

Nokia IP portfolio for utility substation

Scalable, secure, reliable FAN, LAN and WAN connectivity



Substation switch

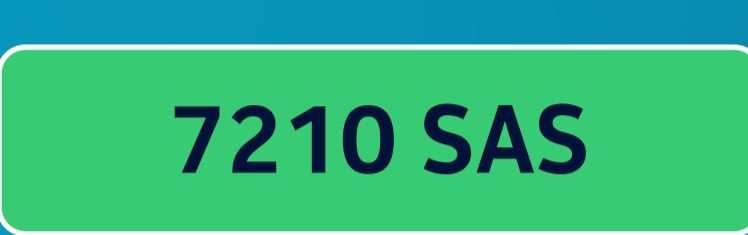
Substation router

- Environmentally hardened IEC 61850-3 / IEEE1613 compliant
- Multi-service interfaces: 3G/4G/5G, legacy TDM and Ethernet with Coherent Routing support *
- Modern protocols and management interfaces
- Selected platforms support built-in GNSS and IEEE 1588 PTP telecom and power profiles

- IP/MPLS/Segment Routing tunnels*
- High service availability
- MACsec/ANYsec/NGE/IPsec *
- Secure by design
- Low power consumption

* With some exceptions

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Nokia IP portfolio for utility control center

Scalable, secure, reliable IP core, peering, and control & data center interconnect



- Nokia FP silicon: Performance certainty and fully programmable
- Wide range of speed and capacity: 1.5T – 230T (FD) with support of pluggable coherent optics
- Modern protocols and management interfaces
- Selected platforms support built-in GNSS and IEEE 1588 PTP telecom and power profiles

- IP/MPLS/Segment Routing tunnels
- High service availability
- MACsec/ANYsec/IPsec *
- Secure by design
- Highly sustainable networking

* With some exceptions

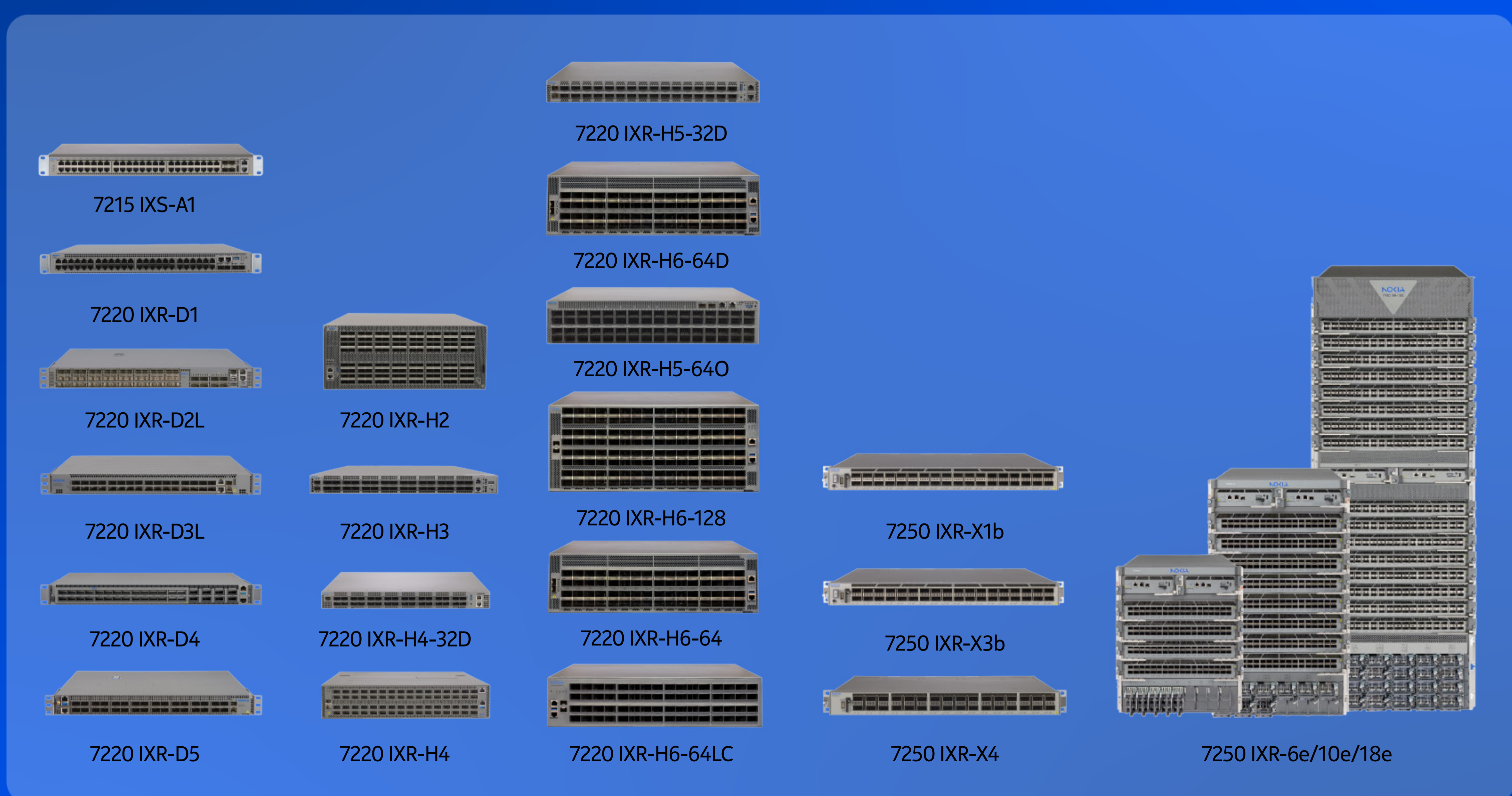
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Nokia IP portfolio for utility data center



Reliable and simplified data center fabrics for utility application



- Back-end networks deliver lossless, low latency interconnect for high-value GPU resources required for AI training, AI inference or other HPC workloads
- Front-end networks deliver connectivity for AI workloads, general-purpose workloads (non-AI compute) and management of AI workloads

- Proven hardware design practices and track record
- Designed for scale and future expansion
- Managed by Nokia Event-Driven Automation (EDA) platform

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