SIP-IX

NeuStar

March 22, 2006

NEUSTAR®
Trusted to bring networks together

Safe Harbor Statement

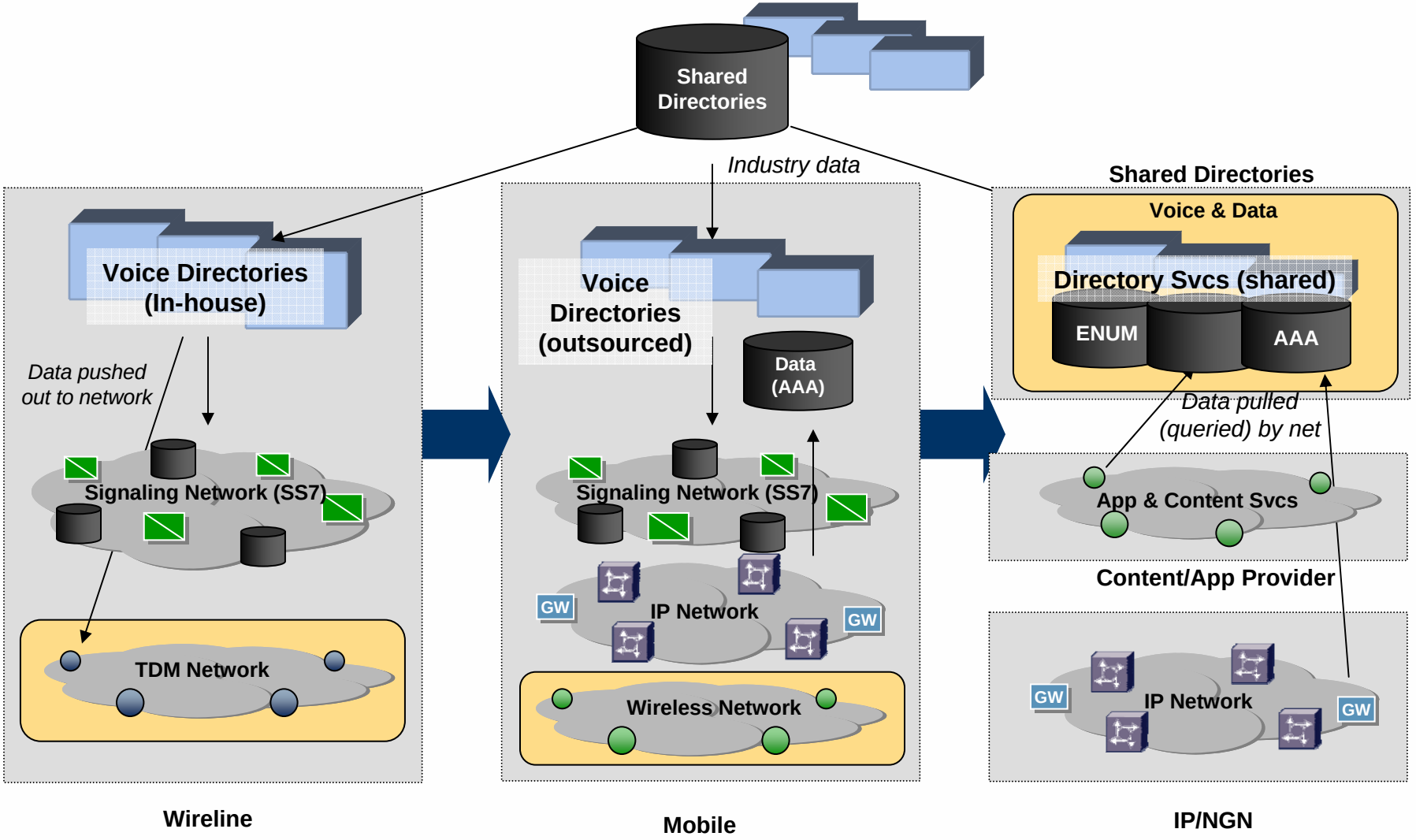
This includes information that constitutes forward-looking statements made pursuant to the safe harbor provision of the Private Securities Litigation Reform Act of 1995, including, without limitation, statements about NeuStar, Inc.'s expectations, beliefs and business results in the future. We cannot assure you that our expectations will be achieved or that any deviations will not be material. Forward-looking statements are subject to many assumptions, risks and uncertainties that may cause future results to differ materially from those anticipated. These potential risks and uncertainties include, among others, the possibility that SIP-IX is not adopted by potential customers, our potential inability to reach acceptable contract terms with customers to provide this services, delays in the development of one or more features of SIP-IX, and business, regulatory and statutory changes in the communications industry. More information about potential factors that could affect NeuStar's business and financial results is included in its filings with the Securities and Exchange Commission, including in NeuStar's Registration Statement on Form S-1 related to its follow-on offering in December 2005.

NeuStar Background

Every day, billions of calls, and hundreds of millions of Internet transactions rely on NeuStar

- **Global operator of neutral, shared, mission-critical directory and services to communications industry**
  - Neutral third party
  - GSMA Root
  - WMRS (Wireless Message Routing Service)
  - NPAC (number portability) & NANPA (numbering) for North America
  - TW-NPAC (partner with Taiwan)
  - TLD operator for .us, .biz, and GW for .cn, .tw, other ccTLD's
- **Financially stable**
  - 2005 US$242M revenues, US$55M earnings
  - +25% CAGR, 500+ people, NYSE: NSR
- **10 years proven track record operating crucial services**
  - Originally started as an independent unit within Lockheed Martin
  - Became NeuStar upon spin-out in 1999
- **Focus on solving strategically critical industry interoperability problems relating to numbering, addressing, and inter-working**
  - Leadership role in SIP and ENUM industry groups
- **Strategic value-creation for service providers**
  - Enable new revenue-generating services (scalable inter-working)
  - New business models to prevent disintermediation or commoditization
  - Strategic cost reduction

Evolution towards Network of Directories

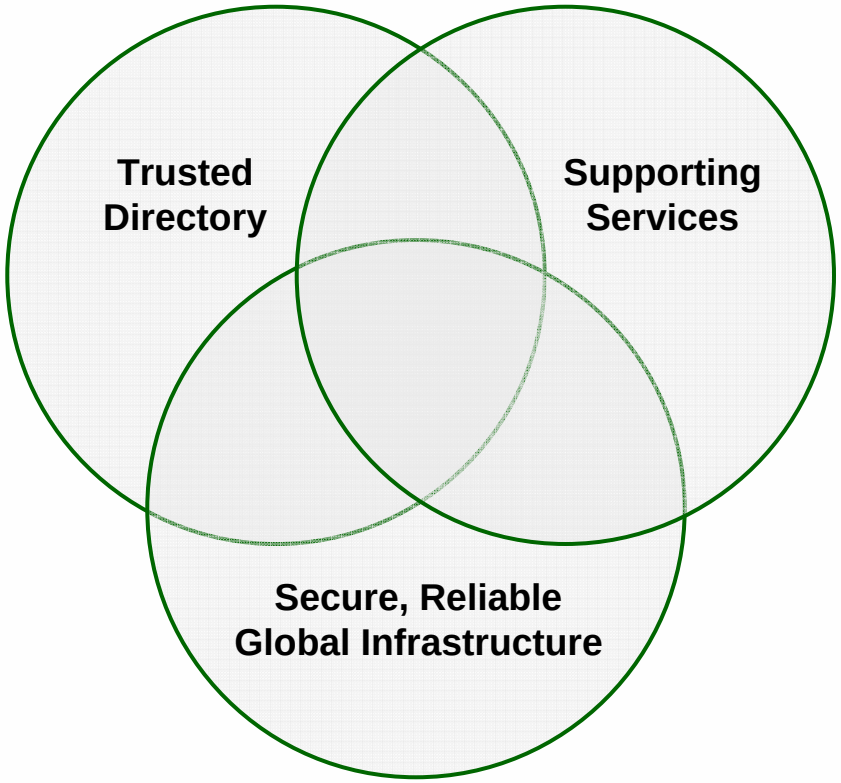


Why are we here?

- SIP is:
  - VoIP, IM, video, mobile, multi-modal, etc.
- There is no common ‘root’ for ENUM/SIP
- The world is creating private ENUM, directories and communities/federations
- ‘Identity’ is/will be an issue
- How to enable this community of private ENUM and directories, without threatening the integrity of the owners and operators of this community

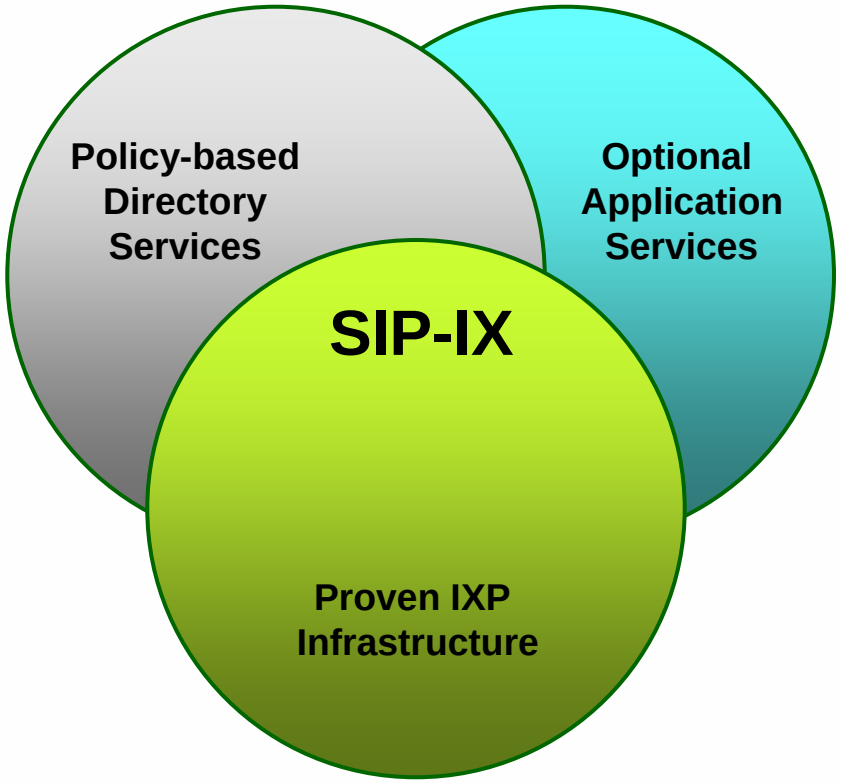
SIP-IX – Global SIP Interworking

- **The Need**
  - Seamless, network-neutral interworking of SIP and IMS applications across domains
  - A trusted, shared directory enabling reliable, low latency call and session setup
  - Service enablement to dynamic community of users, devices and locations
  - Global, redundant, secure, high performance infrastructure
  - Efficient, scalable business and technology models

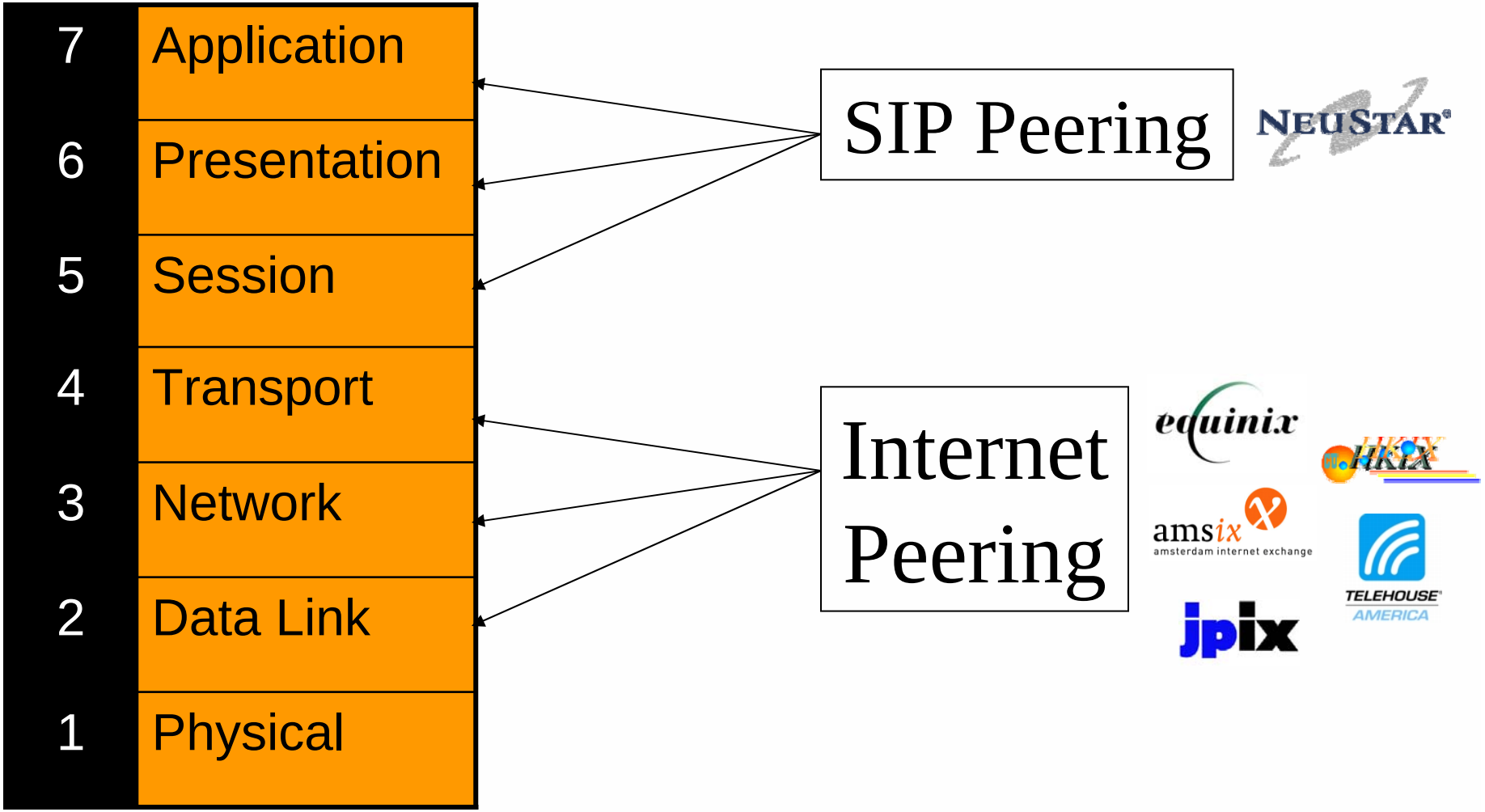


SIP-IX – Global SIP Interworking

- **The Service**
  - Direct network-to-network peering, addressing and routing of SIP and IMS traffic
  - Shared Directory Services based on global availability of a single root directory (private ENUM)
  - Policy-based management tools modeled after data peering policy tools
  - Deployed at global Internet Exchange Points
  - Platform for industry alliances and service enhancements



OSI 7-Layer model: Internet & SIP Peering



SIP-IX – Conceptual Overview

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Shared Directory Services	Application Services	Business Services
Addressing Provisioning of Shared Data Route Discovery/SIP + PSTN	SIP Security/Identity Services NAT Traversal Services Mobility Services	Administration Clearing and Settlement Reporting and Billing Support

Neutral Connection Services

IP Peering - Layers 1-3
Gigabit and 10 Gigabit port speeds
Controlled Interconnect or Best Effort

amsix amsterdam internet exchange
equinix
HKIX
jpix
TELEHOUSE AMERICA

Exchange Points

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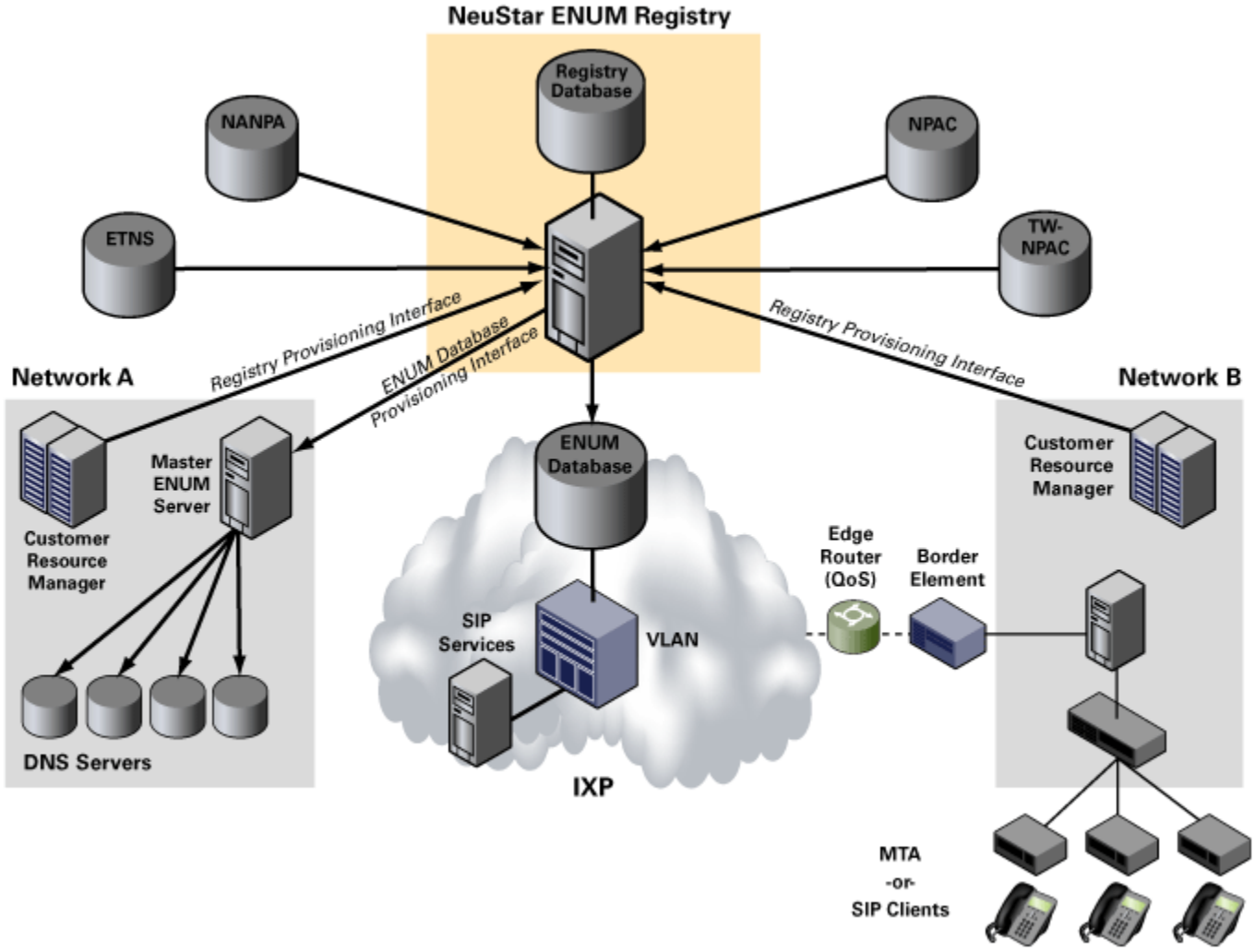
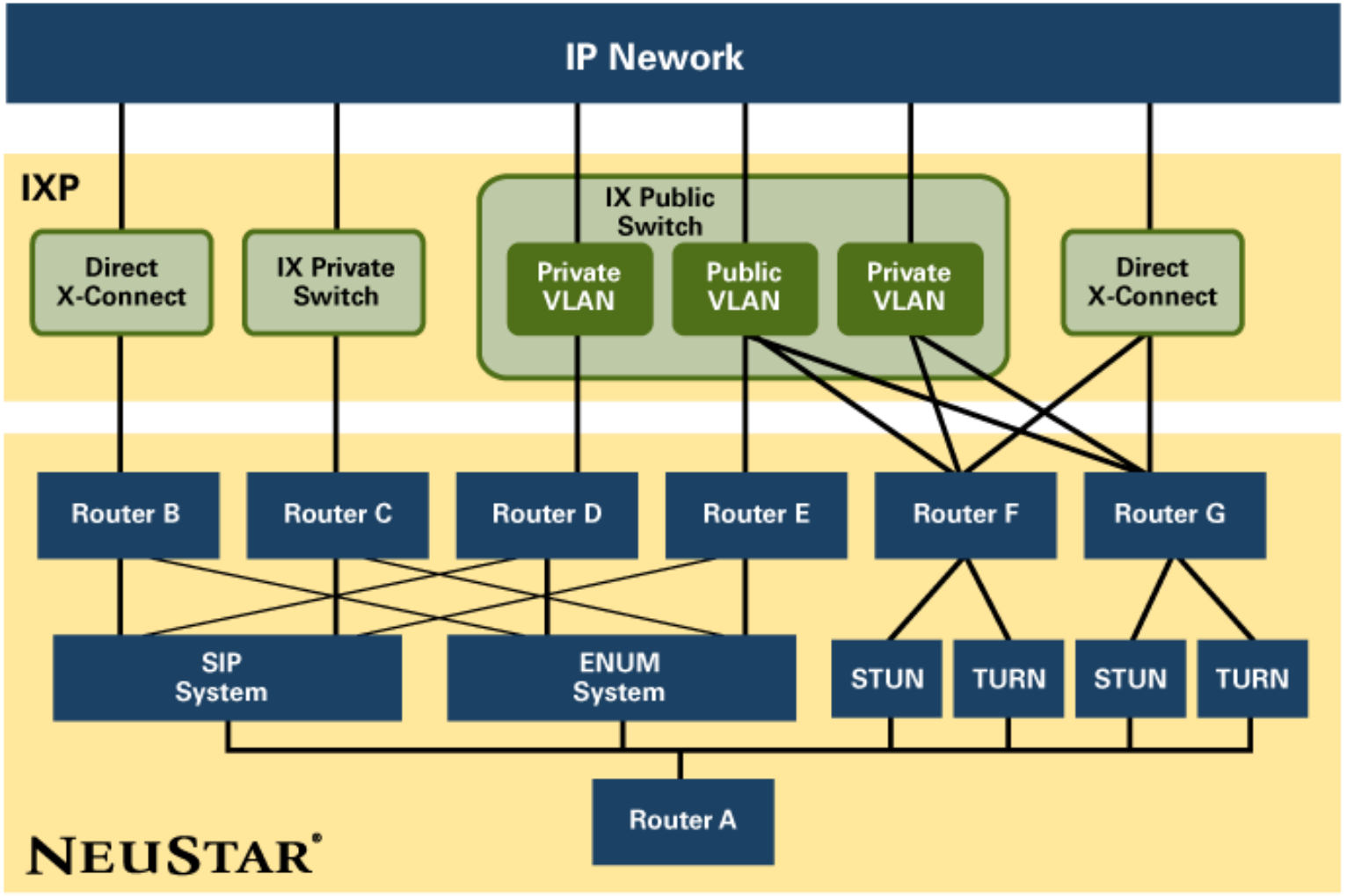
- Where IP networks interconnect today
  - Public & Private peering
  - Transit Sale & Purchase
- Logical location for network neutral, performance optimization and reliability
- Integration of technologies & capabilities
- Leverage existing infrastructure and model of global IP network model

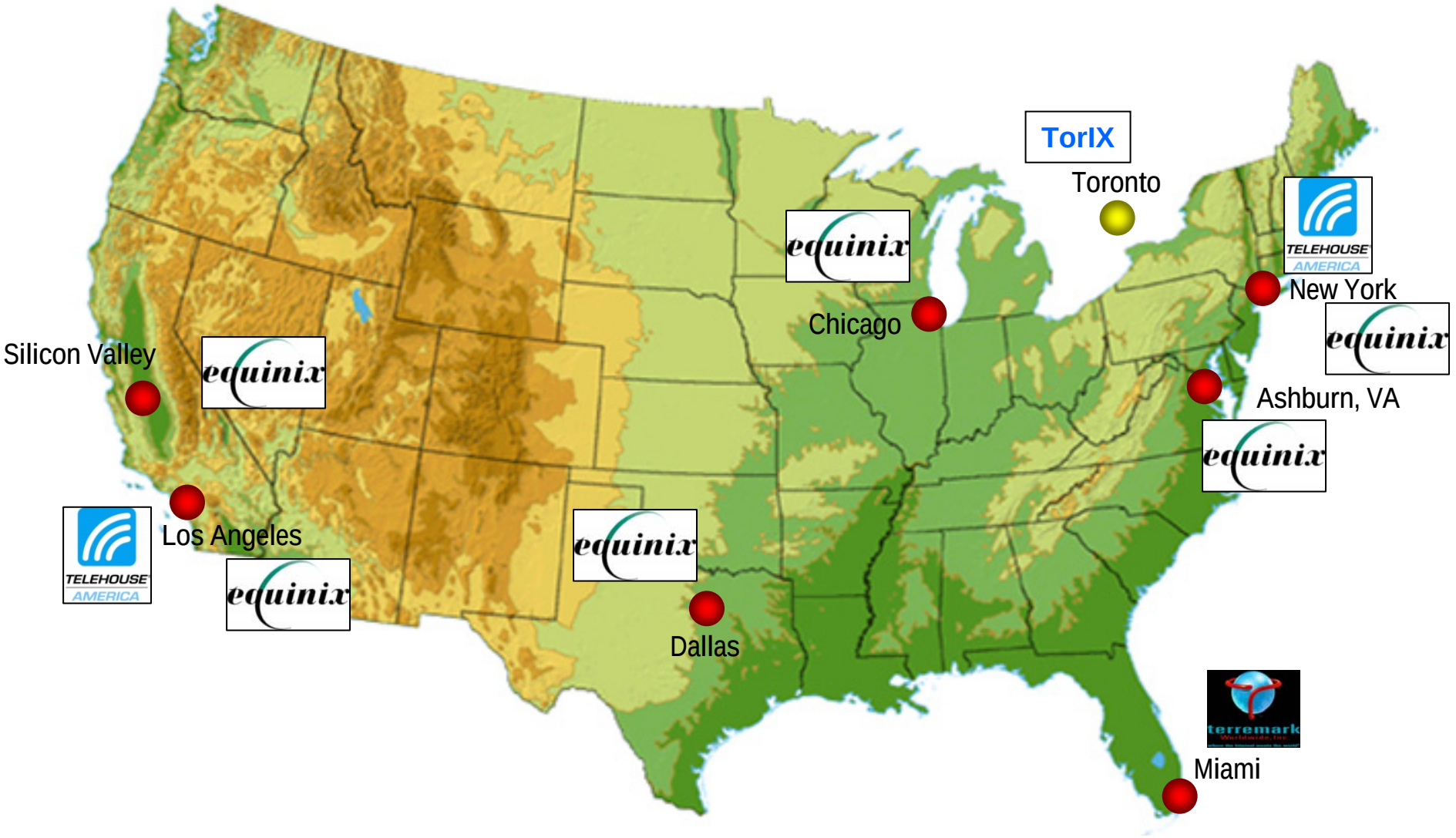
SIP-IX – Infrastructure Overview



IXP/NeuStar Architecture

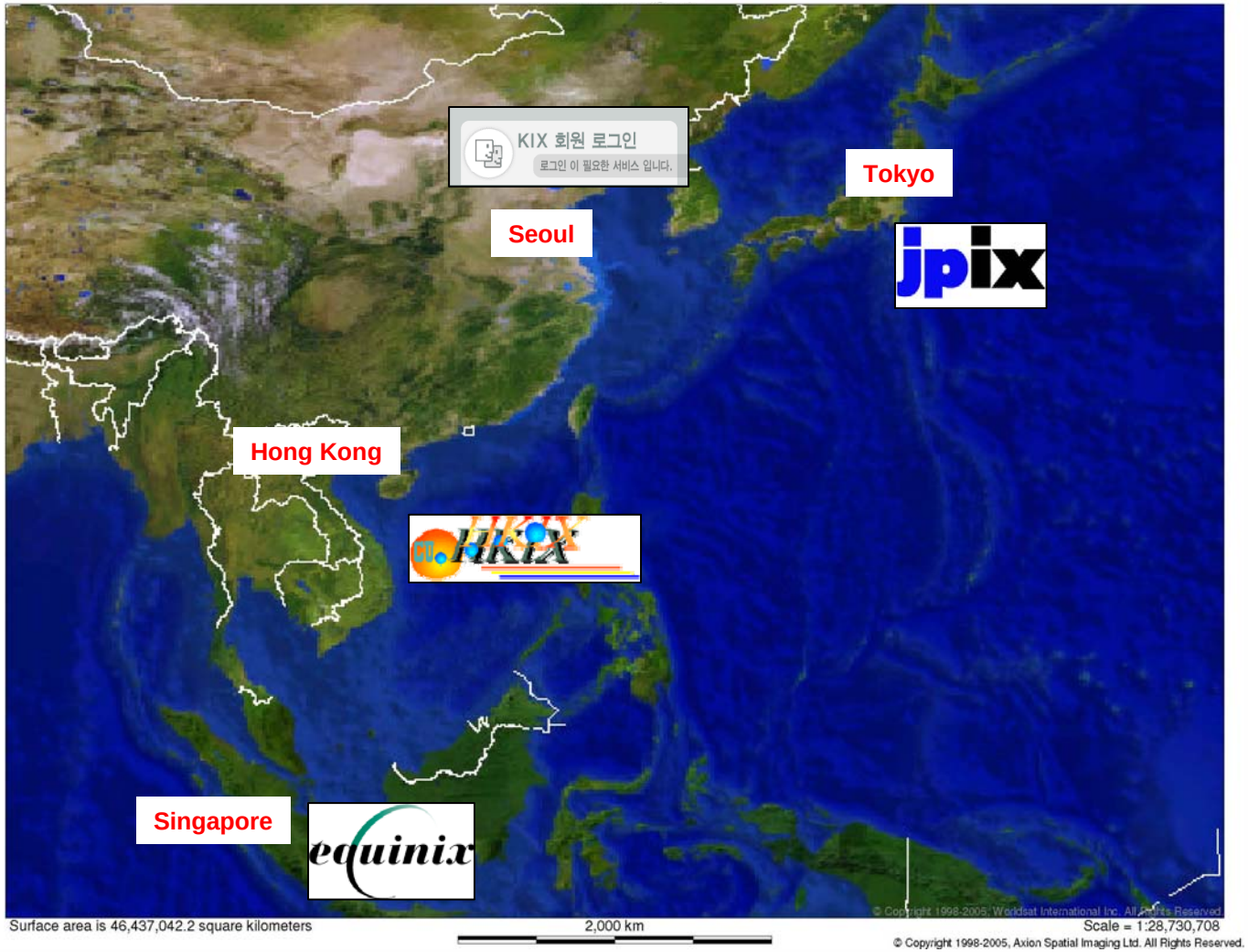


Key North American IP Exchange points



Key European IP Exchange points

Key Asian IP Exchange points



Status

- Trials underway
  - Equinix ASHBURN
  - Telehouse NYC
- Installations in process
  - AMS-IX
  - others
- Discussions underway with other IX's
- Provisioning interface tested successfully with:
  - Ceon
  - Incongnito
  - NetNumber
  - Nominum
  - Others in process
- SBC Partnerships
  - ACME Packets
  - Others in process

Summary

- Eliminate PSTN as Least Common Denominator
- Builds on established community and global models
  - Leverages & maintains global ecosystem
  - Alternative: Fragmentation of global IP community has economic impact to all
- Accurate addressability & provisioning is critical
- Global root provides integrity
- Functional advantages & benefits to industry as a group:
  - Data
  - Voice
  - Video
  - Wireless

Questions & Answers?

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