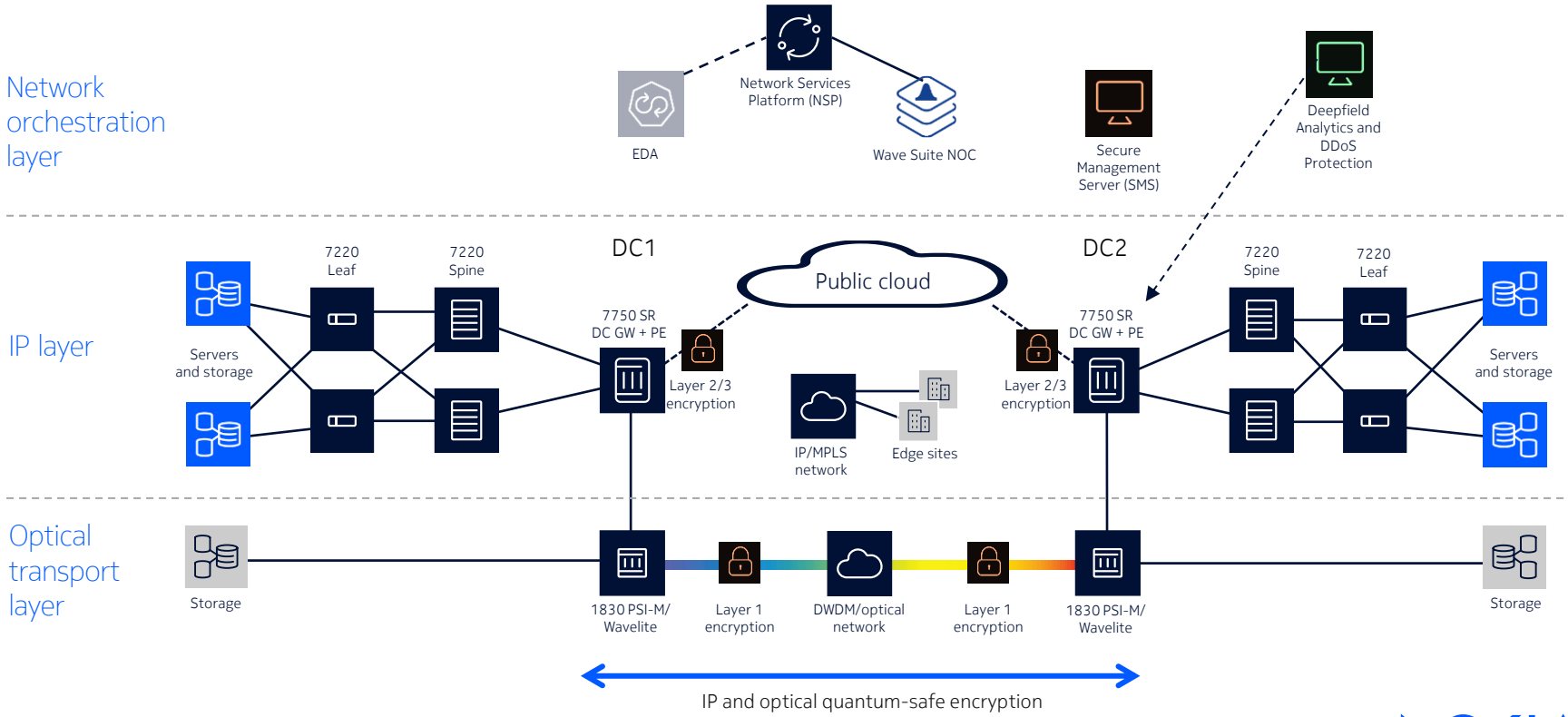
Fabric Type (Routed, EVPN, Underlay options)

Service integrations (FW/LB)

Data center interconnect (VXLAN-VXLAN, VXLAN-IPVPN, VXLAN-MPLS)

© 2026 Nokia

DCFI - Integrated end-to-end IP + optical architecture

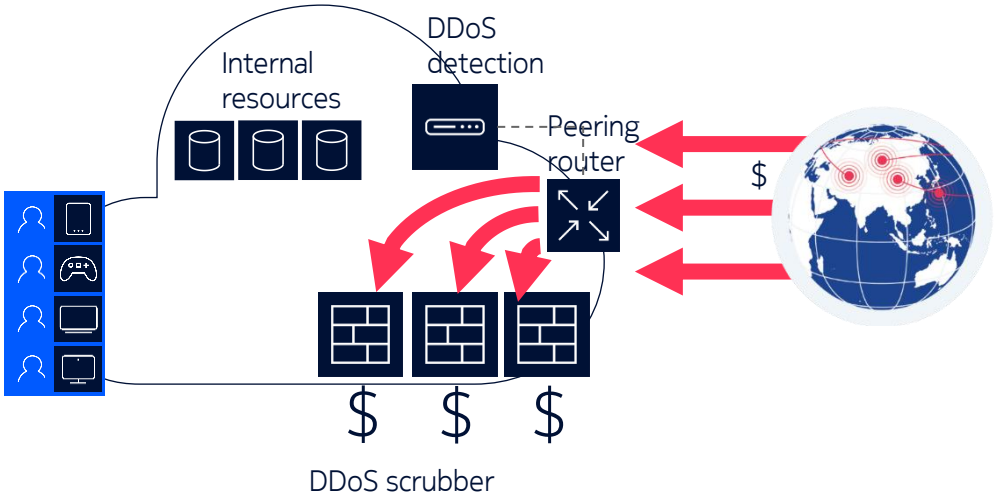


© 2026 Nokia | Confidential

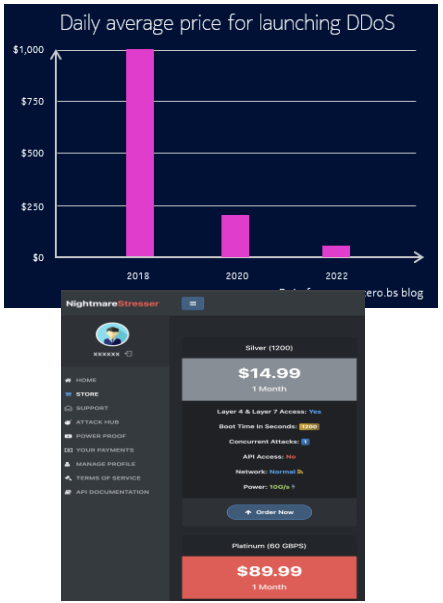
The economical challenge

Scrubbing capacity needs to grow in pair with attack size

€€€ to protect versus € to attack



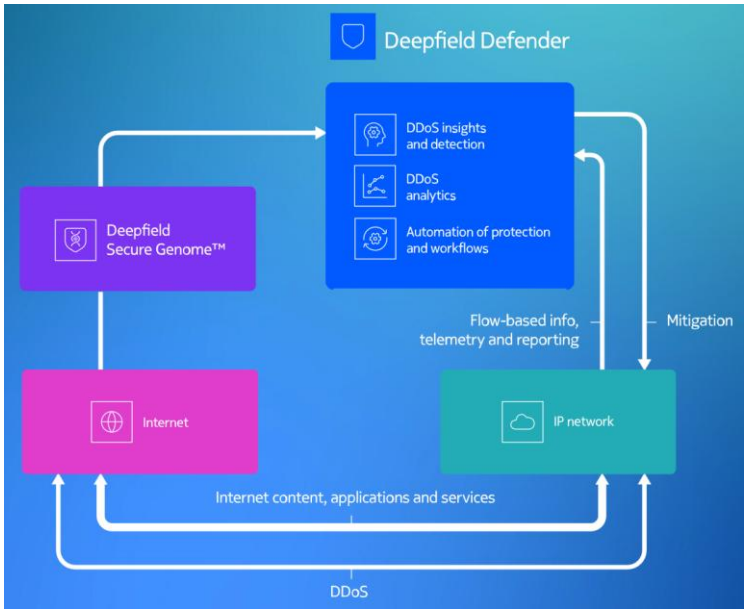
Cost to launch 100G attack from booter service dopped significantly!



© 2026 Nokia | Confidential

Nokia DDoS security solution

Big data security analytics + most advanced routers = best DDoS solution in the market



	Leading scrubber	Nokia
Scale	• 800 Gb/s per appliance	• **2.8 Tb/s** per FP5
Performance	• Variable throughput	• Always at line speed
Detection	• Manual (thresholds)	• Automated
Time to mitigate	• Minutes	• Seconds
Cost	• FPGA cost points ($$$)	• FP5 cost points ($$)

New + refresh

Beating the competition on both fronts (routers, DDoS) with our unique offer and better TCO

Telecentro

Cap & grow

Displacing legacy DDoS security provider with better scale and efficiency or adding a new layer of security
(e.g., Tier-1 SP in Northern Europe).

Botnet DDoS

Offering better protection against the new generation of attacks (e.g., Tier-1 SP in APAC).

A next-gen, disruptive solution with best-in-class accuracy, scale & economics

© 2026 Nokia | Confidential

Building the world's most critical networks

Delivering applications, cloudification, scale and deterministic performance

Silicon and systems

Scalable and assured performance your network engineers can count on

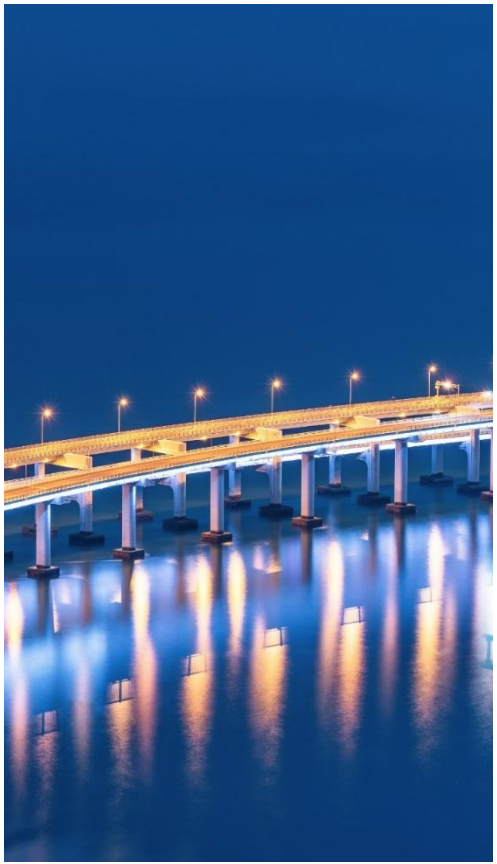
Software excellence

Robust and secure infrastructure your operations teams can trust

Automation and tools

Efficient and programmable architectures your business can build on again and again\

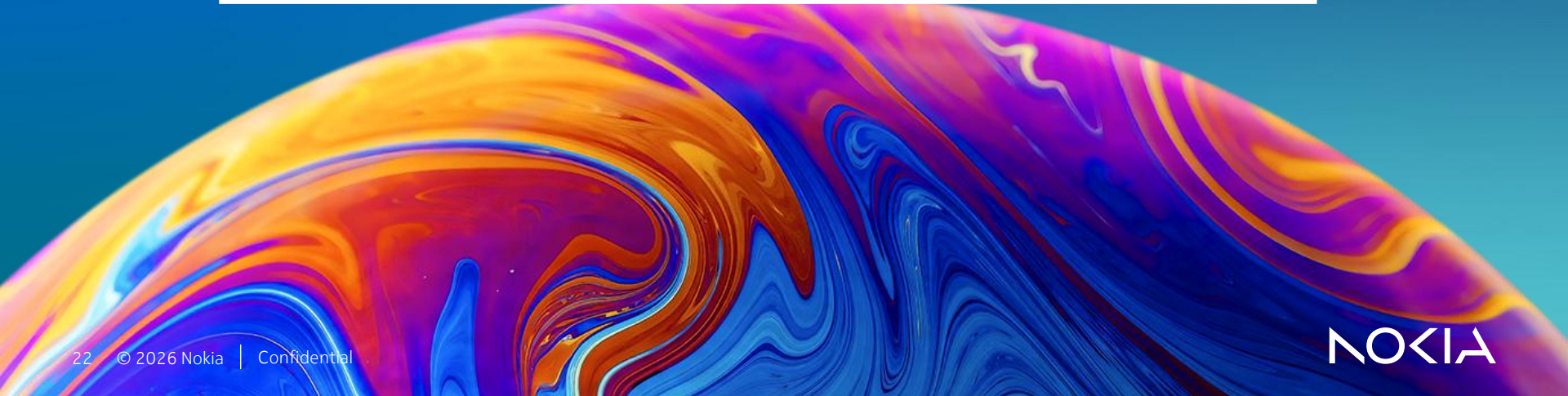
Decades of partnerships and investment brings insight and the technology depth to solve the toughest challenges facing today's networks



© 2026 Nokia | Confidential

Everyone uses Nokia IP daily in Hungary

Any given packet: in Hungary traverses a Nokia IP element along the way	> 99%



© 2026 Nokia | Confidential


NOKIA

Copyright and confidentiality

The contents of this document are proprietary and confidential property of Nokia. This document is provided subject to confidentiality obligations of the applicable agreement(s).

This document is intended for use of Nokia's customers and collaborators only for the purpose for which this document is submitted by Nokia. No part of this document may be reproduced or made available to the public or to any third party in any form or means without the prior written permission of Nokia. This document is to be used by properly trained professional personnel. Any use of the contents in this document is limited strictly to the use(s) specifically created in the applicable agreement(s) under which the document is submitted. The user of this document may voluntarily provide suggestions, comments or other feedback to Nokia in respect of the contents of this document ("Feedback").

Such Feedback may be used in Nokia products and related specifications or other documentation. Accordingly, if the user of this document gives Nokia Feedback on the contents of this document, Nokia may freely use, disclose, reproduce, license, distribute and otherwise commercialize the feedback in any Nokia product, technology, service, specification or other documentation.

Nokia operates a policy of ongoing development. Nokia reserves the right to make changes and improvements to any of the products and/or services described in this document or withdraw this document at any time without prior notice.

The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this document. NOKIA SHALL NOT BE RESPONSIBLE IN ANY EVENT FOR ERRORS IN THIS DOCUMENT or for any loss of data or income or any special, incidental, consequential, indirect or direct damages howsoever caused, that might arise from the use of this document or any contents of this document.

This document and the product(s) it describes are protected by copyright according to the applicable laws.

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.