



# Juniper Networks USGv6

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Feb, 2011



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# IPV6 LEADERSHIP

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Routers designed to support IPv6

- IPv6 enabled in JUNOS 5.1 software in Nov 2001
  - Mainline!

IPv6 support in JUNOSe since May 2003

IPv6 support ScreenOS since June 2004

- Technology release
- Mainlined in ScreenOS 5.4 July 2006
- JITC certified Nov 2008

First router to be IPv6 Certified by DoD in 2006

First firewall to be IPv6 Certified by DoD in 2008

CTP (EoIP) support since Feb 2007

OAC (wireless supplicant) support May 2007

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# IPV6 AT JUNIPER

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A few early adopters (DREN, NTT, ESNet, etc.)

- Pushing us

Moonv6 participation

- Validate interoperability
- Hone the implementation

IPv6 Forum Readiness logo certification testing

Juniper currently deployed in many IPv6 networks including DREN and ESNet

Juniper Networks plays a leadership role in the IETF

- IPv6 development
- Scalable IPv6 migration solutions

Most recently: [www.ipv6.juniper.net](http://www.ipv6.juniper.net)

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# SECURITY DEVICE USGV6 STATUS

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IPv6 support in mainline ScreenOS since 2006

- JITC certified Nov 2008

ScreenOS platforms to be tested in USGv6 firewall category later in 2011 using ScreenOS 6.3

SRX platforms to be tested in USGv6 Firewall category later in 2011 using JUNOS 10.4

SRX platforms to be tested in USGv6 IDS/IPS categories following firewall testing using JUNOS 11.2.

SRX LS-NAT support JUNOS 11.2

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## OBSERVATIONS

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DoD is ahead in IPv6 preparedness

Across the industry, Network Infrastructure is generally IPv6 capable

Some Agencies are behind in IPv6 training and IPv6 lab testing

Agencies should purchase dual stack capable infrastructure, but dual stack is not the quickest or least expensive path to v6 accessible services

[Tools and Strategies for Coping With IPv4 Address Depletion](http://www.juniper.net/us/en/local/pdf/whitepapers/2000360-en.pdf)

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USGv6 compliance should not be confused with IPv6/IPv4 feature parity

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# IPV6 AT JUNIPER - SUMMARY

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Strong, compliant, feature rich, v6 solutions

Early implementer with lots of v6 customer examples

DREN, ESNNet, NASA, I2, GEANT, NTT, Japan GigaNet

Thought leader

- Active IETF v6 leader
- Migration solution innovator
- UNH IOL IPv6 member

Juniper will continue to expand v6 support across our solutions

- Mobile Gateway
- JUNOS Space
- Media Flow Controller

Juniper will continue to certify our solutions through both the NIST and DoD processes

**THANK YOU**

**TOOLS AND STRATEGIES FOR COPING  
WITH IPV4 ADDRESS DEPLETION [ 1  
MB ]**