



Juniper Networks USGv6

Tim LeMaster

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Legal Disclaimer: This statement of product direction (formerly called “roadmap”) sets forth Juniper Networks ‘current intention, and is subject to change at any time without notice. No purchases are contingent upon Juniper Networks delivering any feature or functionality depicted on this statement.

IPV6 LEADERSHIP

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

IPV6 AT JUNIPER

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

JUNIPER NETWORKS ROUTING AND SWITCHING

Routing Platforms-

- T- series
- M- series
- MX- series
- J-series

Switching Platforms

- EX- series

USGV6 ROUTER STATUS

M, MX, and T router platforms tested with Junos 10.4 software

IPv6 basic- Complete

IPv6 SLAAC- Complete

IPv6 Address Architecture- Complete

OSPFv3- In Process

BGP- In Process

IPsec/ESP- In Process

USGV6 SWITCH STATUS

EX 3200/4200 with Junos 10.4 software

- BGP- Complete
- OSPFv3- Finishes this week
- IPv6 Basic- In process
- IPv6 SLAAC- In process
- IPv6 Address Architecture- In process

EX8200 with Junos 10.4 software

- To be tested later this year

EX4500

- Current IPv6 functionality limited to v6 management
- Additional IPv6 functionality on roadmap
- USGv6 testing to be conducted at a later date

EX2200 is primarily a Layer 2 device and not expected to be USGv6 tested.

SECURITY DEVICE USGV6 STATUS

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

OBSERVATIONS

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. There are necessary v6 features not required by USGv6 cert.

USGv6 does not validate v6 performance

IPV6 AT JUNIPER - SUMMARY

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]**