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Malaysia Towards IPv6

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Malaysia IPv6 Activities -summary

- IPv6-MY Work Group
  - Active working group in Malaysia
- IPv6 Address Allocation
  - pTLA and sTLA address allocation
- 6bone-my
  - MY first IPv6 Research Network
- IPv6 Research Activities
  - Current IPv6 related activity status

IPv6-MY Work Group

- Established since 1999
- Common interest group
- Members are from various institutions - research, academic, service provider and regulator
- Promote IPv6 among member organizations and also to the public
- Consolidated the members research activities
- Catching up with current world IPv6 development

IPv6-MY WG - Objectives

- To provide National IPv6 test-bed for research and test activities among member organizations.
- To investigate the impact of the protocol transition particularly for Malaysian environment
- To experiment and develop applications using new IPv6 specifications
- To actively participate in the continues protocol evolution process
- To promote IPv6 related research, development and deployment activities

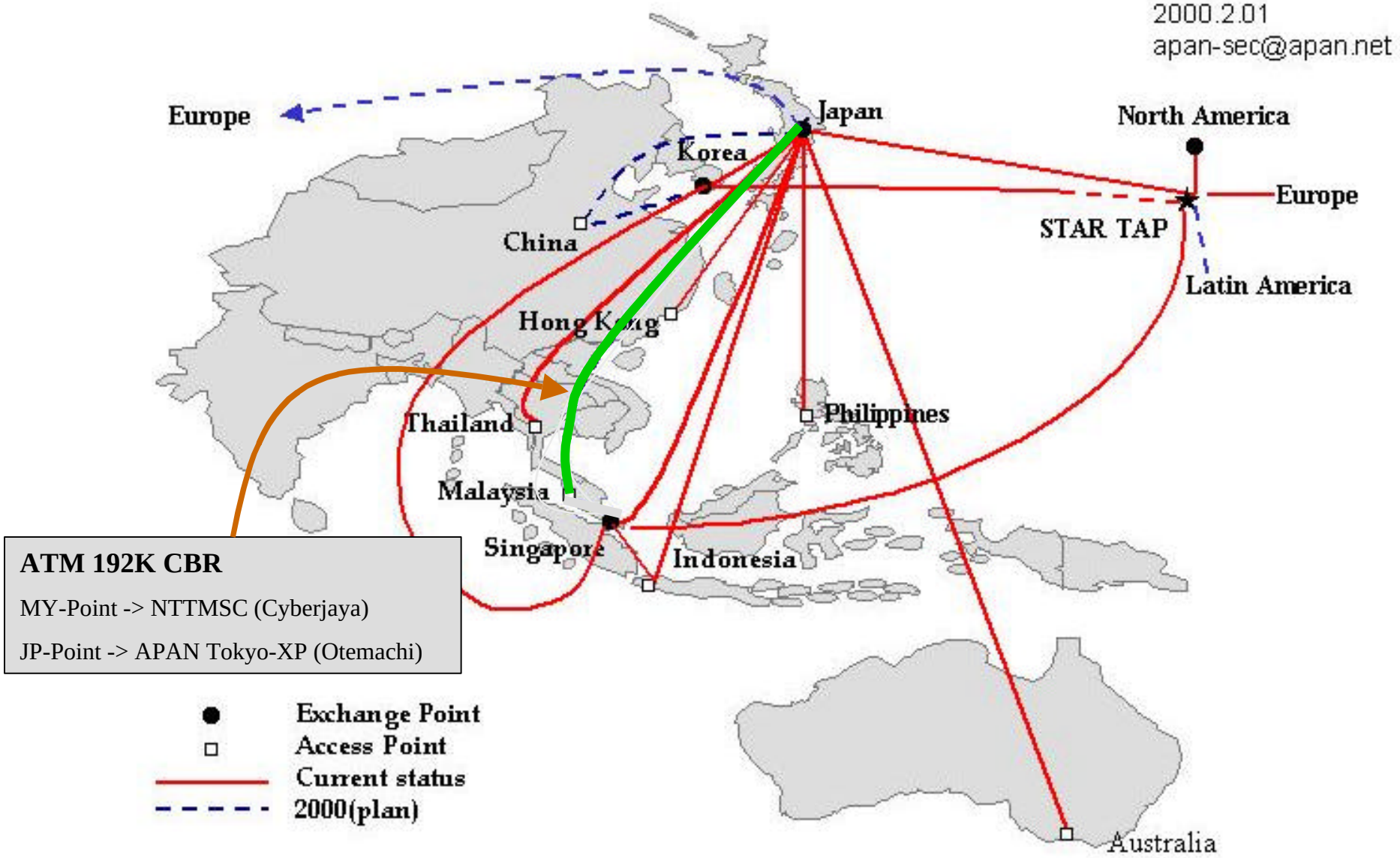
IPv6 Address Block Allocation

- sTLA WIDE to MY-IPv6 WG
  - 2001:200:700::/48 [Dec. 1999]
- Current allocation
    - NTTMSCv6.net 2001:0200:0701::/48
    - Reserved 2001:0200:0702::/48
    - USMv6.net 2001:0200:0703::/48
    - MMUv6.net 2001:0200:0704::/48
- 6bone pTLA MIMOS-MY
  - 3FFE:80D0::/28 [16 Oct 2000]

6bone-MY

- 6bone-MY since middle of 2000
  - currently 3 institutions are actively participating
  - runs on tunneling and dial-up
- two connectivity
  - APAN- IPv6 Network
  - AI3-IPv6 Satellite Network
- website
  - http://network2.cs.usm.my/apan/ipv6/
- ml
  - ipv6@network2.cs.usm.my

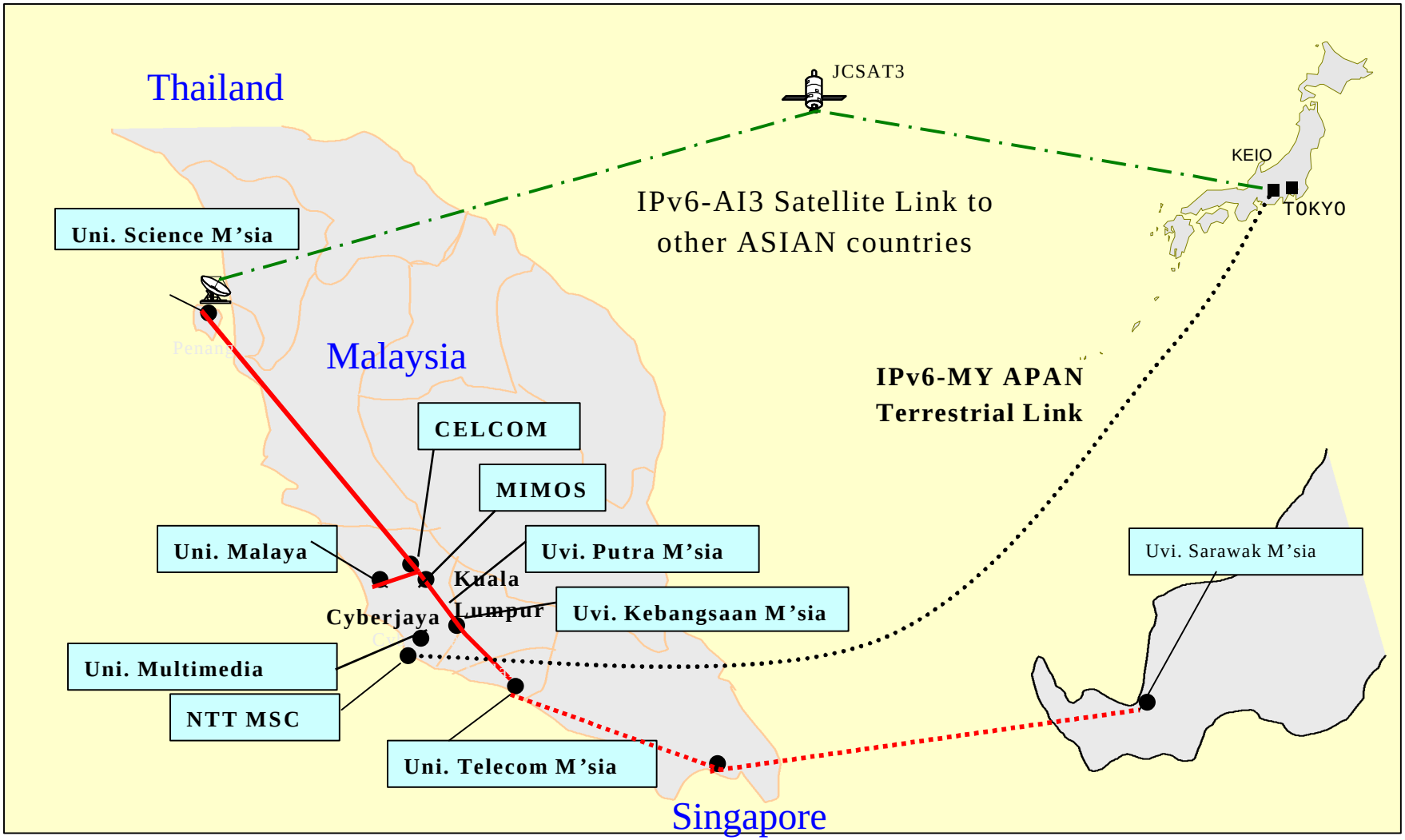
APAN Network Topology



Proposal for IPv6 on National Research Network : TEMAN

- New proposal to have IPv6 on national research network (TEMAN) (http://www.jaring.my/teman/)
  - national R&D network, ATM/155Mbps
  - IPv6 network connectivity [status: waiting for funding approval]

Academic and R&D Network in Malaysia (TEMAN)



IPv6-MY WG- Achievements

- Successfully established IPv6 MY-NOC (NTT-MSC)
- Providing an IPv6 testbed connectivity to 6bone via APAN for MY research and test activities (NTT-MSC)
- Allocation IPv6 pTLA addresses among member organizations (WG)
- Awareness/activities among research organizations/institutions by series of seminars and workshops
- IPv6 over Satellite (AI3 Project) connection has been established

IPv6-MY WG- Current Activities

- Development of IPv6 Video Conferencing System (USM)
- Testing IPv6 over Satellite Connectivity (USM/AI3)
- Network monitoring and management tool for IPv6 (USM)
- Performance Analysis for IPv6 and IPv4 (MMU)
- National IPv6 Workshop (17 Oct. 2000)
  - 6 Asian countries participated and also many local members

IPv6-MY Workshop -Update

- Promote IPv6 research activities among other institutions via seminars and workshops
- ISP to provide test IPv6 service soon
- Development of national address registry system
- Continuous update with current IPv6 development
- To work towards establishing national IPv6 R&D network

Conclusion

- Malaysia has begun to look into Next Generation Internet
  - need to catch-up with current fast development
  - currently emphasize more on infrastructure and manpower development
  - active participation from commercial network / service providers is important
  - needs “killer application” to promote IPv6
  - smooth transition from IPv4 to IPv6 is essential

Thank you.