Research and Education Network in Taiwan

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Agenda

- Executive Summary
- R&E Internet Analysis
- R&E Networks in Taiwan
- Summary
R&E Internet Analysis
Landscape

Applications

R&E
Network
Services

Infrastructure

Technology
Research and Education Networks In Taiwan

TANet, TANet2, NBEN
TANet

- Taiwan Academic Network
- First Internet in Taiwan
- Members include universities, schools
- Over half million users
TANet2

- Next Generational TANet
- Members include national labs, universities and research organizations
- Participants over 30 institutes
- Peering with other international R&E networks through STARTAP
National Broadband Experimental Network
ATM-based Infrastructure
GigaPoP regional connections
Exploring new generation technologies and applications
Academia Sinica International Connectivities

- International T45 Digital Network / TANet2
  - San Francisco - 24Mbps
  - STARTAP/Chicago - 15Mbps
    - Peering: vBNS, CANARIE, APAN
- DANTE/TEN155 Connection - 1.5Mbps
- HEPnet-J (Japan) - 128kbps
- HARNet (Hong Kong) - 512kbps
- Other Connections in Asia
Regional Connectivities - Taipei

GigaPoP

- Point of Aggregation with Distributed Routing
- Point of Local Traffic Exchange
- Variety of Speed
- Point of Policy Implementation
- Point of Backbone Uplink
- Taipei GigaPoP - Fibre City
AS: Academia Sinica
MOE: Ministry of Education
NTU: National Taiwan University
QoS Strategy

- Route Guarantees
  - Dedicated R&E network
  - Global Connectivities
- Broadband Technology
  - High Speed is contradictory to QoS
- Deploy Differentiated Service rather than QoS
DCIC Programme

- Developing Country Internet Connection Programme
- Collaborative Organisations: Academia Sinica, PNC, NSC, TWNIC, MOE
- Provides $500,000 per Year
Summary

- Wire the World
- Advanced Technology
- International Collaboration with Organisation (PNC) and Real Applications
- Vision