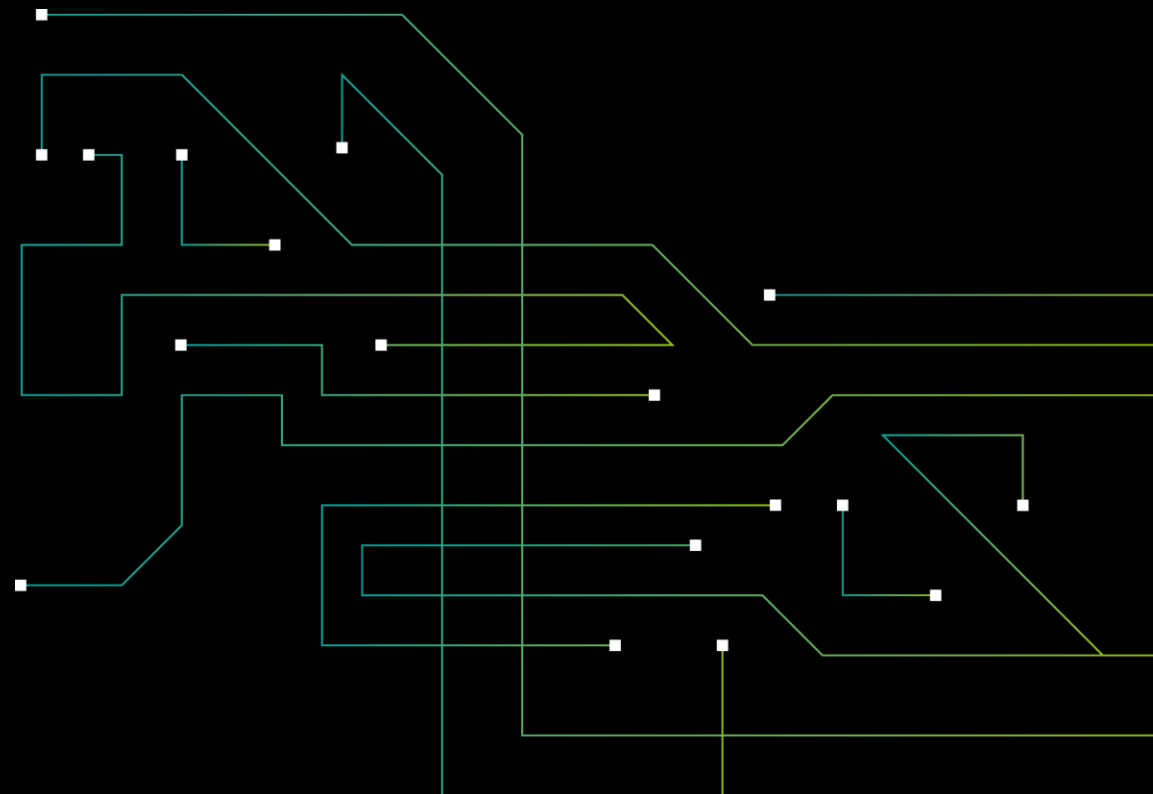


base it



# BASE-IT X FORTINET

UPDATES UND INNOVATIONEN FÜR IHRE SECURITY

MAXIMILIAN SCHIFFNER & DENNIS BUCHNER

professional.  
fast.  
secure.

# IHRE GASTGEBER FÜR DEN WEBCAST

base it



base-IT GmbH

**Dennis Buchner**

Teamleitung Network & Security

4 Jahre bei base-IT

Spezialisierung: Architekt, Solution Engineer, Azure Networking



Fortinet

**Maximilian Schiffner**

Systems Engineer

2 Jahre bei Fortinet

Zertifizierungen: FCF,FCA,FCP-NW,FCP-PC,FCX

# AGENDA

# UNSERE GEPLANTEN THEMEN FÜR HEUTE

**Security Fabric**

**1**

*Was ist Security Fabric?*

*Aktueller Überblick über die Fortinet Hardware*

**2**

**Hardware Overview**

**AI**

**3**

*Wie kann mir AI helfen?*

**4**

**FortiAI Demo**

**Q/A**

**5**



# The Fortinet Security Fabric Vision

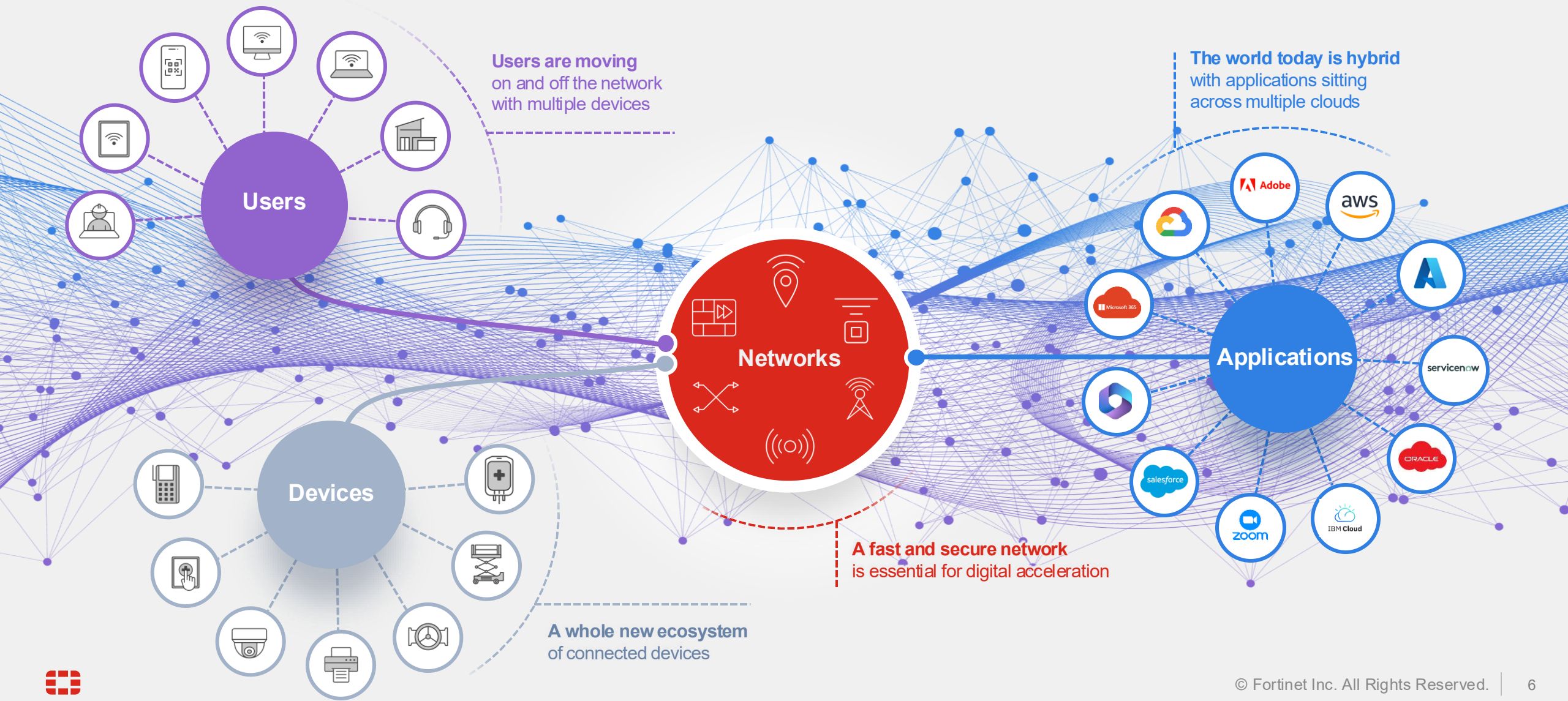
Fortify your Network





# Infrastructure has become more Complex...

...leaving It Vulnerable to Attack



# Recognized by Industry Analysts

## Gartner SD-WAN MQ

Sep. 2024 Magic Quadrant for SD-WAN

**Fortinet Recognized as a Leader**  
**Seven Years in a Row**

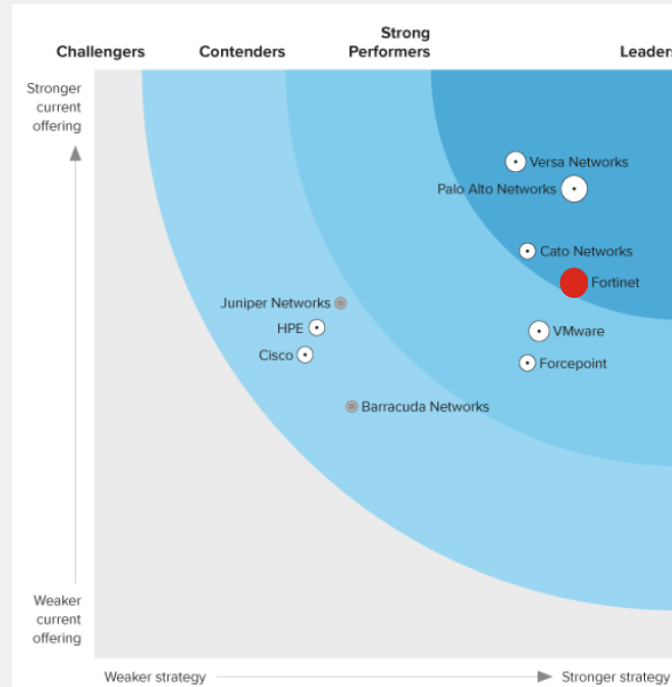
Figure 1: Magic Quadrant for SD-WAN



## Forrester SASE/ZTE Wave

Aug. 2023 Forrester Wave  
Zero Trust Edge Solutions

**Fortinet Recognized as a Leader**



## Gartner Peer Insights Customers' Choice

March 2024 Gartner SD-WAN Peer Insights

**Fortinet Receives Customers' Choice**  
**Five Years in a Row**



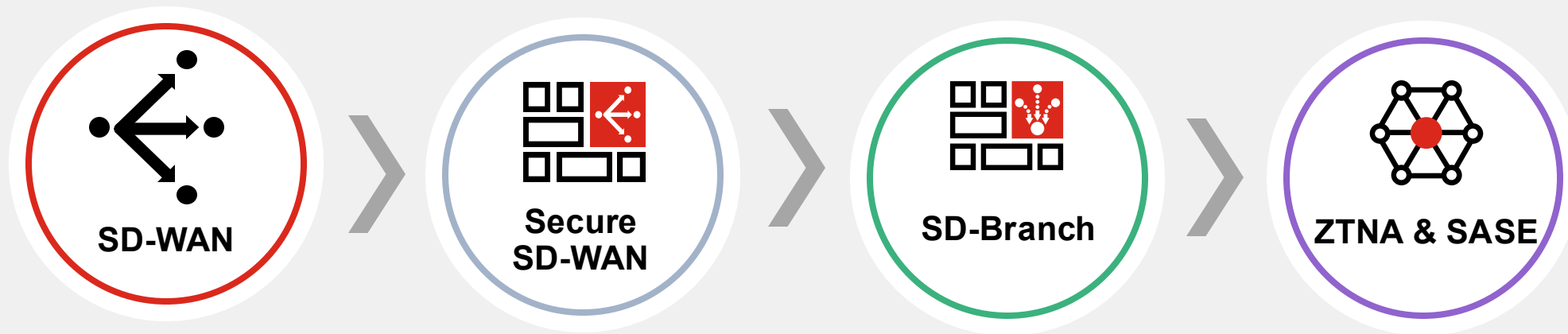
Gartner, Magic Quadrant for SD-WAN, Jonathan Forest, Karen Brown, Nauman Raja, 30 September 2024

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This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Fortinet.

# Evolution of SD-WAN from Point Product to The Platform



*Was all about network transformation replacing routers*

*Adding security services*

- *Build out SD-Branch with LAN integration*
- *Build out WAN with 5G*

- *ZTNA and SASE integration*
- *Multi-cloud and cloud on-ramp*

**FORTINET®**





# Network Challenges

Complexity of operations for fragmented networks



**Manual  
operations**

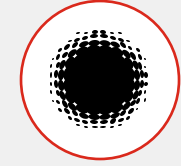
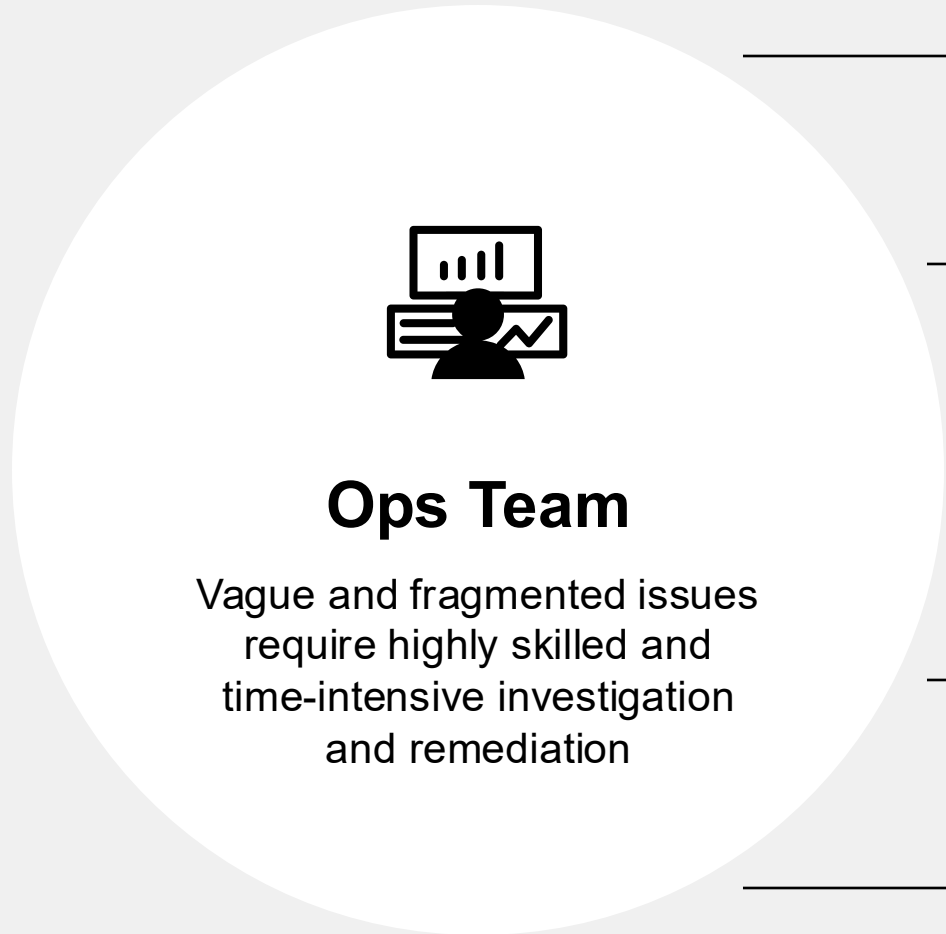


**Visibility**



**Finding  
root cause**

# Operational Challenges



Too much data to monitor



High level of expertise required across wireless, LAN, WAN / SD-WAN



Time consuming troubleshooting process



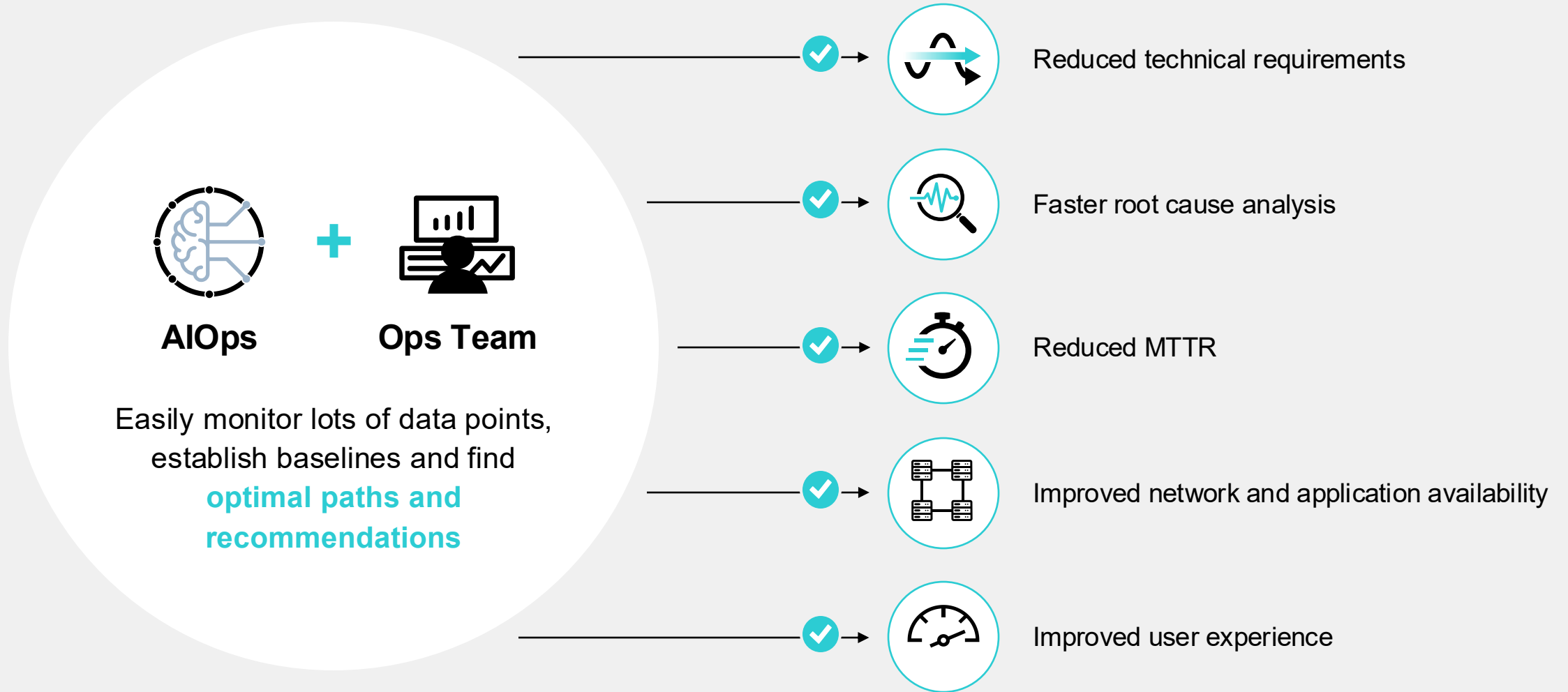
Triaging skillset varies by vertical and scenario



Unused or poorly utilized network resources



# AIOps Outcomes



# How Does Artificial Intelligence Help?

Artificial intelligence with machine learning (AI / ML) for network operations



**Processes event**  
logs from all  
network devices  
across the  
deployment



**Predicts failure**  
type based on  
trained ML models



**Reviews state**  
and configurations  
to quickly drive to  
root cause



**Provides client**  
level remediation  
to overcome the  
failure



# Fortinet's Secure LAN Vision Powered by FortiLink

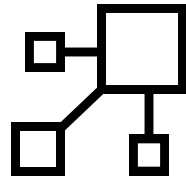
A secure approach to networking through convergence

## Secure



Convergence of security and network access

## Easy



Easy to Purchase  
Easy to Deploy  
Easy to Secure  
Easy to Manage

## Intelligent



Intelligent and resilient networking out of the box, with centralized data augmented by AI NetOps

**Building, securing and managing** local area networks doesn't have to be challenging, time consuming and expensive.



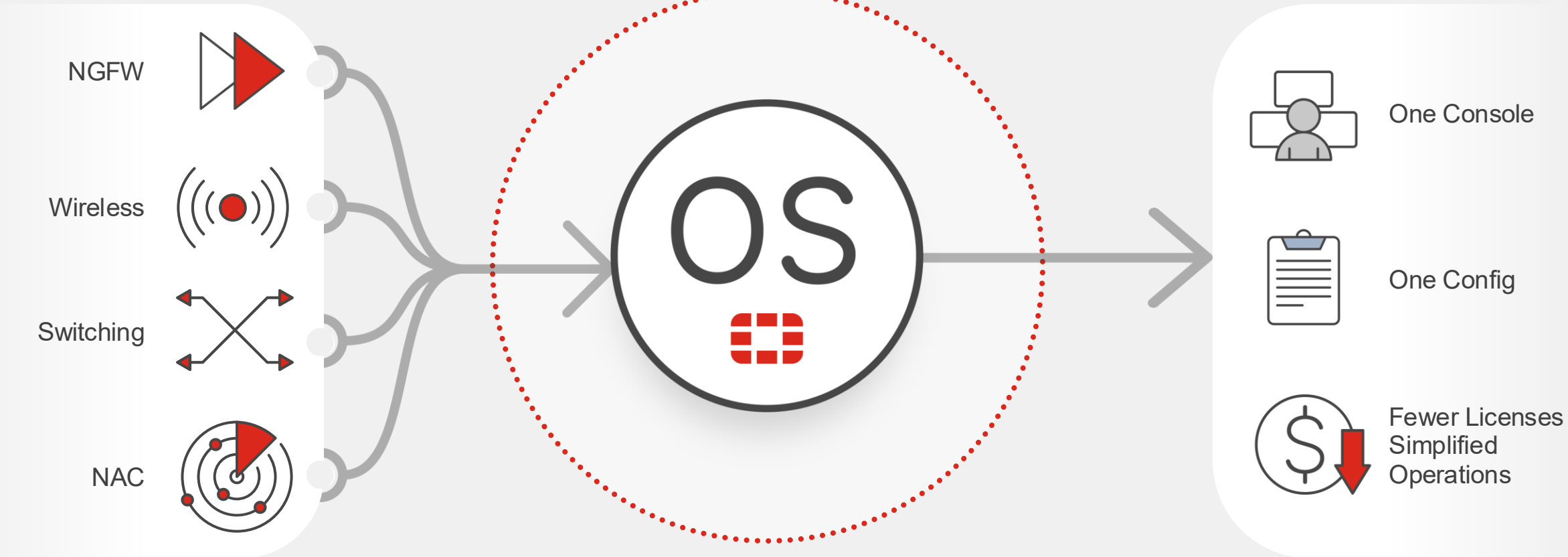


# Convergence of Networking and Security

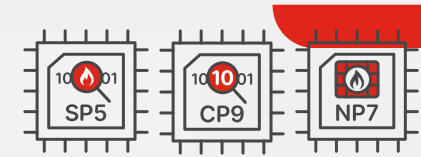
## Enterprise Requirements

## Convergence

## High ROI & Low TCO



# Fortinet FortiGate Portfolio



Over 150 purpose-build ASIC-based firewalls for the industry-leading threat protection

## Branch (40-90 Series)

## Campus (100-900 Series)

## Data Center (1000-4000 Series)

## Large Data Center (6000-7000 Series)

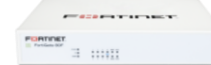
- POE
- SSD
- DSL
- 3G  
4G
- WLAN
- Secure SD-WAN
- OT Deployments
- By-pass
- Rugged



**FG-40F Series**  
0.6 Gbps  
Threat Protection



**FG-60F Series**  
0.7 Gbps  
Threat Protection



**FG-80F Series**  
0.9 Gbps  
Threat Protection



**FG-90G Series**  
2.2 Gbps  
Threat Protection



**FG-200F Series**  
3 Gbps  
Threat Protection



**FG-400F Series**  
ULL Ports  
9 Gbps  
Threat Protection



**FG-600F Series**  
ULL Series  
10.5 Gbps  
Threat Protection



**FG-900G Series**  
20 Gbps  
Threat Protection



**FG-1000F Series**  
13 Gbps  
Threat Protection



**FG-1800F Series**  
15 Gbps  
Threat Protection



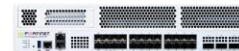
**FG-2600F Series**  
15 Gbps  
Threat Protection



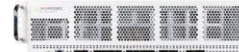
**FG-3200F Series**  
45 Gbps  
Threat Protection



**FG-3500F Series**  
63 Gbps  
Threat Protection



**FG-3700F Series**  
75 Gbps  
Threat Protection



**FG-4000F Series**  
45 – 70 Gbps  
Threat Protection



**FG-6300F Series**  
60 Gbps  
Threat Protection



**FG-6500F Series**  
100 Gbps  
Threat Protection



**FG-7000F Series**  
50 - 520 Gbps  
Threat Protection

**Convergence networking security SD-WAN / WLAN / 5G**

**Granular policies for east-west traffic management**

Broad-based variants for wider use cases

4X industry average threat protection

Integrated ZTNA

VXLAN Deployment

Ultra-low latency

400GE Built-in Ports

Advanced network segmentation and granular policies for comprehensive threat prevention  
 Industry-leading AI/ML-driven NGFW with inline L7 inspection and SSL encryption in ASIC-based appliances  
 Operates with 88% less power consumption than industry-standard CPUs  
 Single platform to implement firewall or proxy architecture



## 5<sup>th</sup> Gen System on a Chip

7 nm Technology

## Secure Boot

## Industry-Leading

Performance Per Watt

# 88%

Less Power Consumption  
Compared to Leading  
Industry-Standard CPUs

## 2.5Gbps

SSL Deep Inspection

Dual Cluster

## CPU

Octa Core

## 32x Encryption

Hardware-Accelerated Encryption

FORTINET®

## FortiSP5

T6WYOSBG-0001

● ● A

## Interfaces

1G / 2.5G / 5G /  
10G / 40G

## NP7 lite + CP 10

Security Processing Unit

## VXLAN / GRE / QoS

Hardware-Accelerated Encapsulation  
and Traffic Shaping

Volumetric  
**DDoS**  
Protection

# 17x

Security Compute Rating for  
Firewall Performance vs. Leading  
Industry-Standard CPUs



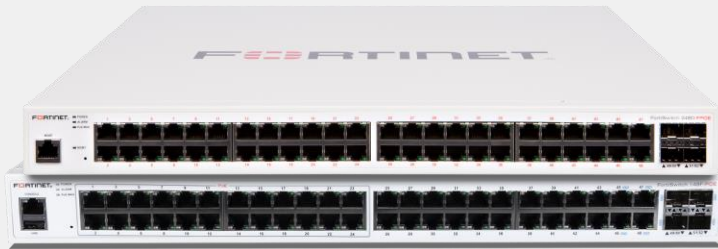


# AP Models

- Wi-Fi Wave2 / 6 / 6E / 7
- Rugged & Outdoor options
- Wallplate / desktop options
- Tri-radio with scanning options
- UTM onboard capable
- Remote AP capable



# FortiSwitch Portfolio



## Access Family 100/200 Series

8 / 24 / 48 Port 1GE access options  
POE+ Capable  
Uplinks options 1GE / 10GE (Transceiver)  
Layer 2 or 3



## Campus Family 400/500/600 Series

24 / 32 / 48 Multi-GE options  
PoE options up to 90W 802.3bt PoE  
Uplinks options 10GE / 40 GE uplinks / 25GE (Transceiver)  
Dual AC Power  
Layer 3



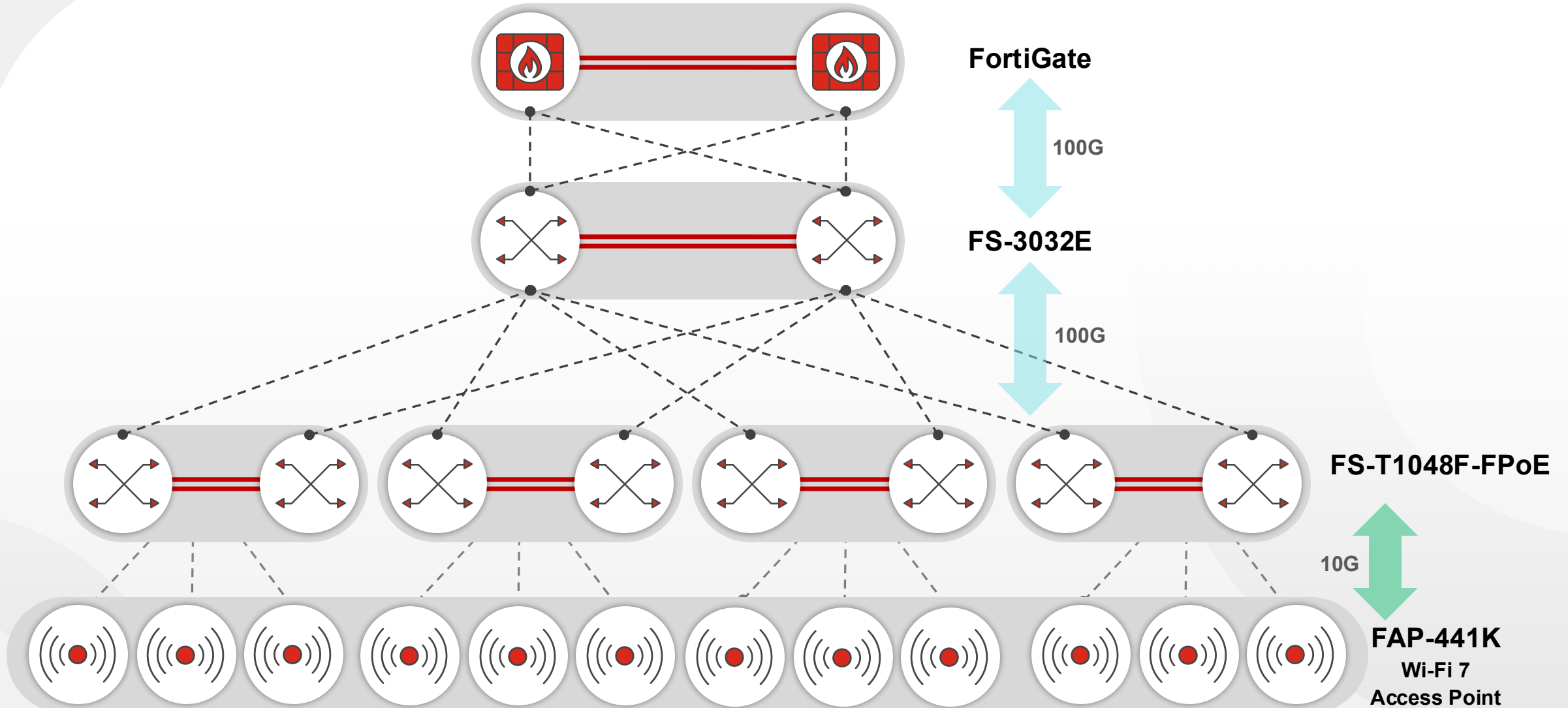
## Campus Core Family 1000/2000/3000 Series

24 / 32 / 48 Port 10GE / 25GE / 100GE (Transceiver/RJ45)  
Uplinks 25GE / 40GE / 100 GE (Transceiver)  
802.3bt PoE capable (T series only)  
Dual hot swappable AC power supplies  
Layer 3





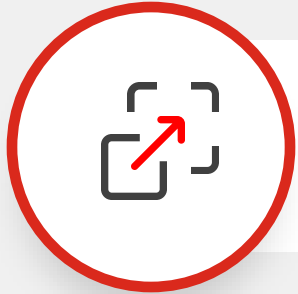
# High Performance Wired and Wireless Networking



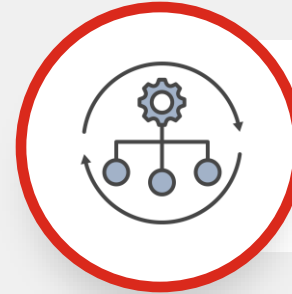


# Fortinet Secure LAN

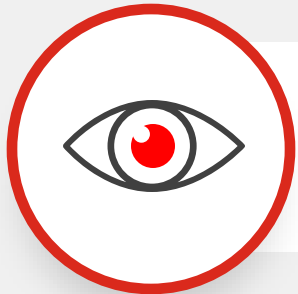
## Key Takeaways



Scalable Performance



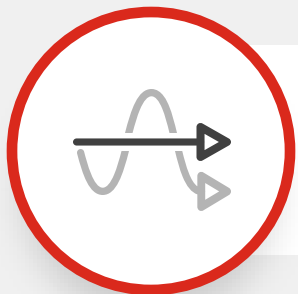
Zero Touch Deployment  
and Orchestration



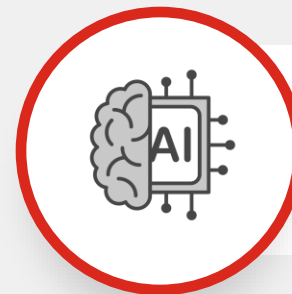
Visibility and Control  
of every user and device



Management of Security  
and Access via single console

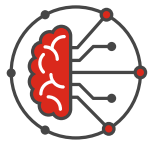


No complex licensing



Built-In Intelligence





# FortiAIOps

Artificial Intelligence with Machine Learning for the Security Fabric



## Monitoring

- Trend analysis / Historical baselines
- Network visualization



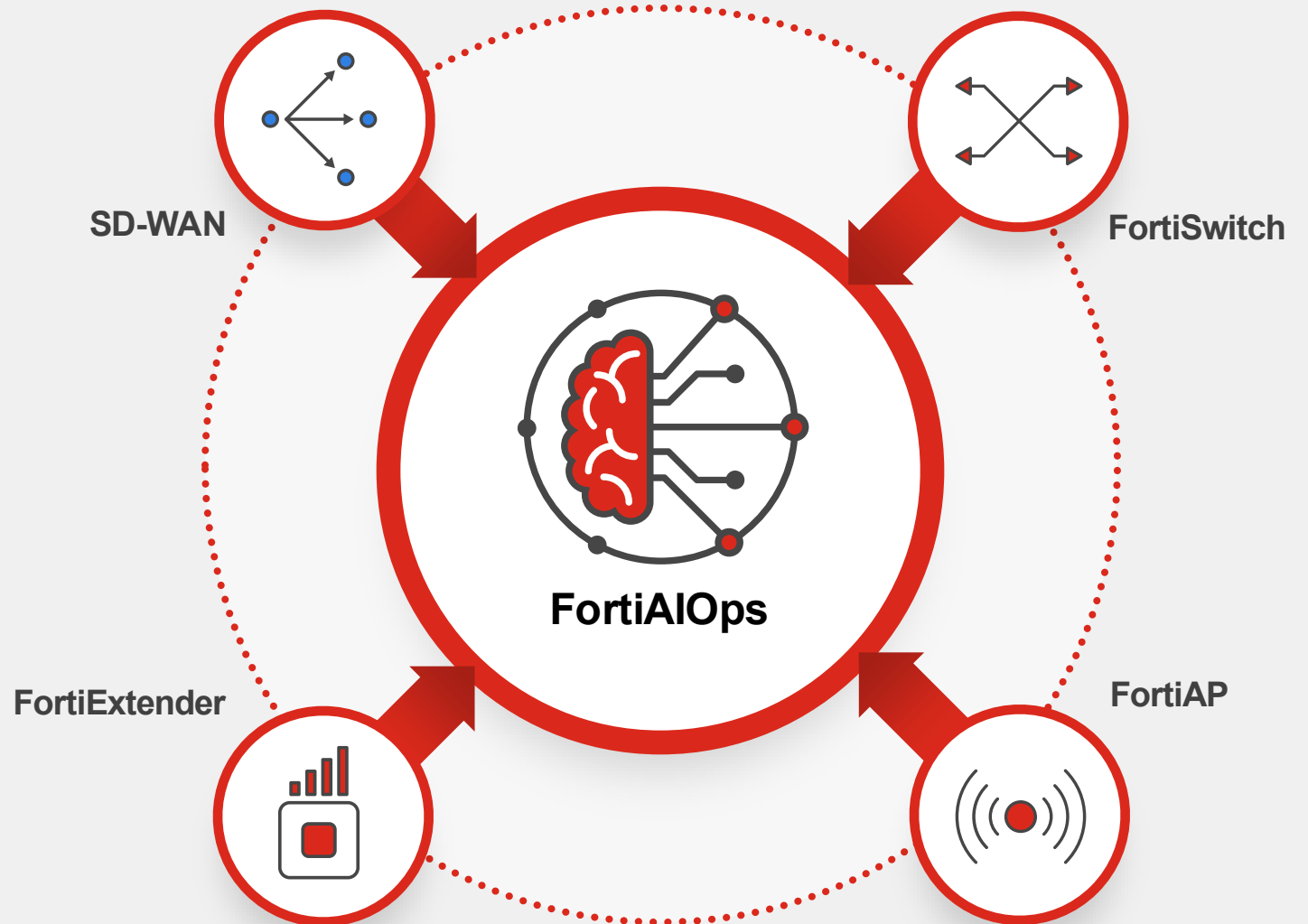
## Troubleshooting

- Wireless service assurance
- Spectrum analysis
- Heatmaps
- Cable test
- Application visibility



## Artificial Intelligence

- Dynamic baselining
- Triage of issues
- Recommended remediation



# AIOps Vision



**Descriptive**  
Baselining

**Diagnostics**  
Triaging



**Predictive**  
Recommendations  
and Optimization

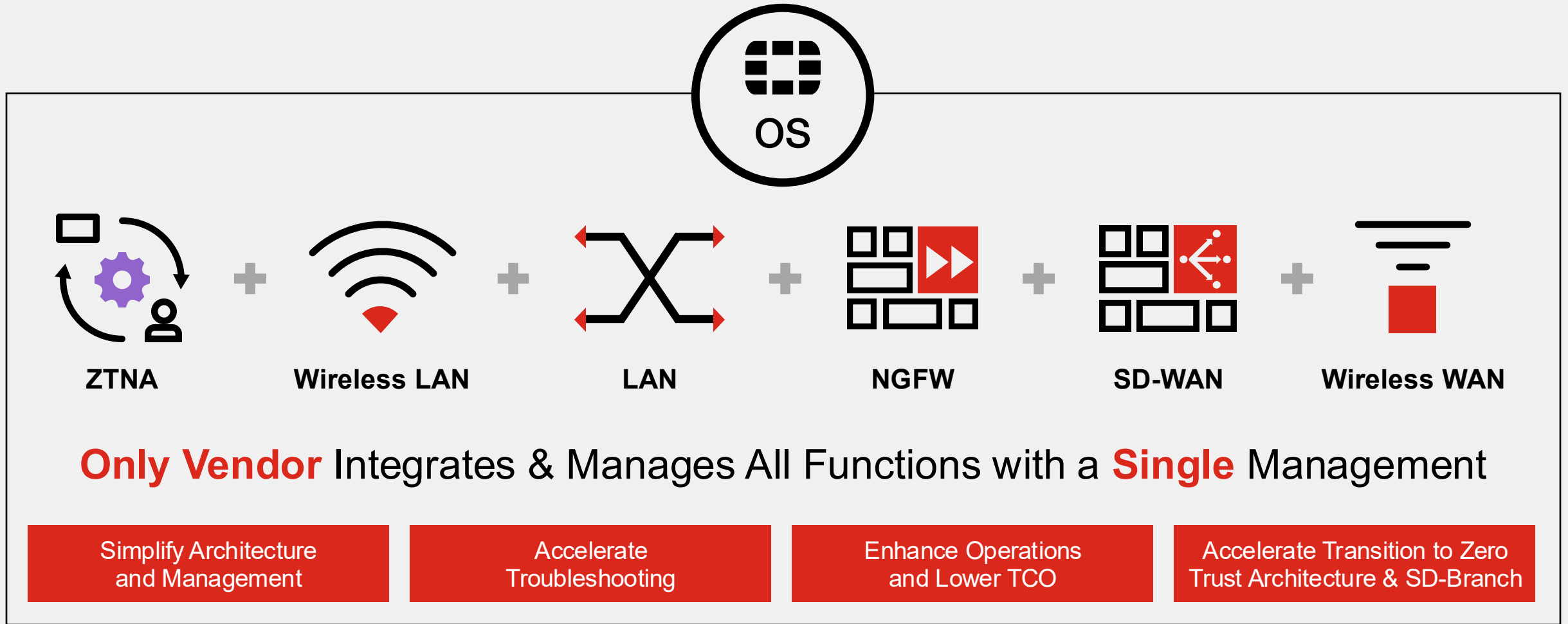
**Prescribe**  
Self-Healing



# Tight Integration With LAN, WLAN, WWAN, ZTNA



Transition to support SD-Branch, SASE and Zero Trust Edge



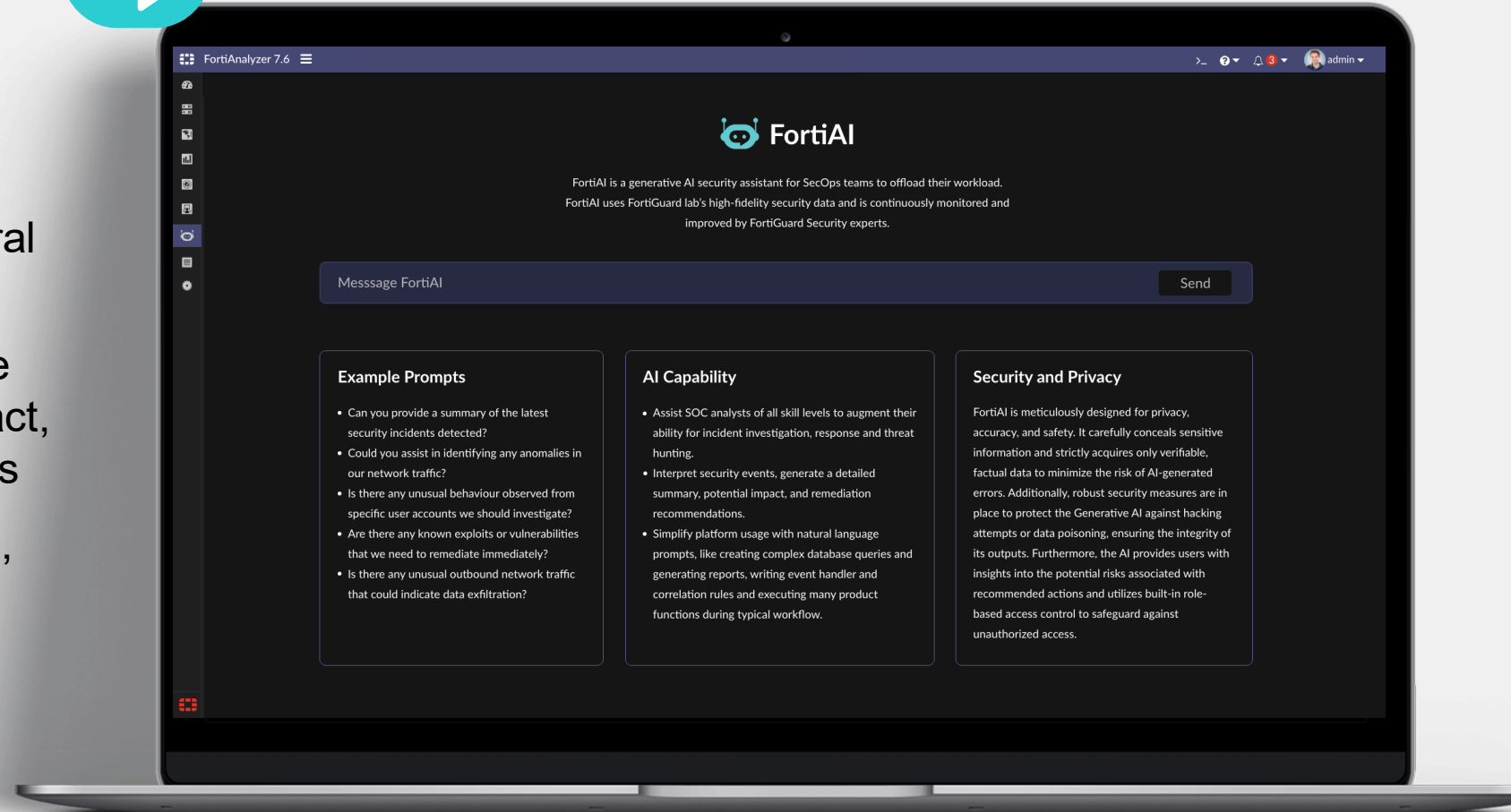


# FortiAI Assistant

Generative AI Augmented SecOps



- Reduces Security Operations workload
- Simplify platform usage with natural language prompts
- Interpret security events, generate summaries, assess potential impact, and remediation recommendations
- Create complex database queries, reports, event handlers and SIEM detection rules

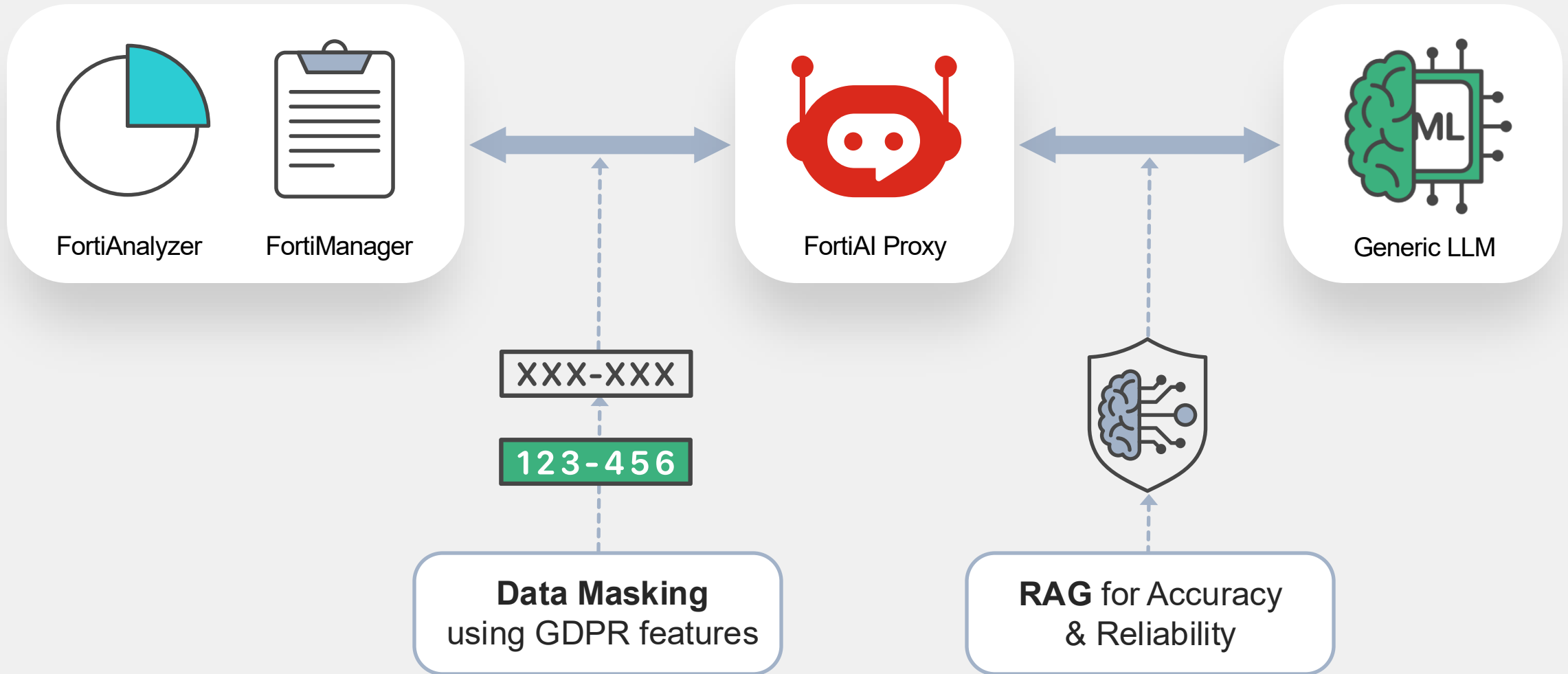






# FortiAI Proxy & Data Privacy

Generative AI Augmented SecOps





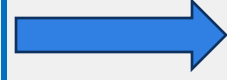
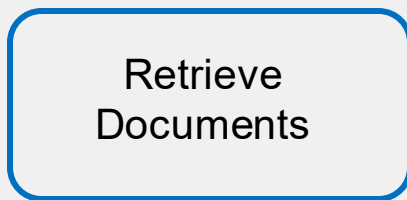
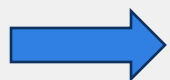
# Retrieval Augmented Generation (RAG)

Close Look at RAG

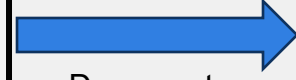
## 1. Document retrieval and ingestion



Knowledge Base  
(Guides, PDFs)



Documents



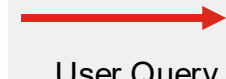
Documents embedding



## 2. User query & response

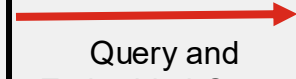


Query



User Query

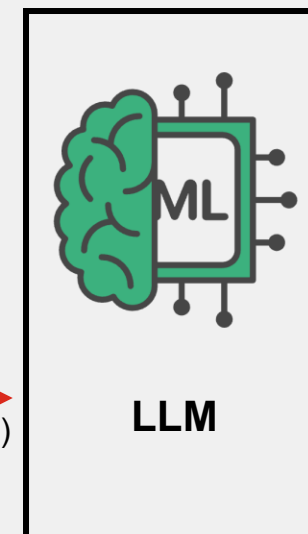
Embedding Model



Query and Embedded Query



Prompt (Instruction)  
+ Query  
+ Enhanced Content



Streamed text response (generative)

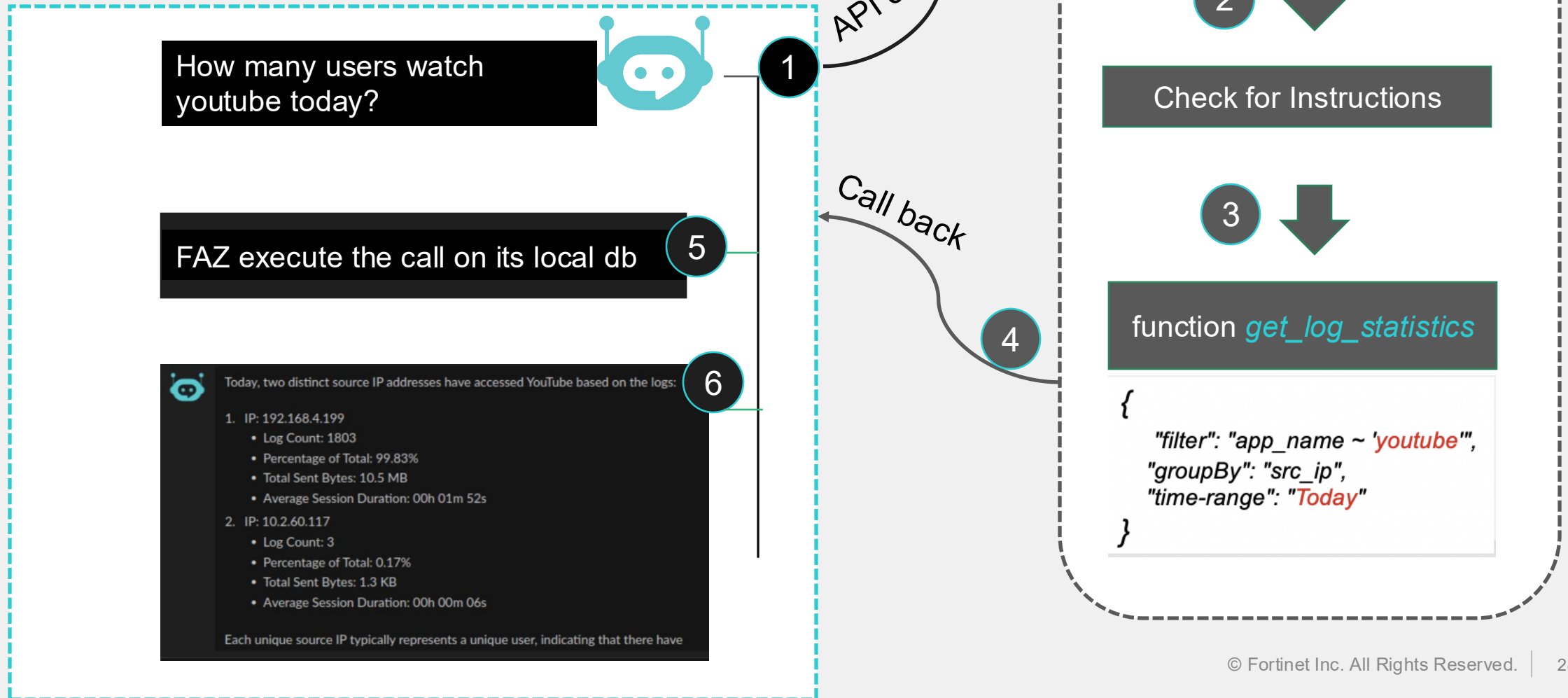




# How does FortiAI protect data?



How many users watch youtube today?





# FortiAI Demo



# WIE BASE-IT SIE UNTERSTÜTZT



## INDIVIDUELLE LÖSUNGEN FÜR IHR UNTERNEHMEN

### KONZEPTPHASE

Entwicklung maßgeschneiderter Konzepte

Analyse der bestehenden IT-Infrastruktur

### UNTERSTÜTZUNG BEI DER PRODUKTAUSWAHL

Beratung bei der Auswahl der passenden Fortinet-Produkte

Vergleich und Bewertung verschiedener Lösungen

### PROOF OF CONCEPT

Testen der Lösungen in Ihrer Umgebung

### NETWORK & SECURITY CHECK NACH BEST PRACTICES

Überprüfung Ihrer Netzwerksicherheit

Empfehlungen zur Optimierung nach aktuellen Best Practices

# KOMMENDE WEBCASTS

[WWW.BASEIT.AT/WEBCAST](http://WWW.BASEIT.AT/WEBCAST)

---

- AI Transformation mit Microsoft Copilot
  - 09.05.2025 | 11 bis 12 Uhr
- KI-Potentiale erkennen & nutzen
  - 16.05.2025 | 11 bis 12 Uhr





baseit

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Q&A

