

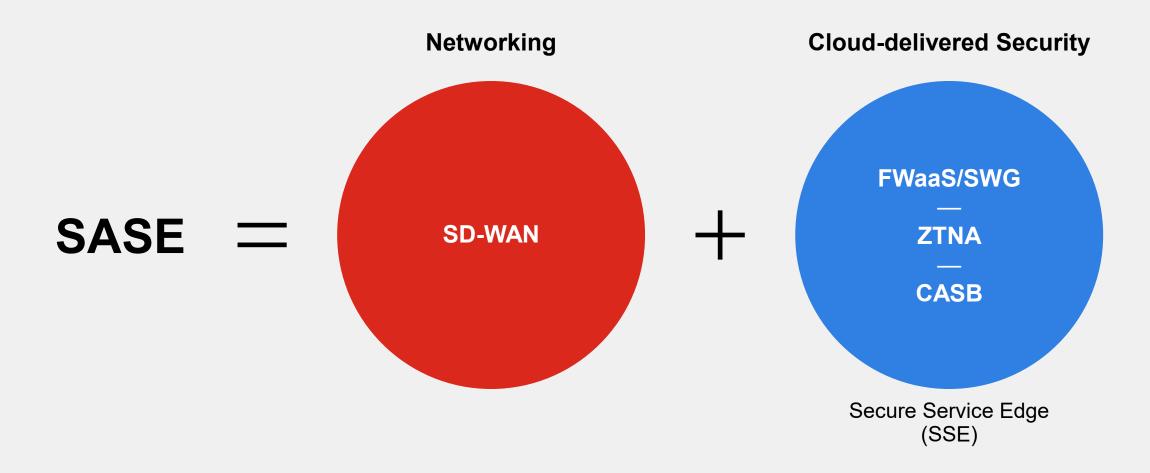
Demystifying SASE

Ahto Tomingas

Sr. Systems engineer, SecOps Lead, Baltics

What is SASE (Secure Access Service Edge)?

Cloud-delivered network and security convergence solution for work-from-anywhere





Market Trends driving SASE adoption

Hybrid workforce

94% of organizations are allowing employees more flexibility as to where and when they work



From VPN to ZTNA

By 2025 at least **70%** of new remote access deployments will rely on ZTNA rather than VPN services

SaaS adoption

SaaS makes up the largest share of the cloud service market and more than 50% of the overall software market

Vendor consolidation

75% of Organizations Are Pursuing Security Vendor Consolidation in 2022

https://www.gartner.com/en/human-resources/trends/how-organizations-are-supporting-a-hybrid-workforce

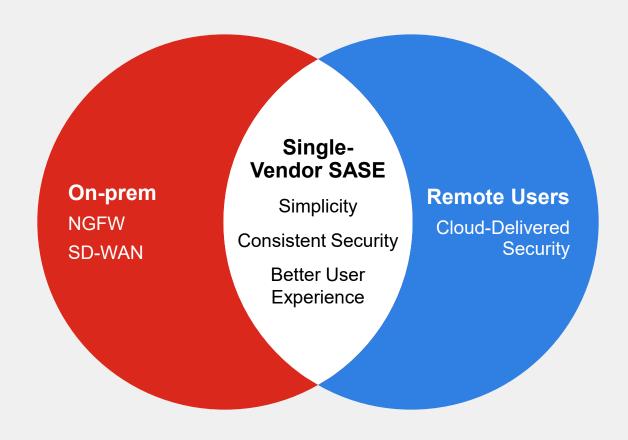
https://www.gartner.com/en/newsroom/press-releases/2022-10-13-gartner-identifies-three-factors-influencing-growth-i#

https://www.gartner.com/en/digital-markets/insights/saas-growth-strategy

https://www.gartner.com/en/newsroom/press-releases/2022-09-12-gartner-survey-shows-seventy-five-percent-of-organizations-are-pursuing-security-vendor-consolidation-in-2022



Convergence of On-Prem and Remote Users Network



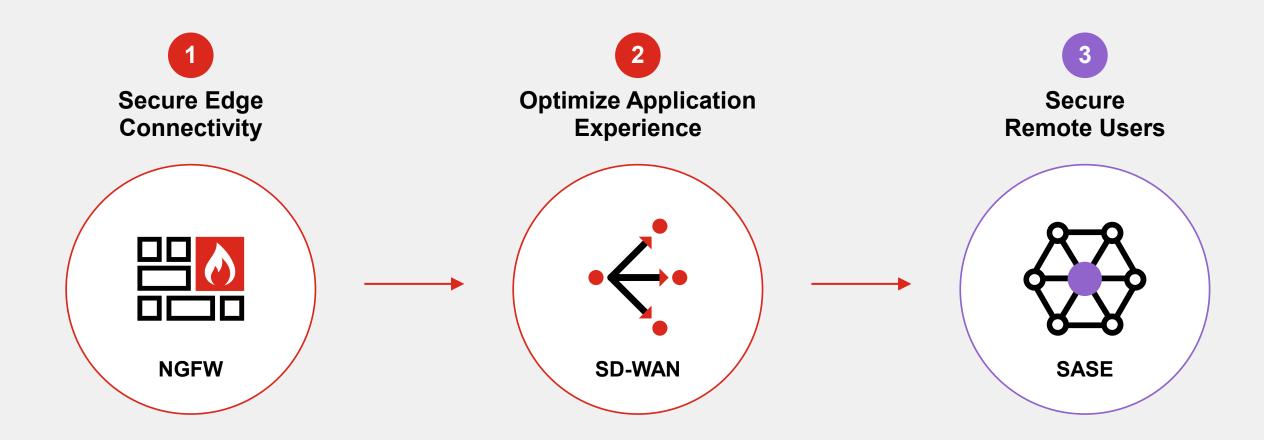
Single-vendor SASE Benefits

- Improved risk posture and reduced security gaps
- Provide simplicity eliminating multiple products
- Efficient operations with single agent
- Cost savings from product and vendor reduction



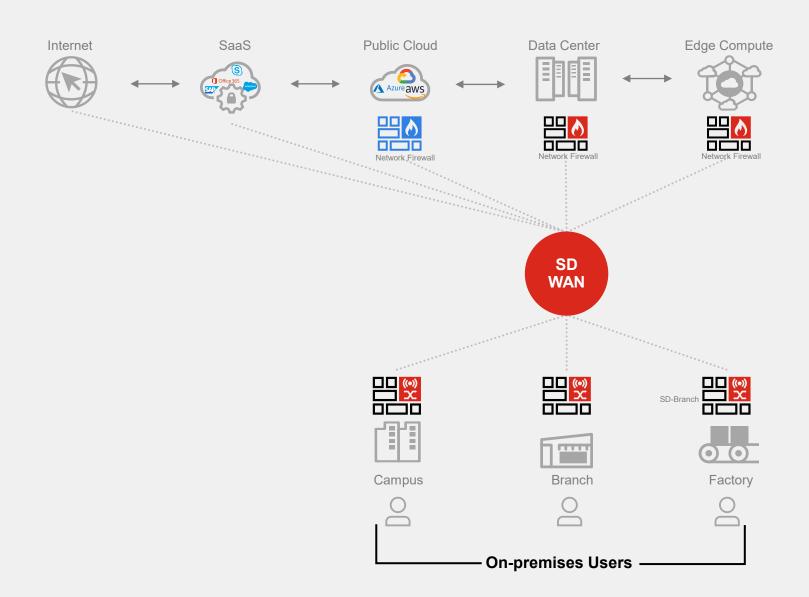
Pragmatic Journey to SASE

With Fortinet's convergence of security and networking everywhere





Secure SD-WAN: Flexible Application Steering at Edge



Consistent Security



- Application Aware
- Intrusion Prevention
- Web Filtering
- DNS Protection
- Sandboxing
- In-Line Sandboxing
- In-Line CASB
- OT and IoT Security



Convergence

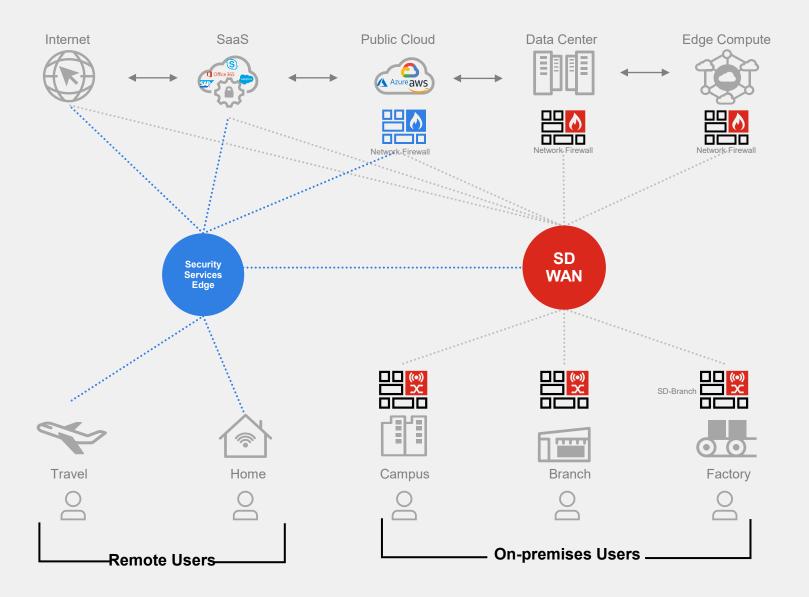
Network Firewall

Secure SD-WAN

SD-Branch

Secure Remote Access – Securely connect remote users





Consistent Security

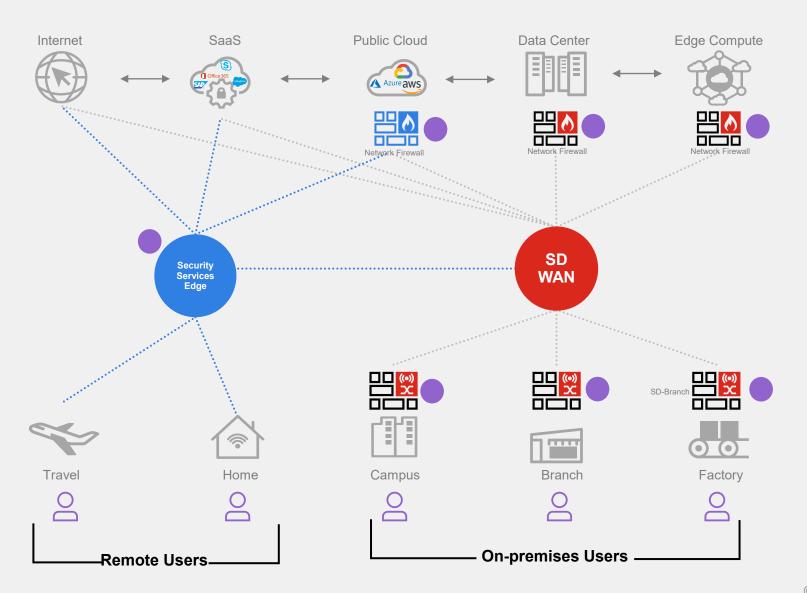


- Application Aware
- Intrusion Prevention
- Web Filtering
- DNS Protection
- Sandboxing
- In-Line Sandboxing
- In-Line CASB
- OT and IoT Security



Universal ZTNA – Secure user access to applications

Convergence Network Firewall Secure SD-WAN SD-Branch Security Services Edge Universal ZTNA



Consistent Security

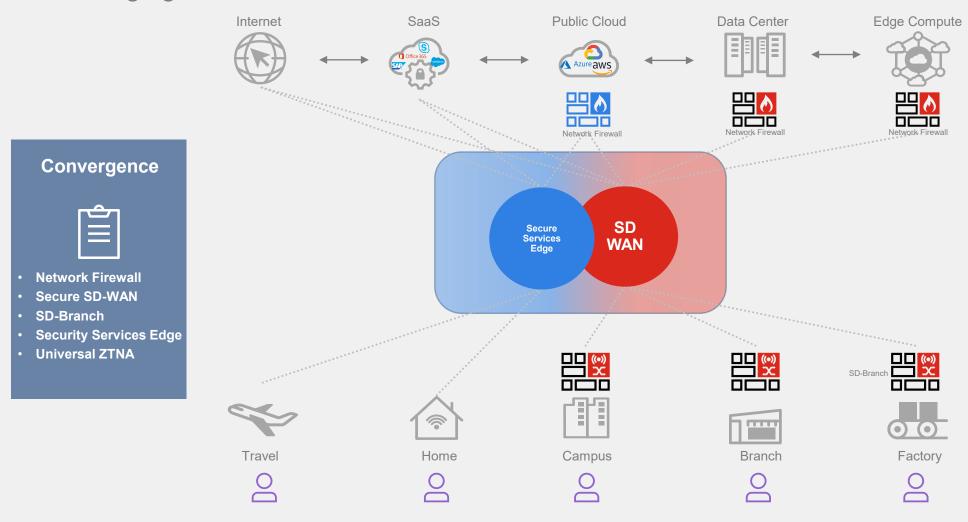


- Application Aware
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- In-Line Sandboxing
- Network Access Control (NAC)
- OT and IoT Security



Single Vendor SASE

Converging Remote Users and On-Premises Network



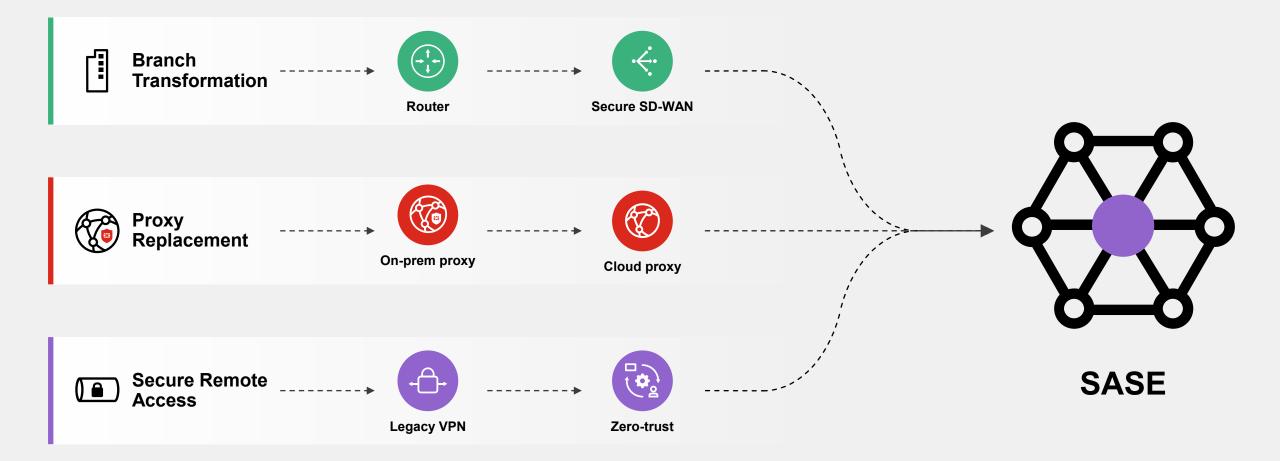
Consistent Security



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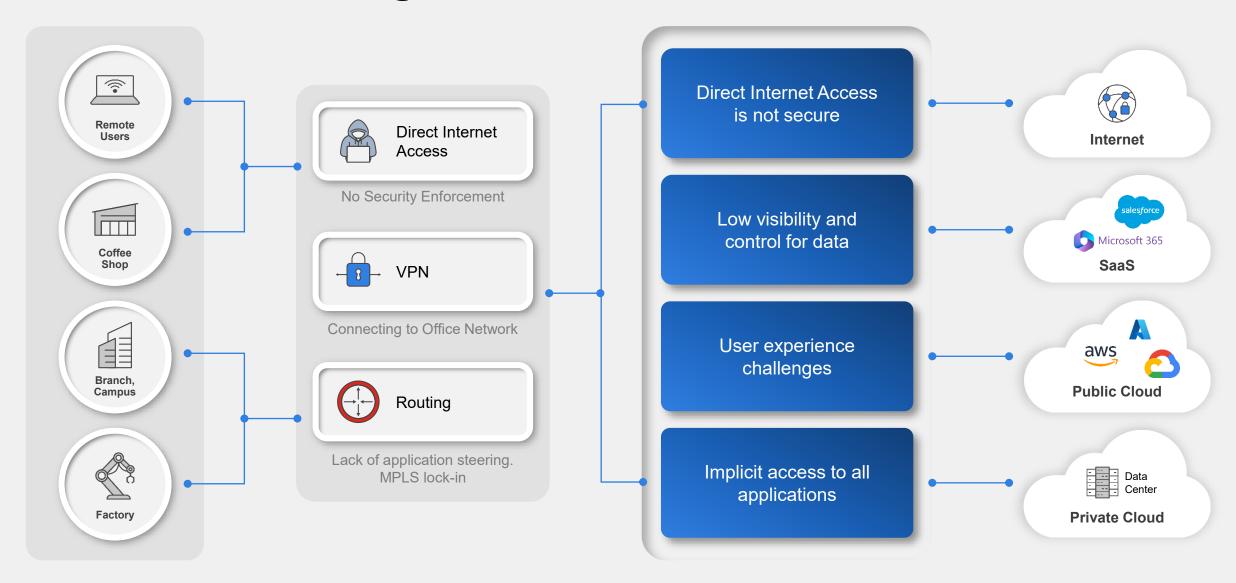


Key Customer Initiatives for SASE



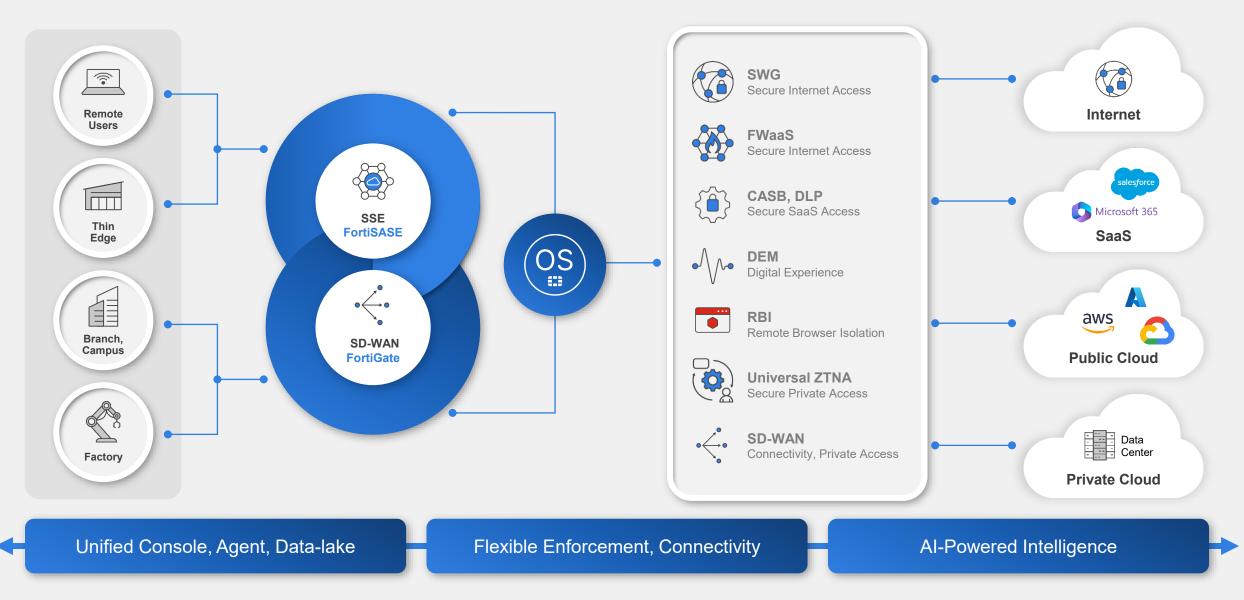


Customer Challenges to Enable Secure Access





Fortinet's Unified SASE Solution for Secure Access





Foundation of Unified SASE



ONE OPERATING SYSTEM

UNIFIED MANAGEMENT PLANE

ONE ANALYTICS ENGINE

UNIFIED ENDPOINT AGENT



Single OS

SD-WAN, SSE, NGFW, ZTNA



Central Management

SSE, SD-WAN, ZTNA



Integration with SOC

Data lake for security operations



Single agent

EPP, SASE, ZTNA, CASB, DEM

Al-Driven Security Services with Flexible Consumption



GenAl integration

GenAl security (SSE) & GenAl assistant (SDWAN)



FortiGuard Labs

Al-Driven Security Services



FortiSASE Global Infrastructure













Santiago

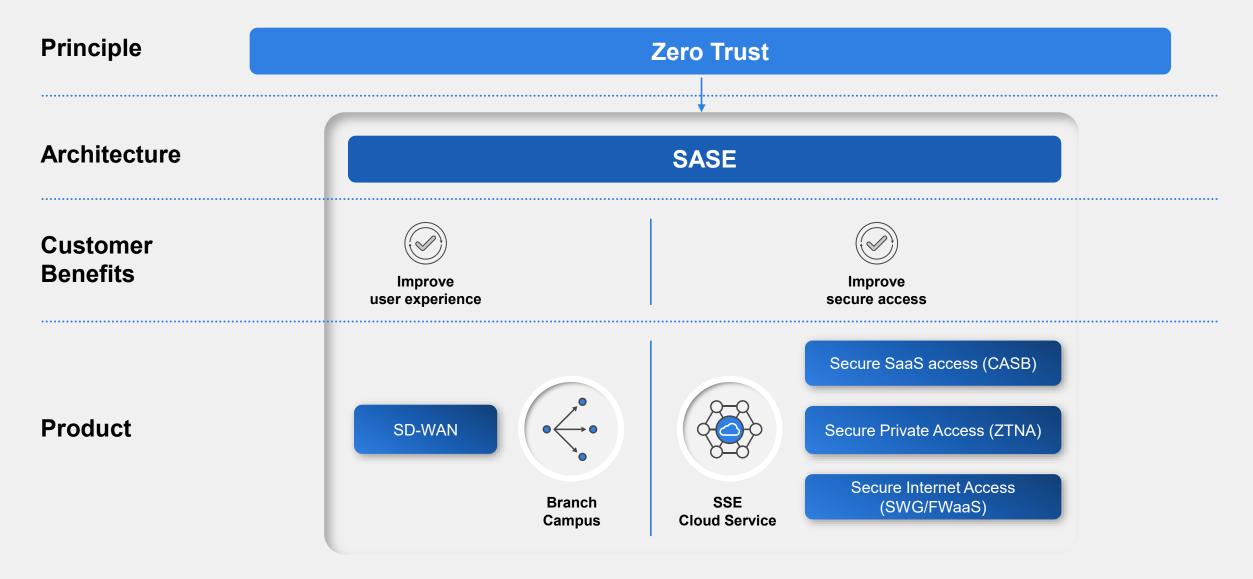
Chile C



 Fortinet-owned Security POP Fortinet Co-location security POP Google Cloud Compute Security POP



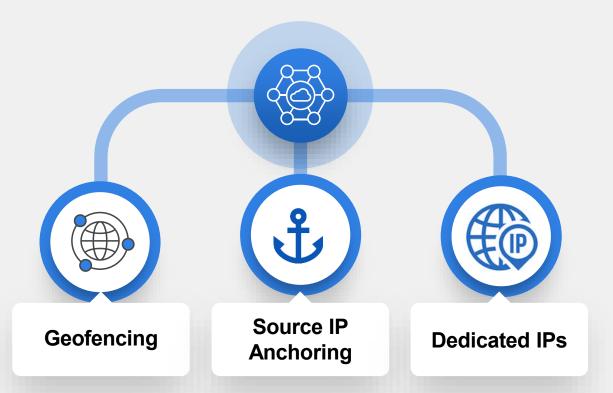
SASE: A Solution to Simplify and Enable Secure Access





- SWG = Secure Web Gateway / FWaaS = Firewall-as-a-Service, which protect users and devices from web-based threats.
- **ZTNA = Zero Trust Network Access**, providing secure, identity-based access with explicit control. Can also be sold standalone.
- CASB = Cloud Access Security Broker, which ensures secure access to SaaS applications and safeguards sensitive data.

Key infrastructure capabilities for data protection & compliance



Key features



Geofencing

Control the countries from which remote users are allowed to connect to FortiSASE.

Used for data sovereignty.



Source IP Anchoring

Ensure that traffic from a user or device appears to originate from a consistent, designated IP address, regardless of their actual physical or network location. Ideal for regulatory compliance.

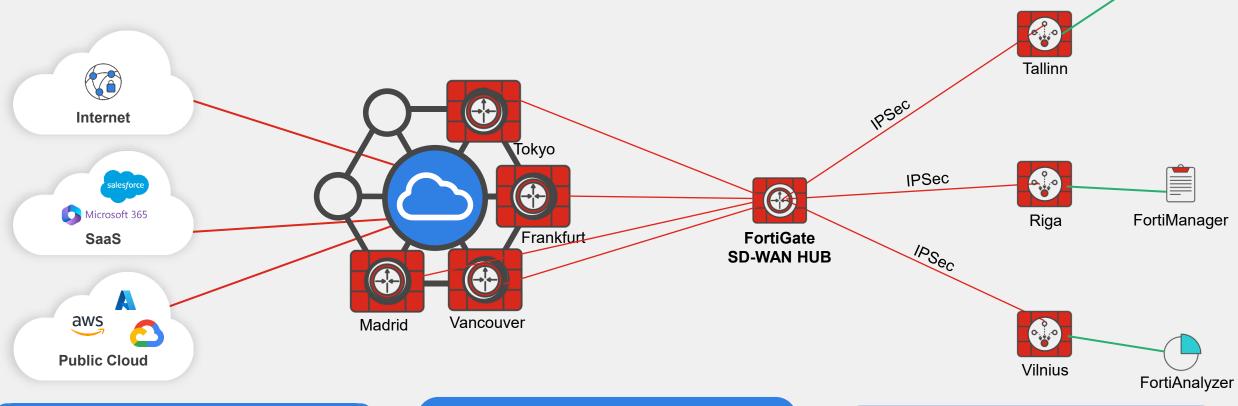


Dedicated IPs

Reserved IP addresses to whitelist access from POP to SaaS applications. Ideal for regulatory compliance and threat protection.



FortiSASE Use Cases



FortiSASE SIA



Enable secure web browsing for remote users to protect from known and unknown threats

FortiSASE SSA



Address Shadow IT visibility challenges by deploying SaaS application control and safeguard data loss prevention

FortiSASE SPA



Hypervisor

Explicit application access under a zero-trust access or with SD-WAN integration to ensure secure application access



Secure Internet Access

For Remote Users, Thin Edge and Branch Locations



Flexible steering methods

Agent, agentless, thin edge and branch access. Branch access can be either through a 3rd party router or a FortiGate.



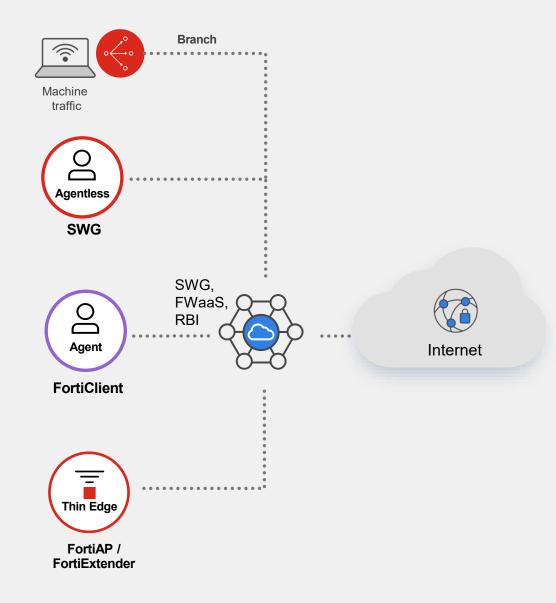
Malware & Ransomware prevention

Prevent threats with cloud-based Firewall, IPS, Web Filtering, Anti-virus, DNS and File Filtering, Sandbox, RBI



Full Threat Protection

Deep SSL inspection of web & SaaS apps for threats, Best in class security efficacy and zero-day threat protection with AI powered FortiGuard Security Services



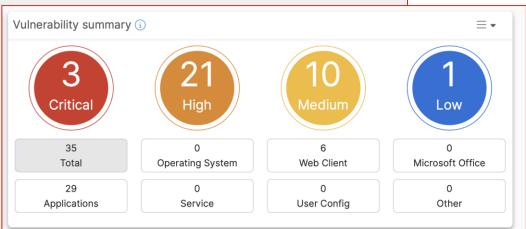


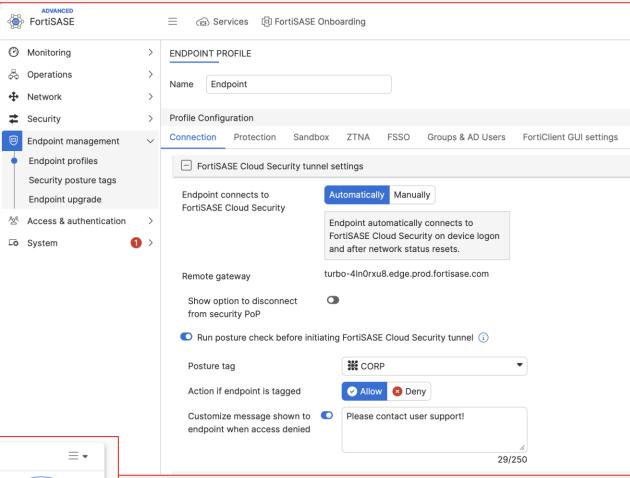
Unified Agent - FortiClient



Unified agent

- VPN client
- Zero Trust Network Access (ZTNA)
- Next Generation AntiVirus
- Anti-Ransomware
- Vulnerabilities scan
- Removable media access control
- Sandbox
- Digital experience monitoring







Secure Private Access with ZTNA

FortiSASE ZTNA Support



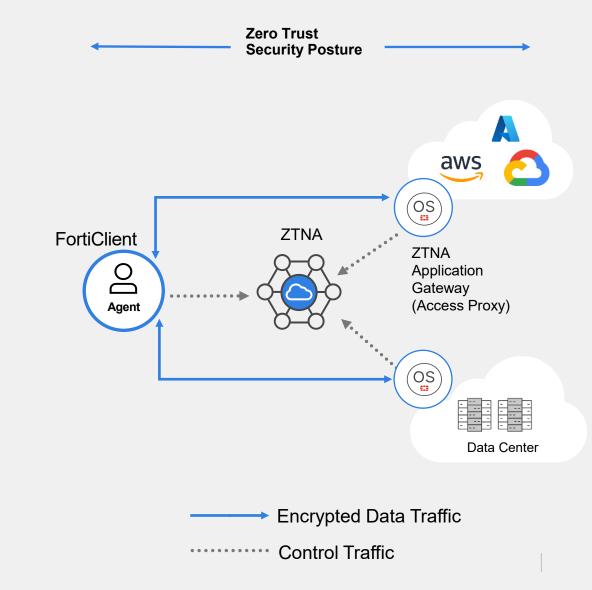
100% Data Privacy! No SSL Inspection on POP



Fastest Routing, no by-pass via POP required

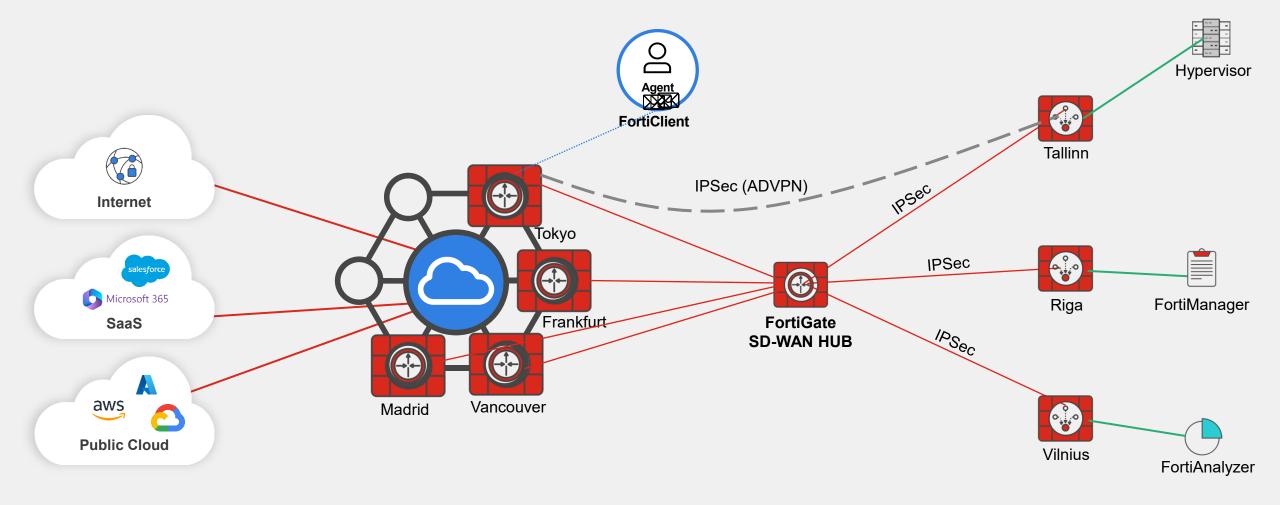


Full FortiGuard AI Security



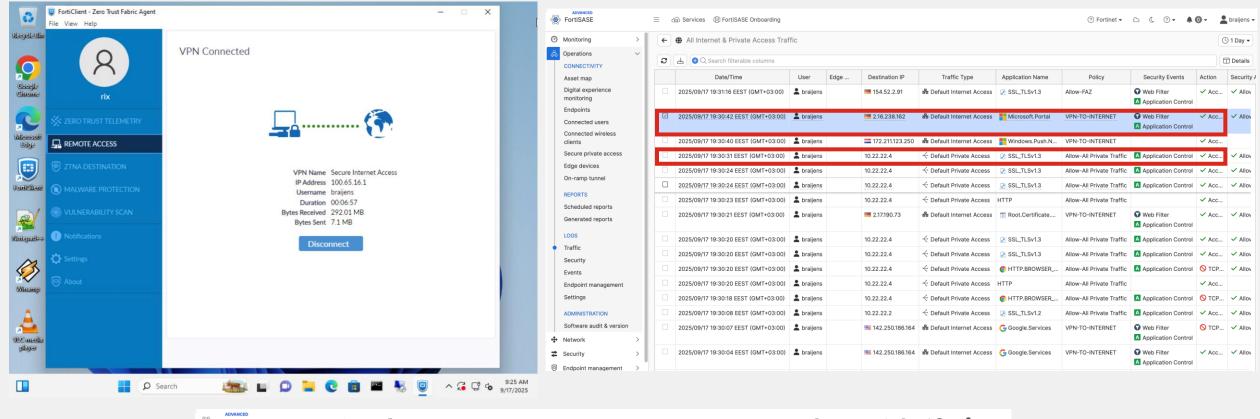


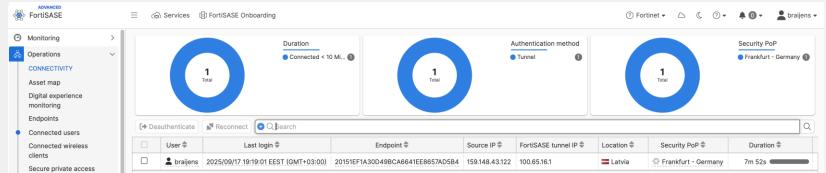
FortiSASE Agent (FortiClient)





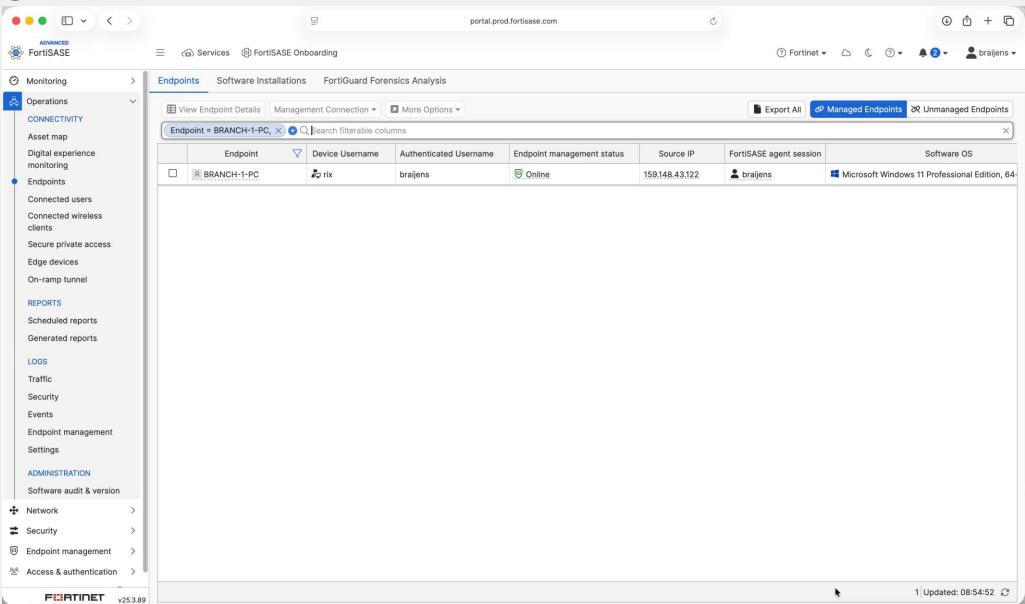
Agent (FortiClient)







Agent data on SASE portal





Secure Private Access

With ZTNA integration



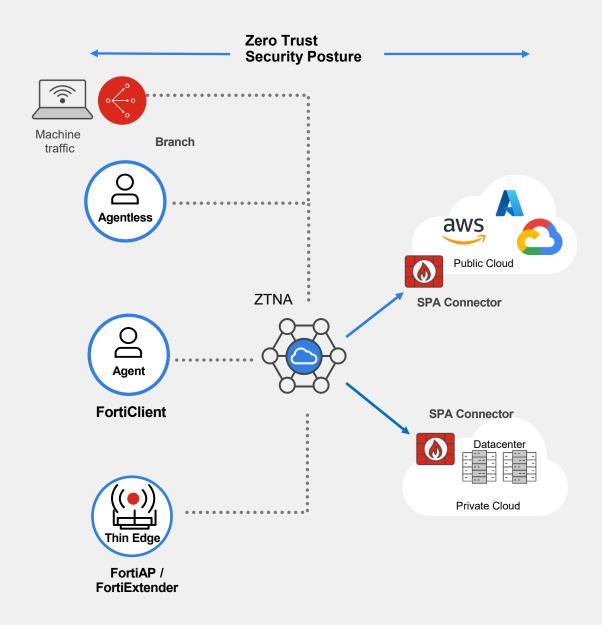
Secure Cloud & datacenter app access

Secure anywhere access to corporate applications in datacenter and cloud with deep security inspection



Universal Zero-trust Network Access

User identity and device context-based zero-trust access to explicit applications from remote or on-prem location. Agentless flexibility via portal.





Secure SaaS Access

For Visibility and Control



Cloud App Access Control

Safe Cloud Application access based on user context and blocking of malicious apps with in-line CASB feature, including Zero Trust posture checks



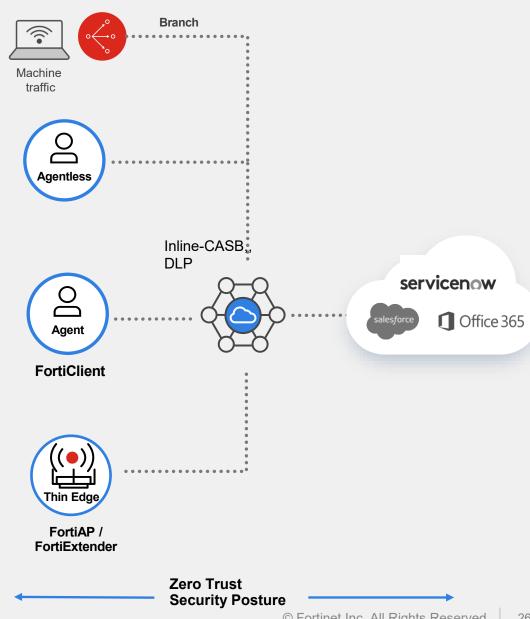
Deep control & view of apps content

Control over app content and files for enhanced security and threat detection



Unified agent for anywhere detection

FortiClient Agent covers all the use-cases from SASE, Zero-trust, SaaS security, and End-Point Protection





Secure Private Access with SD-WAN Integration in 5 min!

SD-WAN Private Access



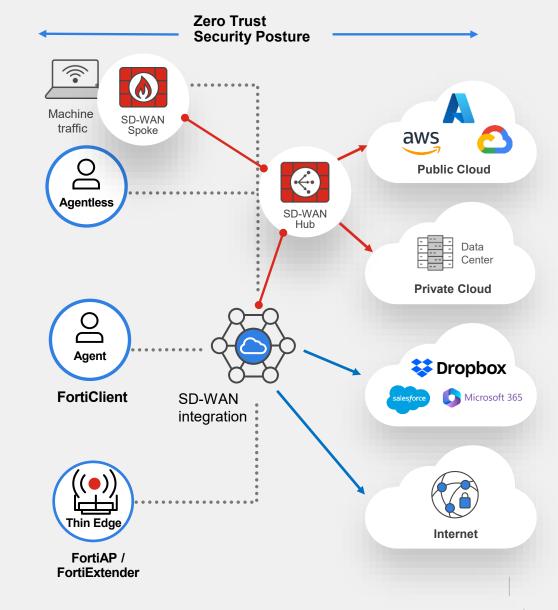
SD-WAN Integration with existing SD-WAN Hub from any **SASE PoP**



Fast access to applications using SD-WAN from SASE PoP to SD-WAN Hub

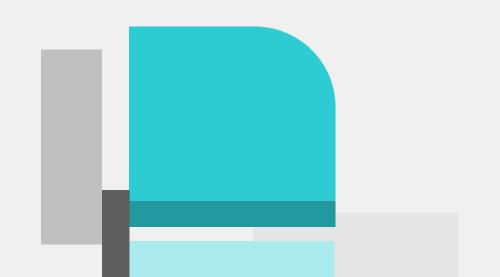


Broader app support (UDP-based VoIP, video, UC)



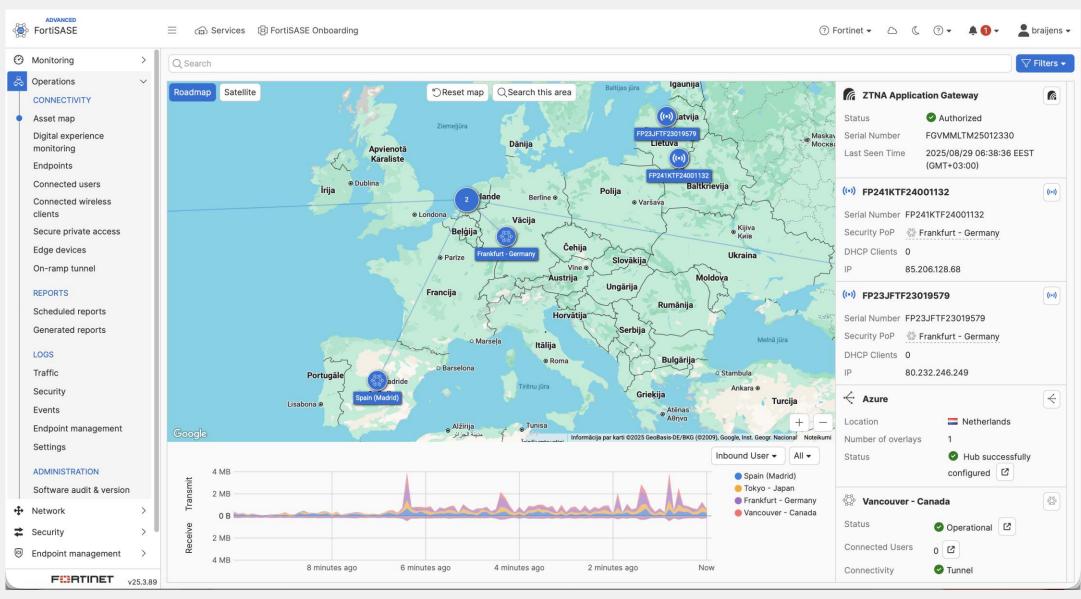


Visibility



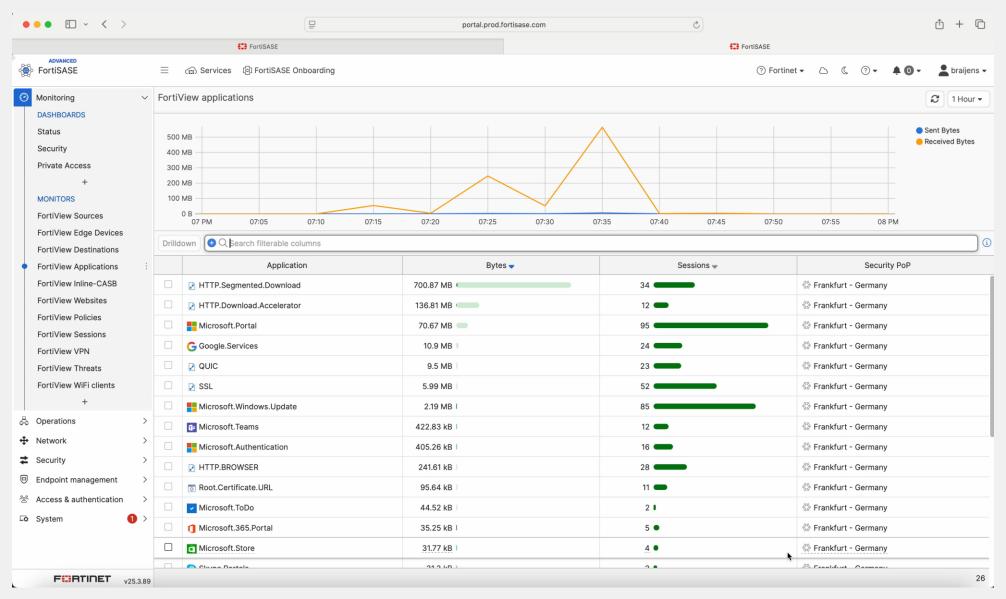


Assets maps



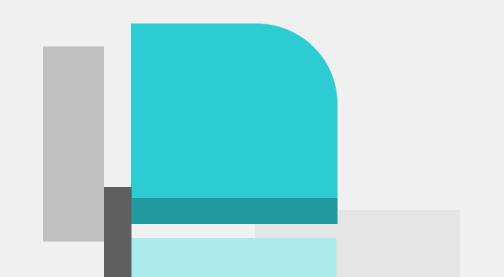


FortiView





Thin Edge





Flexible security for Thin Edge deployments

FortiBranchSASE



Secure Smaller Locations

Secure small locations, pop-up locations or home offices without the need of a firewall



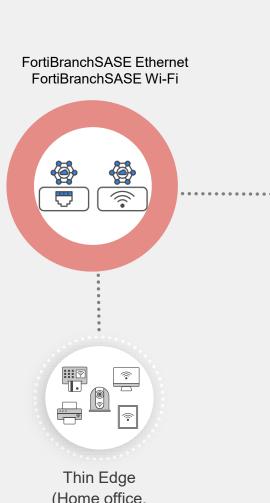
IoT, OT and Agentless Devices

Secure access using built-in hardware agent for devices without any agents (e.g. IoT/OT, ATM)



Central Visibility and Management

Unified management and visibility for all edges with deployment flexibility











FortiBranch SASE - More Models and More Devices

The Solution

- In 24.4.b the Maximum number of FortiExtender supported is 1024
- FortiSASE Support FortiBranch SASE models:
- FortiBranchSASE-10F-WiFi
- FortiBranchSASE-20G
- FortiBranchSASE-20G-WiFi









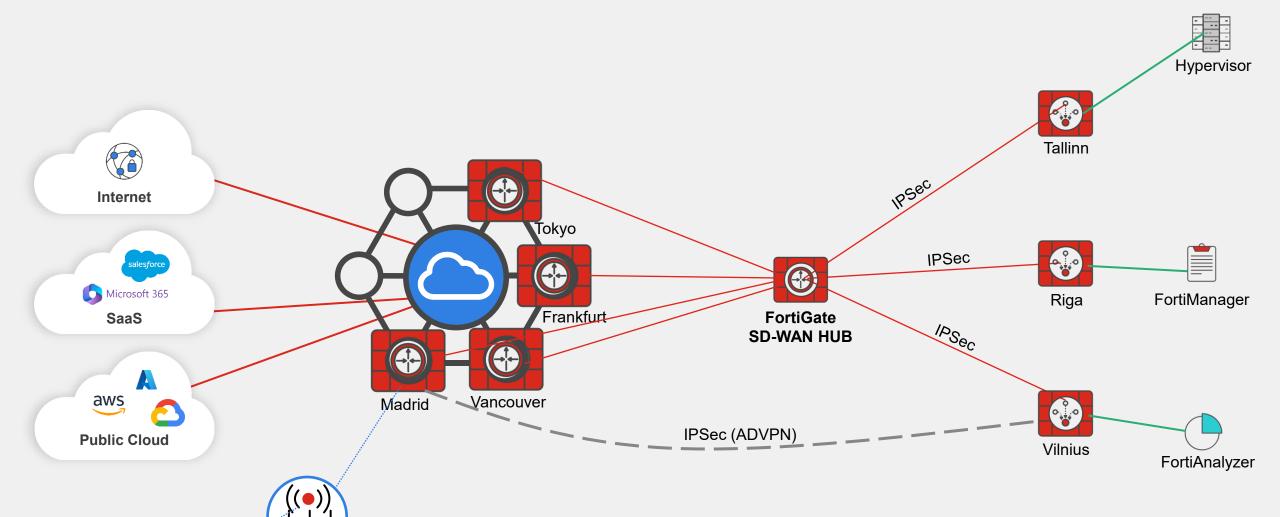
FortiBranchSASE 20G



FortiSASE Thin Edge

Thin Edge

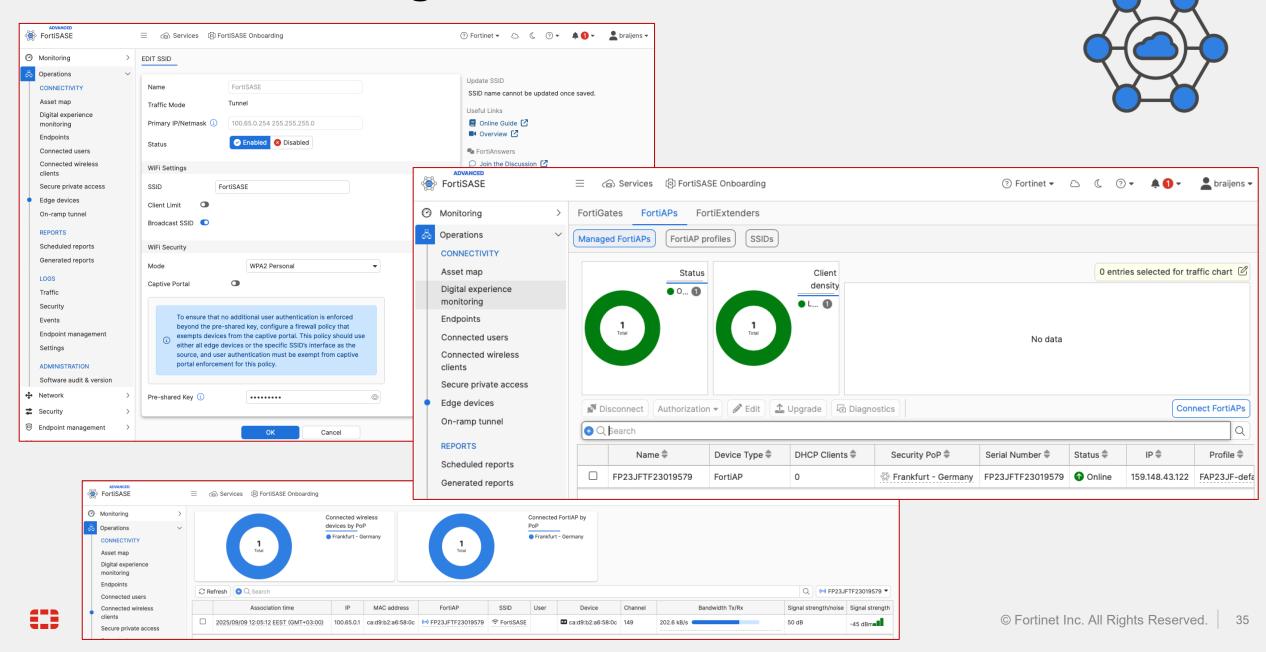
FortiAP / FortiExtender







FortiSASE ThinEdge



When to definitely consider SASE?

- Majority of users are working elsewhere and you want to implement same level of security as in office
 - HQ becomes Single Point of Failure
 - cost double (or even triple) internet pipe bandwidth + correctly sized FortiGate (with necessary subscription
- Most of your services are not on-prem (SaaS, Public Cloud, even DC)
 - No point in hauling data to central location instead of connecting directly
- Lots of small shops/branches
 - single pane of management for users and sites alike



When you don't need to consider SASE?

Always consider SASE ©

- if you have necessary puzzle pieces, build your own solution with relevant use case from SASE
- if Excel is against you, go for partially or fully for SASE (and leverage existing knowledge/install base)



