FORTINET

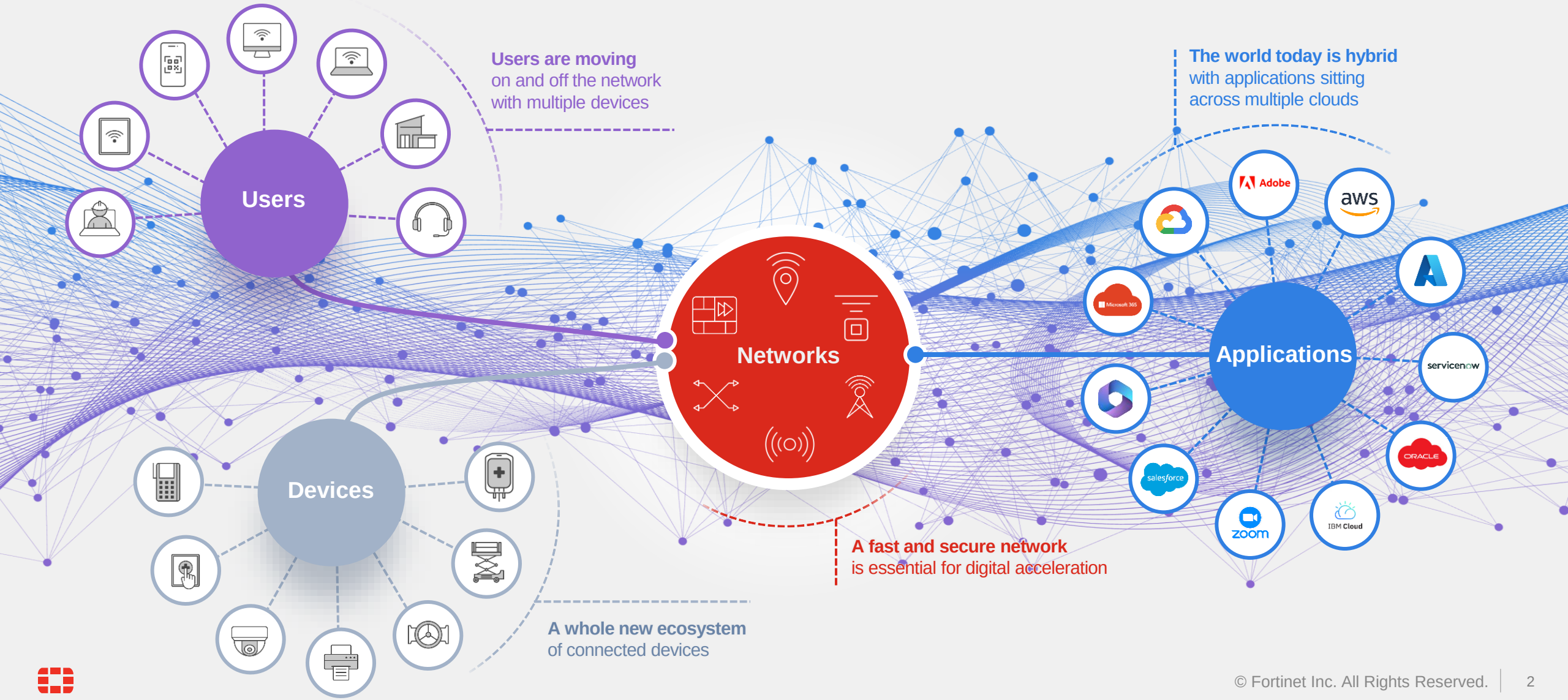
Secure SD-Branch

Andrei Nitu-Ecxarcu

Systems Engineering Manager

Infrastructure has become more Complex…

…leaving It Vulnerable to Attack



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Threat Landscape Continues to Expand…

IoT

55.7B connected IoT devices projected by 2025.

IDC Future of Industry Ecosystems: Shared Data and Insights

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Threat Landscape Continues to Expand…

IoT

Users

Gartner Predicts **10%** of Large Enterprises Will Have a Mature and Measurable Zero-Trust Program in Place by 2026.

Gartner press release January 23, 2023

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Threat Landscape Continues to Expand…

IoT

Users

Operating System

48% of respondents reported lack of time for proper risk assessment, and **39%** reported slowness to patch critical systems as a result.

Gartner press release January 23, 2023

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The Fortinet Security Fabric Vision

Cybersecurity, everywhere you need it.

Secure Networking

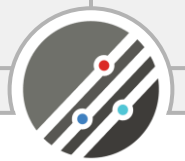
Converge security and networking to protect every edge and device

Unified SASE

Secure users anywhere and applications on any cloud

AI-driven Security Operations

Detect, investigate and respond to threats at massive scale



One Operating System, One Management Plane, One Analytics Engine, Unified Endpoint Agent, and AI-powered Security Services

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Secure Connectivity

Convergence of Networking and Security

Enterprise Requirements

Convergence

High ROI & Low TCO

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Secure SD-Branch

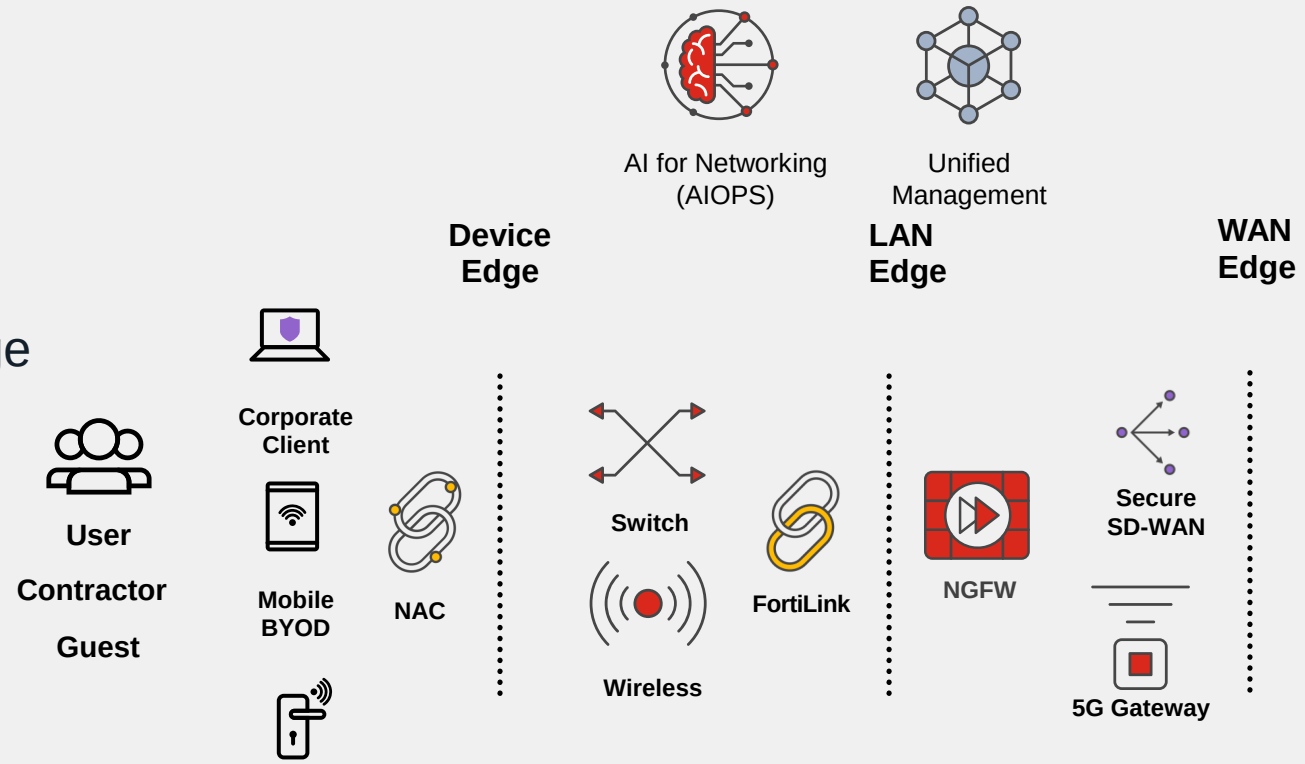
Securing and Simplifying Distributed Enterprise Through Convergence

SD-WAN secure business outcome driven WAN
- Simplifies traditional WAN complexity
- Better cloud application performance
- 5G/LTE Wireless WAN

Secure Connectivity protecting the access edge
- Consolidation through convergence of security and network access

NAC protecting the device edge
- Discovery, classification, and secure onboarding of IoT devices

AI driven Management and Automation
- Single pane of glass management
- AI for Network Operations



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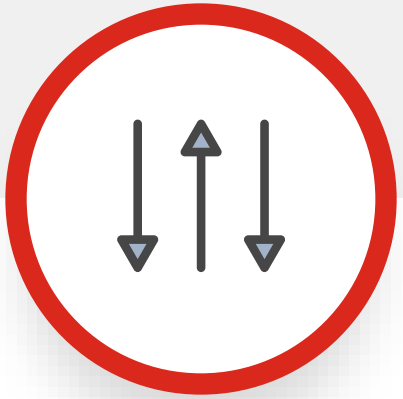
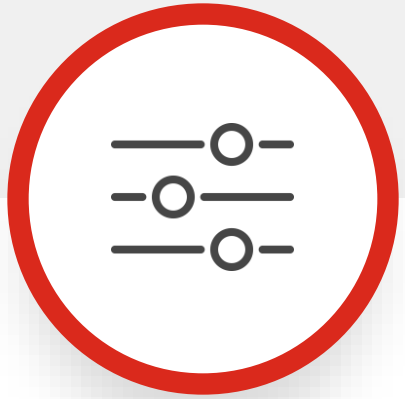
FortiLink

Direct control, configuration, and management through FortiOS



Configuration

- Agile deployment auto discovery



Control

- Extends the next-generation firewall (NGFW) features and inspection to the LAN

Management

- A significant step beyond centralized management
- Included with FortiOS, no additional licenses

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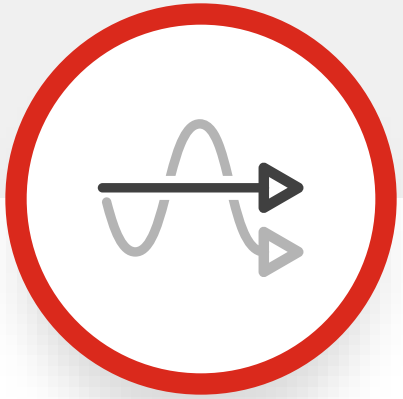
FortiLink NAC

Secure onboarding of devices



Simplicity

- Easy deployment, no design changes, no overlay
- Defaults are ready to go

Visibility

- Automatic discovery of endpoints and devices
- FortiGuard IoT service available

Security

- Policy application
- Enable devices on port(s) or entire network
- Actions can be port or device specific

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Virtual Patching

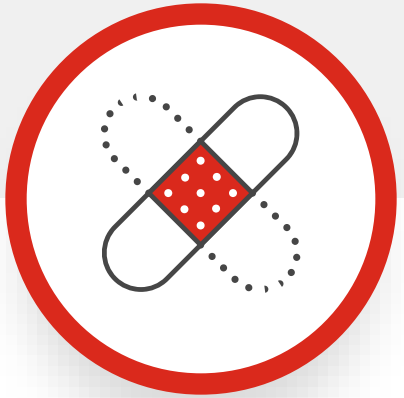
Isolate and Protect Vulnerable Devices

Identify Vulnerable

- FortiGate scans for vulnerable systems connected to the LAN
- Identifies unpatched vulnerabilities

Isolate

- FortiLink NAC isolates device into separate VLAN segment
- Dynamic policy assignment based on device vulnerability status



Virtual Patch

- IPS Virtual patching dynamically applied to protect device at port level.
- This patch prevents exploit of vulnerability

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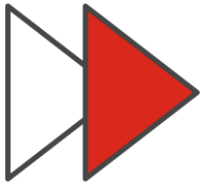
SD-Branch Product Components

FortiGate



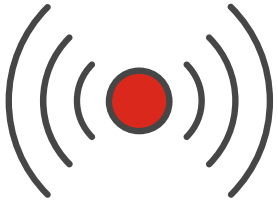
17+ models

Next Generation Firewall

WLAN Controller

Switch Controller

FortiAP

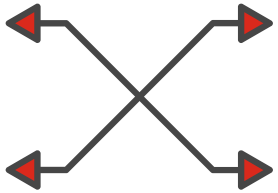


20+ models

- Wi-Fi 7
- Internal or external antenna

Indoor/Outdoor/Wall jack

FortiSwitch



40+ models

- 1 GE to 100GE
- L2/L3
- Edge Switches
- Campus core & Data Center
- Rugged Options
- Advanced Services

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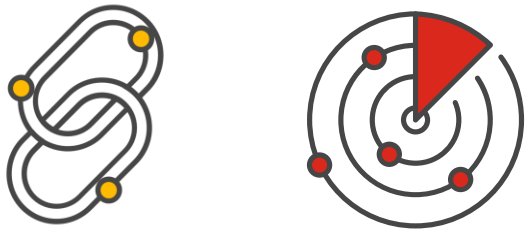
SD-Branch Product Components

NAC



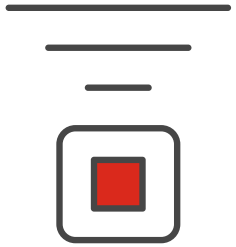
FortiLink NAC

- Base discovery onboarding and security

FortiNAC

- Advanced discovery and onboarding including multi-vendor support and anomaly detection

FortiExtender



- Up to Two radios
- Ethernet WAN port
- Routing capabilities
- Multiple LAN ports

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Zero Touch Deployment

Deploy

Ship Switches, APs and FortiGates to the site, plug it all in, and connect it to the internet

Configure

FortiDevice sends a message to our deployment server

Run

Deployment server pushes configuration to FortiGate, FortiSwitch and FortiAP

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Hardware Models

FortiSwitch Updates

110G-FPOE

2x 5G/2.5/1G & 8x 2.5G/1G
90W 802.3bt PoE Capable
200W PoE Budget
Uplinks (4) 10GE SFP+
Fanless

600F Series

24x 5GE Multi-GE **or** 32x 2.5GE & 16x 5GE access
90W 802.3bt PoE capable
Uplinks 8 x 25GE SFP28
Dual AC Power supply
Layer 3

2000F Series

48 x 25GE capable SFP28 slots
8 x 100GE QSFP28 Uplink slots
2 x 10GE SFP+ slots
Dual hot swappable AC power supplies
Layer 3

FortiSwitch Rugged Switch Family

100 Series

8x GE RJ45, 4x GE SFP slots
8x PoE/PoE+ RJ45 ports
Passive cooling, No fans or moving parts
Redundant power inputs
Built to IP30 standards

400 Series

24 Multi GE
12x 1/2.5 GE RJ45, 12x 1/2.5 GE SFP+
4x 10G SFP+, 2x 40G QSFP+
Fanless
12 802.3bt PoE (60W) ports
Built to IP40 standards

Business Value of Adopting Fortinet

Convergence of network and security

- Breaks down silos centralizing data crucial for effective AI / ML

Simplified operations

- Single interface and operating system
- Centralized automation, orchestration

TCO benefits

- Reduced management complexity
- Few licenses, more function, clear-cut value

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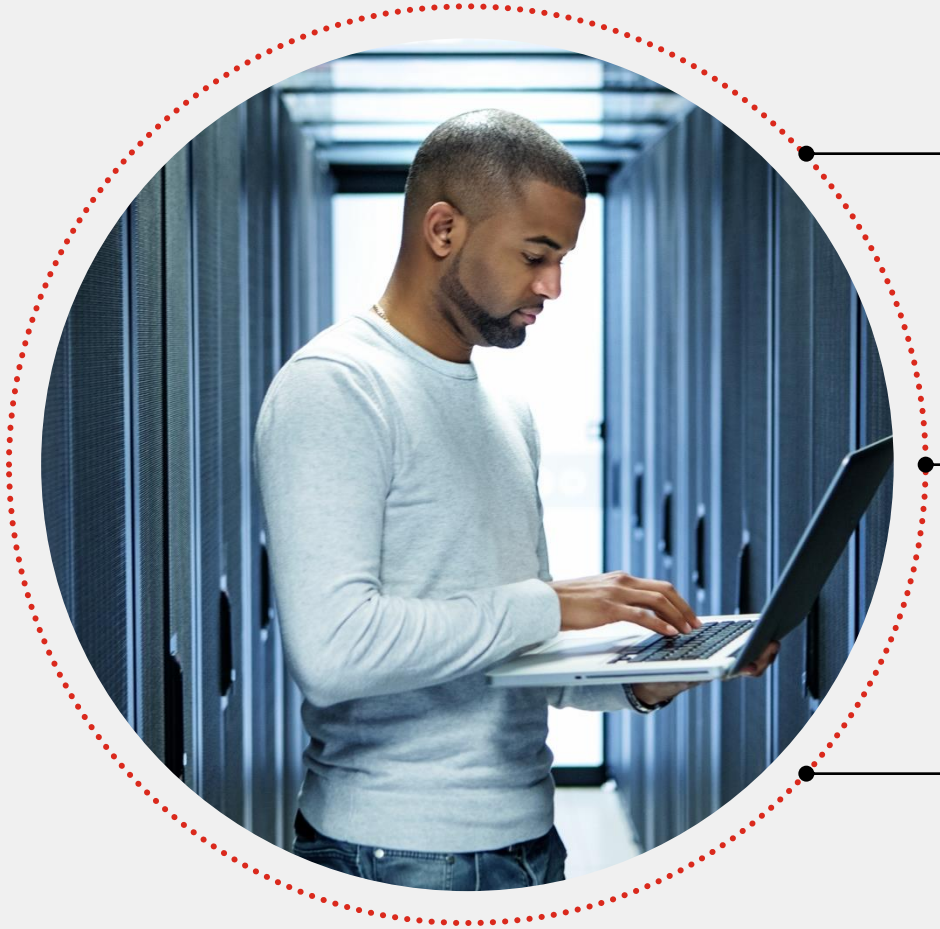
Delivering on Secure Connectivity Vision

A security-driven approach to networking through convergence



Secure

No other vendor offers tighter security integration

Easy

Single pane of glass to manage, automate, and orchestrate, security, wired, wireless and NAC

Intelligent

Native insights and recommendations for performance and resiliency. A rich data set for AI/ML to drive better outcomes and user experiences.

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