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IPv6  
in  
Solaris 8  
& Beyond

# IPv6 in Solaris 8

**Vijay Rajvaidya**  
**Business Manager**  
**Sun Microsystems, Inc.**



# Agenda

- **IPv6 Functionality in Solaris**
- **Applications and Name Services**
- **Transition Mechanism**
- **Solaris IPv6 Roadmap**
- **Solaris Advantage**
- **Industry Activities & Participation**
- **Future Focus**

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# IPv6 Functionality in Solaris

- **IPv6 Announcement- January 2000**
- **Customer Release- March 2000**
- **Dual-Stack**
- **Bundled in Solaris 8**
- **No Impact on IPv4 Applications**

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# Basic Applications

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- **ifconfig**
- **ndd**
- **telnet/in.telnetd**
- **rlogin/rlogind**
- **rsh/rshd**
- **tftp/in.tftpd**
- **inetd**
- **ping**
- **snoop**
- **route**
- **traceroute**
- **netstat**
- **finger/in.fingerd**
- **mconnect**



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## Other Applications

- **Sendmail**
- **RPC/NFS**
- **Printing**

## Name Services

- **NIS**
- **NIS+**
- **DNS (with IPv4 transport)**



# Transition Mechanisms

- **RFC 2893**
- **Dual Stack IPv4 & IPv6**
- **IPv6 in IPv4 Tunnels**
  - **Configured**
- **Application Porting Tool**
  - **IPv6 Socket Scrubber**

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# IPv4 to IPv6 Transition

## Tunnels

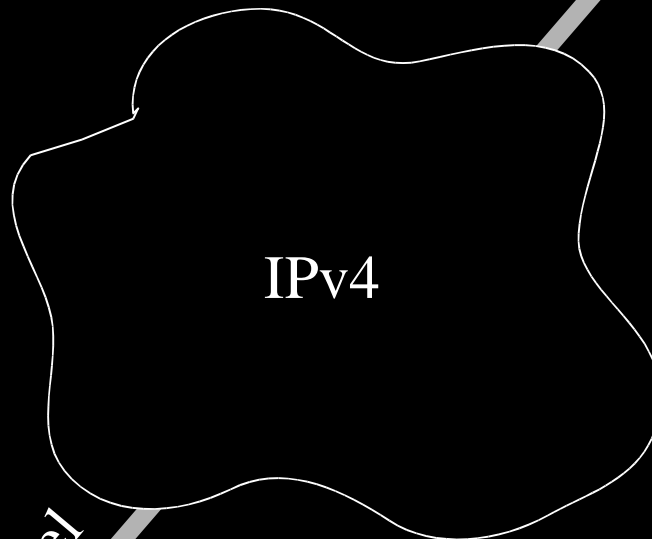


IPv6 Workstation

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IPv6

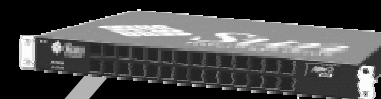


IPv4

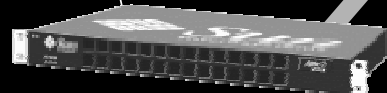


IPv6

dual stack router



tunnel



dual stack router

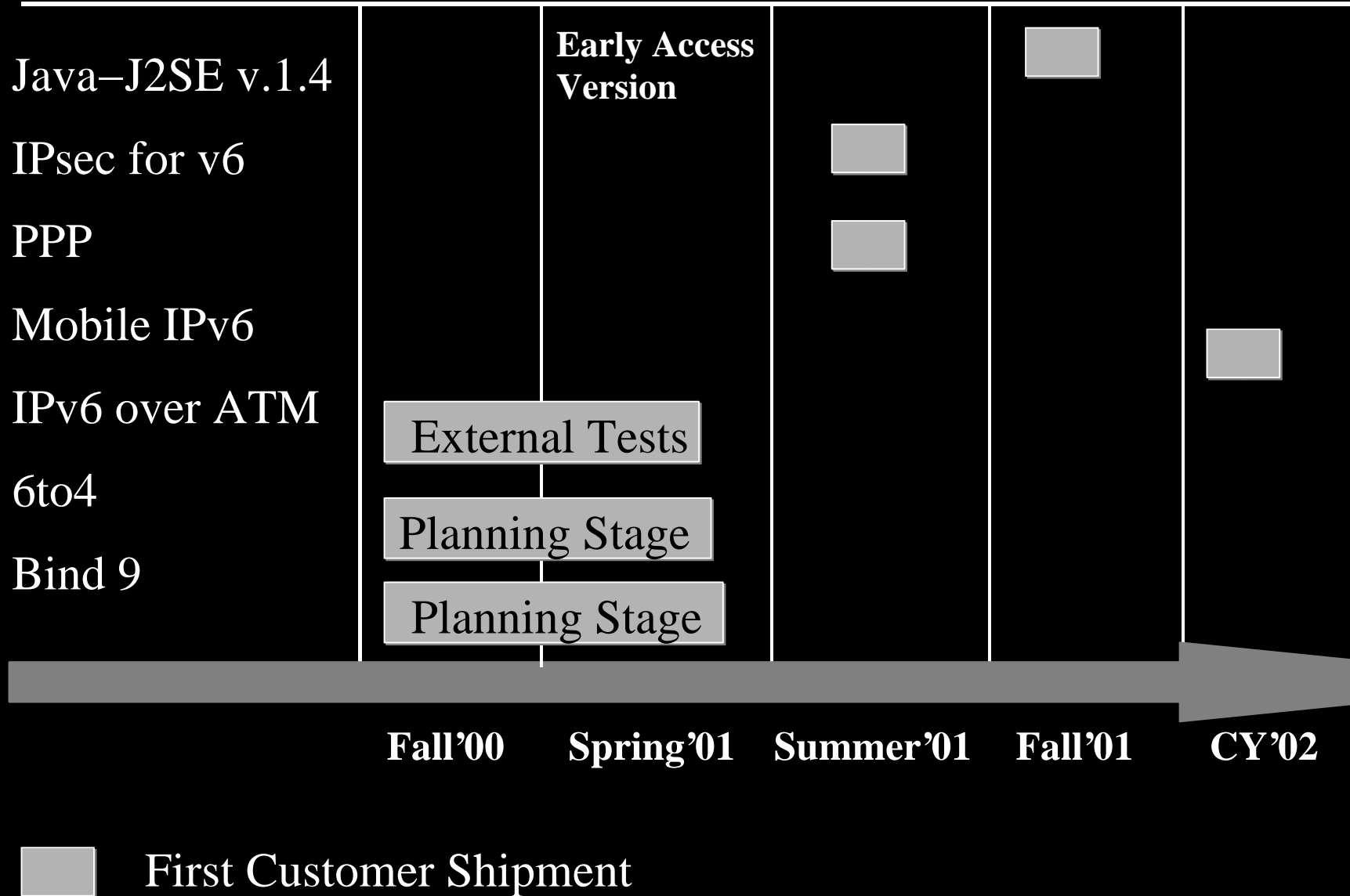
IPv6 Server





# Solaris IPv6 Roadmap

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# Industry Activities

*Driving and promoting IPv6 Technology*

- **IPv6 Forum**
  - Sun is the Founding Member
  - Product Presentations
  - Product Demonstrations
- **IETF Working groups**
  - 6bone
  - 6REN
  - 6TAP
- **MWIF and 3GPP**

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# Industry Activities

*Driving and promoting IPv6 Technology*

- **Interoperability Testing**
  - **Annually at Connectathon**
  - **Annually at University of New Hampshire**
  - **IPv6 testing at iLabs at Networld+Interop, March & September 2000**
  - **IPv6 Forum, Washington DC, October 2000**
  - **TAHI, Japan, Summer 2000**

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# Solaris 8 Advantage

- **IPv6 Commercially Supported**
  - Not a prototype
- **Massive Scalability**
- **Constant Availability**
- **Total Manageability**

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# Future IPv6 Focus

- **Complete the IPv6 Picture**
- **Focus on Interoperability**
- **Continued Participation at Industry Events**
- **Drive the Deployment of IPv6**

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# IPv6 Support in Solaris 8

- <http://www.sun.com/solaris/ipv6W>
- **White Paper**
- **Network Application Porting Guide**
- **Network Application Porting Tool**
  - IPv6 Socket Scrubber
- **IPv6 Network Administration Guide**

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# Further information...

- [ipv6-questions@sun.com](mailto:ipv6-questions@sun.com)

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