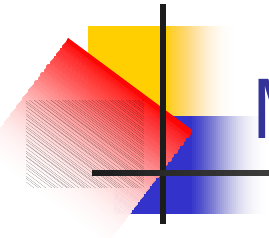


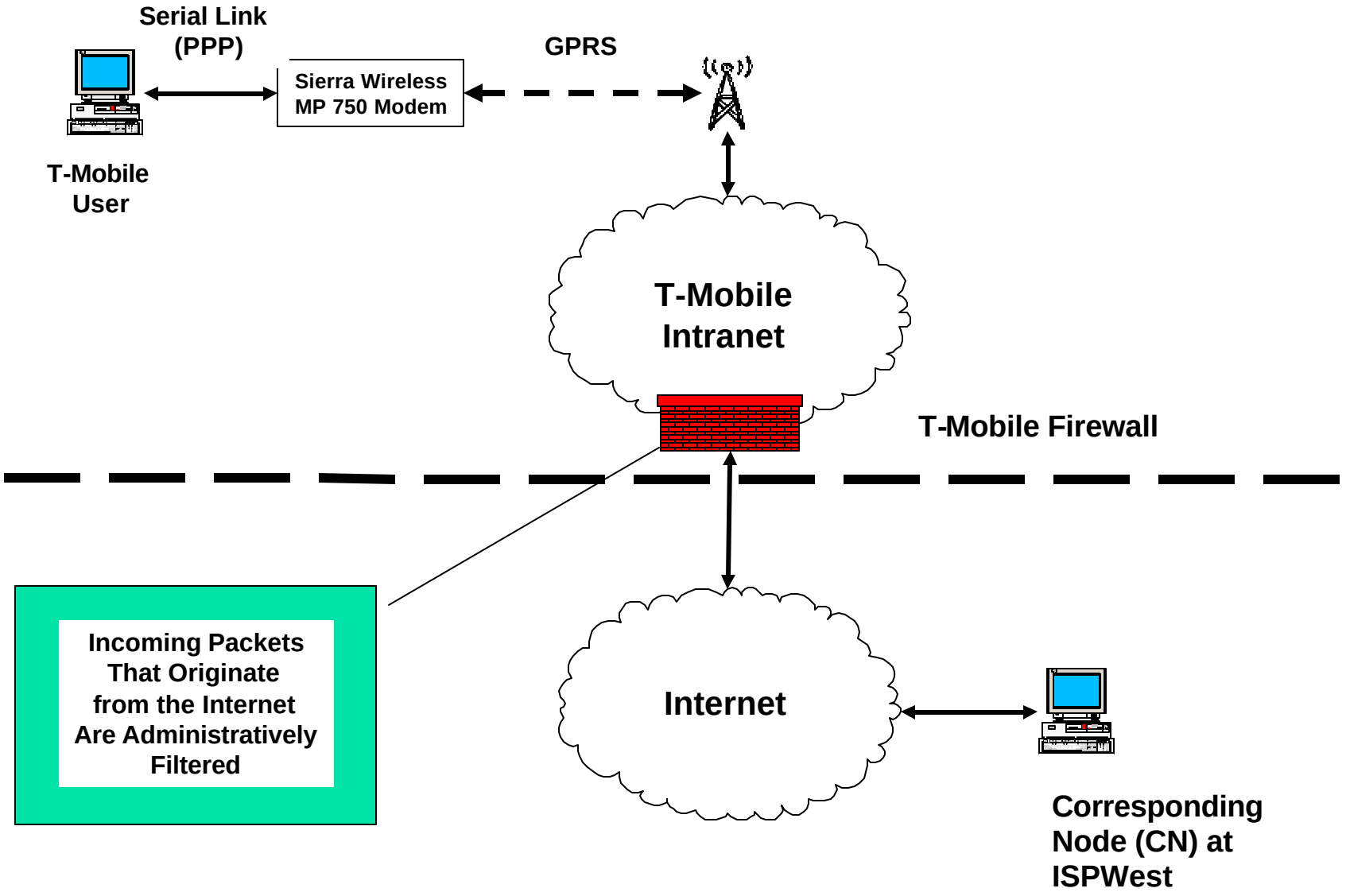
Mobile Networking – A Layer 3 Technology

- Why should T-Mobile care?
  - $$$$, new service opportunity.
- Cisco System, NASA and Western DataCom to demonstrate mobile networking to Ohio State Highway Patrol and other Govt. Agencies in November 2003
- Wish to deploy using 802.11, satellite and cellullar (GPRS).
  - GPRS is extremely cost effective solution to provide the layer-2 connectivity

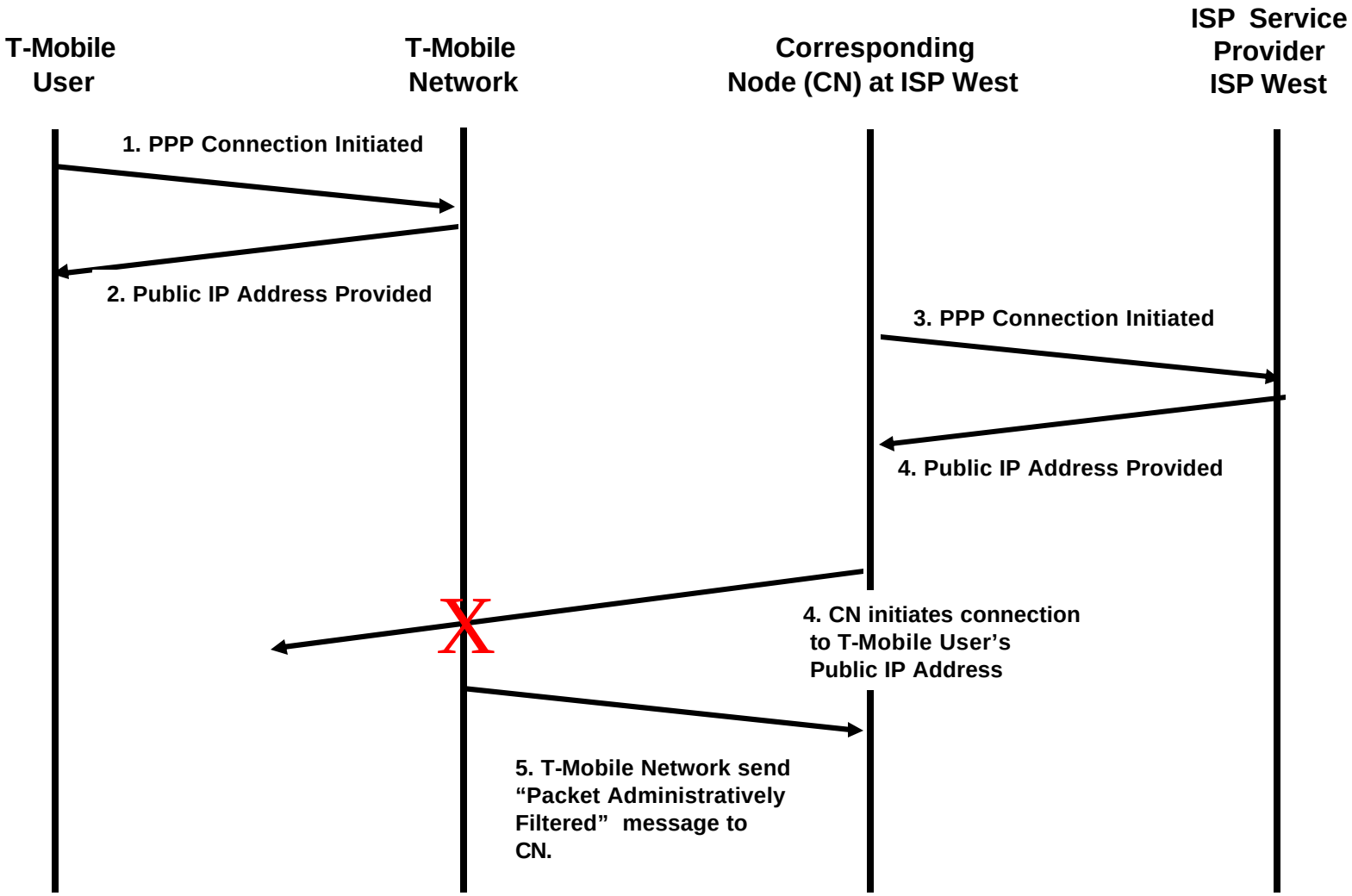
Network Problem – Administrative Filtering of Incoming Packets

- Service: GRRS
  - Virtual Private Network (VPN) Service
  - Publicly valid address space provided
- Public address should be reachable from the Open Internet to the T-Mobile Provided Address
- Incoming packets are administratively filtered. This breaks mobile-ip (mobile networking)

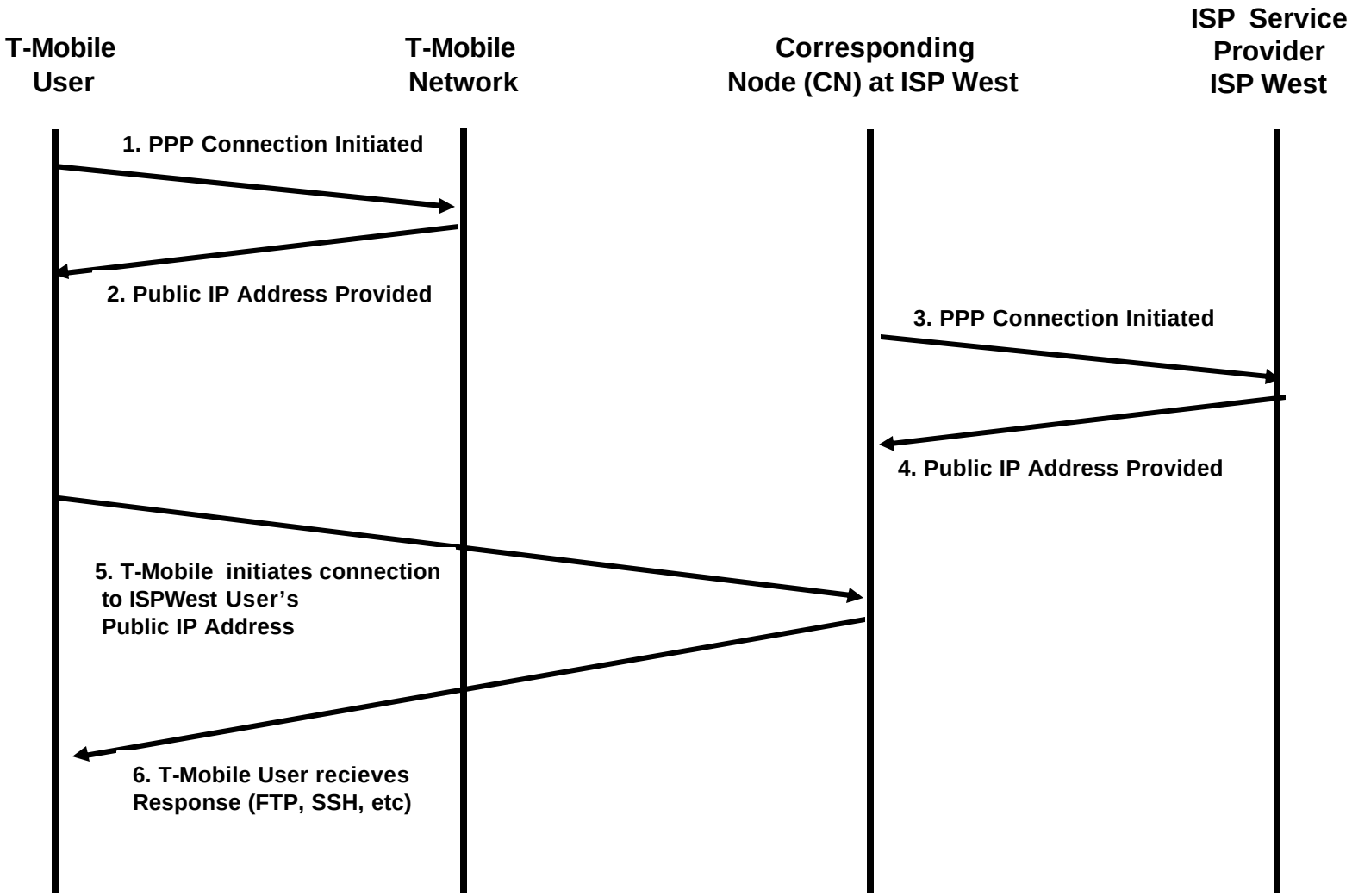
Network Test Using PC's



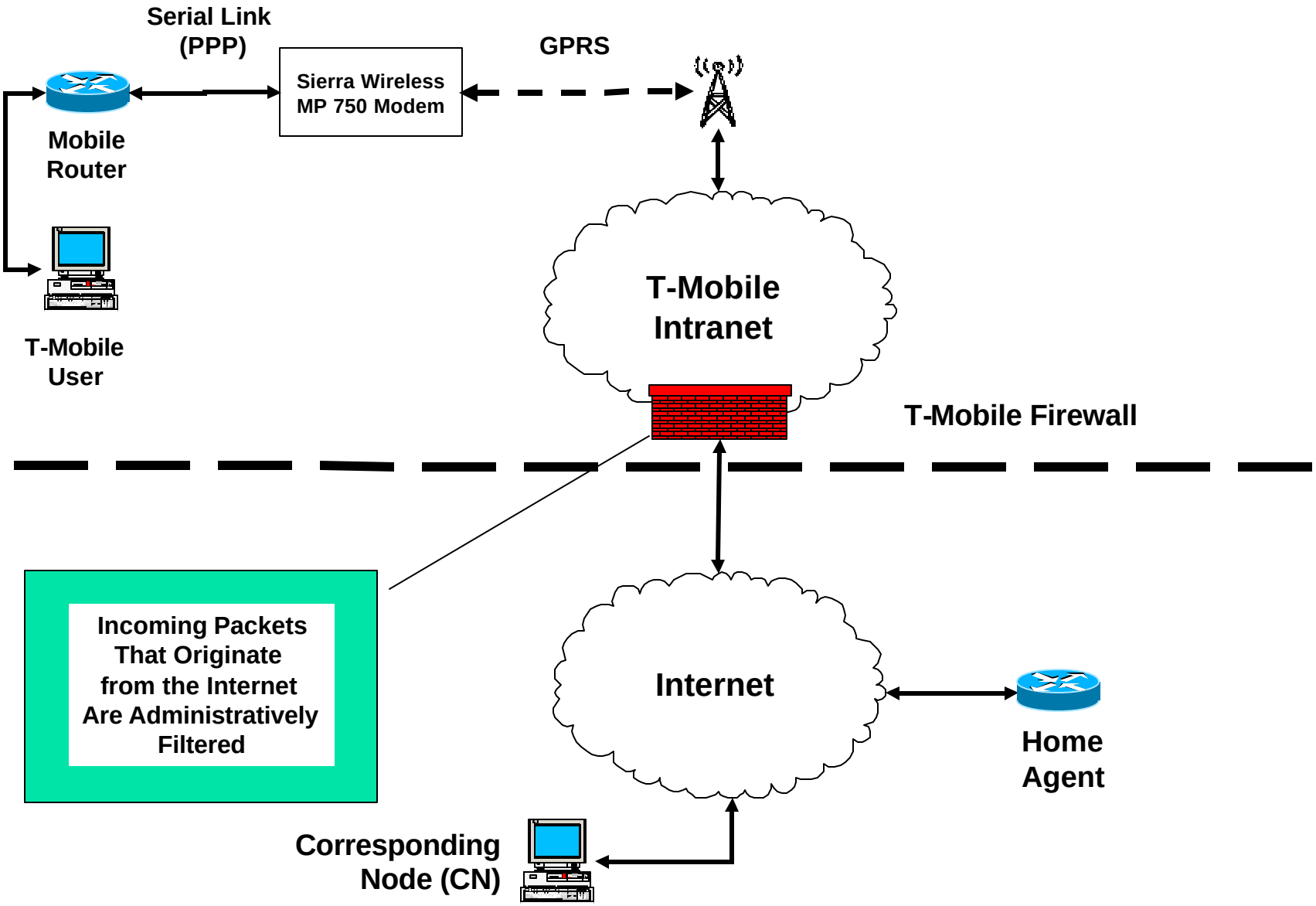
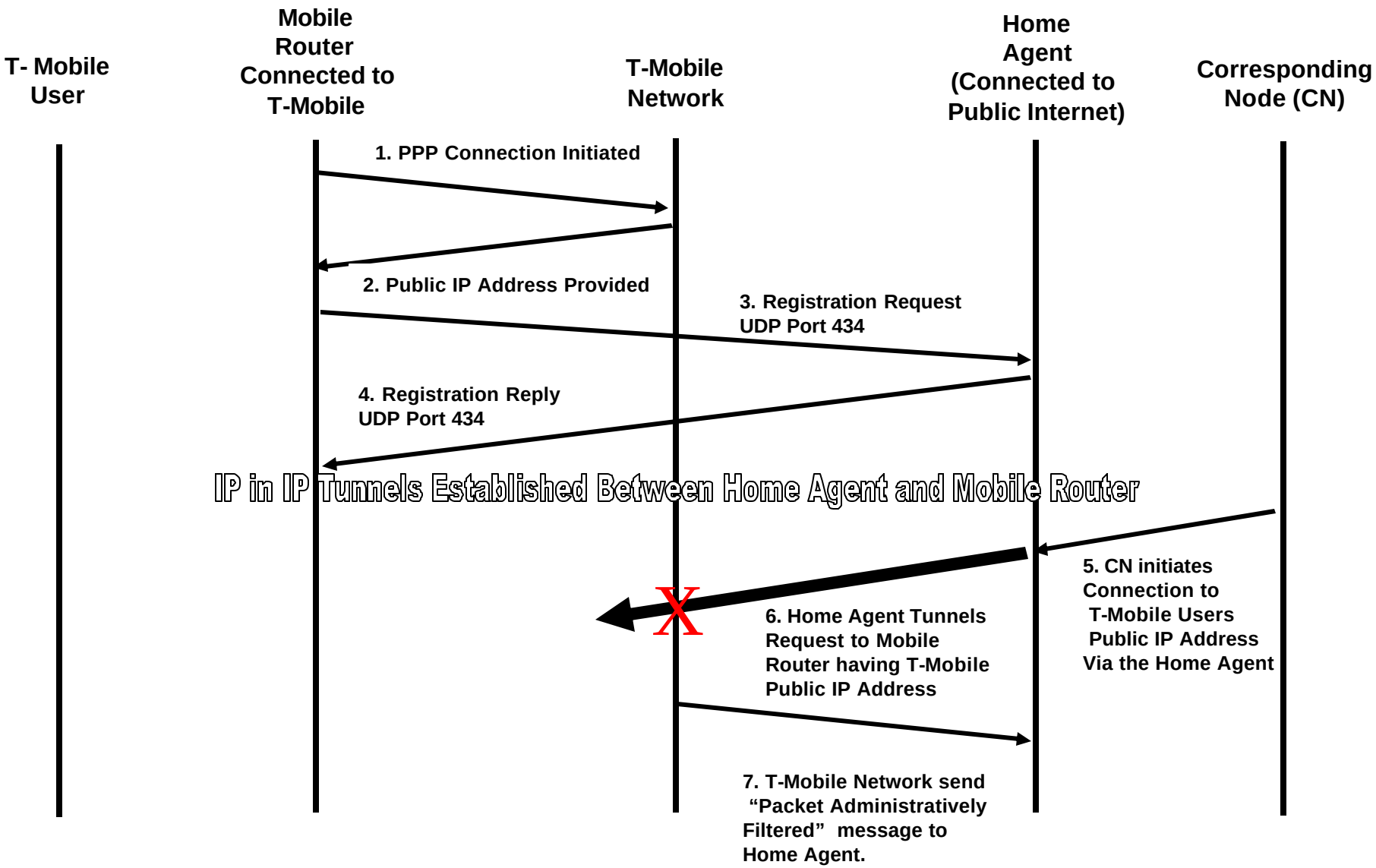
Test using PC's – The Problem



Test using PC's – This Works



Test using Mobile-IPv4 Mobile Networking



Test using Mobile-IPv4 Mobile Networking