

VNIX INTRODUCTION

VIETNAM NATIONAL INTERNET EXCHANGE

Presented at APRICOT2005 - 24 Feb, 2005 in Kyoto, Japan by Tran Kien



WHY VNIX?

• Before VNIX:

- No Domestic Internet eXchange point.
- International Internet channels for both Domestic and Itl traffic.
- High latency.
- Low quality local content.
- Costs.



VNIX INTRODUCTION

- VNIX has started in testbed on November 8, 2003.
- Funded and managed by Vietnam Internet network Information center (VNNIC).
- Now, 2 seperate VNIX points established:
 - The main one in Hanoi capital (The North of Vietnam).
 - The second in Ho Chi Minh city (The South of Vietnam).
- 4 Vietnamese major IXP/ISP members.



VNIX INFRASTRUCTURE

- Switch Cisco 6509, 2 Units.
- Route server Cisco 2621, 2 Units.
- MRTG Server IBM server, 1 Unit.
- Netflow server Sun sever, 1 Unit.
- Smart UPS 10KVA and Generator power backup.
- Transmission: 3 providers.



AVAILABLE RESOURCES

- Switching layer 2 FastEthernet and GigaEthernet ports.
- Rack mount; Air-conditioner; Room space; Power and Monitoring 24h/365days.
- ASN and IP address:
 - VNIX Hanoi: AS23899; 218.100.10.0/24
 - VNIX Ho Chi Minh: AS23962; 218.100.14.0/24



VNIX POLICY

- Neutral Internet eXchange point.
- Currently free of charge.
- Forced Multilateral Peering Agreement (MLPA).
- Single eBGP session with VNIX route server.
- Members need to have their own ASN.
- Terminal equipments and transmission have to be built by members.
- Allowing members to have backdoor connections for backup.

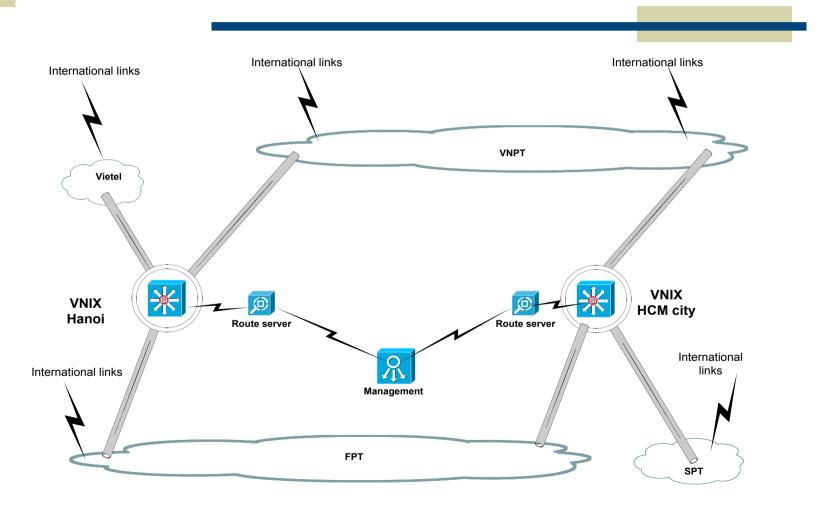


VNIX MEMBERS

- VNIX Hanoi
 - Vietnam Posts and Telecommunications (VNPT): FastEthernet.
 - FPT Communications: FastEthernet.
 - Viettel Corporation: FastEthernet.
- VNIX Ho Chi Minh
 - Vietnam Posts and Telecommunications (VNPT): GigaEthernet.
 - FPT Communications: GigaEthernet.
 - Saigon Postel Corporation (SPT): FastEthernet.

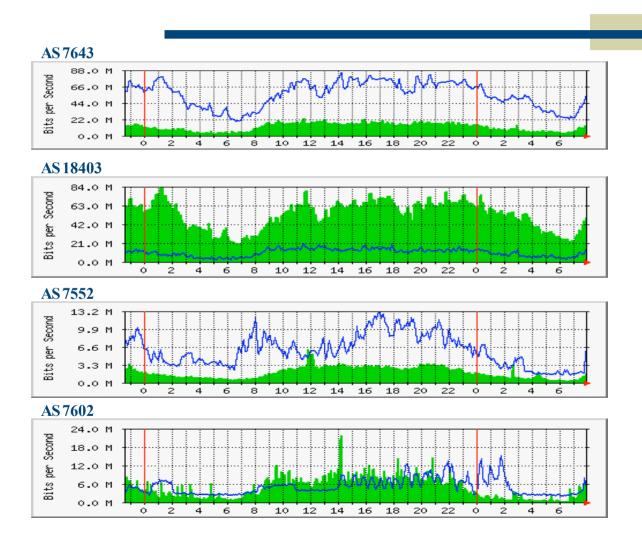


VNIX CONNECTIVITY MAP





VNIX TRAFFIC





FUTURE PLAN

- Officially launching VNIX service. Terminating testbed period.
- Supporting and starting up IPv6 testbed Net.
- Supporting Multicast (MBGP).
- Mirroring DNS Root server.
- Setting the third VNIX point in Da Nang city (The Middle of Vietnam).
- Routing Registry.

MINISTRY OF POSTS AND TELEMATICS (MPT) OF VIETNAM VIETNAM INTERNET NETWORK INFORMATION CENTER (VNNIC)



VNIX

http://www.vnnic.net.vn/vnix (Under Construction).

THANK YOU!