

# SOLUTION PORTFOLIO FOR PUBLIC SECTOR NETWORK INFRASTRUCTURE

Drive Down Cost and Complexity in Your Network  
While Enjoying Fast and Consistent Access to  
Important Network Applications and Services

## Network Infrastructure Solution

### Overview for Public Sector

Juniper Networks® innovation in government is a high-performance network infrastructure that provides a responsive and trusted environment that fuels government transformation. Network infrastructure—the equipment and software that forms a unified communications system—provides the building blocks for Public Sector services, applications and electronic business processes. As more electronic communication and department processes go online, it is necessary to have a network infrastructure that can expand and change without disruption or excessive cost. Networks are also tools for operational innovation, and the right network infrastructure can help you deliver services faster and improve productivity.

This solution brochure provides an overview of the Juniper Networks Public Sector network infrastructure solutions for military defense, criminal justice, public administration, healthcare, and research and education organizations. These solutions help these organizations to achieve their mission objectives across branch offices, mobile workers, headquarters, and data centers. This brochure also demonstrates how the open network infrastructure solutions from Juniper Networks provide the choice and control to quickly meet high-performance government requirements, while achieving significant operational gains.

## Challenges

High-performance governments view the network as critical to achieving mission objectives. At the same time, they are under tremendous pressure to keep up with escalating demands and risks with fewer resources which jeopardizes their effectiveness. As Public Sector organizations extend data, voice, and video communications and applications to a broader set of users and citizens, the volume and pace of electronic information flow is growing. Users (from the war fighter in the trenches to a doctor in a major medical center) require reliable and predictable network performance, even as new applications are added to the network.

Public Sector IT organizations are facing a dilemma. They need to lead organizational change to support new business models yet are under constant pressure to reduce risk and control costs due to cyclical spending cycles or fixed budgets. An old design saying notes that a product can be delivered quickly, cost-effectively, or with all required features, but you can only pick one. Until recently, this saying applied as well to the network infrastructure.

## Trends

Public Sector business models are evolving. Network-centric models, distributed workforces, and extended supply chains are extending Public Sector networks to new dimensions. Public Sector organizations are also transitioning to real-time operations, where success is based on what you share and how quickly you share it. Sharing accurate and up-to-date information with end users, suppliers and partners is critical towards achieving mission effectiveness, and it is one of the primary drivers behind Web applications and service-oriented architectures (SOAs).

SOA and Web-enabled applications do have some downsides, however. Both tend to increase traffic between locations, which can have an impact on end user performance. Your Public Sector network infrastructure must deliver the performance that users expect, with the features and flexibility you need, at an operational cost you can live with.

## Juniper Networks Solution Portfolio for Public Sector Network Infrastructure

Juniper's innovation in government creates efficient, high-performance networking infrastructure solutions by providing a responsive and trusted environment. When your network is reliable, fast, and has the features you need, you can seize opportunities to increase effectiveness and quickly deliver new services. Juniper's network infrastructure solutions deliver high-performance and reliable connectivity without the need to re-engineer the network every time there is a new IT initiative. Plus, Juniper's commitment to standards, a common management infrastructure, and a common code base allows its solutions to integrate easily into existing networks. As a result your organization gains:

- Accelerated consolidation and delivery of vital information and services
- Improved productivity through fast and reliable network connectivity
- Improved user satisfaction by accelerating applications over the network
- Reduced network expenses by simplifying administration, training and operations

## Ensuring Fast, Reliable Network Connectivity

Your network infrastructure is the platform that connects your end users, partners and employees on a common medium. But how fast or reliable is your network? How well does it mesh with your security needs?

Juniper's network infrastructure solutions help high-performance Public Sector organizations meet their performance and availability metrics with new levels of security, availability, performance and operational simplicity. Juniper's routing and switching platforms are designed to connect real-time, critical applications and services to users in branch and regional offices, central sites and data centers. Juniper Networks Junos® operating system, which is part of every Juniper routing and switching platform, ensures high availability (HA) under adverse conditions and offers protection while under attack. You can also simplify your network operations with Juniper's routing and switching platforms.

With standards-based products based on the same operating system that connects remote offices, branch offices, regional offices, central sites and data centers, Juniper's routing and switching solutions provide unmatched flexibility for the Public Sector that is planning new IT innovations. Public Sector organizations can roll out new applications without worrying about being affected by performance or security hits.

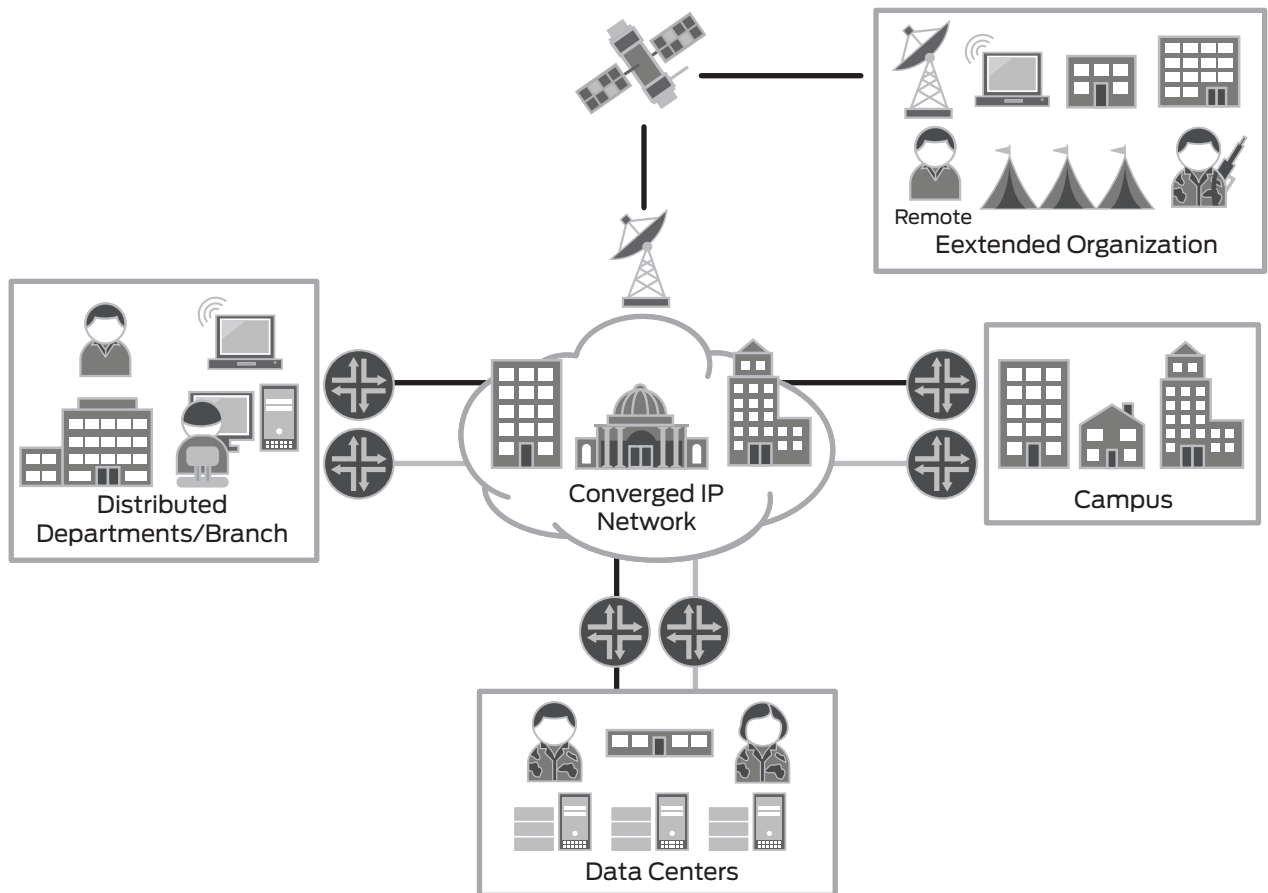


Figure 1: Public Sector network infrastructure locations

## Accelerating Application Performance

The application performance that users experience can be affected by where they are, which application or server they are accessing, or network availability and security. Most network infrastructure solutions cannot accommodate all of these factors and can't deliver the performance and availability that users expect, especially at remote locations.

Simply allowing remote or branch office workers and partners to access centralized business applications may not have the productivity boost you expect if users have to wait for server responses over wide area links. For example, Web-based applications consume up to ten times more bandwidth than client-server applications. Even client-server applications, which are optimized for LAN environments, may be too slow if the server is miles away from the user; in these cases, the inherent delay or latency leaves users frustrated and unproductive.

Juniper's best-in-class application acceleration solutions improve business application performance for Public Sector users, while maintaining reliability, security and availability. Licensing options allow you to manage your network investment, choose the features you need, and upgrade as needed. For users working from distant locations, these solutions dramatically improve application response times across the WAN. You can even dynamically prioritize certain application traffic depending on the needs of the user or your business. Plus, using network resources more efficiently reduces your expenses. Juniper's application acceleration solutions accelerate the broadest set of operational software, support large scale deployments, and provide unmatched visibility and management.

## Reducing Complexity and Cost through Operational Simplicity

For many Public Sector organizations, merely keeping a network running can drain critical IT resources. Operating system instabilities, multiple versions and types of operating systems, upgrades, proprietary standards, and legacy designs are all characteristics that make network infrastructure complex or difficult to manage. The more complex a network, the more likely errors will occur. Since human error is responsible for up to 80 percent of network downtime, Public Sector organizations need to simplify their network infrastructure. Cost and agility are two more reasons to simplify networks. The cost and effort of maintaining existing networks makes it difficult for Public Sector organizations to keep up with business growth and maintain operational expenses. Simplifying deployment and ongoing support will make expansion to new locations or groups of users faster, easier and more cost-effective.

Since its inception, Juniper has been helping its customers drive down the costs associated with building and maintaining networks. Juniper made its name in the industry with resilient, high-performance and standards-based routing platforms that improve business continuity while integrating more easily into existing networks and systems. This combination of reliability, performance and flexibility is delivered by Junos OS, the trusted operating system that runs all Juniper routing and switching platforms. This single code base is designed to streamline deployment, upgrades and management. Independent research confirms that Junos OS improves IT productivity by reducing the time spent monitoring, upgrading or adding services to the network. Junos OS also reduces the frequency and duration of unplanned network events, which increases service availability. Finally, Public Sector organizations rely on Juniper to deliver infrastructure that can be managed and administered from central locations and easily deployed without extensive training or onsite support.

## JUNIPER NETWORKS SERVICE AND SUPPORT

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit [www.juniper.net/us/en/products-services/](http://www.juniper.net/us/en/products-services/).

## Network Infrastructure Solution Planning, Implementation and Deployment

Juniper provides a comprehensive and flexible portfolio of industry-leading technical support, professional services and educational programs to help customers and partners realize maximum value from their network investments.

Support Services provide support that large networks demand and let customers select from a variety of options to augment their in-house technical expertise. There are 15 Juniper Networks Global Technical Assistance Centers (JTACs) located around the world that manage customer cases at all times of the day throughout the year.

Professional Services provide customized consulting to assist customers in planning and designing networks with maximum efficiency.

Educational Services deliver expert education and technical certification programs to help customers build their IP network expertise through standard technical programs, Web-based courses, customized workshops and hands-on lab sessions.

## Achieve your Business Goals with the Help of Juniper's Network Infrastructure Solutions

Worldwide, Public Sector organizations are leveraging Juniper solutions to achieve business goals, improve user productivity and satisfaction, and drive down the cost of operating and maintaining their networks. Juniper's network infrastructure solutions can integrate easily into your branch or regional offices, data centers and headquarters, or campus locations. For more information on accelerating your network connectivity and application performance while simplifying operations, please visit [www.juniper.net](http://www.juniper.net).

## Public Sector Network Infrastructure Solution Matrix

This matrix will show you which Juniper Networks solutions are appropriate for different enterprise locations.

Table 1: Public Sector Network Infrastructure Solution Matrix

	INFRASTRUCTURE		SERVICES			POLICY AND MANAGEMENT
	ROUTING	SWITCHING	FIREWALL/VPN/UTM	ACCESS CONTROL	WAN OPTIMIZATION	
Data Center	MX Series	EX8200 Line	ISG Series	SA6500	WXC Series	IC Series
	M Series	EX4200 Line	NetScreen Series	SBR Series IC Series		NSM CMS SBR Series
Campus	M Series	EX8200 Line	ISG Series	SA4500/SA6500	WXC2600	IC Series
		EX4200 Line	NetScreen Series	IC Series		NSM
		EX3200 Line	IDP800/IDP8200	SBR Series		OAC SBR Series
Branch/Regional Office	J Series	EX4200 Line	SSG Series	SA700/SA2500	WXC series	OAC
	SRX650	EX3200 Line	IDP75/IDP250	IC Series		SBR Series
	SRX240	EX2200 Line	SRX650	OAC		SRC Series
	SRX210		SRX240 SRX210	SBR Series		IC Series
Extended Enterprise	Secure client access via SSL VPN					
Mobile Worker, Teleworker	OAC; Secure clientless access via SSL VPN					

## About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at [www.juniper.net](http://www.juniper.net).

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