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Fortinet Secures the Path to 5G with Proven Security Architecture and Solutions

Fortinet Security Fabric delivers cloud-grade scalability, visibility, and control with carrier-grade performance and capacity to secure evolving 4G networks, IoT services and 5G mobility platform

SUNNYVALE, Calif., Feb. 19, 2019 (GLOBE NEWSWIRE) --

John Maddison, Executive Vice President, Products and Solutions, Fortinet
"With 5G, mobile infrastructure's end-to-end innovation will continue to transform into a platform and catalyst for value creation and service innovation. Throughout this transformation, Fortinet's proven security architecture and solutions provide advanced security for multiple LTE, LTE-A, and 5G use cases to help secure mobile infrastructures, from radio access network (RAN) to the telco cloud, and offers customers carrier-grade performance and capacity with cloud-grade scalability, visibility, and control."

News Summary:
Fortinet (NASDAQ: FTNT), a global leader in broad, integrated and automated cyber security solutions, today announced extensive capabilities for securing the path to 5G with its expansive breadth and depth of solutions for mobile core networks and cloud infrastructures, including its virtual SPU technology and advanced security and high-performance systems. With the promise for faster connection speeds, massive connectivity scale, and new revenue opportunities, 5G will have a profound impact on mobility and digital transformation. Fortinet is uniquely positioned to offer its customers advanced security and high-performance systems that deliver carrier class functionality, rapid scalability, deep visibility, and granular control to secure mobile core, edge clouds and IoT infrastructures.

5G brings both opportunity and risk
The advent of 5G will extend a digital connection to almost every facet of our lives. In many of the somewhat futuristic-sounding new use cases, such as autonomous vehicles, AR/VR immersive experiences, smart cities, ultralow latency, bandwidth, and speed, delivery has been the missing puzzle piece. For years now, the mobile interconnection of all these things seemed inevitable, yet the massive density of connections, all with adequate speed, latency and related services, had so far remained unachievable in all but limited proof-of-concept testing.

With 5G and the impending orders-of-magnitude advances in bandwidth, connection and use case possibilities, there is opportunity for end-to-end innovation as the mobile infrastructure is transformed into a platform and a catalyst for value creation and service innovation. More than ever, mobile network providers will become secure business enablers. For example, service providers will have new revenue generating opportunities in IoT, such as manufacturing automation, industrial telemetry, emergency response systems, robotic surgery, 4K UHD video streaming, and more. However, these innovations will also bring a corresponding increase in the potential havoc wrought by denial of service, advanced threats and other forms of cyberattack on the core network infrastructure itself. Security is an imperative to protect and operate evolving 4G and new 5G mobile networks. These new service use cases need capabilities beyond a stateful firewall, with capacity and reliability to meet service level agreement (SLA) goals for uptime and quality of experience.

Fortinet 5G breadth and depth capabilities
Fortinet offers strategic security solutions specifically designed to address the unique challenges facing operators as they migrate their core networks to deliver 4.5G and 5G mobile services. It offers the ability to build a security framework that helps optimize cost of launching and operating new services and revenue opportunities, mitigate advanced threats, and achieve service level goals. Service providers can

realize this by utilizing Fortinet advanced security and high-performance systems that also give mobile carriers improved visibility through comprehensive and correlated analytics, the ability to thwart complex external and internal security threats impacting network infrastructure and services at massive scale.

The Fortinet security platform offers 5G service providers:

- **Advanced protection for mobile core network and telco cloud:** Powered by Fortinet's Virtual SPU Technology, [FortiGate Virtual Network Functions (VNFs)](#) deliver significant increases in application security performance through innovative security processing optimizations and the latest packet processing acceleration technologies. The VNFs also have a small footprint, boot within seconds, and require less storage, enabling service providers to protect their virtual networks and cloud platform cost effectively. Further, the 5G-ready FortiGate 7000 Next-Generation Firewall Series with SPU acceleration provides carrier security features and functions with industry-leading SSL inspection and application security performance for total inline protection. Together, these Fortinet solutions deliver industry-best scale and capacity to protect 5G infrastructures from sophisticated application layer attacks and massive volumes of DoS attacks originating from outside or inside the mobile core or telco network.
- **Agility with security:** Fortinet offers broad ecosystem integrations with leading NFV and SDN vendors for virtual infrastructure. To ensure end-to-end security with innovative 5G services such as network slicing and multi-access edge computing (MEC), VNFs must be delivered dynamically, instantiated quickly and available wherever needed on the network. For efficient and agile deployment and utilization of these security resources, Fortinet delivers integrations with NFV platform providers like Lenovo, NFV orchestration (MANO) systems from Amdocs, Ericsson, Ciena, UBiqube, NoviFlow and SDN controllers like VMware NSX, Nokia Nuage, and Cisco ACI, and NoviFlow.
- **Deep visibility and control for IoT services on edge clouds**: Massive scale IoT devices are generally based on lightweight operating systems, which offer minimal security features, therefore they are vulnerable to hijacking and botnet attacks. To remove business risks, the data from these endpoints and the devices themselves require complete protection. Further, service providers offering IoT services via a cloud platform need to ensure multi-tenant isolation, VM and/or container security, and web application protection. Fortinet FortiGate NGFW VNF and FortiWeb WAF VNF protect the edge cloud platform. FortiSIEM provides complete visibility through correlated security analytics and complete visibility to track IoT devices while FortiGate has the ability to learn and profile all connected devices, and apply granular control on different classes of IoT.

Availability

Fortinet's Security Fabric and solutions for securing service provider mobile core networks, IoT and application services are available now.

Supporting Quotes

"Lenovo's strategic technology collaboration with Fortinet – focused on integrating Lenovo's performance-optimized NFVi platform offering and Fortinet's unparalleled security protection – delivers an agile, flexible and secure integrated solution to address the evolving needs of Communications Service Providers."
- Charles Ferland, vice president and general manager, Telco at Lenovo Data Center Group

"NoviFlow and Fortinet have a shared commitment to customers to accelerate innovation for world-class solutions. As a Fortinet Fabric-Ready technology alliance partner, we can provide our customers with the unparalleled protection provided by the proven Fortinet Security Fabric to help secure their path to 5G. Our joint solution brings together NoviFlow and Fortinet technologies for high throughput and dynamically scalable security services in a programmable SDN networking environment, to address the needs of large carriers and service provider networks. The solution efficiently addresses large deployments and enables cost-effective dynamic scaling to smoothly right-size capacity for even the most highly variable demand."
- Domonique Jodoin, President and CEO at NoviFlow Inc.

"Being a Fortinet Fabric-Ready technology alliance partner and a leader in multidomain orchestration, we are eager to join Fortinet in paving the way to 5G and mobile edge compute (MEC) secured architectures. Together, the UBiqube and Fortinet joint solution enables the insertion and automation of best of breed security features for any service instantiated over the new 5G paradigm, like IoT or M2M, to

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the greater benefit of our enterprise and service provider customers."
- Nabil Souli, CEO at UBiqube

Additional Resources

- For additional insights into today's announcement, read our blog
- Read the 5G Security Survey by Heavy Reading
- Read the Securing 4G, 5G and Beyond white paper
- Learn more about securing the path to 5G with Fortinet
- Learn more about our FortiOS operating system, Forti Carrier OS, FortiGate VNFs, family of FortiGate and FortiCarrier next-generation firewalls, FortiGuard security services, FortiWeb web application firewall, and FortiSIEM information and event management solutions
- Read more about the Fortinet Security Fabric or the Third Generation of Network Security.
- Read our blog about the latest Fortinet Global Threat Landscape report or learn more about FortiGuard Labs and the FortiGuard Security Services portfolio.

About Fortinet

Fortinet (NASDAQ: FTNT) secures the largest enterprise, service providers, and government organizations around the world. Fortinet empowers its customers with intelligent, seamless protection across the expanding attack surface and the power to take on ever-increasing performance requirements of the borderless network - today and into the future. Only the Fortinet Security Fabric architecture can deliver security features without compromise to address the most critical security challenges, whether in networked, application, cloud or mobile environments. Fortinet ranks #1 in the most security appliances shipped worldwide and more than 375,000 customers trust Fortinet to protect their businesses. Learn more at https://www.fortinet.com, the Fortinet Blog, or FortiGuard Labs.

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