Fortinet and iS5 Communications Security Solutions

Industrial Switching Platform with Integrated FortiGate for Enhanced Security and Simplified Deployments.

OVERVIEW

As IT and OT networks converge, the increase of cyber threats is a growing concern within OT applications. Security controls against these new and existing cyber threats need to be tightly integrated within the communications architecture of these connected systems. Mission Critical Networks (OT environments) such as Power Utility, Nuclear, water utilities, Oil and Gas, and more must deploy security measures to protect intrusions from the IT Enterprise space. OT environments operate in harsh environments that are remote and inaccessible in some instances.

Mission critical infrastructures require reliable high performing communications which can be a challenge due to cybersecurity concerns. iS5 Communications and Fortinet have established a strategic technology partnership to address the challenges of cyber threats by integrating Fortinet's FortiGate Next-Generation Firewall (NGFW) into iS5Com's leading edge RAPTOR® iMX350 & iMX950 models. This partnership will enable customers to deploy a single appliance for OT Applications to remotely manage and secure their field devices in addition to network communications.
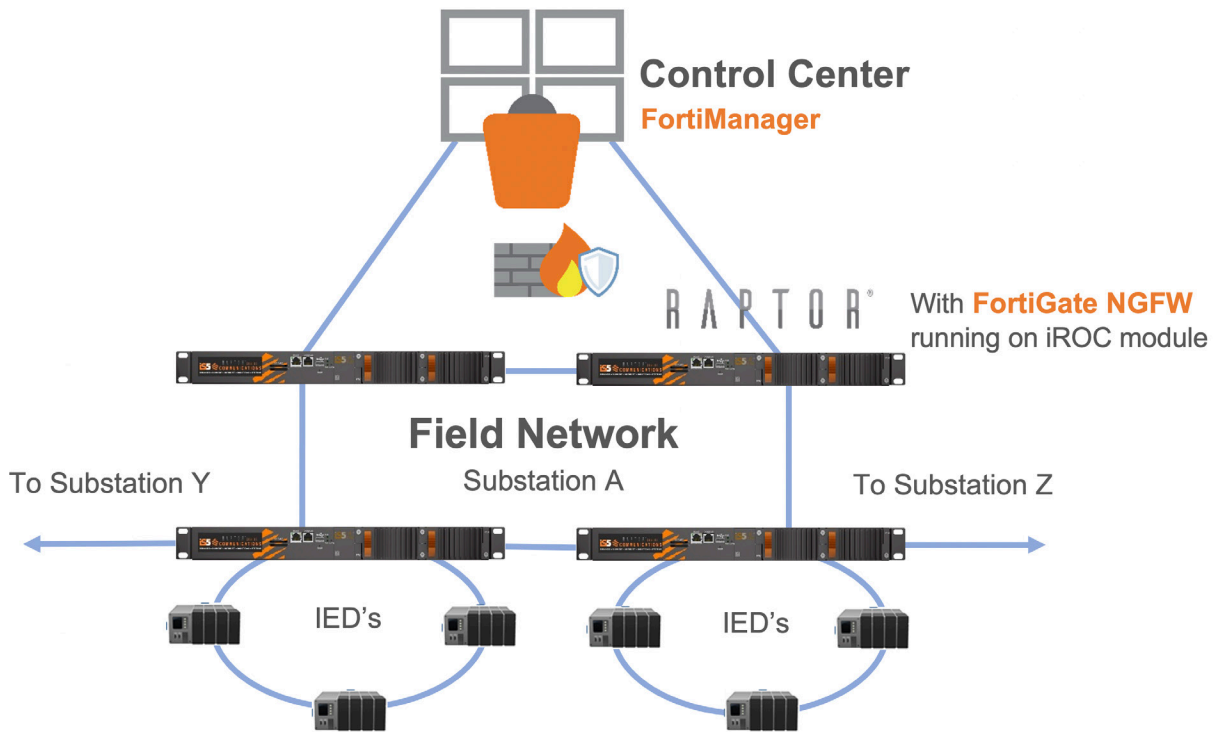
BENEFITS

- Singular multiservice platform solution
- IT enterprise grade NGFW for harsh environments
- Robust Industrial Design, compliant with IEC61850 and IEEE1613 standards
- Ease of implementation – Simplified GUI management, smaller footprint, single power source, simple integration

SOLUTION

The RAPTOR is an intelligent cybersecure hardware with 64 Gb/s full line speed and 4 x 10Gb/s + 24 1Gb/s ports running the iBiome® OS. The iBiome® OS is an all-encompassing operating system that supports L2/L3 switching and routing on a single platform. Its modular system of field replaceable modules, redundant hot-swappable power supplies, and ability to run third party software applications makes it a very flexible platform for today and the future. Combined with the Fortigate VM® , RAPTOR will enable Industrial applications to have "best in breed" security solutions for their OT applications. This will include firewall functionality in addition to Fortinet's Advance Threat Intelligence capabilities such as IPS, Application control, vulnerability management, and malware protection specific to OT environments.

Figure 1

Control Center
FortiManager

R A P T O R®

With **FortiGate NGFW**
running on iROC module

Field Network
Substation A

To Substation Y   To Substation Z

IED's   IED's

FortiGate – VM

FortiGate virtual appliance provides an end-to-end security ecosystem that allows you to mitigate blind spots by implementing critical security controls within your virtual infrastructure. They also allow you to rapidly provision security infrastructure whenever and wherever it is needed. FortiGate virtual appliances feature all of the security and networking services. With the addition of virtual appliances from Fortinet, you can deploy a mix of hardware and virtual appliances, operating together and managed from a common centralized management platform.

Figure 2- FortiGuard Labs 360 Degrees of Threat Intelligence

iROC Sample Order Code for Fortinet

iRM-iROC-01-CE8-512-XX
Description: iROC computing module, 8GB Memory, CentOS operating system, 512GB storage

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example: iRM-iROC-01-CE8-512-XX-C1
Description: iROC computing module, 8GB Memory, CentOS operating system, 512GB storage. Conformally coated.

Order Code for Fortinet/FortiGate:

• iRCFG1: iROC module with FortiGate VM-01V Next Generation Firewall (within a system).
• iRM-iROC-FG1: same as above, standalone order code.

FORTINET ORDER CODE/SLA'S

Note: To order Fortinet/FortiGate solution please specify ordering information on the iROC module. A FortiGate/FortiCare SLA option must be selected.

PART#	DESCRIPTION
FG-ATP1	Advanced Threat Protection (IPS, Advanced Malware Protection Service, Application Control, and 24x7 FortiCare) – 1 year
FG-ATP3	Advanced Threat Protection (IPS, Advanced Malware Protection Service, Application Control, and 24x7 FortiCare) – 3 year
FG-ATP5	Advanced Threat Protection (IPS, Advanced Malware Protection Service, Application Control, and 24x7 FortiCare) – 5 year
FG-ISS1	FortiGuard Industrial Security Service – 1 year

ABOUT FORTINET TECHNOLOGIES INC.

Fortinet (NASDAQ: FTNT) secures the largest enterprise, service provider, 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 without compromise to address the most critical security challenges, whether in networked, application, cloud, or mobile environments. Fortinet ranks number one in the most security appliances shipped worldwide, and more than 500,000 customers trust Fortinet to protect their businesses.

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ABOUT iS5 COMMUNICATIONS INC.

iS5 Communications Inc. ("iS5Com") is a global provider of integrated services and solutions, and manufacturer of intelligent Industrial Ethernet products. Our products are designed to meet the stringent demand requirements of utility sub-stations, roadside transportation, rail, and industrial applications. iS5Com's services and products are key enablers of advanced technology implementation such as the Smart Grid, Intelligent Transportation Systems, Intelligent Oil Field, and Internet of Things. All products have the ability to transmit data efficiently without the loss of any packets under harsh environments and EMI conditions.

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