



Enhancing IPv4 Apps with IPv6

Junaid Islam

President & CTO Vidder

Misconceptions on v6

- IPv4 & IPv6 are incompatible protocols
- The network must be upgraded for v6
- There is no business case for IPv6

What v6 Offers v4

- Intelligent overlay to existing v4 networks
 - IPv6 can leverage IPv4 as a transport solution
 - Mobile IPv6 route optimization highly efficient
- Reduction in server & switch costs
 - Any compute device can become a server
 - Routing replaces load balancing
- Greatly improved security
 - IPsec built into IPv6 protocol
 - End-to-end, even over NAT

IPv6 over IPv4 Applications

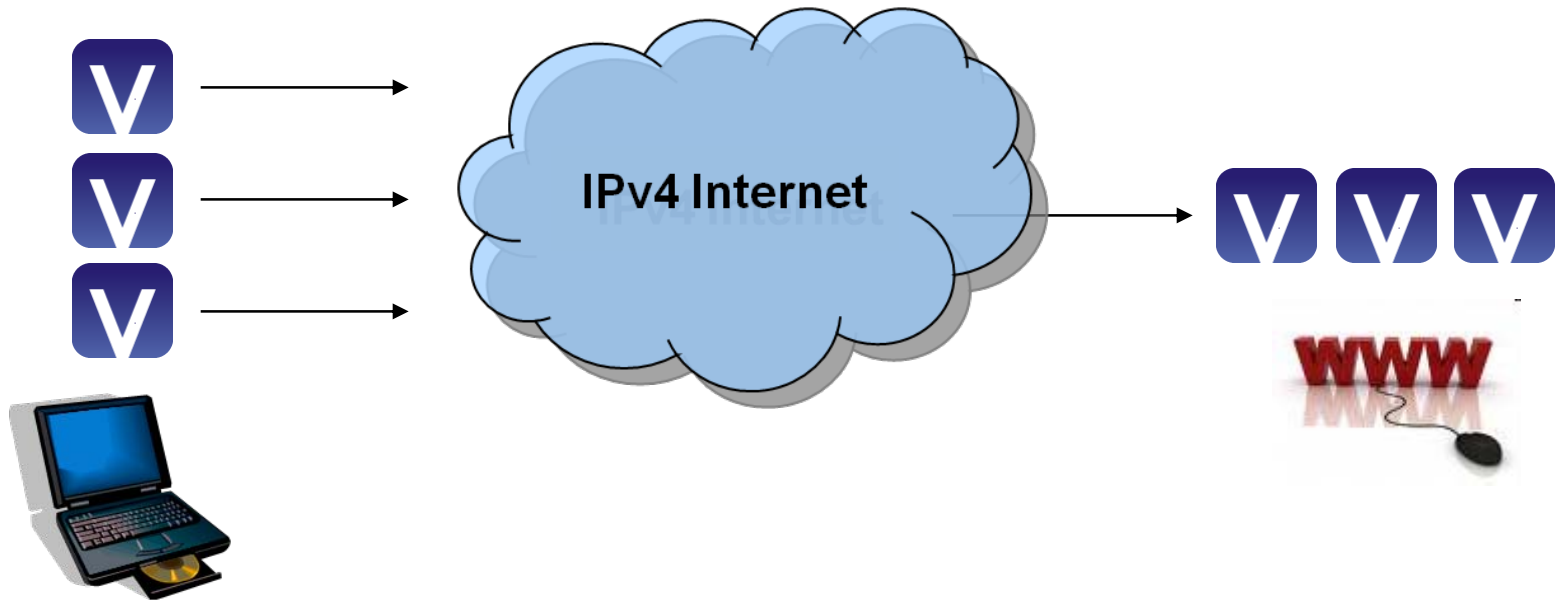
- Video broadcast
 - Breakthrough Server-less video broadcast
 - Business case Reduces costs by 99%

- Mobile VPN
 - Breakthrough Mobile end-to-end VPN
 - Business case Elimination of switches & gateways

- Grid computing
 - Breakthrough NAT'd PC can become a resource
 - Business case Corporate PCs can support GRID apps

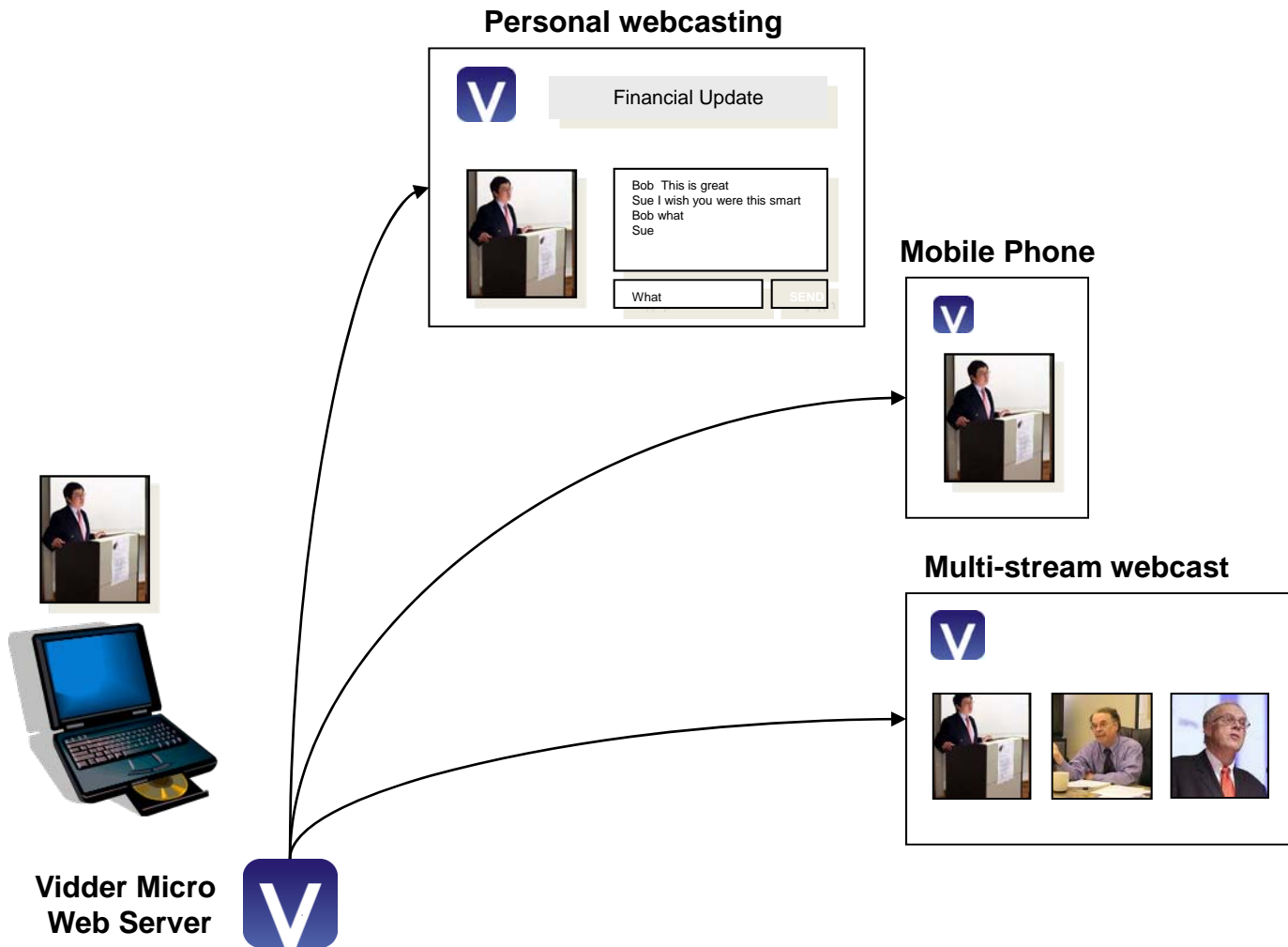
Vidder “Server-less” Video

IPv6 Stream Server → IPv4 Web Video



- Anyone with a PC & Internet connection can become a video broadcaster
- Distributed compute model migrates video server function to user's PC
- **NO** IPv6 network upgrade is required!!!

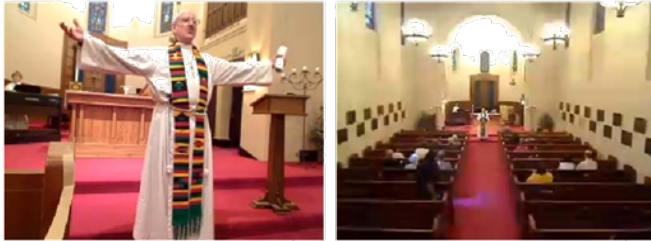
IPv6 = Consumers become Producers



Vidder Users



Video Center



US Army Presidio Chapel in San Francisco webcasts to remote members using existing PC



Hasso Plattner Institute webcasted conference to researchers unable to attend conference

Closing thoughts

- Leverage IPv6's unique strengths when developing applications
- Focus on current problems (don't worry about the future)
- Empower users with IPv6!!!