

UPGRADE BRANCH INFRASTRUCTURE WITH INVERTO

SD-WAN POWERED BY
FORTINET

EXECUTIVE OVERVIEW

"The global SD-WAN market is projected to grow at over 40% compound annual growth rate (CAGR) to reach \$4.5 billion by 2022 "

As the use of business-critical, cloud-based applications and tools continues to increase, distributed organizations with multiple remote offices are switching from performance-inhibited wide-area networks (WANs) to software-defined WAN (SD-WAN) architectures. SD-WAN offers faster connectivity, cost savings, and performance for Software-as-a Service (SaaS) applications as well as digital voice and video services. But SD-WAN has its own shortcomings—especially when it comes to security such as encrypted traffic inspection and protection at the edge.

Fortinet FortiGate next-generation firewalls (NGFWs) include Secure SD-WAN capabilities that deliver security-driven networking in a unified solution.

The Fortinet solution boosts application performance through instant identification and intelligent routing.

Additional features increase branch network performance while simplifying security and compliance risk management workflows.

Traditional WANs utilize private multiprotocol label switching (MPLS) links, which carry a premium price for connectivity. But more important than cost, there is also productivity to consider. Most traditional WANs feature a “hub-and-spoke” architecture that funnels branch network traffic back to the organization’s main data center for filtering and security checks.

To learn more, please visit our website at inverto.com.au
You may also email us at info@inverto.com.au



Fortinet Secure SD-WAN key capabilities include:

NGFW Security and Compliance

Fortinet Secure SD-WAN delivers enterprise-class security and branch networking capabilities with a single-box solution—the FortiGate NGFW. Critical security features include:

- **SSL/TLS inspection and threat protection** to provide visibility and prevention against malware that obviates the need for separate encryption inspection appliances
- **Web filtering service** to enforce internet security and reduce complexity, eliminating the need for a separate Secure Web Gateway device
- **Complete threat protection**, including sandboxing, anti-malware, and intrusion prevention system (IPS)
- **Highly scalable overlay VPN tunnels** with high throughput for ensuring that traffic is always encrypted and stays confidential

Application Awareness and Automated Path Intelligence

Fortinet Secure SD-WAN uses “first-packet identification” to intelligently identify applications on the very first packet of data traffic. This broad application awareness helps network teams see which applications are being used across the enterprise, enabling them to make well-informed decisions regarding SD-WAN policies. Fortinet Secure SD-WAN references an application control database of over 5,000 applications, a number that continues to grow as both the threat landscape and digital network evolve.

"A key feature of SD-WAN is its ability to deliver the cost performance benefits of internet based VPNs with the performance and agility of MPLS VPNs"

- **WAN path remediation**, which utilizes forward error correction (FEC) to overcome adverse WAN conditions such as poor or noisy links. This enhances data reliability and delivers a better user experience for applications like voice and video services. FEC adds error correction data to the outbound traffic, allowing the receiving end to recover from packet loss and other errors that occur during transmission. This improves the quality of real-time applications.
- **Tunnel bandwidth aggregation**, which provides per-packet load balancing and delivery by combining two overlay tunnels to maximize network capacity if an application requires greater bandwidth.
- **Automatic failover capabilities**, which change to the best available link when the primary WAN path degrades. This automation is built into FortiGate NGFWs, reducing complexity for end-users while improving their experience and productivity.

Simplified Management, Orchestration, and Overlay Control

As enterprises adopt SD-WAN, they need the right tools to seamlessly deploy and manage it across widely distributed infrastructures.

Fortinet Secure SD-WAN can be administered through FortiManager, a single intuitive and unified management console. It includes options for a cloud-based or hosted solution for remote control and orchestration across thousands of locations. With FortiManager, FortiGate devices are true plug and play. Centralized policies and device information can be configured with FortiManager, and the FortiGate devices are automatically updated to the latest policy configuration.

FortiGate NGFWs featuring the SOC4 ASIC deliver the fastest SD-WAN security performance in the industry. This includes acceleration for responsive overlay VPN and a better overall WAN user experience across the enterprise. Cloud overlay controller orchestration, powered by the 360 Protection Bundle subscription services, simplifies overlay VPN deployment with cloud-based automated provisioning. The flexibility of single-pane-of-glass management includes scalable remote security and network control via the cloud for all branches and locations.

Total Cost of Ownership

The move to public broadband means that expensive MPLS connections can be replaced with more cost-effective options. With the Fortinet transport-agnostic solution, enterprises can utilize the entire available bandwidth by using the connections in active-active mode. Fortinet Secure SD-WAN delivers the industry's best total cost of ownership (TCO)—10x better than the competition.

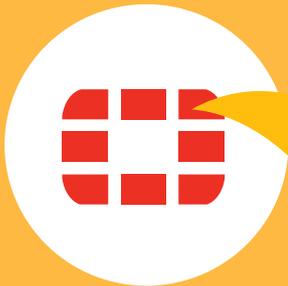
Security-Driven Networking

There are many different SD-WANs on the market today, and VPs of IT should carefully review their options. Fortinet Secure SD-WAN integrates enhanced SD-WAN features with proven security capabilities, delivering security-driven networking that improves branch efficiency without compromising protection.



HOW CAN WE HELP?

WHY INVERTO?



Fortinet Partner

Full design, implementation and monitoring services by a Fortinet recommended partner



We Understand Your Business

Expertise that go beyond SD-WAN to truly understand how it integrates with your business. Therefore, driving a better outcome and maximising the solution for the business



SLA Bound

SLA bound maintenance and monitoring of all sites and links. We proactively address site issues and liaise with internet service providers on behalf of the business to restore service



Cost Effective

Simplified pricing model that allows the business to scale up and down without the worry of expensive support plans

OUR PROCESS DEPLOYMENT GUIDE

"We want you to experience the benefits of deploying SD-WAN firsthand. Get a personalised demo from Inverto and we'll guide you every step of the way."

AUDIT

Through in person consultancy sessions and onsite audits. We review your network setup and applications in use along with business requirements.

DESIGN

From the information gathered during the audit phase. We design an optimal sdwan network for a deployment that meets your requirements.

IMPLEMENT

Following on from careful planning and testing, the sdwan network is rolled out across sites in a phased approach.

OPTIMISE

We review traffic flow and gather feedback to further fine tune your sdwan network. Ensuring that your applications and services are accessed with peak performance.

MONITOR

Leave the monitoring and proactive changes to us. We view all your sites through a single pane of glass and alert you to any outages while taking the headaches of issue resolution out of your hands.

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