



Wherever we live around the globe, our governments increasingly rely on networks for communications with departments, agencies, politicians, and citizens.

Connected public services are needed to achieve a better educated society, a higher skilled workforce, a healthier population, and a safer community.

Governments and their citizens demand easy, cost-effective, and trusted access to all types of information across reliable, secure fixed and wireless networks.

Juniper Networks is radically changing the face of networking through innovation, simplification, standardization, and cost reduction to create a new type of public sector network.

THE NEW PUBLIC SECTOR NETWORK IS HERE

The Need for a New Public Sector Approach to Innovation

Governments around the world are facing major challenges with record levels of national debt. At the same time, they are experiencing increased demand for citizen services and a heightened national security risk. The investments in public sector IT over the past few years have resulted in infrastructure that is too complex and costly to run, and ongoing investment on this basis is clearly unsustainable.

Citizen demands on the public sector for better quality services are continually increasing, but the expectation is that this will be done without raising taxes. Investment in citizen services needs to produce real cost savings that can be measured and audited. Therefore, the underlying cost structure of the public sector IT infrastructure needs to be drastically changed to deliver better services at much lower cost.

Government policies are driving public sector departments and agencies to work together more collaboratively, while at the same time citizens are demanding that their personal information be protected. Shared infrastructure allows public services to be more connected and collaborative, and it provides the opportunity for significant cost savings, but comes with increased security risk. Therefore, governments need to increase the sharing of information but also enforce robust security measures designed to protect sensitive data from loss or misuse.

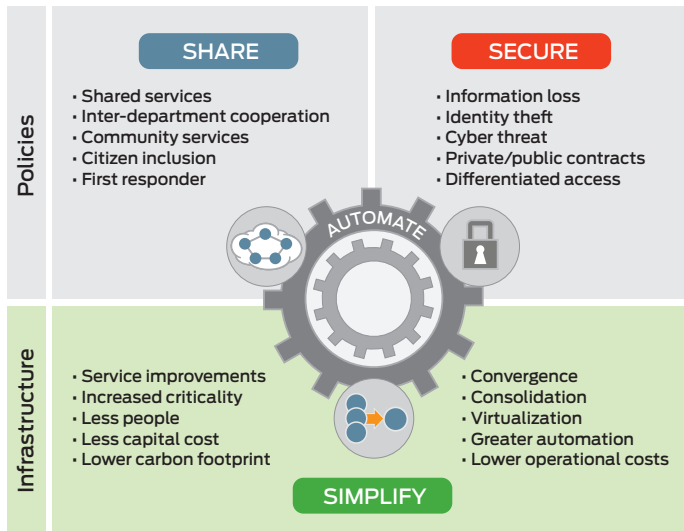
The threat to the public sector from cyber attack is dramatically increasing, whether from e-criminals trying to use citizen records as a source for identity theft or cyber terrorists attempting to cause harm to critical national infrastructure. The impact to the credibility of a government can be significantly damaged if key services are unavailable or citizen information is stolen. Therefore, public sector infrastructures need to be hardened to be more cyber aware and resistant to these evolving threats.

Governments are also striving to be leaders in carbon footprint reduction, which requires major changes in IT design, implementation, and operation. The consolidation of data centers, the convergence of infrastructure, and the simplification of networks, systems, and devices are fundamental steps to reaching the public sector's green goals.

Governments looking to reduce budget deficit but maintain key services and national security cannot do so by reducing IT spend. Smarter use of technology and innovation need to be key parts of the solution. For governments to provide transformational services that are secure at much lower cost and significantly more environmentally sensitive, a radical approach is needed.

Juniper Is Changing the Face of Public Sector Networks

Juniper is bringing new ideas and innovation to public sector networks to provide the extra capacity, security, and capabilities that are needed to meet the growing needs of government, but with a significantly lower cost base. This enables a fresh approach, which Juniper calls The New Network, to building public sector networks, data centers, office communications, and mobile working solutions across all areas of the public sector.



Share

A commitment to the use of open standards is one of Juniper's fundamental strategies for innovation. It allows different public sector domains to connect and interoperate effectively, securely, and reliably without risk or without being forced to adopt a single vendor strategy.

Juniper's innovation to create an open network means that public sector networks can be built to support an ecosystem of technology from the very best vendors in areas such as IP telephony, unified communications, servers, and storage—without compromise or lock-in.

Juniper's involvement in the creation of open standards such as Trusted Computing promotes robust and secure access and authentication to public sector networks. Juniper also recently became a founding member in the Unified Communications Interoperability Forum (UCIF), a non-profit alliance dedicated to promoting standards-based, cross-vendor interoperability of converged hardware and software, a major enabler to a more connected and open public sector environment. Our collaborative culture enables Juniper to work in true partnership with governments to help define IT policy and standards that leverage the power of The New Network.

Secure

Juniper's own purpose-built custom silicon and Juniper Networks® Junos® operating system make public sector networks inherently more stable, secure, and resistant to cyber attack.

Juniper has embedded security capabilities into the network fabric, reducing the requirement for additional layers of security appliances and allowing a tighter relationship between the network and security functions. Juniper has taken those disparate appliances and consolidated them into a single cluster of platforms, a virtualized pool of security services that can be applied to any flow in the data center. This allows a faster security response, while maximizing network service availability and reducing the operational resources needed to operate the network.

Simplify

Juniper's New Network takes a new approach to the design of network architectures in offices and data centers, one that simplifies the over complexity of current networks, reduces the amount of equipment and cabling needed, makes it easier to manage with less staff, and uses open standards to better integrate various infrastructure elements.

Juniper's use of the Junos OS and multiple types of network and security virtualization technologies enables a simpler public sector infrastructure—one that is easier to use, is infinitely scalable to enable the sharing of information at national scale, and is readily accessible from the furthest reaches of the country from any device.

Junos OS significantly reduces the operational cost of public sector networks by having one common code version across the entire infrastructure, making the network simpler to design, certify, and operate.

Automate

Juniper Networks' comprehensive software and services for network automation help reduce complexity, increase operational efficiencies, and scale the infrastructure in response to business dynamics.

The Junos Space network application platform was designed to provide end-to-end visibility and control of the network to enable network resources to be orchestrated in response to business needs. Operators can significantly simplify the full network life cycle, including configuration provisioning and troubleshooting, and increase operations accuracy using user-specific workflows and Juniper best practice.

Junos Space includes a core set of collaborative applications from Juniper and third parties that help managers improve operational efficiencies, rapidly scale their infrastructure, and increase the reliability and agility of their network. Junos Space applications share common services to enable resource, security, and performance optimization.

Better Services at Lower Cost

A public sector network built with Juniper technology:

- Is 30-40% cheaper to buy
- Is 25-30% cheaper to run
- Is 50% cheaper and faster to certify for government use
- Takes 35-40% less power
- Uses 40-45% less space

Source: Juniper Networks Financial Analysis Tool
3000 Server data center - Juniper vs. competitor



Junos OS—Open Platform for High-Performance Public Sector Networks

Junos OS is the software that runs across Juniper designed routers,

switches, and security devices that are the foundation for many public sector networks and critical national infrastructures worldwide. However, it is actually much more.

Junos OS was designed by Juniper’s founders from the ground up as a focused network operating system to provide a high-performance, stable, and secure infrastructure environment for business critical networks.

Junos OS marries Juniper’s extensive development expertise in world-leading networking software with open interfaces that allow a community of worldwide partners and customers to build customized, innovative capabilities and services.

For the first time ever, public sector services, policies, and people can drive and control the function and operation of a new IT infrastructure that adapts dynamically to service needs.



Junos Space—Open Platform for Development

Juniper has designed a development platform called Juniper Networks Junos Space that provides a smart, simple,

and open gateway between the business process and the network function. This enables the public sector and its IT partners to get more value and performance by using a nonproprietary set of rules to control the network from a business process perspective. Junos Space enables Infrastructure as a Service (IaaS) capabilities for the public sector.

Junos Pulse—Open Platform for Secure Mobility



Extending public sector services to mobile users and ensuring that public sector workers have access to comprehensive, accurate, and timely information wherever

they are located is a crucial component in government efficiency and service improvement.

However, the same level of security that exists within a government office needs to be extended to the mobile device. Juniper Networks Junos Pulse provides a network security wrapper, using Trusted Computing Group (TCG) standards, for any mobile device to enable the secure delivery of public sector services in the community.

THE NEW PUBLIC SECTOR NETWORK IS HERE, AND IT RUNS ON THE JUNOS OPERATING SYSTEM.

Corporate and Sales Headquarters

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100
www.juniper.net

APAC Headquarters

Juniper Networks (Hong Kong)
26/F, Cityplaza One
1111 King’s Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EMEA Headquarters

Juniper Networks Ireland
Airside Business Park
Swords, County Dublin, Ireland
Phone: 35.31.8903.600
EMEA Sales: 00800.4586.4737
Fax: 35.31.8903.601

To purchase Juniper Networks solutions, please contact your Juniper Networks representative at 1-866-298-6428 or authorized reseller.

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