



# VMware NSX with Unified Security Management from Tufin

## Technology Partner Solution Brief

### SDDC Approach Redefines Data Center Network Security

The Software-Defined Data Center (SDDC) enables a substantially improved operational mode with greater speed and agility, lower operational overhead, and a lower capital expenditure model.

VMware NSX delivers network virtualization for the SDDC, with a full service, programmable platform that provides logical network abstraction of the physical network with programmatic provisioning and management abilities. Following the successful abstraction of the compute and storage elements, network virtualization provides the next step towards a fully virtualized data center.

VMware NSX also offers an opportunity to redefine the way we secure our networks. One of the fundamental challenges of network security has been the inability to isolate policy enforcement from the operational network plane. Within the SDDC, the hypervisor provides a perfectly isolated layer to enforce security policy while maintaining the application context to enable better security control and visibility.

NSX provides isolation and network segmentation by default. Virtual networks run in their own address space and have no communication path to each other or to physical networks. Native firewalling and policy enforcement at the virtual layer provides segmentation, and micro-segmentation for security controls at the unit level or virtual machine level.

Leveraging network virtualization technology, the SDDC enables security to be architected into the network itself. This allows security controls to be based on logical boundaries and makes data center micro-segmentation operationally feasible.

### The Tufin Orchestration Suite™ Solution for VMware NSX

The Tufin Orchestration Suite is a complete solution for automatically designing, provisioning, analyzing and auditing network security policy changes from the application layer down to the network layer.

With the Tufin Orchestration Suite, IT and security organizations can centrally manage and control micro-segmentation, continuously monitor and track security policy compliance, and automate security policy management throughout the entire data-center via a single interface. The Tufin Orchestration Suite provides unprecedented visibility and control of security in the SDDC ensuring a unified security policy management across the entire enterprise – including physical and virtual networks as well as hybrid cloud platforms.

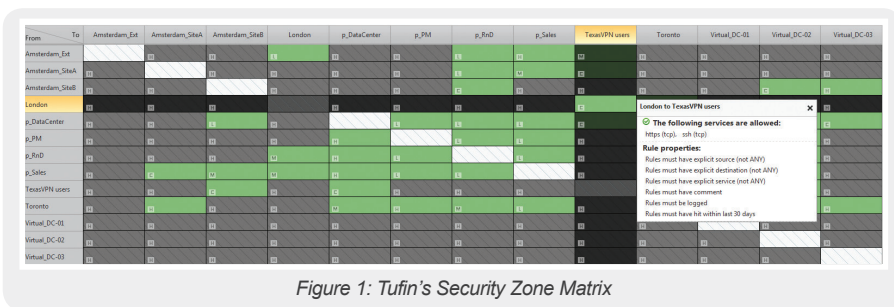
#### Cross Data Center Micro-Segmentation

The joint solution featuring VMware NSX and the Tufin Orchestration Suite delivers automation and visibility that significantly reduces the management burden of micro-segmentation across physical and virtual environments. With Tufin's Security Zone Matrix you can visually map network zone-to-zone traffic flows and instantly gain insights and visibility for your enterprise's micro-segmentation (see Figure 1).

### Highlights

The integrated VMware NSX™ and Tufin Orchestration Suite™ delivers unified security policy management and compliance across physical and virtual networks, and hybrid cloud. It enables IT organizations to:

- Control micro-segmentation across physical, virtual and hybrid networks
- Track changes to security policies on leading cloud platforms and enterprise firewalls including NSX distributed router and edge devices
- Reduce audit preparation time by up to 70% and enable continuous compliance
- Visualize policies and network connectivity across the heterogeneous corporate network
- Discover and manage application connectivity uniformly across NSX and other platforms



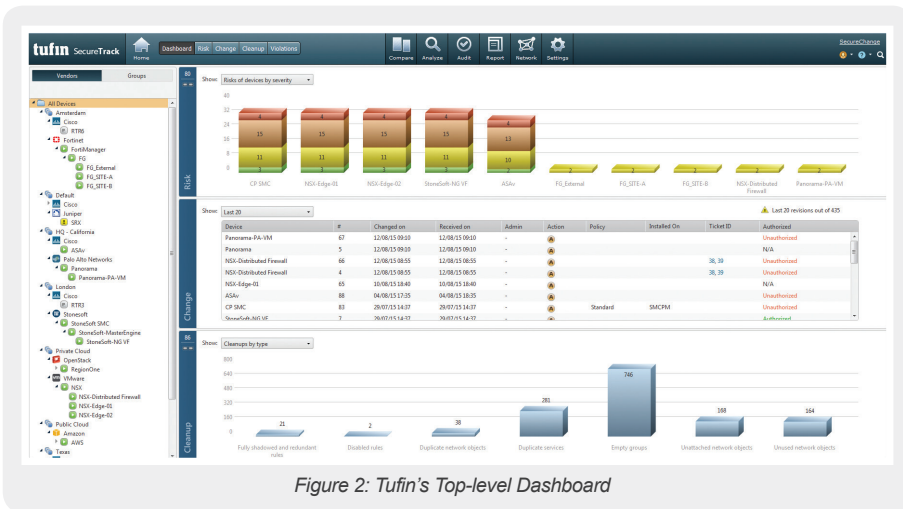
After defining your desired micro-segmentation mapping, the Tufin Orchestration Suite helps you easily identify segmentation violations, and gives you on-going control with integrated security checks as part of the change process.

### Data-Center Compliance Management

The Tufin Orchestration Suite enables IT and security organizations to centrally manage security policy compliance across the entire data-center, via a single unified interface. With out-of-box regulatory compliance reports and real-time alerts on compliance violations, IT and security organizations can slash audit preparation time and assure continuous compliance.

### Unified Security Policy Management

The Tufin Orchestration Suite unifies and centralizes control of security policies across the entire data center, supporting the leading enterprise security vendors across physical, virtual networks and hybrid cloud. It enables continuous monitoring and alerting for security policy configuration changes across physical and virtual firewalls, and cloud platforms. With change tracking and change visualizations, IT and security managers gain full accountability for security configuration changes across one or more NSX instances – providing a clear and definite answer to who did what, when and why, and what is the security and compliance impact of every change.



### Data Center and Application Migration

The Tufin Orchestration Suite facilitates migration of applications while maintaining business continuity and network segmentation across physical, SDDC and cloud infrastructures. An automatic discovery algorithm for mapping application connectivity and the planning and provisioning of security policy changes can reduce time and efforts on various migration projects associated with the transition to SDDC.

## Summary

VMware NSX with the Tufin Orchestration Suite provide a unified plane of visibility and control to IT professionals who are planning to deploy a software-defined data center. The joint solution enables IT and security organizations to reap the benefits of the SDDC while ensuring consistent security behavior and micro-segmentation policies throughout the data center, across both physical and virtual networks, and hybrid cloud environments.

## Tufin at a Glance

**Offices:** North America, Europe and Asia-Pacific

**Customers:** More than 1,500 in over 50 countries

**Leading Verticals:** Finance, telecom, energy and utilities, healthcare, retail, education, government, manufacturing, transportation and auditors

**Channel Partners:** More than 240 worldwide

**Technology Partners & Supported Platforms:** Amazon Web Services, BMC, ServiceNow, Blue Coat, Check Point, Cisco, F5 Networks, Fortinet, Intel Security, Juniper Networks, Microsoft Azure, OpenStack, Palo Alto Networks, VMware and more