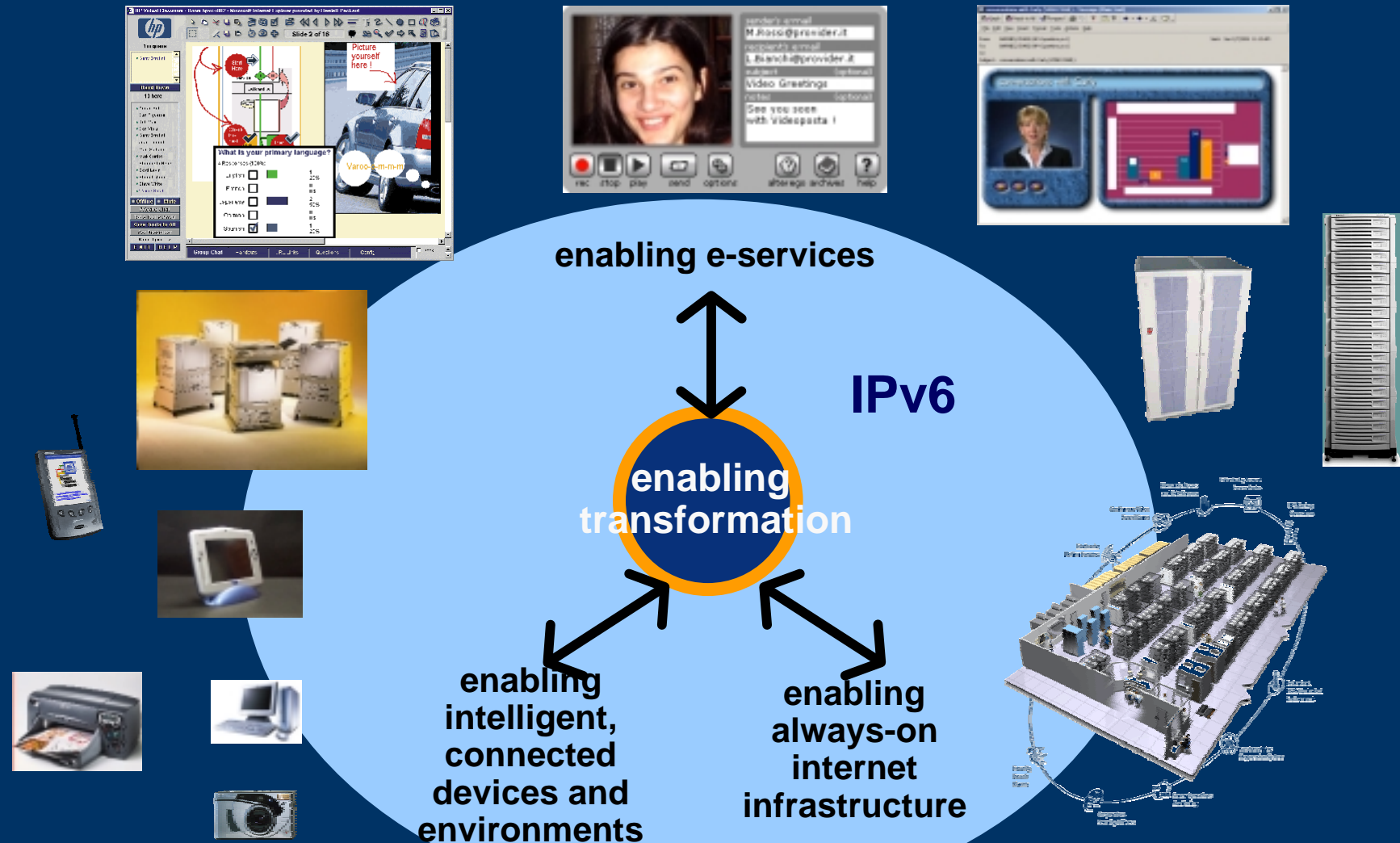# IPv6 activities in hp

Yoshiko Kimura
Business Customer Organization
Sales and Marketing
Hewlett-Packard Japan, Ltd.
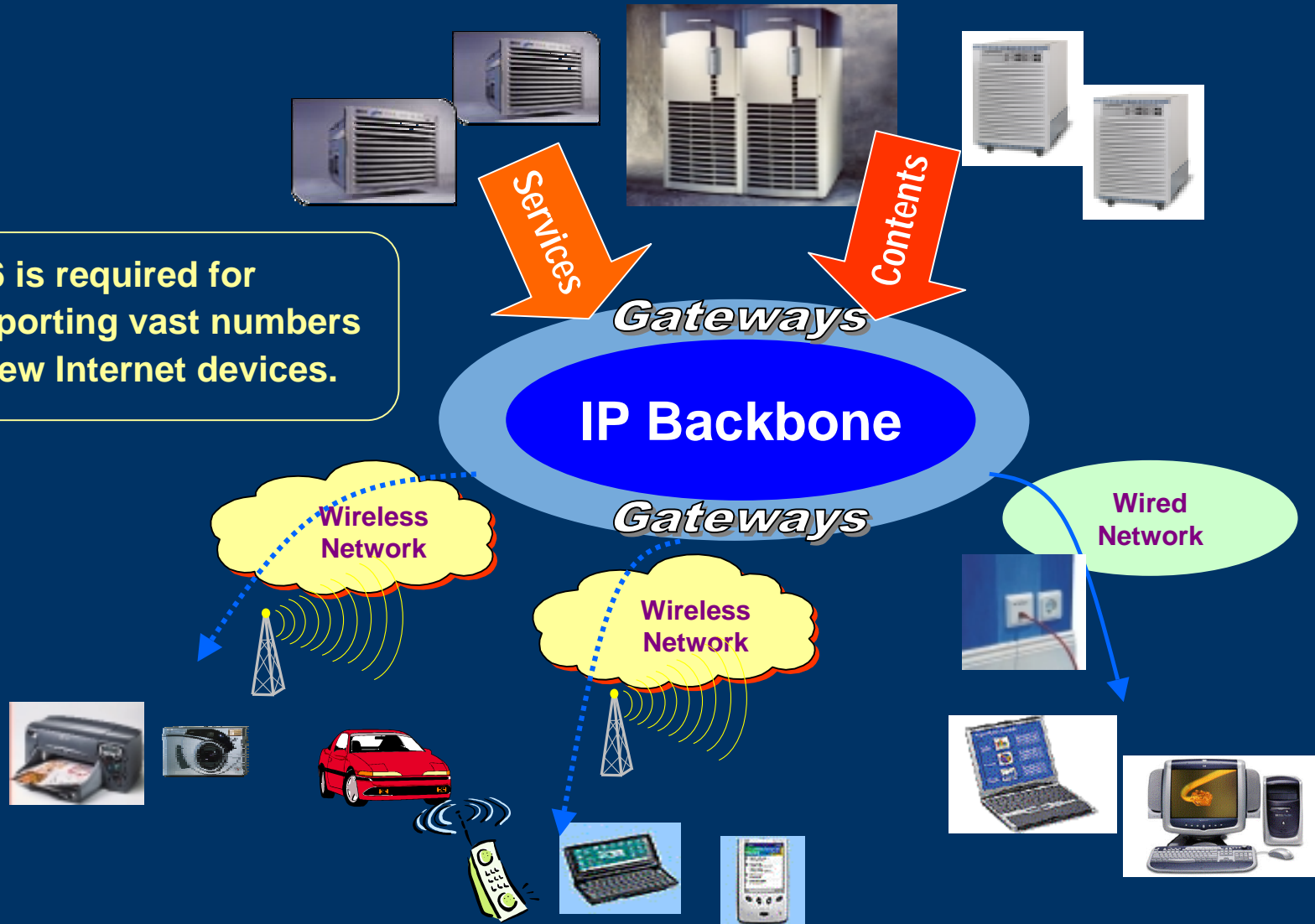
hp vision
IPv6 plays a key part in hp's vision

enabling e-services

IPv6

enabling transformation

enabling intelligent, connected devices and environments

enabling always-on internet infrastructure

Dec. 3, 2001

IPv6 is required as a foundation for Global IP Mobility.

IPv6 is required for supporting vast numbers of new Internet devices.

Services

Contents

Gateways

IP Backbone

Gateways

Wireless Network

Wireless Network

Wired Network

hp IPv6

Lab Activities

- **hp helps drive the IPv6 Standardization Bodies**
  - Active participation in the IPng, Ngtrans and other IPv6 related working groups regularly.

- **Technical committee in:**
  - DNSv6
  - DHCPv6

- **IPv6 Forum**
  - hp is one of the early Founding Members to promote IPv6.

- **UNH IPv6 Consortium**
  - hp is a member of the IPv6 Consortium. Involve in ongoing conformance and interoperability testing.

Dec. 3, 2001

hp-ux

IPv6 Strategies

- **Provide complete operating environment for IPv6 connectivity**

- **Having IPv6 enabled services are key to the success of IPv6. For example, the following hp software products will be integrated with hp-ux 11i seamlessly:**

  - **Mobile IP**
  - **IPSec**
  - **MC/ServiceGuard**
  - **Autoport Aggregation**
  - **OpenView Network Node Manager**
  - **OpenView GlancePlus Pak**
  - **RIPng, OSPF**
  - **FDDI, PPP, ATM**
  - **DHCPv6**

Network Management for IPv6

hp OpenView Network Node Manager

Initial Capabilities

-**Auto-discovery**

Dual stacked network devices. IPv6 MIB over IPv4.

- Ping Status

Over IPv6.
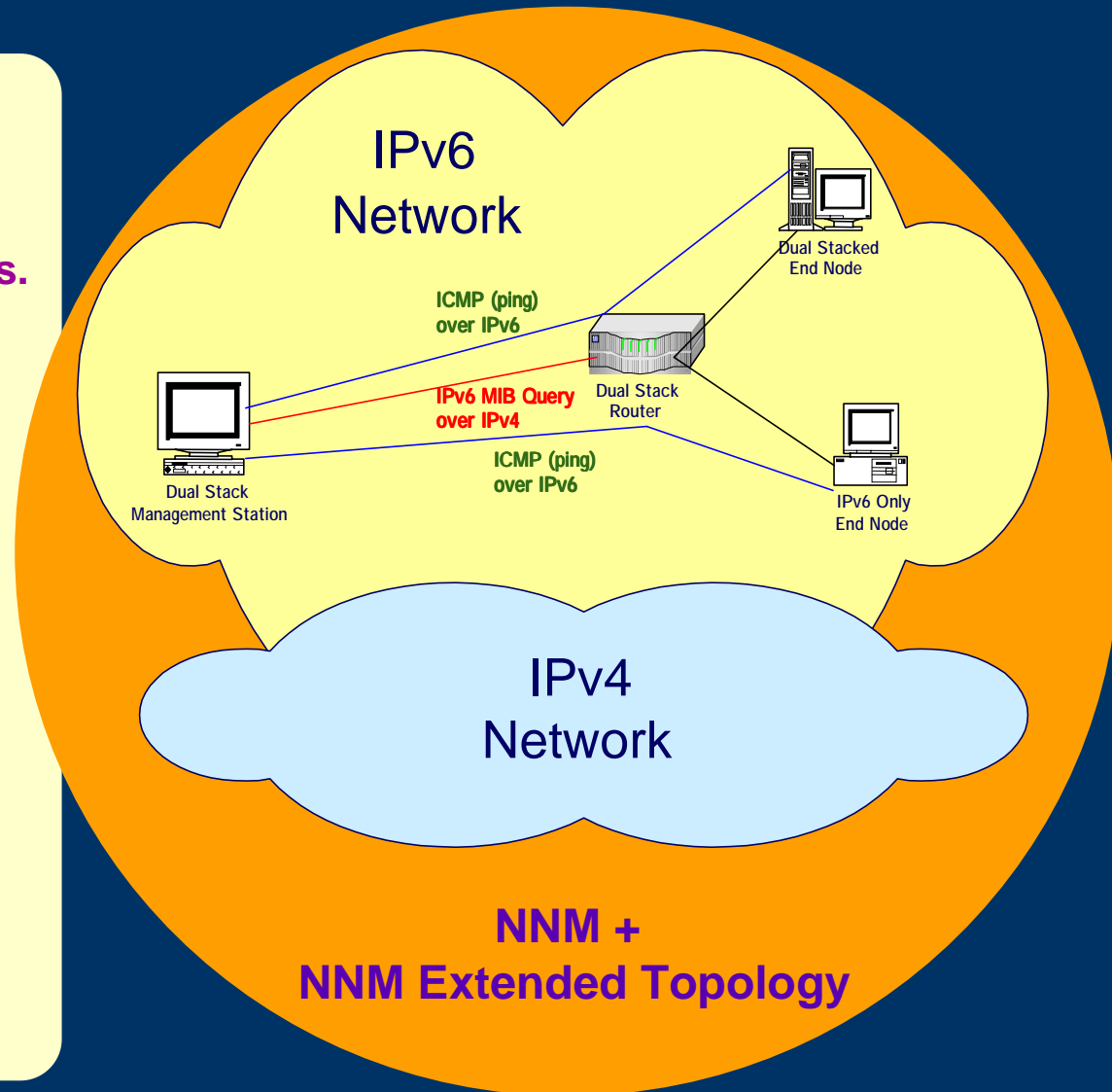
- IPv4/IPv6 Dual Stack

Dual stacked network environment.

-**Visualization**

Separate views for IPv4 and IPv6.

-**Event**

Event message for non-response to Ping result.

IPv6 Network

Dual Stacked End Node

ICMP (ping) over IPv6

IPv6 MIB Query over IPv4

Dual Stack Router

Dual Stack Management Station

ICMP (ping) over IPv6

IPv6 Only End Node

IPv4 Network

NNM + NNM Extended Topology

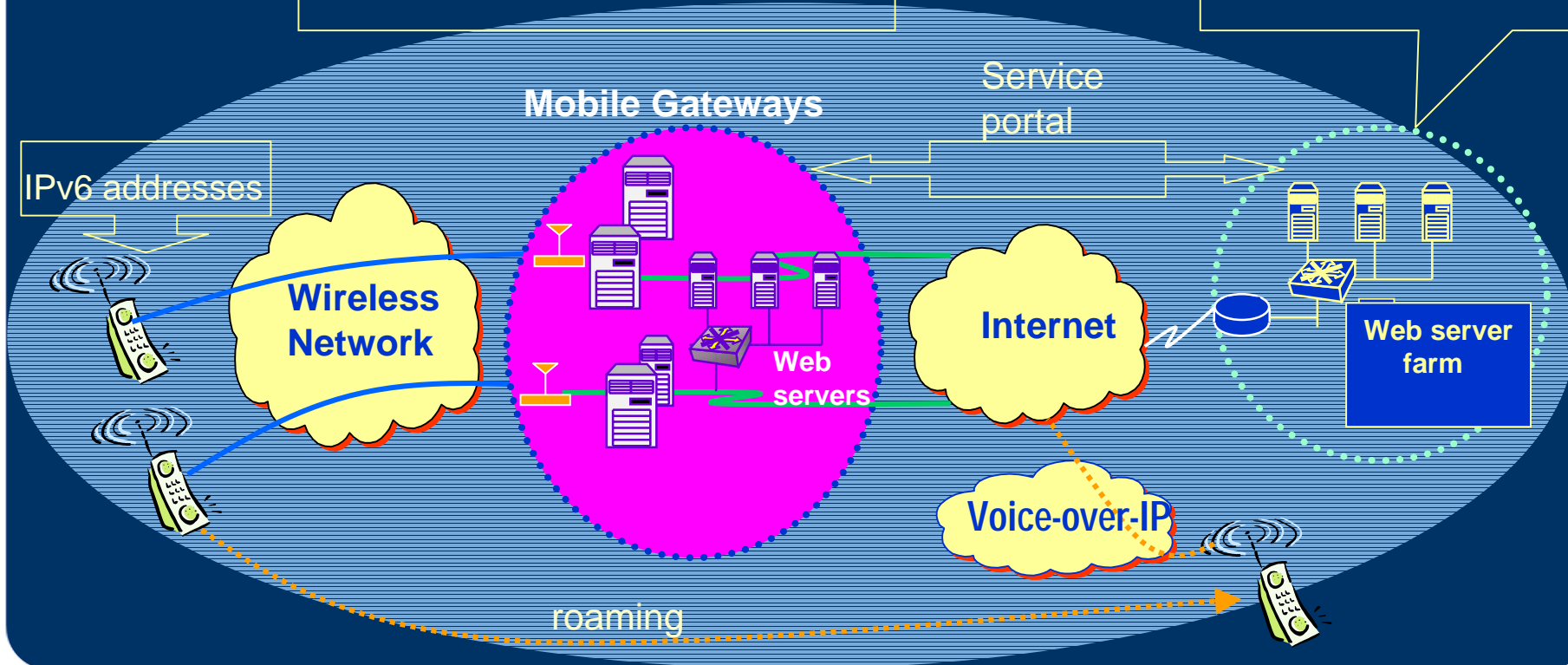# Mobile Network

- hp-ux 11i IPv6 functions
- Wireless TCP
- Mobile IP & mobility management
- IPSec
- AAA
- HA configurations

- Http-opt web servers
- secure server platform
- load balancer
- Autoport Aggregation

- centralized management & provisioning tools : hp OpenView

Mobile Gateways

Service portal

IPv6 addresses

Wireless Network

Web servers

Internet

Web server farm

Voice-over-IP

roaming

Contact us:

- **hp-ux IPv6 Development team email: hpux-ipv6@cup.hp.com**

- **hp-ux IPv6 software can be downloaded from:**

  http://www.software.hp.com (search keyword "ipv6")