



IPv6: Enabling the Future of Global Communications

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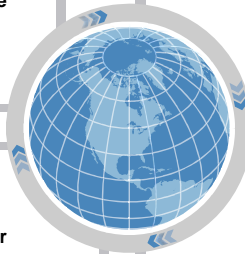
Macro Global Drivers for IPv6

Address space depletion

- Targeted for October 29th, 2010
- Impact being a slow down of the Internet growth and market penetration

National IT Strategy

- U.S. Federal Mandates
- IPv6 Task Force and promotion councils: Africa, India, Japan, Korea,...
- China Next Generation Internet (CNGI) project
- EU sponsored projects



- IPv6 "on" & "preferred" by default
- Applications only running over IPv6 (P2P framework)

- IP NGN
- DOCSIS 3.0, FTTH, HDTV, Quad Play
- Mobile SP – 3G, WiMax, PWLAN
- Networks in Motion
- Networked Sensors

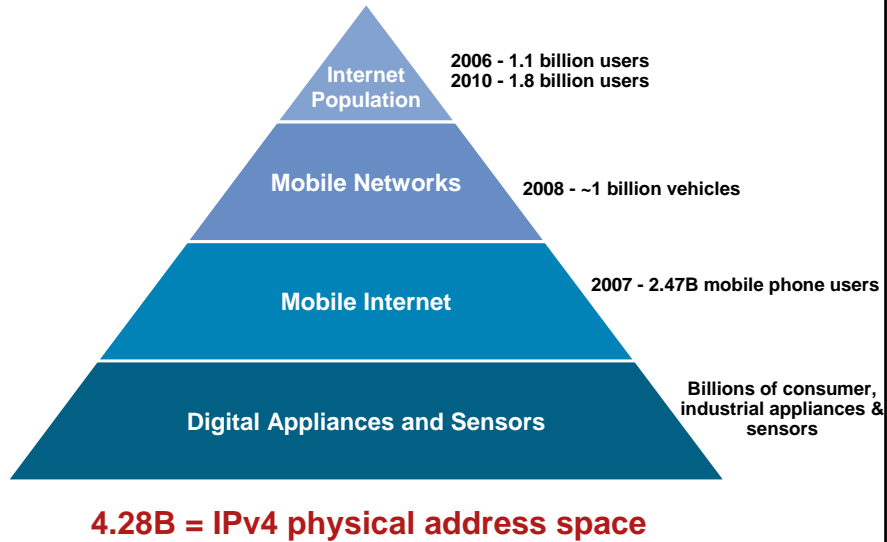
MSFT Vista & Server 2008

Infrastructures Evolution

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Global Demand for Networked People, Resources and Devices Continues to Surge



Global Trends

- The World is “Flattening”
 - Geopolitical setting – global race for IT dominance
 - Rapidly changing military requirements
 - Rapid maturity of sensor technology
 - Mainstream need for ad-hoc communications
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Considerations

- Everything Over IP (EoP)
- Ad-hoc Mobility
- Networks on the Move
- Ubiquitous Connectivity
- Workforce transition

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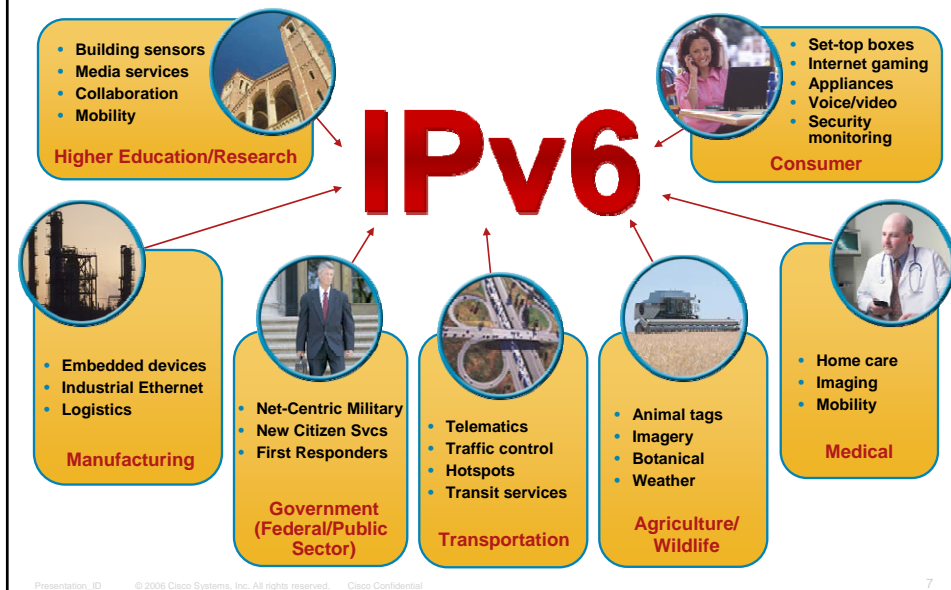
Horizontal Reach

- IPv6 will touch every network connected element, service, application regardless of where it may reside
 - Core, Distribution, Access
 - Data Center, Campus, Branch
 - Service Provider capabilities
 - PC User, Mobile User, Device, Platform, Sensor
- Peer-to-peer users, applications
- Scaling IP multicast (ie personal video services)
- Key to “Services Oriented” world
- Key to enabling and scaling the next generation of government workforce services and capabilities

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Requirements Drive Innovation



Mission Architecture Influencers

Archetype Domains

1. Battlefield Communications
2. Force Protection
3. Logistics/Transportation
4. Border Security
5. Medical and Healthcare
6. Cyber Operations
7. Public Safety



IPv6 – How?



IPv6 Integration Requires the Same Planning and Firing Sequence as every other IT Initiative

IPv6 is on the Horizon



Top 10 Actions you should already be planning or doing

The Way Forward..

- Business requirements will drive industry innovation
- Plan, design, and architect for IP “Manyness”
- Global vision in local strategies

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Questions?

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