

I341 - TCP/IP Addressing Exercise

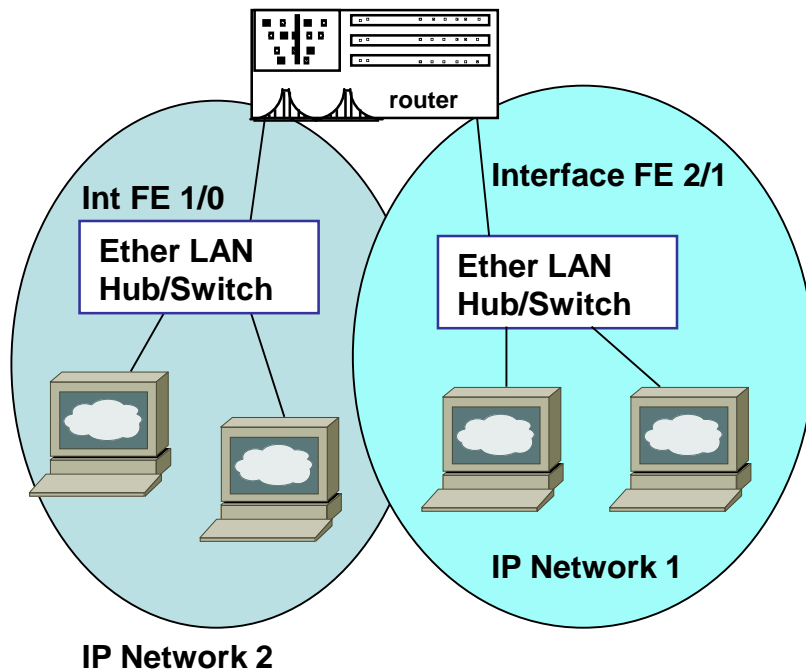
For each subnet you will need to address the following elements/parameters:

IP Address

Subnet Mask

IP Broadcast Address

•On each subnet you will need to address the router interface (for that subnet) and at least 2 devices on that subnet – with the aforementioned TCP/IP parameters



Example (based on illustration)

Router

interface FastEthernet 1/0

IP Address 192.168.200.1 subnet mask 255.255.255.0

IP broadcast-add 192.168.200.255

PC #1 (network 1)

IP Address 192.168.200.11 subnet mask 255.255.255.0

IP broadcast-add 192.168.200.255

Default gateway/router 192.168.200.1

PC #2 (network 1)

IP Address 192.168.200.12 subnet mask 255.255.255.0

IP broadcast-add 192.168.200.255

Default gateway/router 192.168.200.1

For the attached illustrations – please use the following TCP/IP address allocations:

Scenario 1 - Class Cs allocated to class by ARIN:

193.76.200.0	193.77.204.0	193.78.210.0	193.76.204.0
193.78.201.0	193.76.206.0	193.76.211.0	193.76.209.0
193.76.202.0	193.77.206.0	193.76.212.0	193.76.214.0
193.87.200.0	193.78.208.0	193.78.213.0	193.75.214.0
193.22.222.0	193.22.223.0	193.22.292.0	193.44.1.0

Scenario 2 - Class B's allocated to class by ARIN:

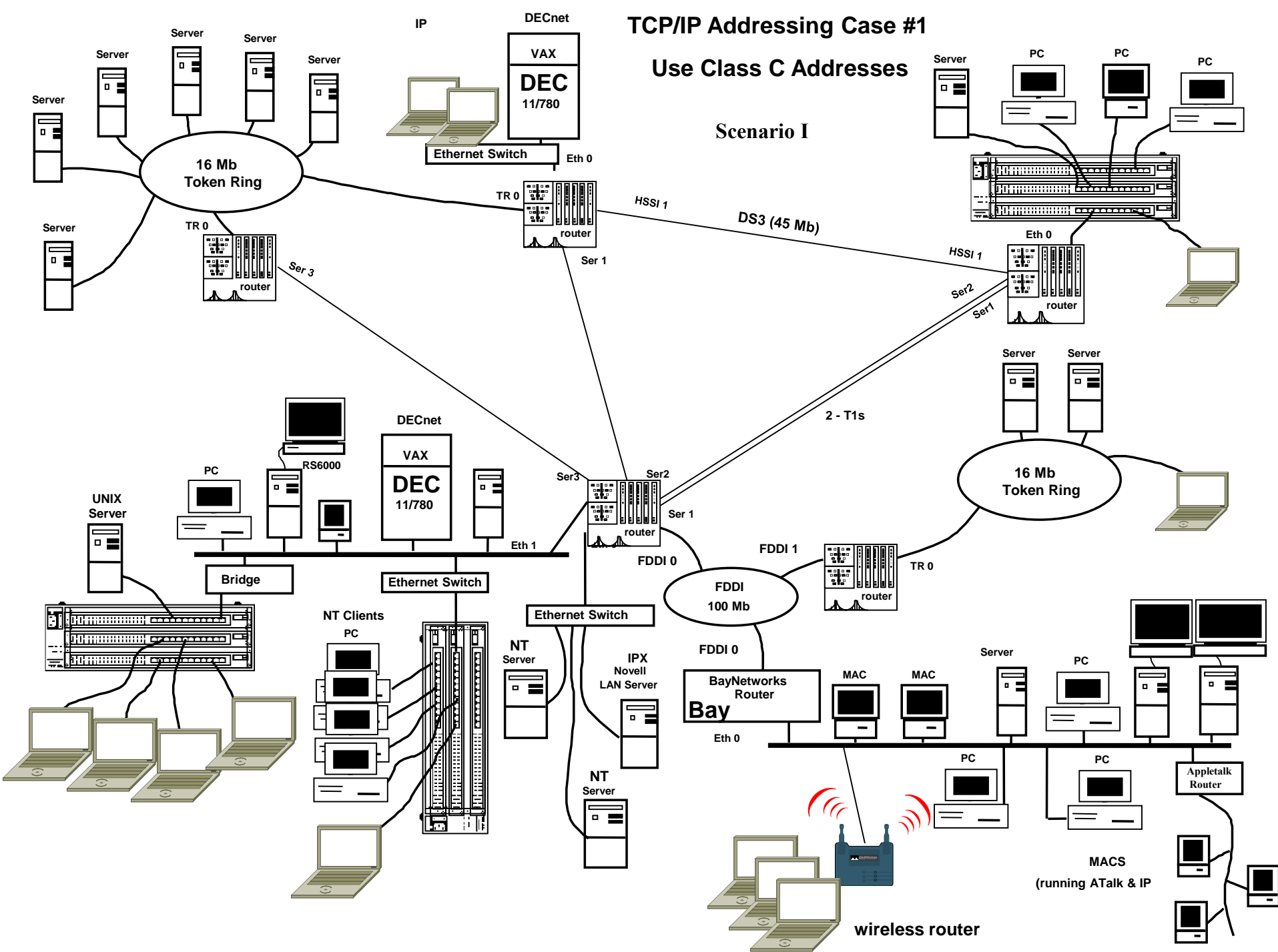
155.244.0.0
138.135.0.0
162.16.0.0
130.1.0.0

Scenario 3 – MUST use only 1 Class C (for entire infrastructure):

192.76.210.0

Use Class C Addresses

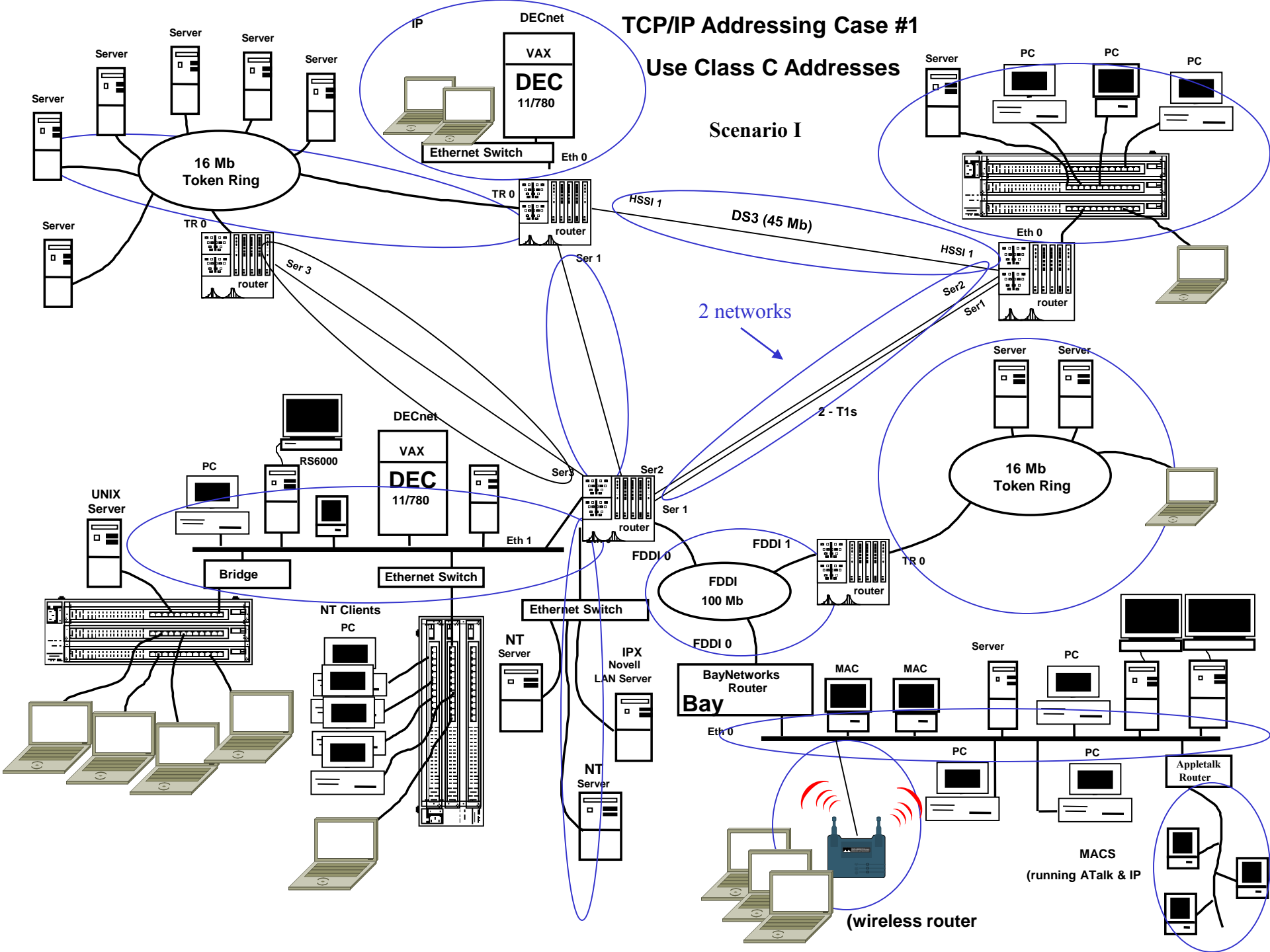
Scenario I



TCP/IP Addressing Case #1

Use Class C Addresses

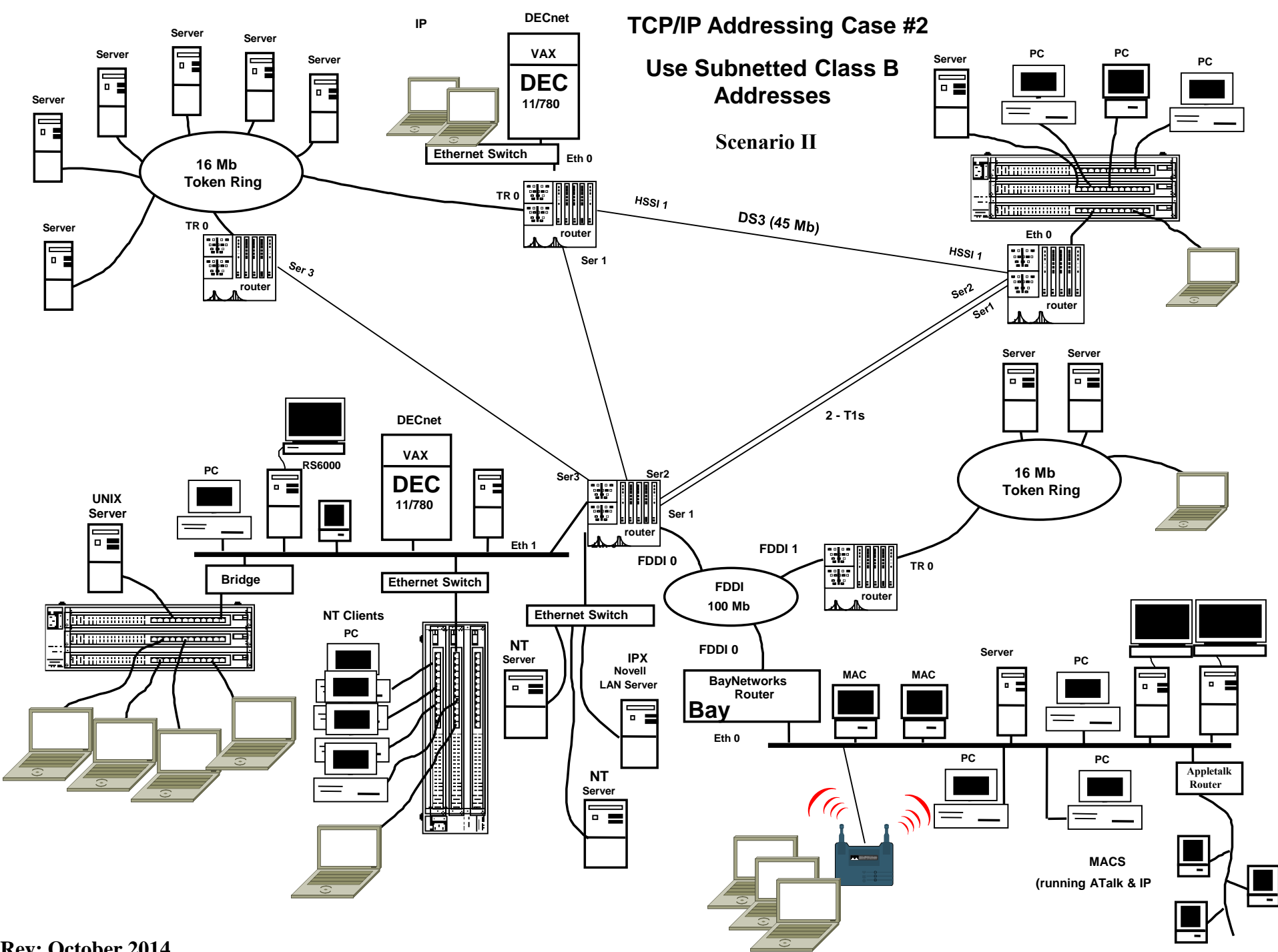
Scenario I



TCP/IP Addressing Case #2

Use Subnetted Class B
Addresses

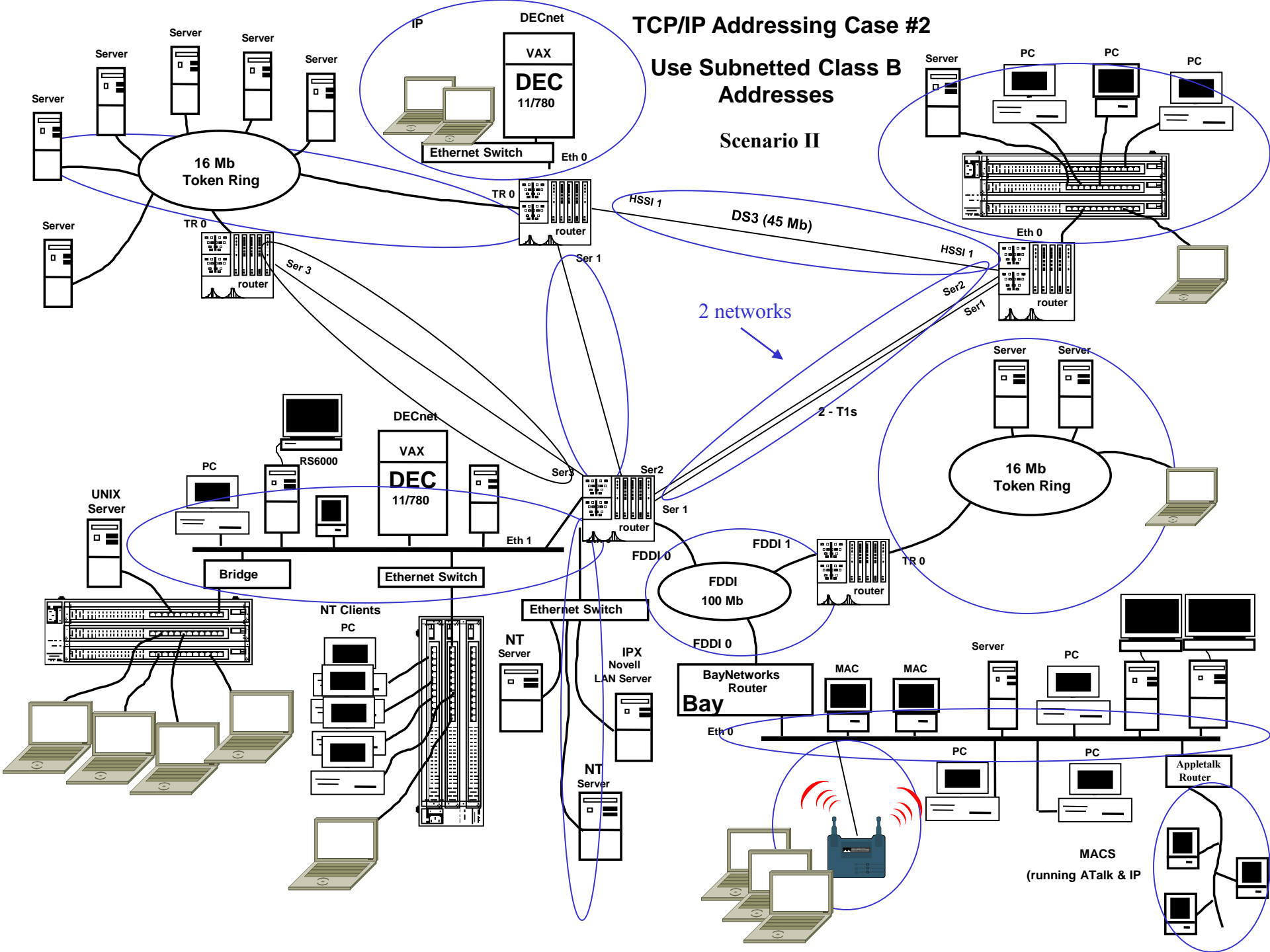
Scenario II



TCP/IP Addressing Case #2

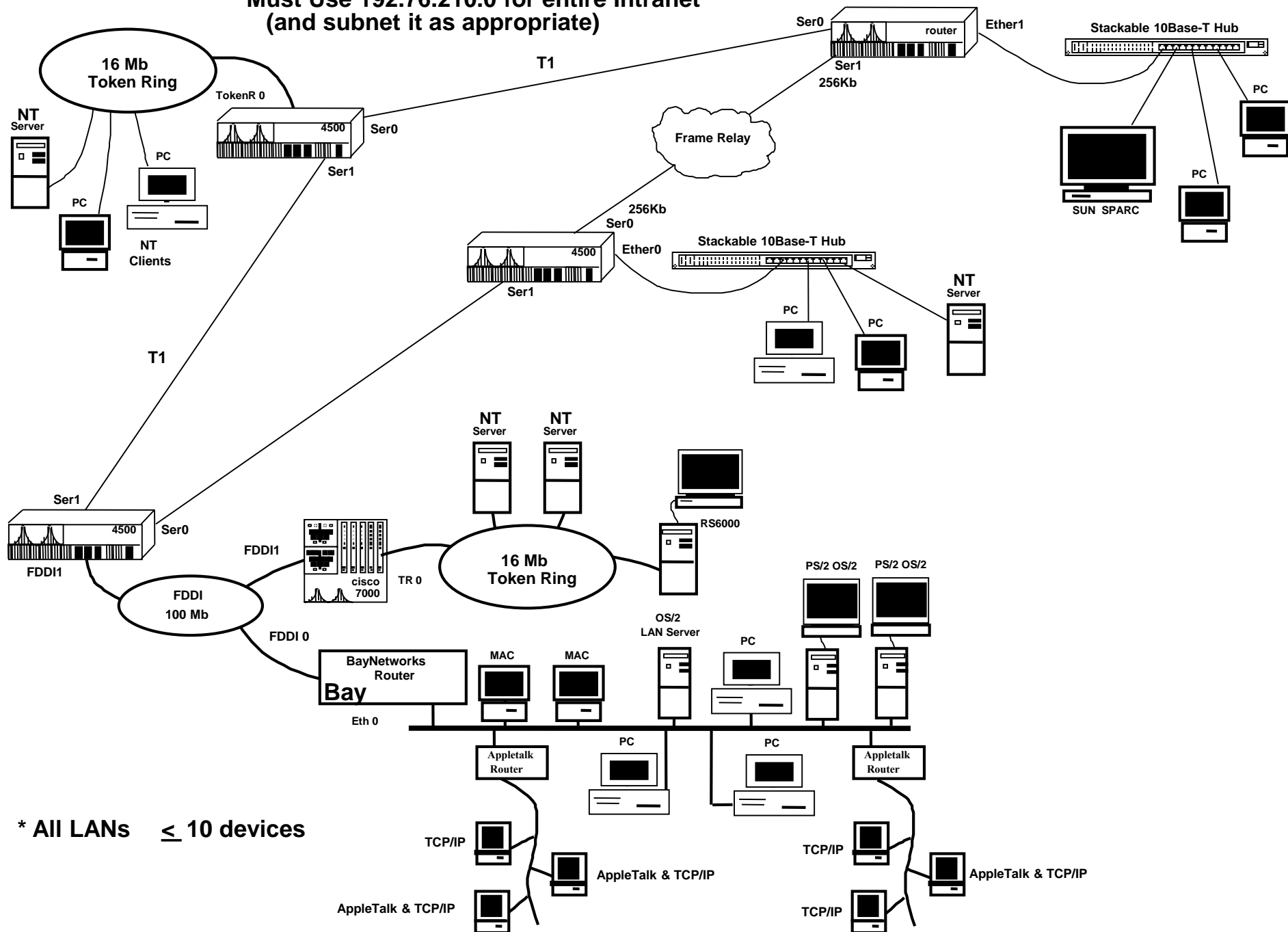
Use Subnetted Class B Addresses

Scenario II



UW TCP/IP Case Study (Extra Credit) Scenario III

Must Use 192.76.210.0 for entire Intranet
(and subnet it as appropriate)



TCP/IP Case Study (Extra Credit)

Must Use 192.76.210.0 for entire Intranet
(and subnet it as appropriate)

Scenario III

