AI^3 C-band Network

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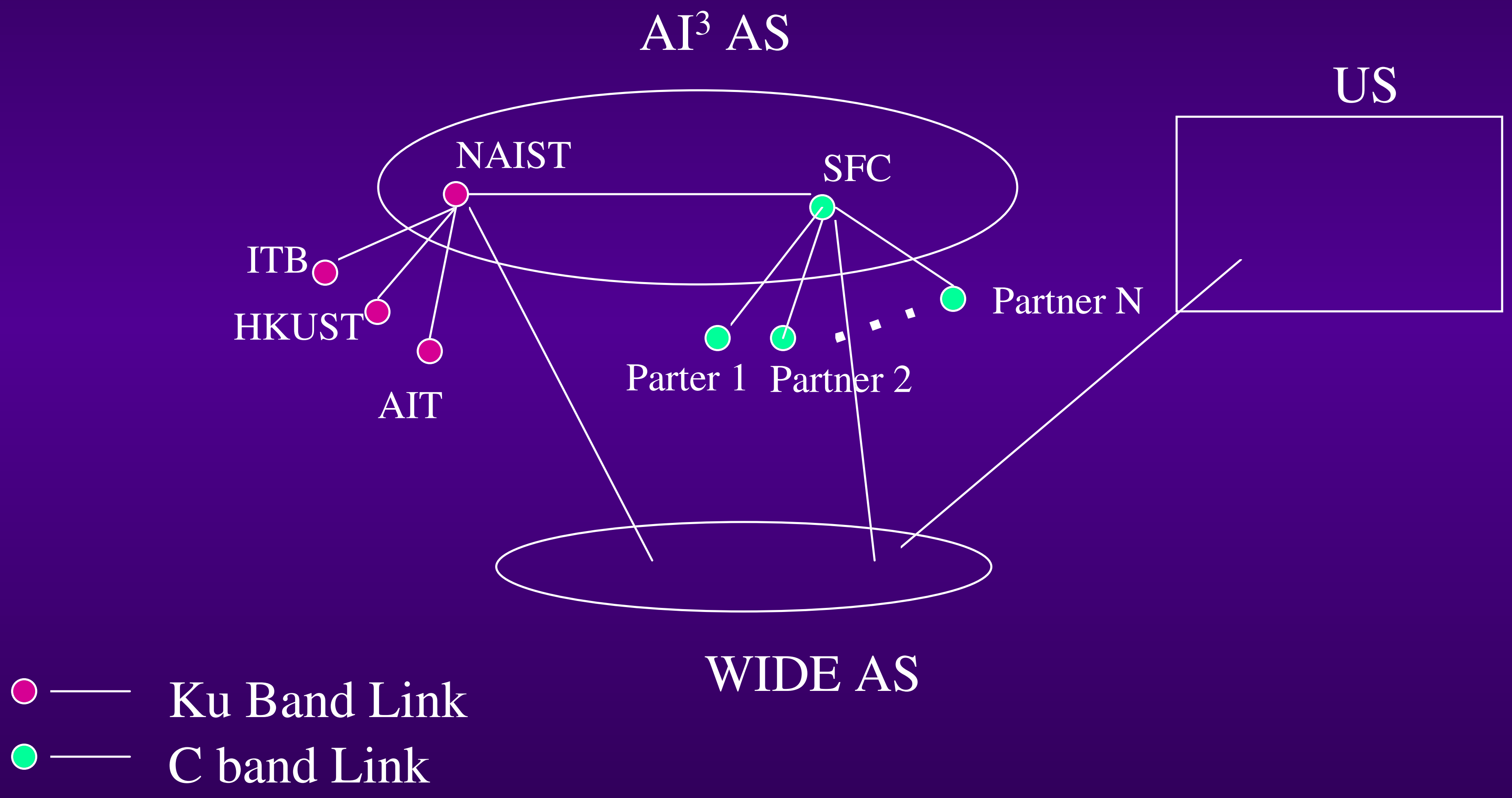
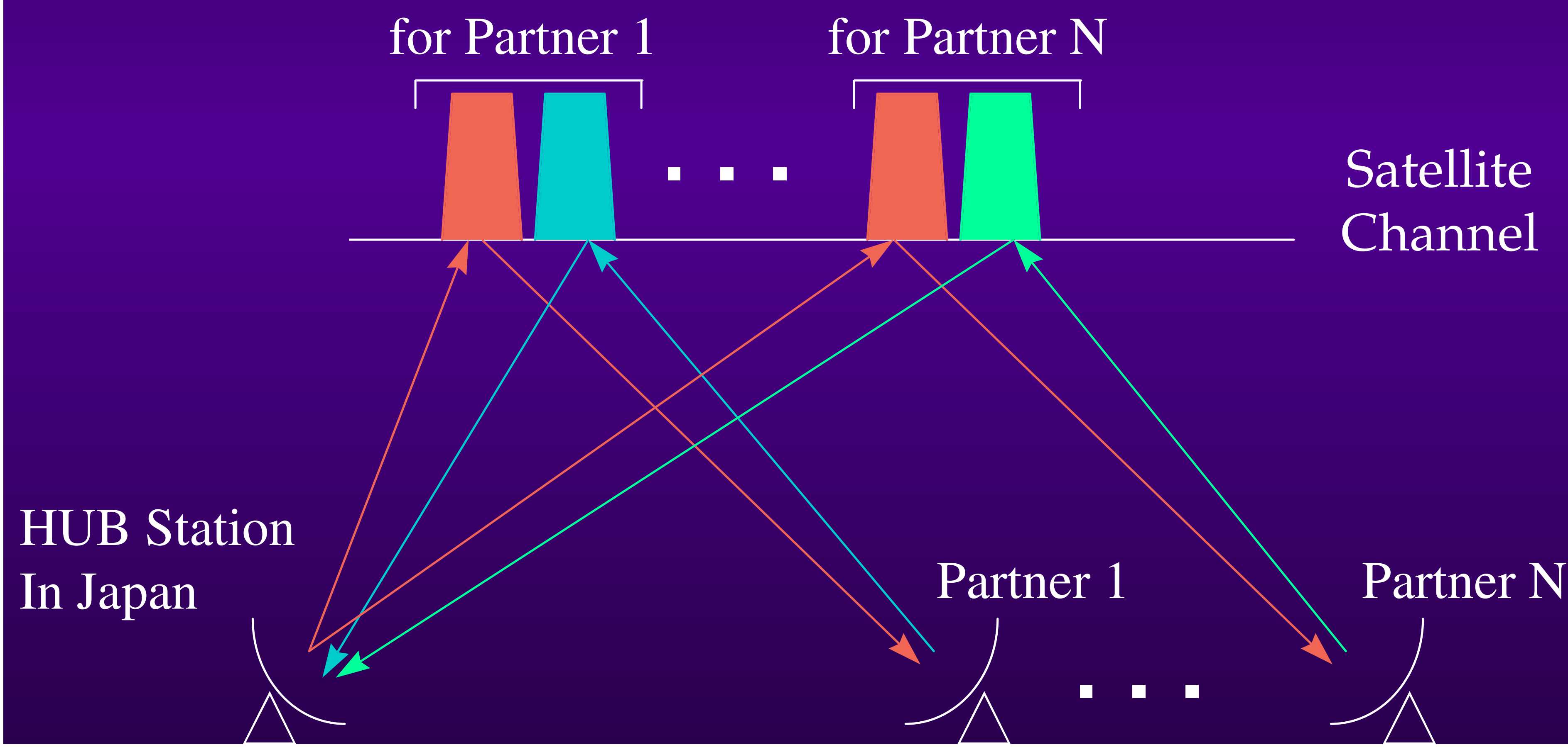
Overview of AI^3 Network

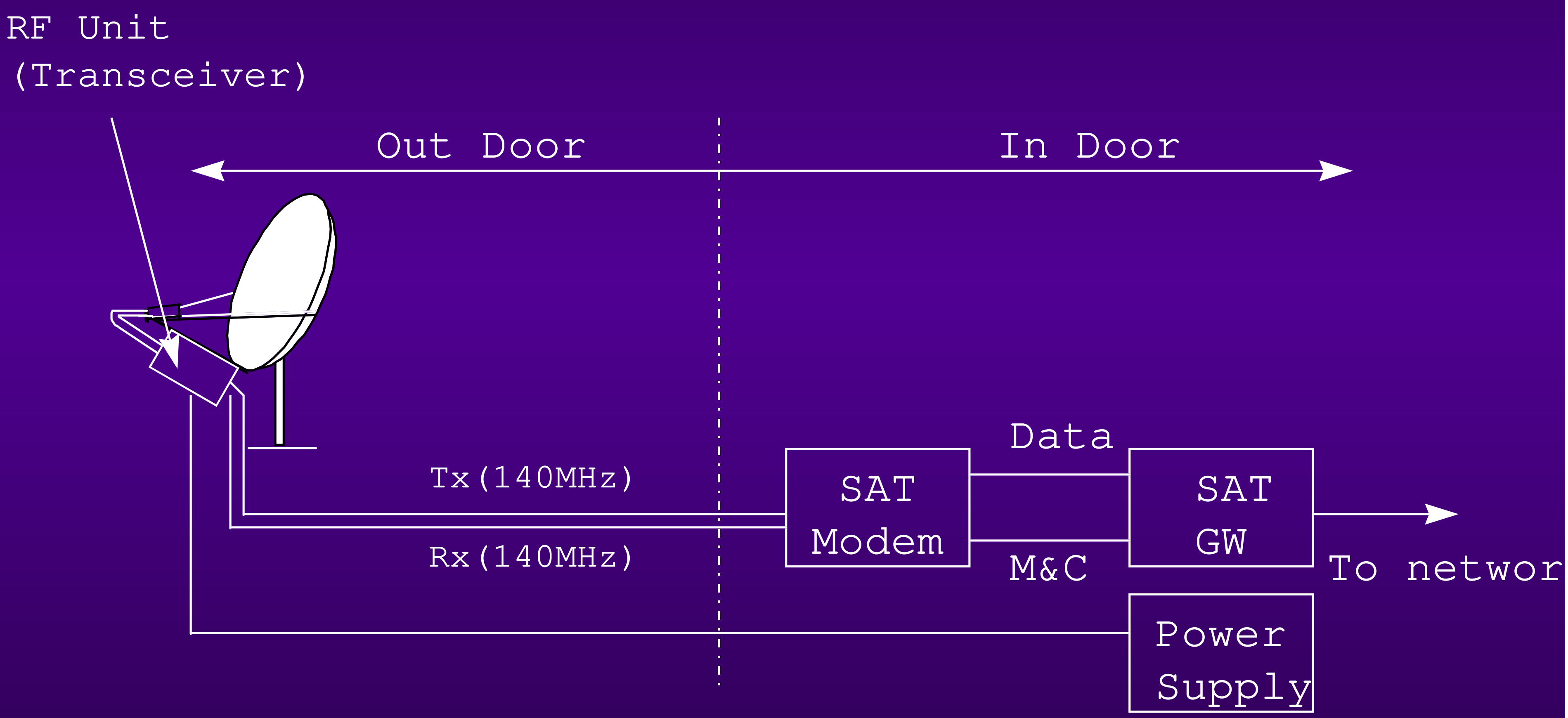


Configuration of C-band Satellite Channel

- SCPC base Point-to-point network (same a s Ku-band)



Recommened Configuration of C band Earth Station



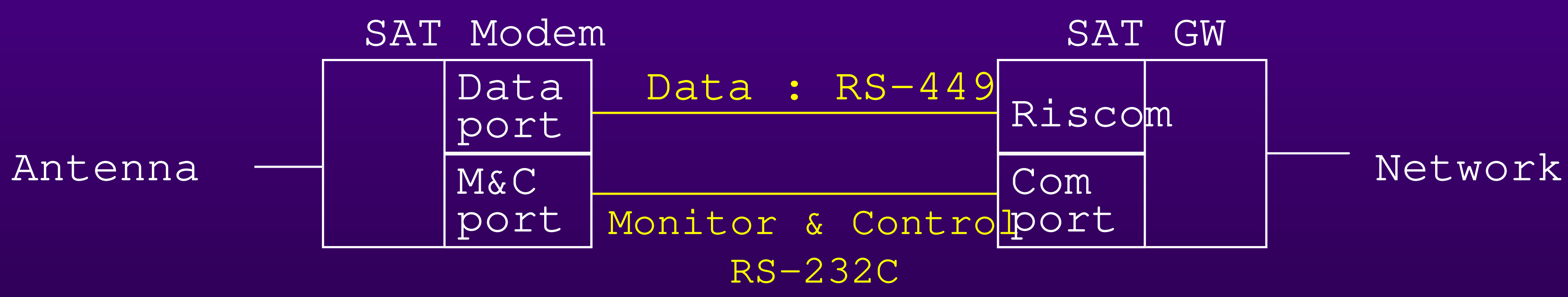
M&C:Monitor & Control

Required Diameter of Antenna

- 3.6m area(guide line)
  - Singapore
  - Penang, Malaysia
  - Hanoi,Vietnam
  - Beijing,China
  - Manira,Philippines
- For detail , the latitude and longitude of earth station place are required

Interfaces of the satellite modem

- The Data Interface Between satellite modem and gate way computer is high speed seiral interface such as RS-449/RS422.
- For monitor and control of the satellite modem, we can use another low speed serial interface such as RS-232.



Recommended Equipment List(see printed list)

- Antenna
- RF unit(tranceiver)
- Satellite Modem

Satellite Gate Way PC router

- PC : BSD/OS 2.1 serported PC
- Highspeed Serial Interface : Riscom N2
- Software
  - OS :BSD/OS 2.1
  - Unicast Routing : gated
  - Multicast Routing : mtouted
  - Datalink Driver
    - jc driver developed by WIDE/WISH WG

Future

- IP Multicast using satellite
- Uni Directional Link Routing(UDLR)
- TDMA system(DVB complient system)