



FORTINET[®]



Smart Campus

Security & Efficiency

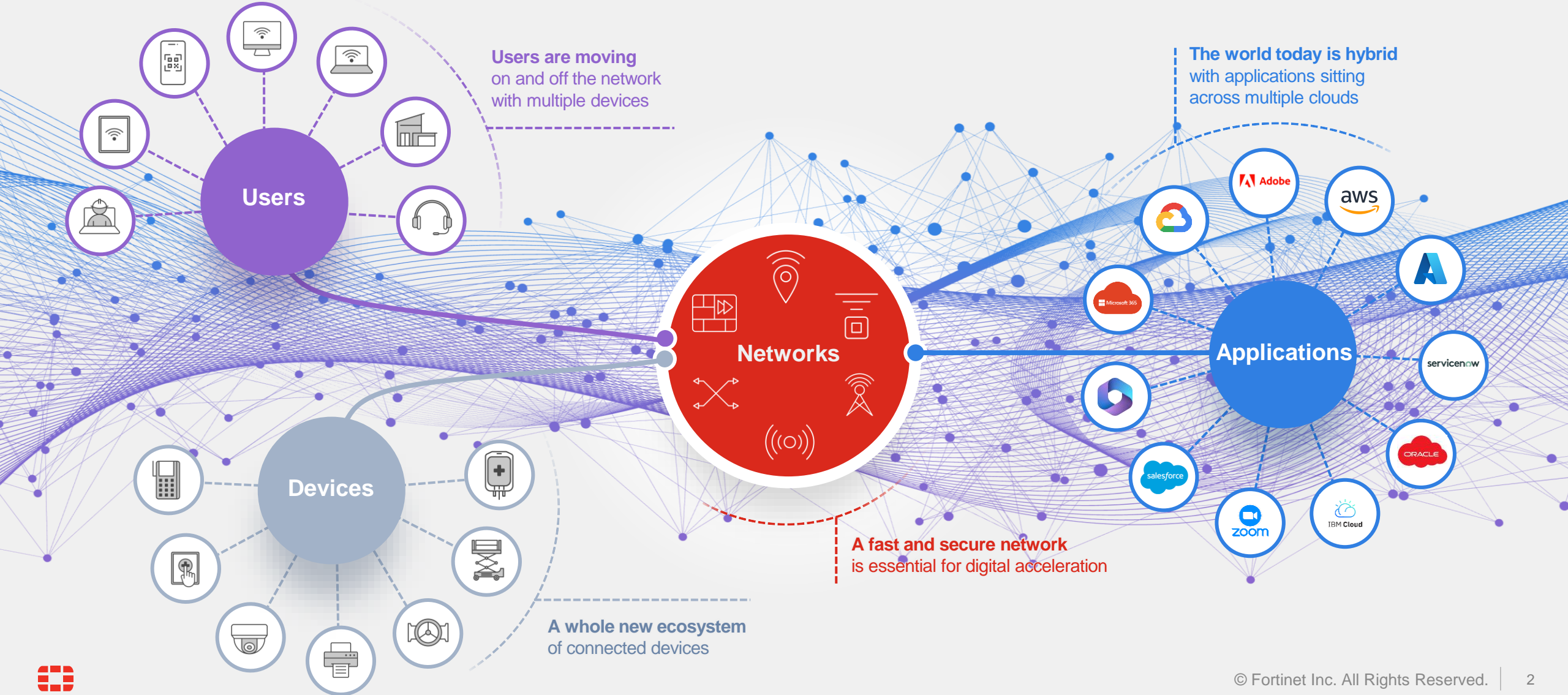
Jose Lozano, Systems Engineer





Infrastructure has become more Complex...

...leaving It Vulnerable to Attack





Threat Landscape Continues to Expand...

IoT

55.7B connected IoT devices projected by 2025.

IDC Future of Industry Ecosystems:
Shared Data and Insights





Threat Landscape Continues to Expand...



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





Threat Landscape Continues to Expand...



IoT



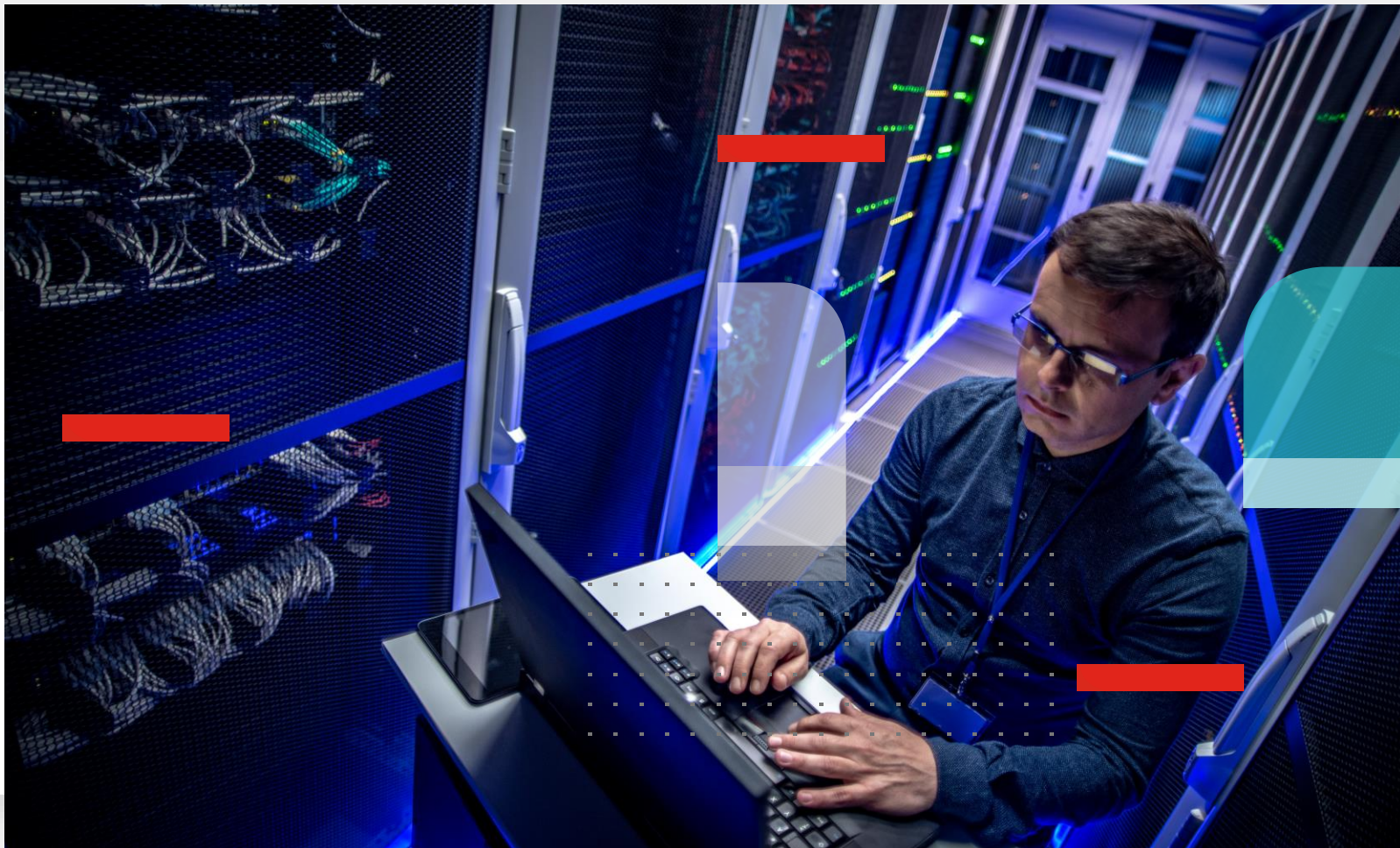
Users



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





The Fortinet Advantage



Respecting the environment

Mitigating our impact on climate change

Our net zero ambitions and approach

Climate change pledge

Net zero

By 2030

Scope 1 & Scope 2 emissions

SBTi committed

Our path to net zero

Scope 1 emissions

- Eliminate natural gas in our buildings
- Electrify our buildings
- Use renewable energy

Scope 2 emissions

- Invest in on-site and off-site green energy
- Use alternative refrigerant & cooling mechanisms

Scope 3 emissions

- Involve our partners and suppliers in our efforts
- Continue to improve the energy efficiency of our products and solutions
- Embed circular economy principles

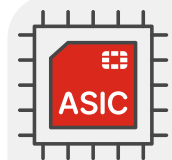
Reducing the environmental impact of our products

Continuously improving product energy efficiency

FortiGate power consumption per throughput
(Watts Max/Gbps)



* Based on comparison with equivalent product models from the previous generation.



88%

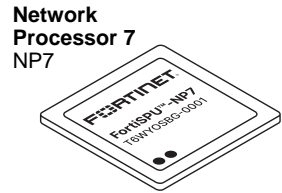
less power consumption

compared to industry-standard CPU



The SPU Advantage

Fortinet's Security Processors (SPUs) radically increase the speed, scale, efficiency and value of Fortinet solutions while greatly improving user experience, reducing footprint and power requirements. From entry-level to high-end solutions, SPU-powered Fortinet appliances deliver superior Security Compute Ratings versus industry alternatives.



Network Processors operate in-line to deliver unmatched performance for network functions and hyperscale for stateful firewall functions.

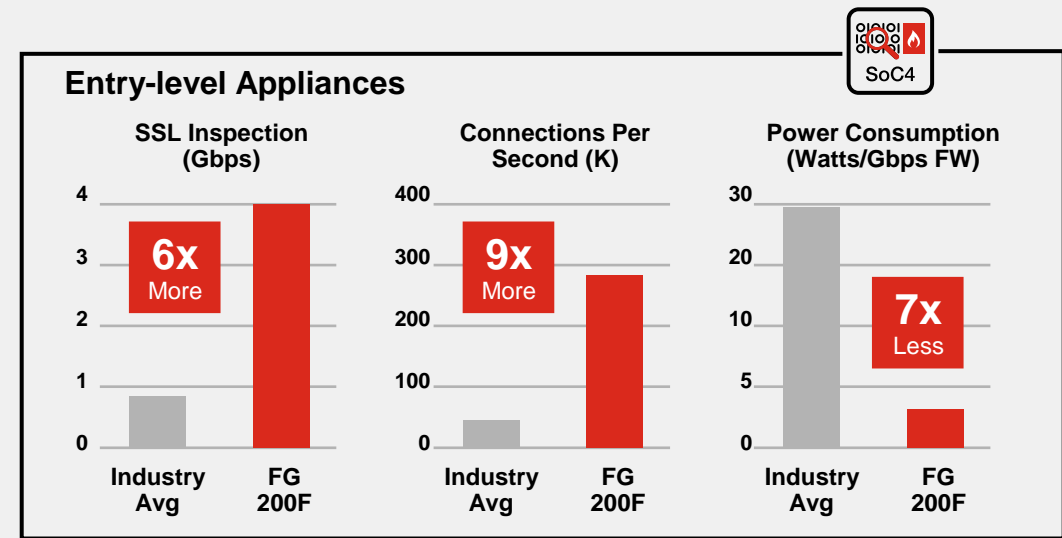
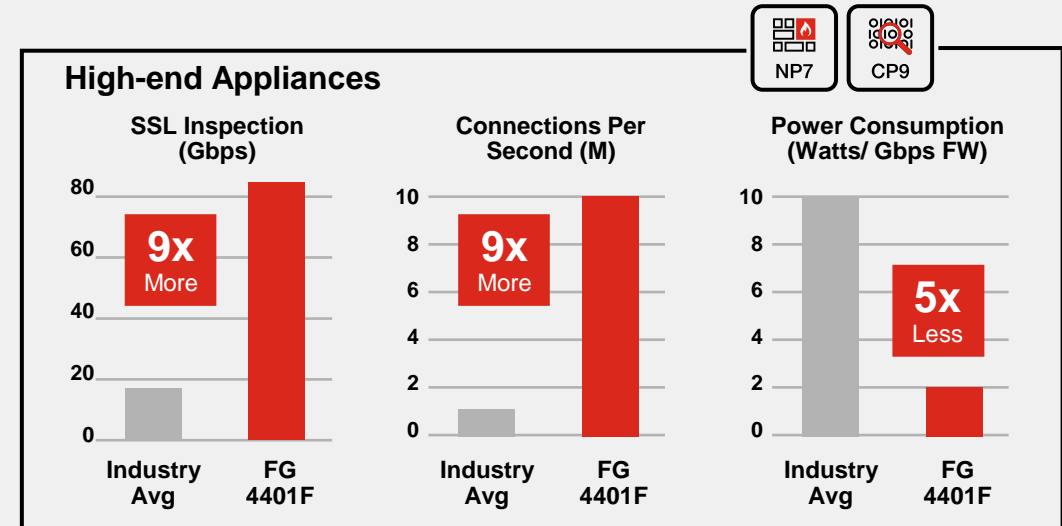


As a co-processor to the main CPU, Content Processors offload resource-intensive processing and drive content inspection to accelerate security functions.



The System-on-a-Chip consolidates network and content processing, delivering fast application identification, steering, and overlay performance.

Security Compute Ratings are benchmarks that compare the performance metrics of Fortinet SPU-based next-generation firewalls to similarly priced solutions from vendors that utilize generic processors for networking and security.

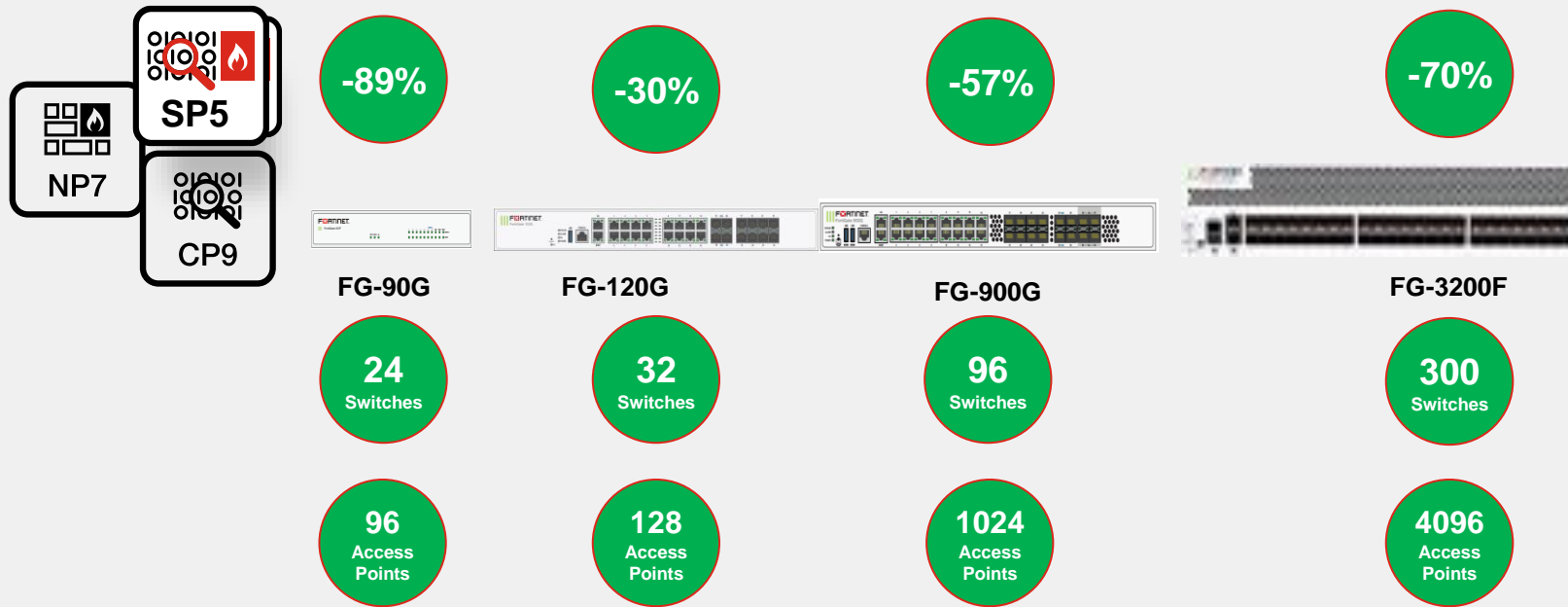


2023 Reduced 62% Power Consumption for a Cleaner Future

Continuous Improvement on Energy Consumption Across FortiGate Series Generations

Key Benefits

Advanced Threat Protection with Energy Saving



Environment Friendly

Cleaner future with most efficient energy consumption











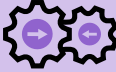




















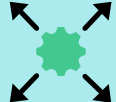





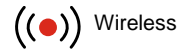



FG Models (Series F vs E) 2022	% saving Power Consumption	% saving Heat Dissipation
FortiGate-90G	-89%	-87%
FortiGate-120G Secure & Efficiency Connectivity	-30%	-29%
FortiGate-900G	-57%	-57%
FortiGate-3200F	-70%	-70%
Average	-62%	-61%

top 4 products sold (FortiGate G/F Series versus FortiGate E/D Series) in 2023.



Open Ecosystem

500+ Best-in-class integrated solutions for comprehensive protection

 <p>Fabric Connectors</p>	<p>Fortinet-developed deep integration automating security operations and policies</p>	 	 	 		 
 <p>Fabric APIs</p>	<p>Partner-developed integration using Fabric APIs providing broad visibility with end-to-end solutions</p>	 	 	 	 	 
 <p>Fabric DevOps</p>	<p>Community-driven DevOps scripts automating network and security provisioning, configuration, and orchestration</p>	 	 	 	 	
 <p>Extended Ecosystem</p>	<p>Integrations with threat sharing initiatives and other vendor technologies</p>	 	 	 	 	

Figures as of March 31, 2021

Note: Logos are a representative subset of the Security Fabric Ecosystem

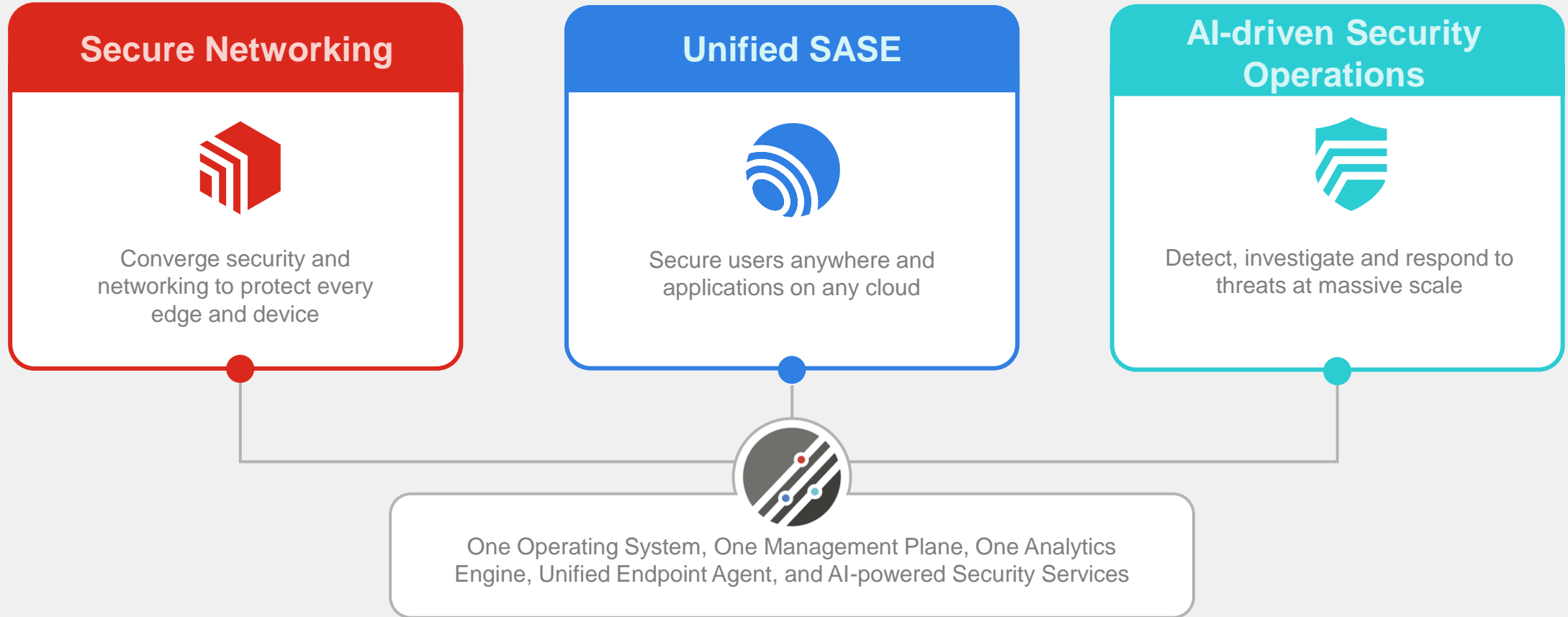


Secure Connectivity



The Fortinet Security Fabric Vision

Cybersecurity, everywhere you need it.



Extend Protection Across the Entire Network with Unified Security



Secure Networking

Hybrid Mesh Firewall



Evolution of NGFW to Hybrid Mesh Firewall for unified management that simplifies operations, reduces risk, and ensures compliance at scale



Accelerated ASIC



Branch



Campus



Data Center



Cloud Native



Virtual



FWaaS

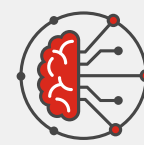
AI-Driven Technologies



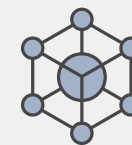
FortiOS



FortiGuard Labs



AI for Networking (AIOPS)



Unified Management

Secure Connectivity



FortiLink converges networking and security for secure WLAN/LAN equipment to provide security and automation, improve visibility and control, and reduce TCO.



FortiLink



FortiAP



FortiSwitch



FortiExtender



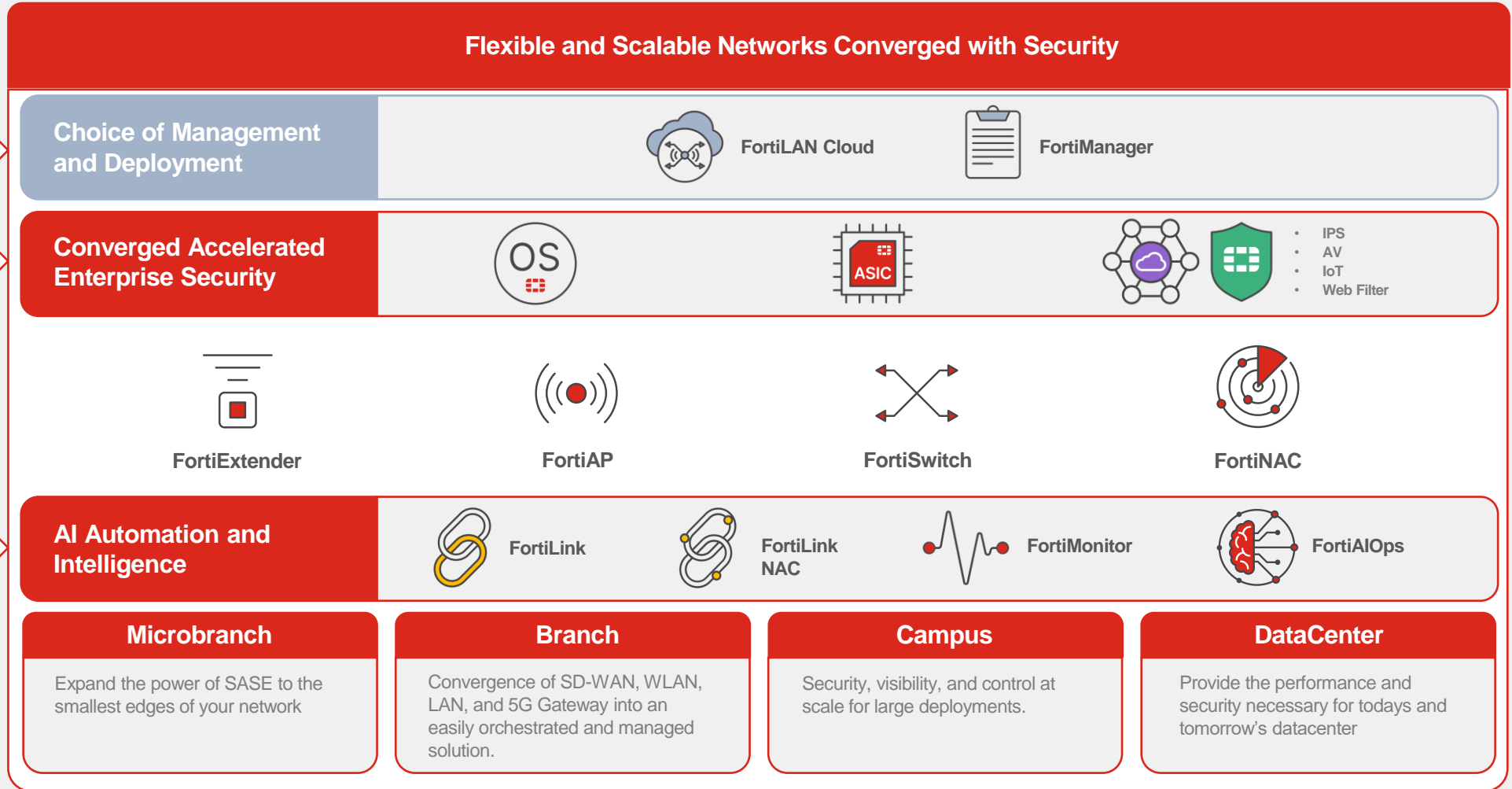
FortiNAC





Secure Connectivity

The power of convergence with a single platform



Flexible
Can be managed via cloud, virtual machine, or appliance

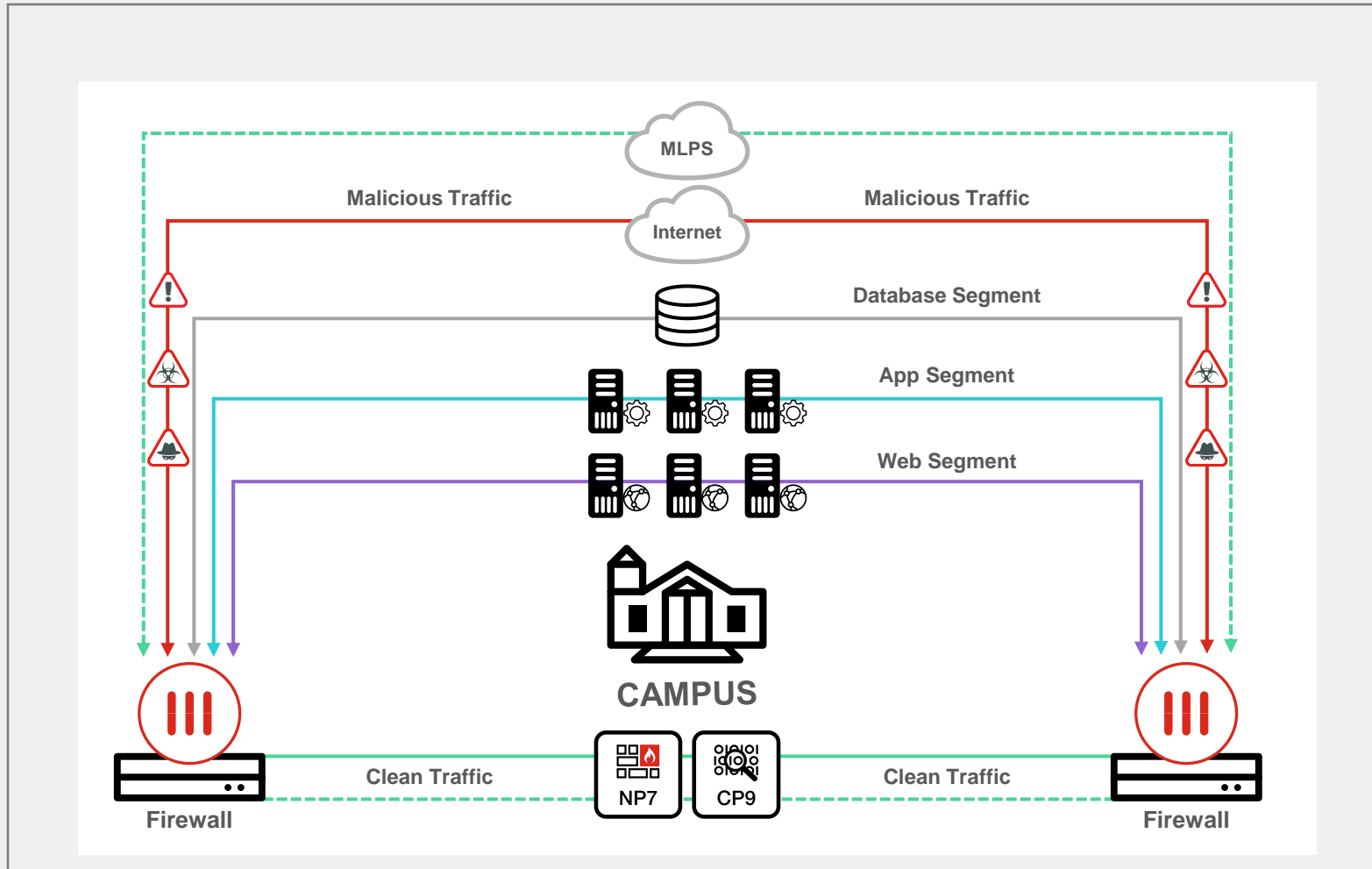
NGFW Security & Control
Best of Breed Security extended to the LAN

Full Visibility with Control
NAC functions with policy enforcement built in



Fortinet Flexible Segmentation Solutions

Manage Internal Risks



GOAL

- Prevent internal and external threats with advanced security inspection

CAPABILITIES

- Segmentation—Micro, macro (including VXLAN), network, applications, etc.
- ZTNA – end-to-end consistent policy
- Low latency, high speed and density I/O

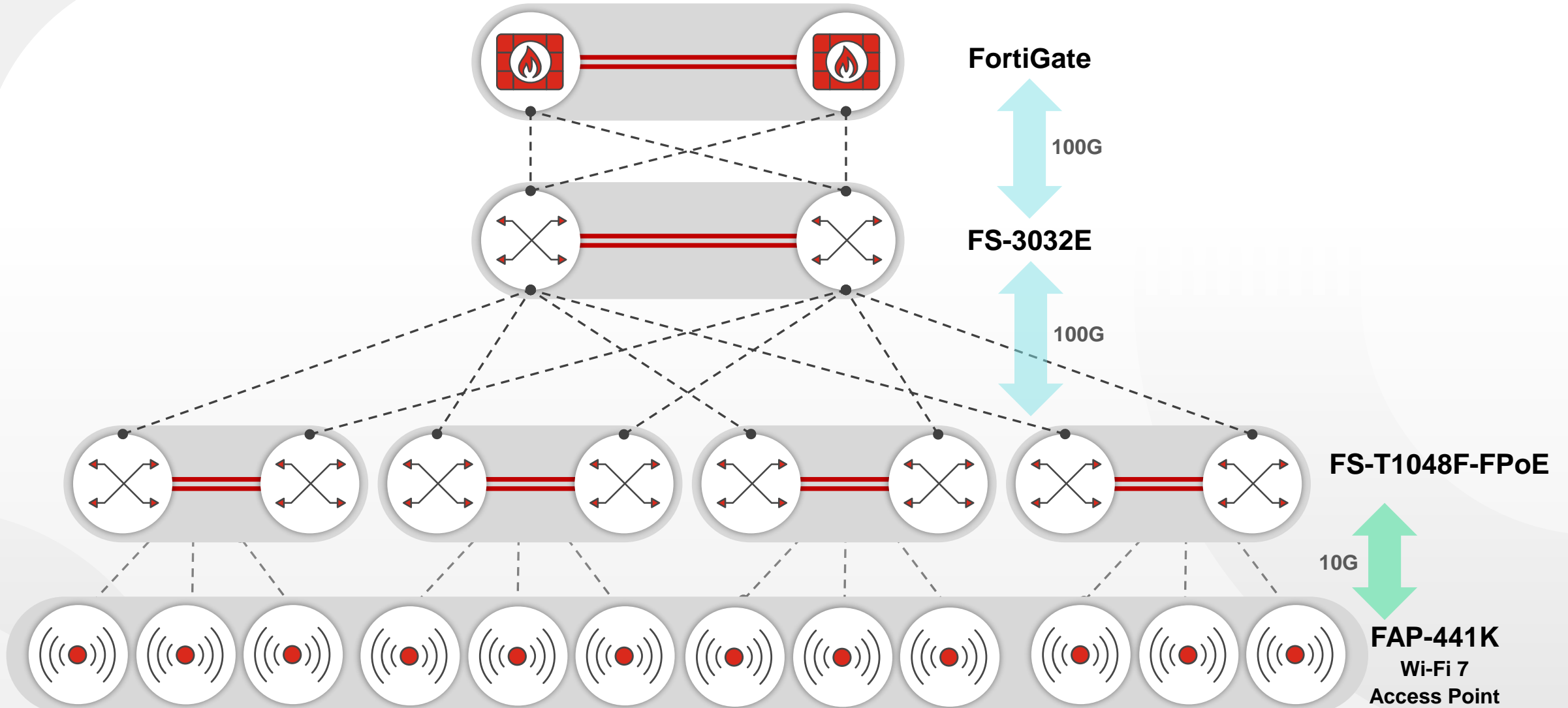
BENEFIT

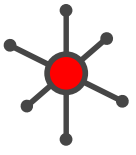
- Delivering strong user to application controls and compliance





High Performance Wired and Wireless Networking





Six Keys

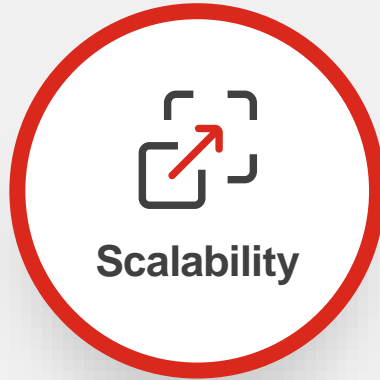
to an Intelligent Next-Generation Network



Visibility



Security



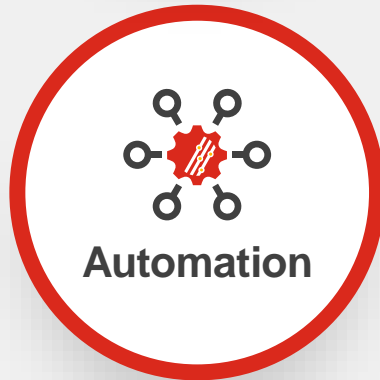
Scalability



Performance

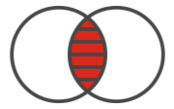


Management



Automation



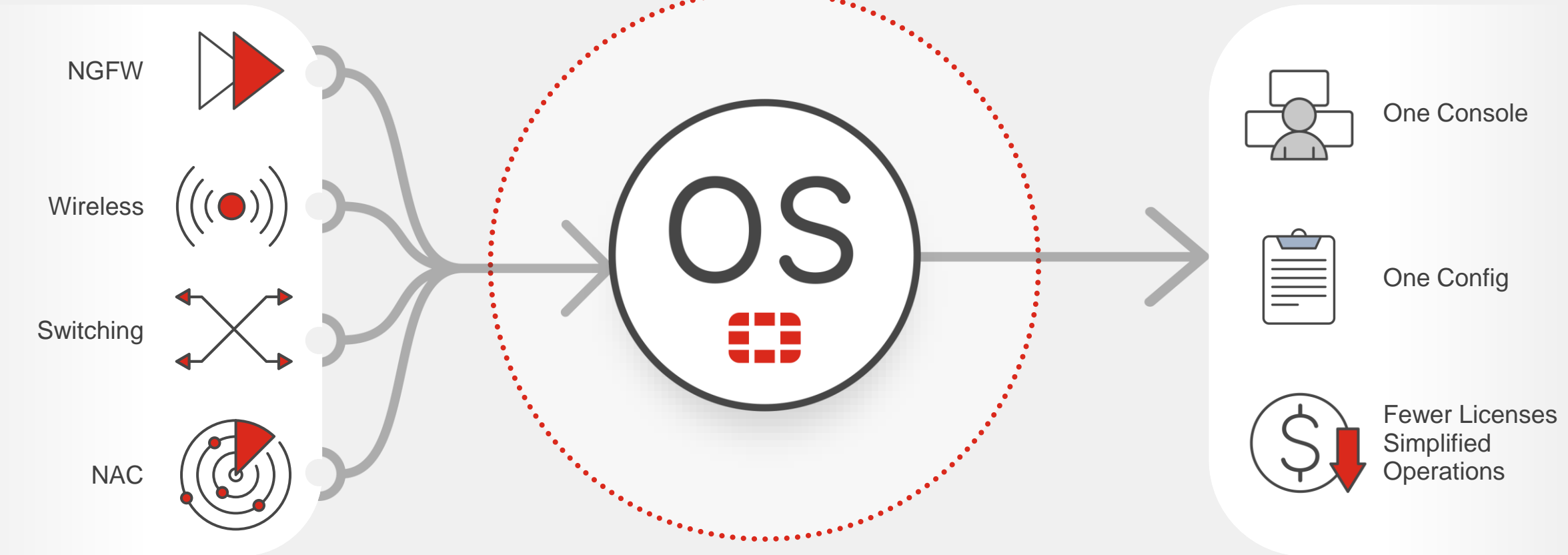


Convergence of Networking and Security

Enterprise Requirements

Convergence

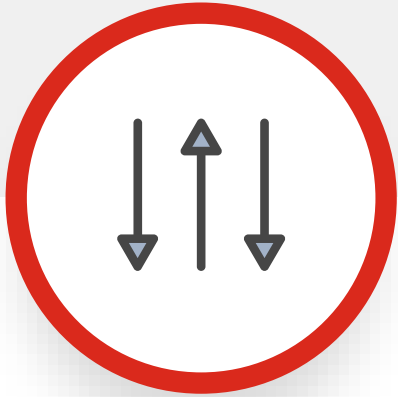
High ROI & Low TCO





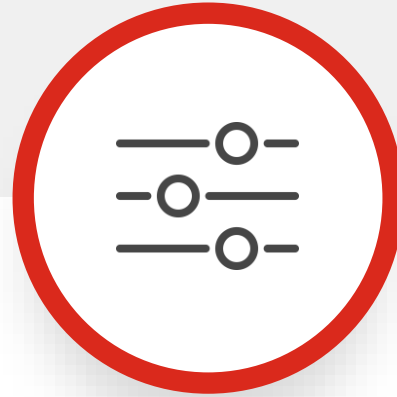
FortiLink

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



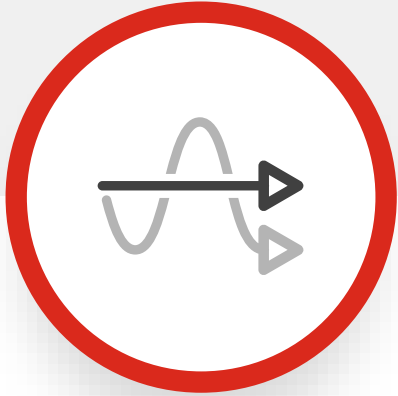
Management

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



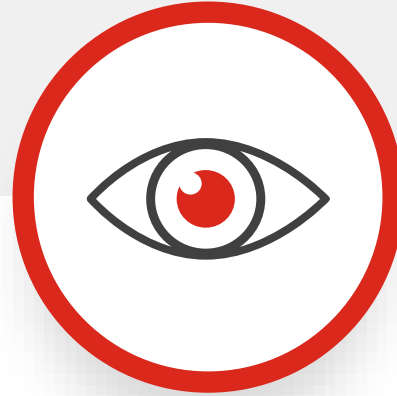
FortiLink NAC

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



Virtual Patching

Isolate and Protect Vulnerable Devices



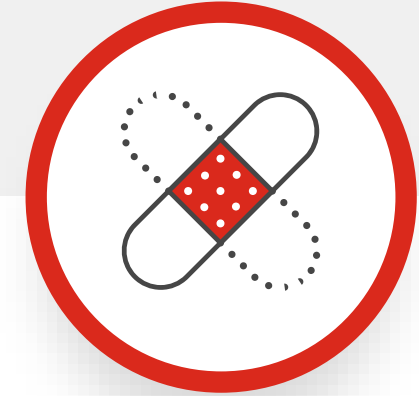
Identify Vulnerable

- 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

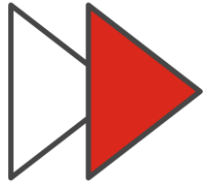


Virtual Patch

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

SD-Campus Product Components

FortiGate



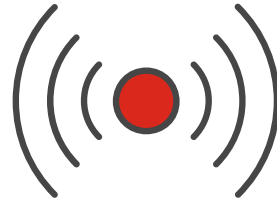
17+ models

Next Generation Firewall

WLAN Controller

Switch Controller

FortiAP

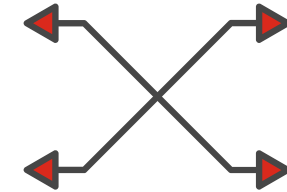


20+ models

- 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



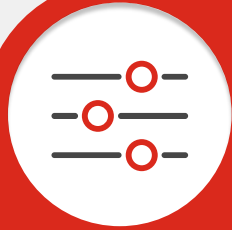
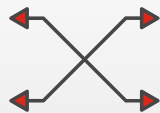


Zero Touch Deployment



Deploy

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



Configure

FortiGate sends a message to our deployment server



Run

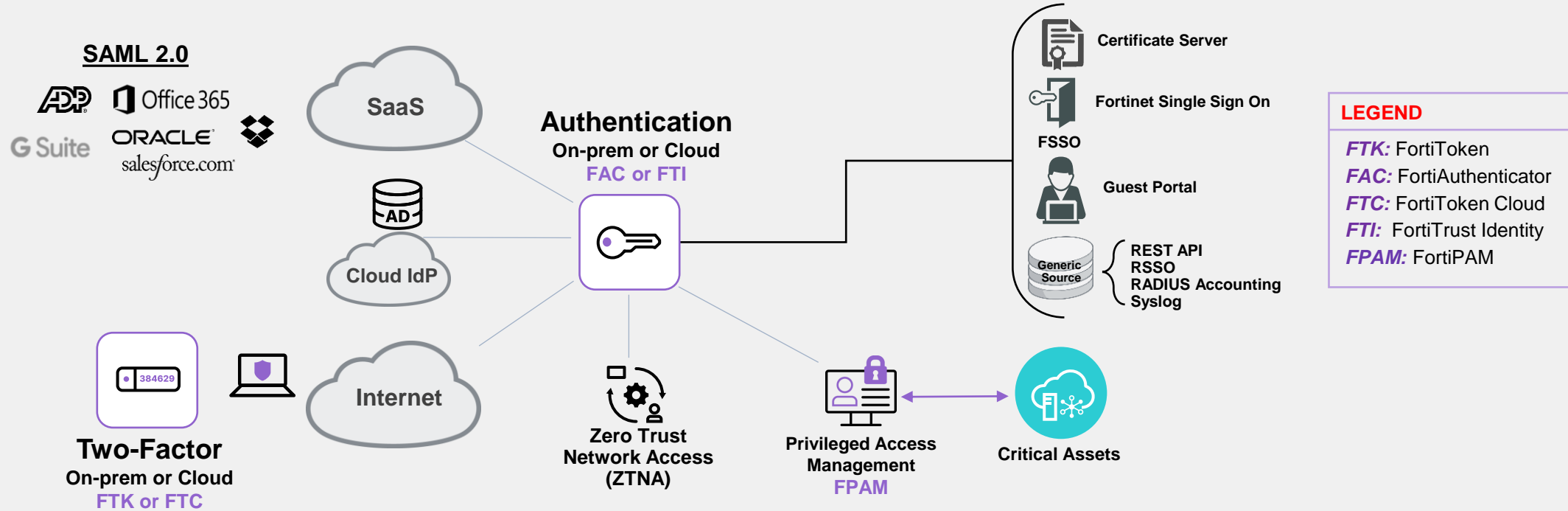
Deployment server pushes configuration to FortiGate, FortiSwitch and FortiAP

An aerial photograph of a large crowd of people walking on a light-colored paved plaza. The image is overlaid with several geometric shapes: a red rectangle in the top left, a purple rectangle in the top center, a red rectangle in the top right, a white semi-circle on the left side containing the text, a red rectangle in the bottom center, and a teal shape with a rounded corner in the bottom right. A grid of small black dots is visible in the top left and bottom right areas. A black arrow points from the top right towards the center. A small red and white logo is in the bottom left corner.

Identity and privilege access

Fortinet's Comprehensive IAM

Centralized Identity Lifecycle Management with Zero Trust



Authentication

Establish/re-verify identity through user log-in, certificate, and/or multifactor input

Role-based Access

Provide information from authentication source for use in accessing company resources

Single Sign On

Provide better user experience for logins while maintaining security

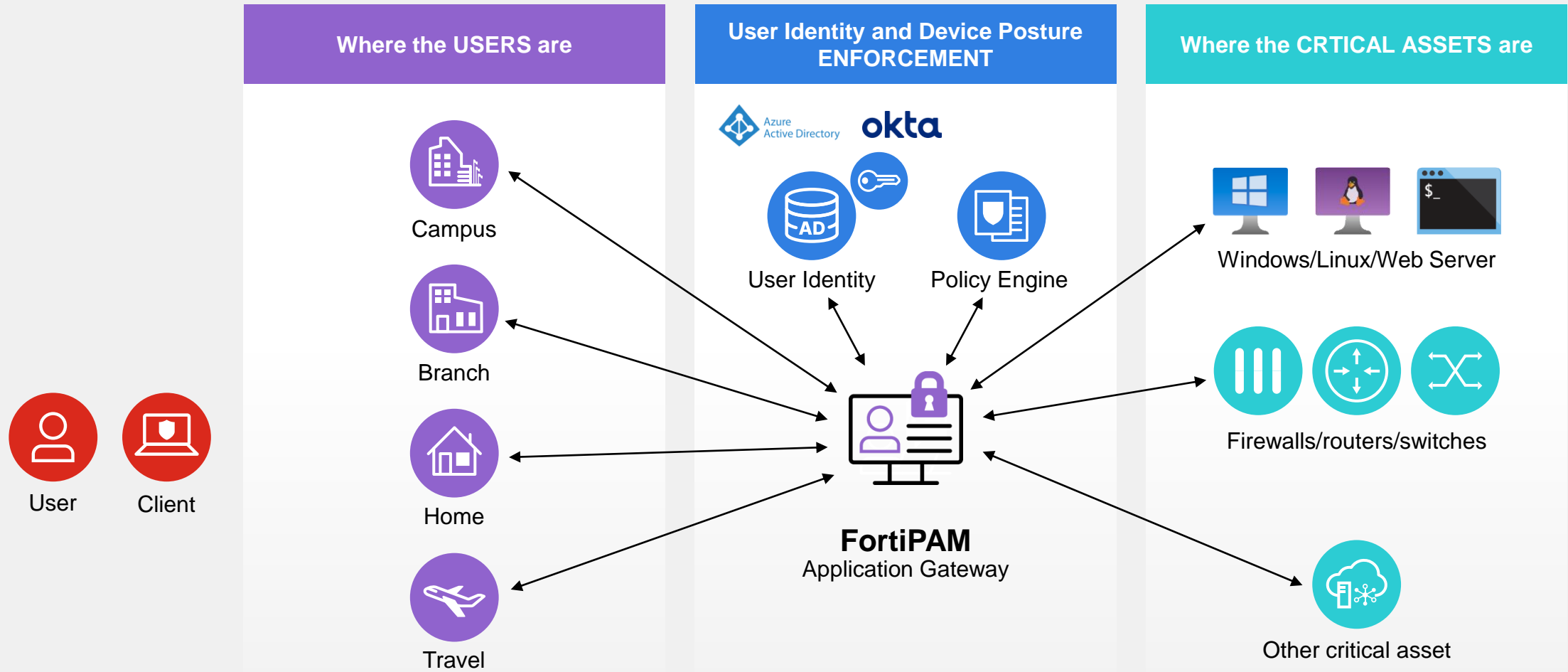
Zero Trust

Least privilege access based on identity to all resources

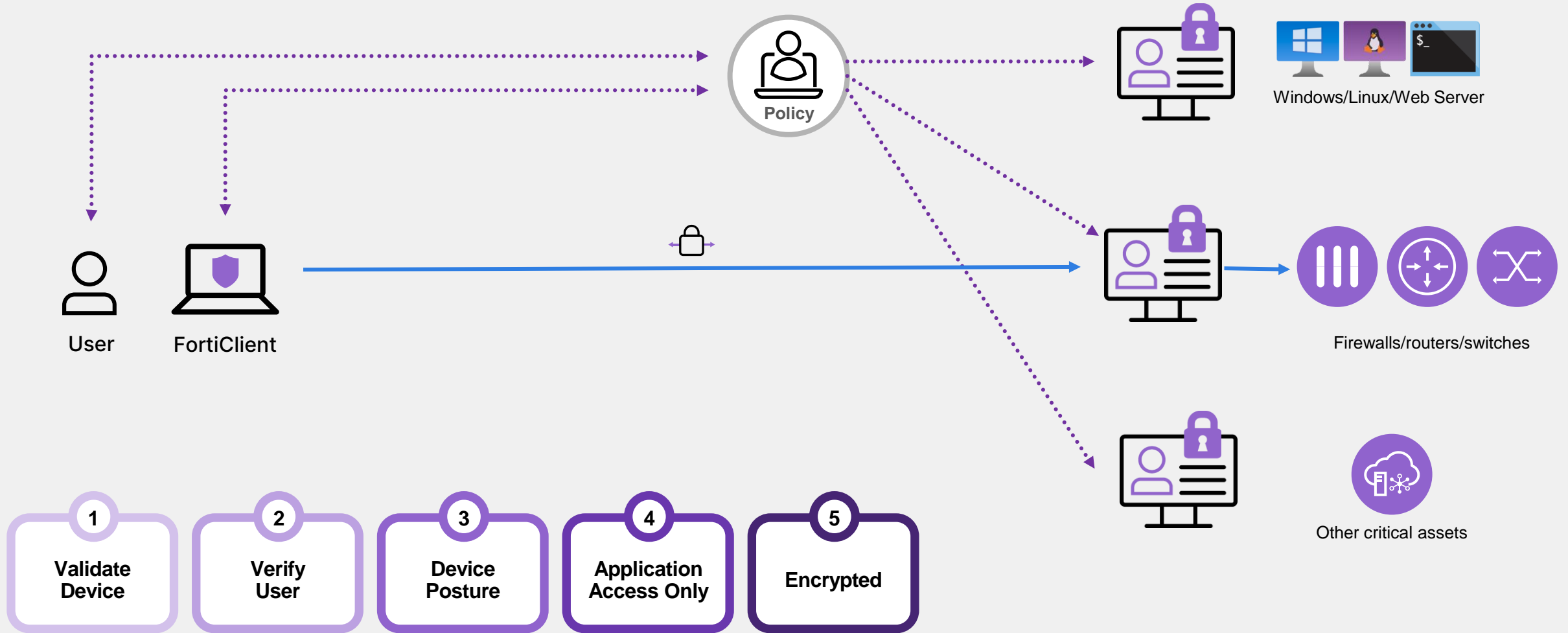


ZTNA Elements – FortiPAM as Application Gateway

The components of a client-based ZTNA PAM solution



FortiPAM ZTNA Operation



FORTINET®