

VinaREN Workshop Report 2014

Trinh Chi Cong - VinaREN

Introduction

- VinaRen - Vietnam Research and Education Network.
- VinaREN was started from TEIN2 projects in Vietnam since 2006 and Launched officially in 2008.
- Private communication network .

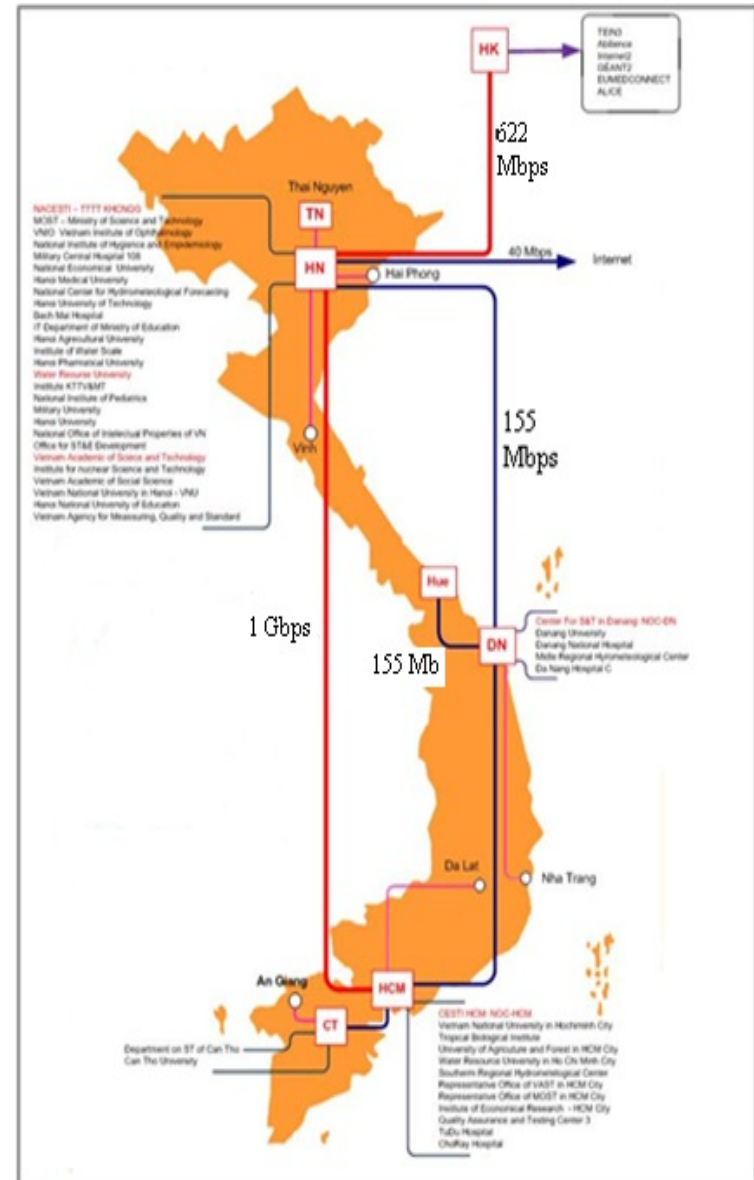
Infrastructure

Communications between 6 NOCs located in cities (Ha Noi, Da Nang, Ho Chi minh, Hue, Can Tho, Thai Nguyen).

VinaRen have 62 members (Universities, Institutes and hospitals ...) in 11 provinces and Cities of Vietnam.

Members linked to VinaREN via local NOCs by utilizing optical cable based on Giga Ethernet standard

(2014: some Nocs domestic have been changed the location to ensure about infrastructure : NOC-HCM, NOC-DN)



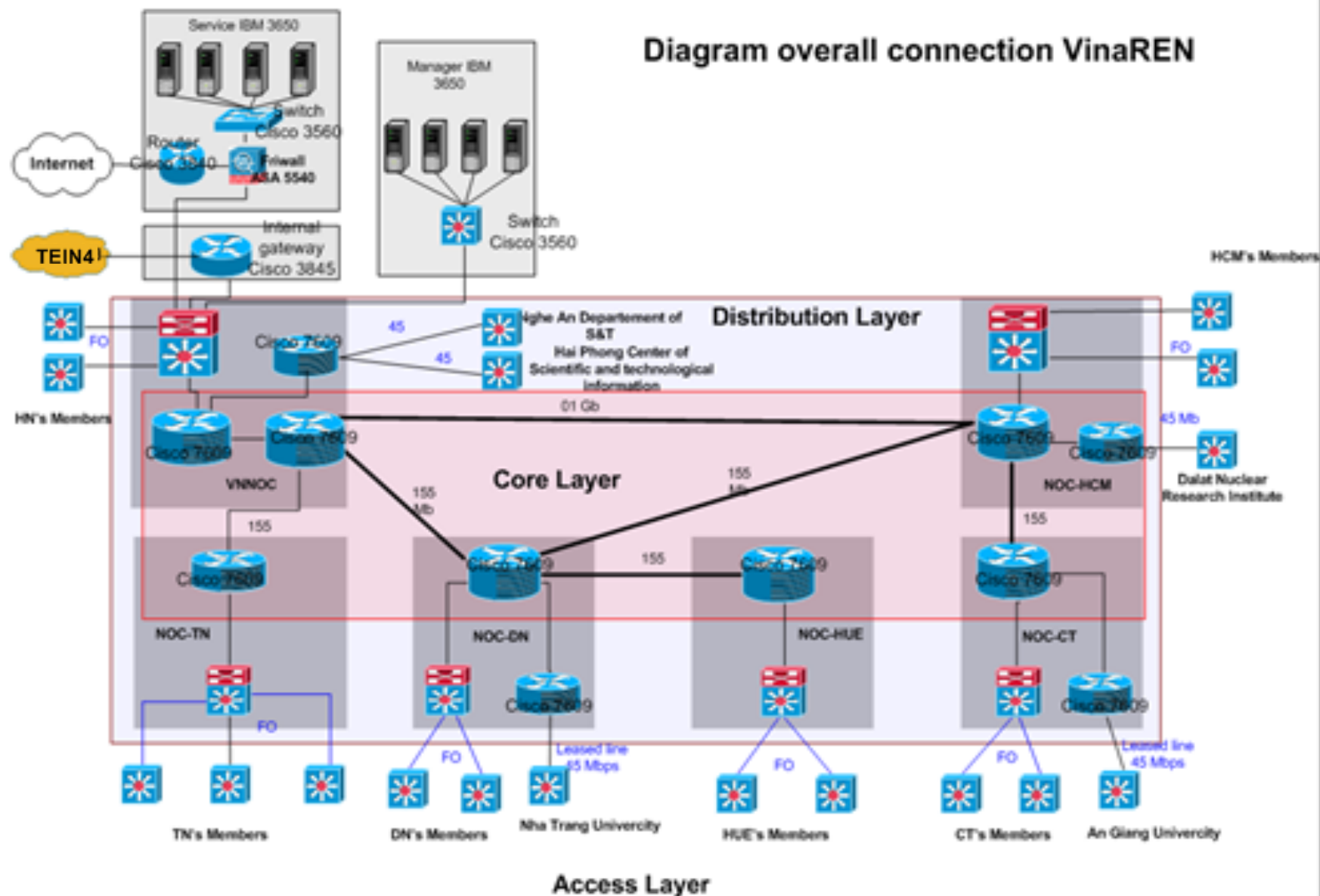
- **National connection**

- + VNNOC to NOC-HCM(Ho Chi Minh): 1 Gbps.
- + VNNOC to NOC-DN(Da Nang): 155Mbps.
- + NOC-HCM to NOC-ĐN: 155Mbps.
- + NOC-DN to NOC-HUE: 155Mbps.
- + NOC-HCM to NOC-CT (Can Tho): 155Mbps.
- + VNNOC to NOC-TN (Thai Nguyen): 155Mbps.
- + NOCs to VinaREN members: 100 Mbps

- **International connection**

- + 622 Mbps connects to TEIN in Hong Kong.
- + 45 Mbps connects to Internet.

Diagram overall connection VinaREN



- **Network Monitor software**

- Cacti monitor:

cacti.vinaren.vn

- PerfSonar:

perfsonar.vinaren.vn

- PRTG monitor:

prtg.vinaren.vn

Services

- Ipv6 is established in VinaREN
- Video conferencing
- Telemedicine (local and international)
- Virtual Hosting
- Network service
- Web/Mail service

Services

- DTVS (Digital Video Transport System)
 - A less expensive method to transmit video and audio pack
 - Using less expensive terminals.
 - Utilizing frequently in conference related to medicine field
- Grid computing
 - Monitoring and Discovery Service – MDS
 - Grid Resource Information Service – GRIS
 - Data Management
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- Weather broadcasting and Hydrometeorology.
 - Using connection of VinaREN to collect data from
ftpprd.ncep.noaa.gov, tgftp.nws.noaa.gov,
dd.weatheroffice.ec.gc.ca ...
 - E-library
- E-learning : Members links together, serving research and exchanging information purposes.
- And other service in realtion to application deployment.

- Cyber Performance on VinaREN – TEIN 4

May 18 2014



- Lower Mekong Initiative Workshop
August 18 – 22, 2014



Photo By: Phil Regnauld



Thank You

Contact: congtpc@vista.gov.vn