

SOLUTION BRIEF

Fortinet and InSync Network Services and Operations Automation Solution

Automate and Orchestrate Routine Operations and Network Services Provisioning With Intuitive Interfaces To Transform Your Network Operations

Executive Summary

The presence of progressive digital business models has changed how customers and employees engage with your business. Hybrid and multi-cloud operation, hyperconnectivity, and cybersecurity needs have completely made traditional approaches to IT operations (ITOps) outdated. With a considerable dependency on digital infrastructure and its operation, digital businesses require a business-aligned service from ITOps. This is where automation plays a vital role in building a business-aligned IT operation within your business.

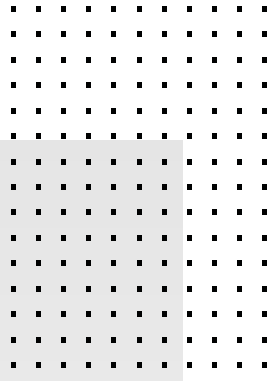
Challenges

In today's VUCA (volatile, uncertain, complex, ambiguous) environment, digital businesses need to constantly evaluate themselves and change. This often results in frequent IT service requests and increased reliance on IT assets. A typical enterprise offers a catalog of IT services for its users. And traditionally, network administrators spend considerable time addressing these routine service requests. As user demands and expectations become high, network administrators are forced to deliver an error-free service in a short turnaround time and around the clock. Managing routine service requests is time-consuming and often consists of repetitive mundane tasks for network administrators, whose time could have been used productively otherwise.

In addition to managing service requests, network administrators also spend their valuable time on managing routine operations such as configuration backups, inventory management, and troubleshooting. Trying to address the increasing number of service requests and operations manually will not resolve today's business demands, as it is less productive, inefficient, time-consuming, and error-prone. ITOps today needs to look at a scalable and efficient operation that gives its users a superior experience.

Joint Solution

InSync and Fortinet have partnered to deliver an enterprise-grade automation platform to address these challenges. The integration of InSync Automation Engine and Fortinet FortiGate Next-Generation Firewall (NGFW), enabled through the Fabric-Ready Program in the Fortinet Open Fabric Ecosystem, delivers superior responsiveness to business needs and resilient operation through automated routine operations and intuitive dashboards.



Joint Solution Components

- Fortinet FortiGate Next-Generation Firewall
- InSync Automation Engine

Joint Solution Benefits

- **Faster go to market:** Automated service fulfillment promises consistent and faster service delivery.
- **Superior customer experience:** Superior service-level agreements (SLAs) and new services with on-demand capability.
- **Increased capacity:** Automation increases enterprises' capacity and enables them to undertake more operational tasks with less human resources.
- **Operational efficiency:** Automated service provisioning and operations saves valuable man-hours and helps enterprises run a secure, lean operation 24/7.
- **Visibility and analytics:** Platform stores transactional and operational data across the network, giving enhanced visibility.
- Unparalleled security protection with the FortiGate NGFW.



InSync Automation Engine integrates seamlessly with FortiGate NGFWs over application programming interfaces (APIs) or Secure Shell (SSH) to perform discovery and provisioning tasks. Through discoveries, configuration details such as firewall policies, firewall services, firewall addresses, firewall address groups, etc., and general details such as inventory, state and firewall management information are collected and stored as a basis for service modeling. Service modeling templates can then be created by network administrators by simply mapping a business service to firewall policies.

Business users can now request connectivity requests through responsive self-care portals enabled through role-based access control by setting a start date and end date for automated service provisioning and deprovisioning. The platform integrates with Microsoft Active Directory (AD) to collect user details if required to enable user or user group-based policy creation. InSync Automation Engine also supports REST API integrations with third-party IT service management (ITSM) tools to receive service requests. Intuitive dashboards provide general details such as FortiGate health status, line-by-line configuration comparison, configuration backups, configuration history, etc., as well as service request status and history for visibility and analysis. The platform also provides detailed logs, reporting, and alerting capabilities.

FortiGate NGFWs deliver industry-leading enterprise security for any edge at any scale with full visibility and threat protection. Organizations can weave security deep into the hybrid IT architecture and build security-driven networks to achieve:

- Ultrafast security, end-to-end
- Consistent real-time defense with FortiGuard Services
- Excellent user experience with security processing units
- Operational efficiency

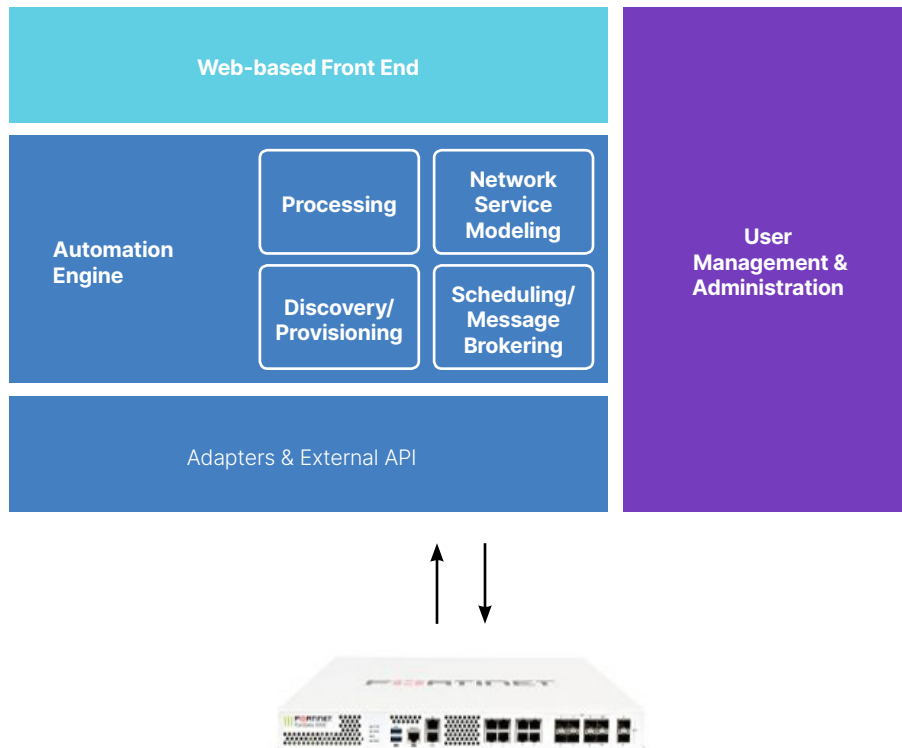


Figure 1: InSync Automation Engine integration with FortiGate for automated service delivery and operations.

Joint Use Cases

- **Automated routine network operations:** InSync Automation Engine can be configured to perform automated network operational activities across your network. These include periodic configuration backup collections, configuration comparisons for change detection, network state comparisons for troubleshooting, and alerting based on health thresholds. Network administrators can configure settings for periodic task scheduling, and platform execute tasks automatically and notify network administrators.
- **Automated network service provisioning and self-care portals:** Self-service has now become the preferred channel for users to request services. With InSync Automation Engine, enterprises can offer their IT services on self-care portals for on-demand service activation. The platform can receive requests, run approval processes, automatically run service provisioning tasks on FortiGate devices, roll back to maintain transactional integrity, and notify users about the result.

About InSync

InSync Information Technologies Pvt. Ltd. is a products & services company focused on networks and network automation solutions across service providers and large enterprises. InSync Automation Engine is a pervasive vendor agnostic network automations and orchestration platform that automates routine network operations and services. Once deployed, it is positioned as a centralized automation platform for all network automation requirement within an enterprise as multiple use-cases can be on-boarded. With the advent of AI combined with automation, InSync believes in the invent of autonomous networks that can sense, decide, run and transact on its own with minimum or no human interaction, a state we call a 'Self-Run Network®'. Visit <https://insyncit.net/> for more.



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