

# Juniper IPv6 Participation

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With the support of CITC

Juniper



# AN INNOVATOR WITH GLOBAL REACH



## INNOVATION

Securing more than 86% of smartphone traffic in the U.S.  
The world's top 5 social media properties runs on Juniper  
17-19% of net revenue invested in R&D



## TALENT

9700+ Employees and 12,000+ Partners  
16 around-the-clock technical support centers  
123 countries  
~45% of employees are dedicated to R&D



## Juniper – Saudi Arabia

2<sup>nd</sup> largest office in EMEA with more than 130 employees  
Local technical support team.  
Internship Program

# Offer

- Monthly IPv6 session for the universities
- Access to Juniper innovative Junosphere



# Monthly IPv6 Session

# Juniper Consultant to make a visit

- Juniper senior consultant to make a monthly visit to universities.
- The visit will consist of 3 parts:
  - Theoretical session about the IPv6 technology and it's uses
  - Live demo on IPv6 implementation
  - Q&A session
- The university to facilitate the session logistics



# Junosphere

# Junosphere Overview

- Junosphere Cloud is a virtual environment where users can create and run networks that use the Junos operating system. It reduces costs and limits risk by providing a lab where network implementations can be designed and modeled.
- Virtual networks created in Junosphere can be used for training, network modeling, planning for new services, or examining “what-if” scenarios for the installed network. They can easily achieve a level of scale and accuracy not possible with alternative network simulation approaches.

# Junosphere Overview

The screenshot displays the Junosphere web interface. The top navigation bar includes the Junosphere logo, a "Welcome system" message, and utility icons for help, settings, and refresh. The left sidebar contains a "Navigation" menu with sections for "Favorites" (Welcome, Configuration, Administration, Reports, Configuration) and "Tasks" (Topologies, Administration, Reports, Configuration). The main workspace is titled "Topologies > Create Topology in Wizard" and features a toolbar with drawing tools. Below the toolbar are categorized image libraries: "Juniper - Supported" (VJX 1000, VSRX, Junos Space 12.1 Apps, Junos Space 12.2 Apps, BGP Feed), "Juniper - Experimental" (VMX, VPTX), "App Server" (CentOS), and "Partner" and "Custom" categories. The central area shows a network topology diagram with various nodes connected by green lines. Nodes include VSRX0-VSRX2, VMX0-VMX3, VPTX0, VJX0-VJX2, SPC0, and CTS0. Connections are labeled with ports such as p0, p1, p2, p3, p4, p5, p7, p8, p9, p10, p11, p12, p13, and p14. At the bottom right, there are "Save", "Save to File...", and "Reset" buttons.



# Junosphere Offer

- Juniper will offer 3 months free access to its cutting edge virtualized platform to universities.
- This access will enable them to build a network topology and implement the IPv6 technology in different flavors.

# IPv6 Facts

- Internet Protocol Version 6 (IPv6) is the next generation of the Internet Protocol that is in various stages of deployment on the internet.
- The impending exhaustion of IPv4 addresses is prompting many network operators to look closer at ways to provide more address space, including IPv6 and NAT solutions.
- By 2011 all major operating systems in use on personal computers and server systems had production-quality IPv6 implementations.

# IPv6 Facts ...continue

- When deploying IPv6, you can gain a great advantage by using Juniper Networks high-end routers because IPv6 has been implemented directly in the ASICs (Application-Specific Integrated Circuit). Having IPv6 compatibility in the hardware means that IPv6 packets can be forwarded at line rate – unlike many competing routers. Additionally, the Junos OS makes configuring and troubleshooting an IPv6 network a snap.
- WorldWide ISP's are adopting DualStack structure to push subscribers to experience and to be familiar with IPv6; ISP's in Saudi are offering IPv6 services to customers using a DualStack topology; Leased Lines and PPPoE DSL/FTTX modems are DualStack enabled.

# Thank You

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