

INE 3010 Lab Manual

Technical Information for NSP B

Version 1.0

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I. Address allocation

Enterprise Bravo Address MAP

Branch Office	IP Address Range	Domain Name and DNS Server IP	Router Interface IP to ISP / Netmask	Upstream ISP Router IP / Netmask
Hong Kong	10.8.2.0/24	hk.bravo.ine.cuhk.edu.hk 10.8.2.1	10.8.200.249/30	10.8.200.250/30
Shanghai	10.8.16.0/24	sh.bravo.ine.cuhk.edu.hk 10.2.16.1	10.8.205.249/30	10.8.205.250/30
Beijing	10.8.32.0/24	bj.bravo.ine.cuhk.edu.hk 10.8.32.1	10.8.210.249/30	10.8.210.250/30
Chengdu	10.8.64.0/24	cd.bravo.ine.cuhk.edu.hk 10.8.64.1	10.8.215.249/30	10.8.215.250/30

NSP B Address MAP

Region	Internal Network	Domain Name and DNS Server IP																											
Hong Kong	10.8.128.0/24	hk.nspb.ine.cuhk.edu.hk 10.8.128.1																											
<p>Core Router Interface IP</p> <table border="1"> <thead> <tr> <th>Network Connected to</th> <th>Router Interface IP</th> <th>Opposite Side IP</th> </tr> </thead> <tbody> <tr> <td>NSP Internal Network gw</td> <td>10.8.130.130/30</td> <td>10.8.130.129/30</td> </tr> <tr> <td>POP in IX</td> <td>10.8.130.249/30</td> <td>10.8.130.250/30</td> </tr> <tr> <td>NSP in Shanghai</td> <td>10.8.160.249/30 (s1)</td> <td>10.8.160.250/30</td> </tr> <tr> <td>NSP in Chengdu</td> <td>10.8.162.250/30 (s0)</td> <td>10.8.162.249/30</td> </tr> <tr> <td>NSP in Beijing</td> <td>10.8.168.250/30</td> <td>10.8.168.249/30</td> </tr> <tr> <td>Enterprise Network B gw</td> <td>10.8.200.250/30</td> <td>10.8.200.249/30</td> </tr> </tbody> </table> <p>POP Interface IP</p> <table border="1"> <thead> <tr> <th>Network Connected to</th> <th>Interface IP</th> </tr> </thead> <tbody> <tr> <td>Core Router</td> <td>10.8.130.250/30</td> </tr> <tr> <td>IX VLAN</td> <td>10.6.160.8/24</td> </tr> </tbody> </table>			Network Connected to	Router Interface IP	Opposite Side IP	NSP Internal Network gw	10.8.130.130/30	10.8.130.129/30	POP in IX	10.8.130.249/30	10.8.130.250/30	NSP in Shanghai	10.8.160.249/30 (s1)	10.8.160.250/30	NSP in Chengdu	10.8.162.250/30 (s0)	10.8.162.249/30	NSP in Beijing	10.8.168.250/30	10.8.168.249/30	Enterprise Network B gw	10.8.200.250/30	10.8.200.249/30	Network Connected to	Interface IP	Core Router	10.8.130.250/30	IX VLAN	10.6.160.8/24
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II. Host Naming

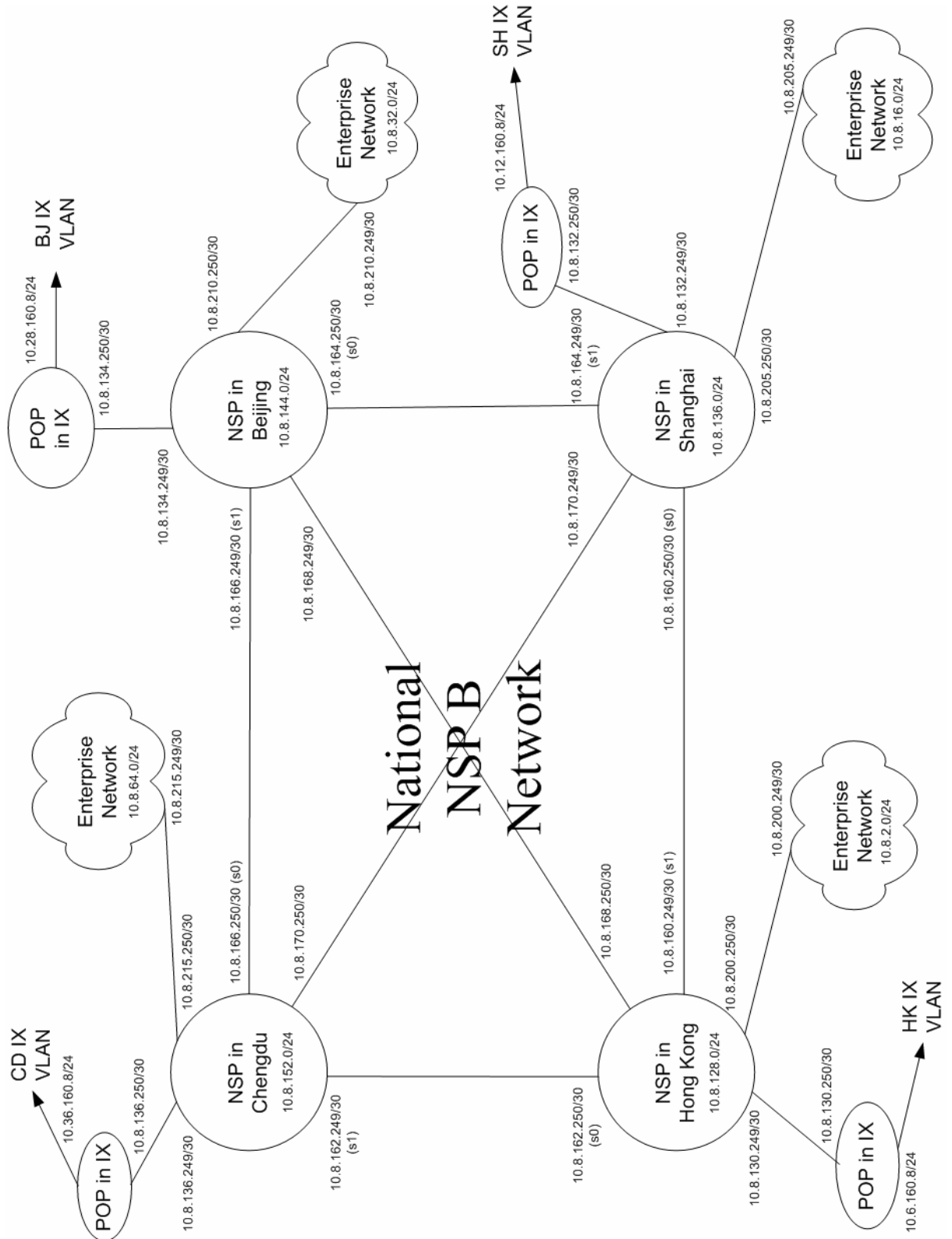
In order to facilitate your successors and headquarter to follow up your jobs, you are required to set the hostname of your servers as follow:

NSP B

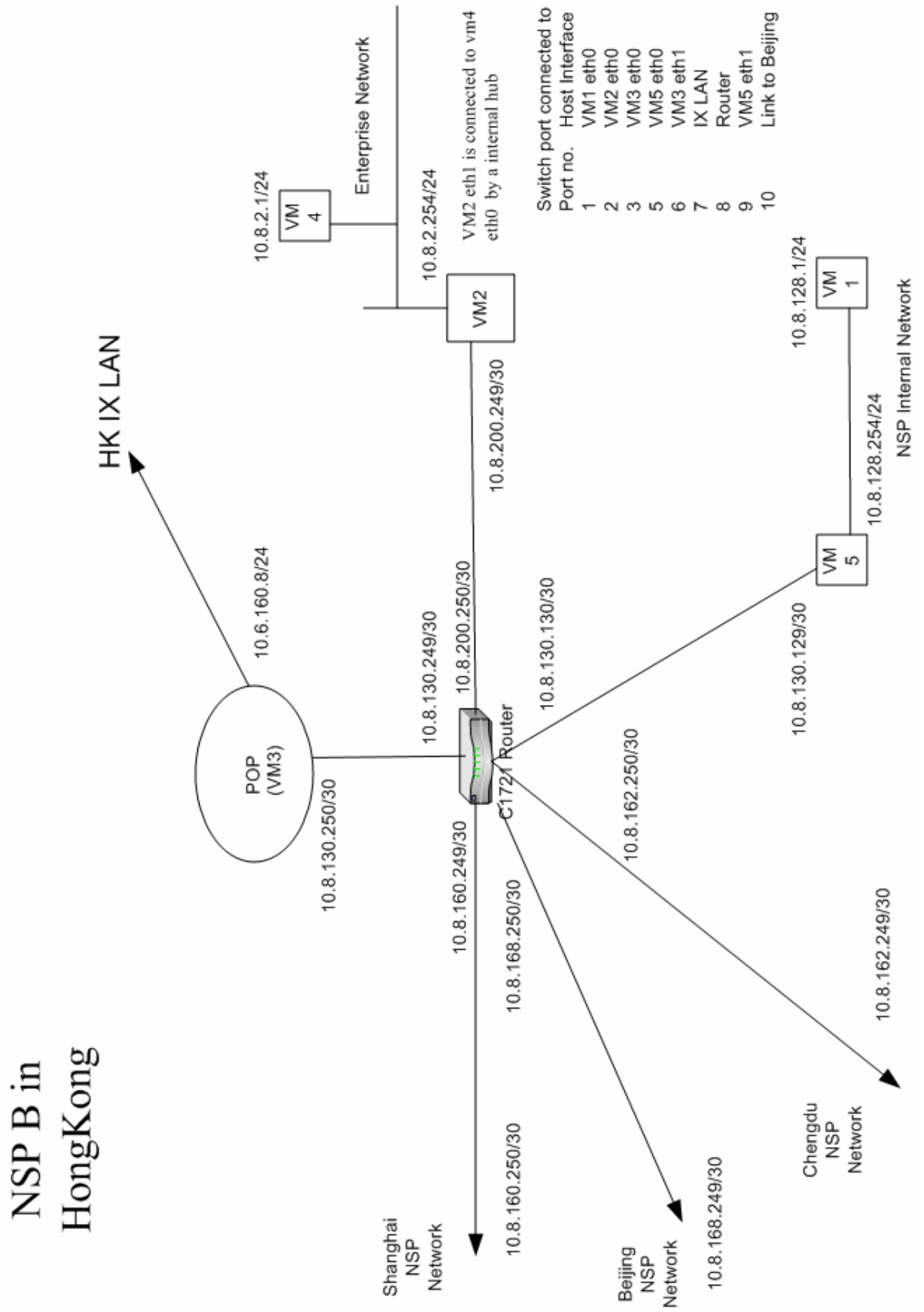
Branch Office	Server Hostname
Hong Kong	vms12-6 (NSP internal network server) vms12-7 (Enterprise network gateway) vms12-8 (POP) vms12-9 (Enterprise network server) vms12-10 (NSP internal network gateway) c2950-n5 (switch) c1721-n5 (router)
Shanghai	vms12-11 (NSP internal network server) vms12-12 (Enterprise network gateway) vms12-13 (POP) vms12-14 (Enterprise network server) vms12-15 (NSP internal network gateway) c2950-n6 (switch) c1721-n6 (router)
Beijing	vms13-1 (NSP internal network server) vms13-2 (Enterprise network gateway) vms13-3 (POP) vms13-4 (Enterprise network server) vms13-5 (NSP internal network gateway) c2950-n7 (switch) c1721-n7 (router)
Chengdu	vms13-6 (NSP internal network server) vms13-7 (Enterprise network gateway) vms13-8 (POP) vms13-9 (Enterprise network server) vms13-10 (NSP internal network gateway) c2950-n8 (switch) c1721-n8 (router)

III. Network Diagrams

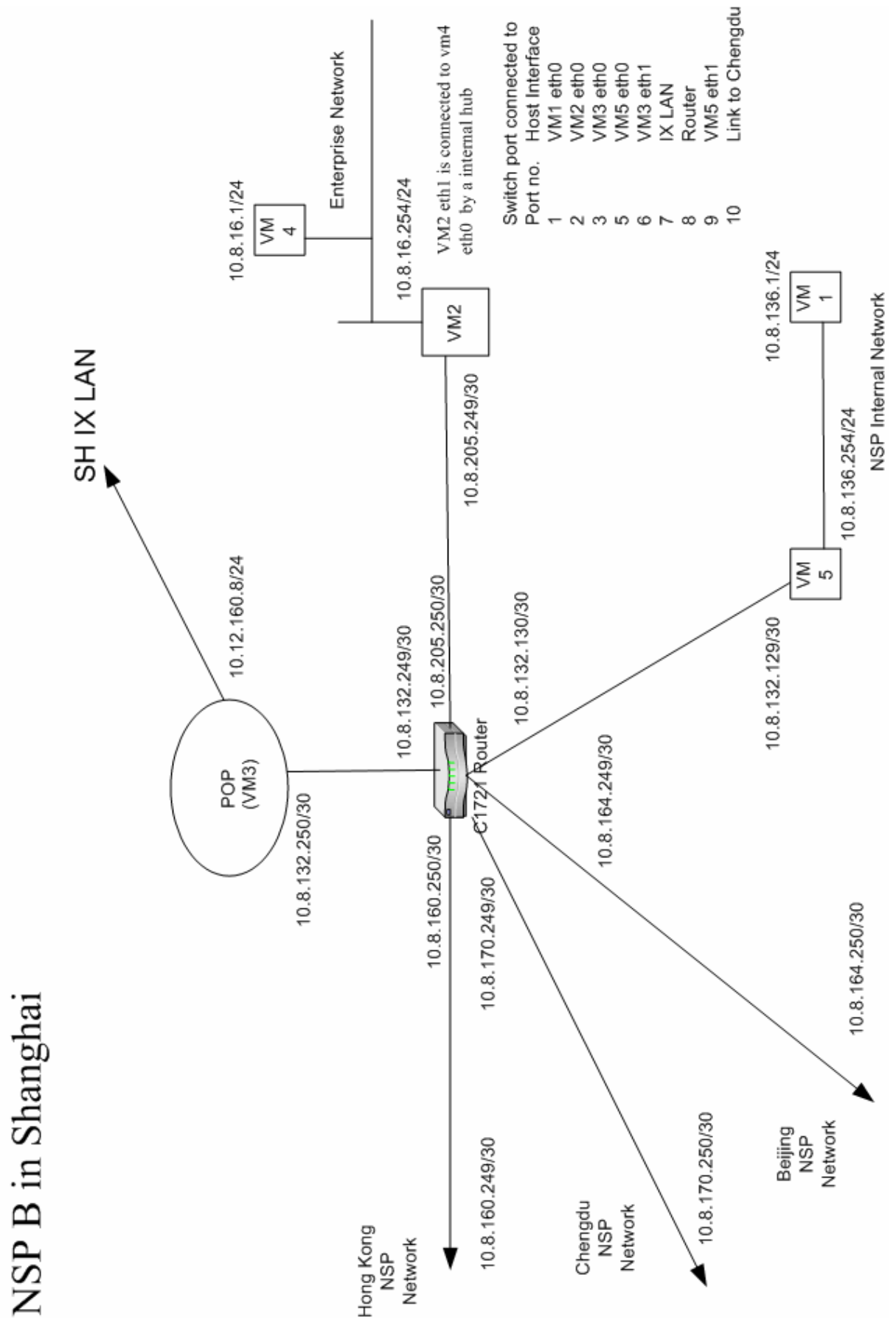
Network Diagram of NSP B



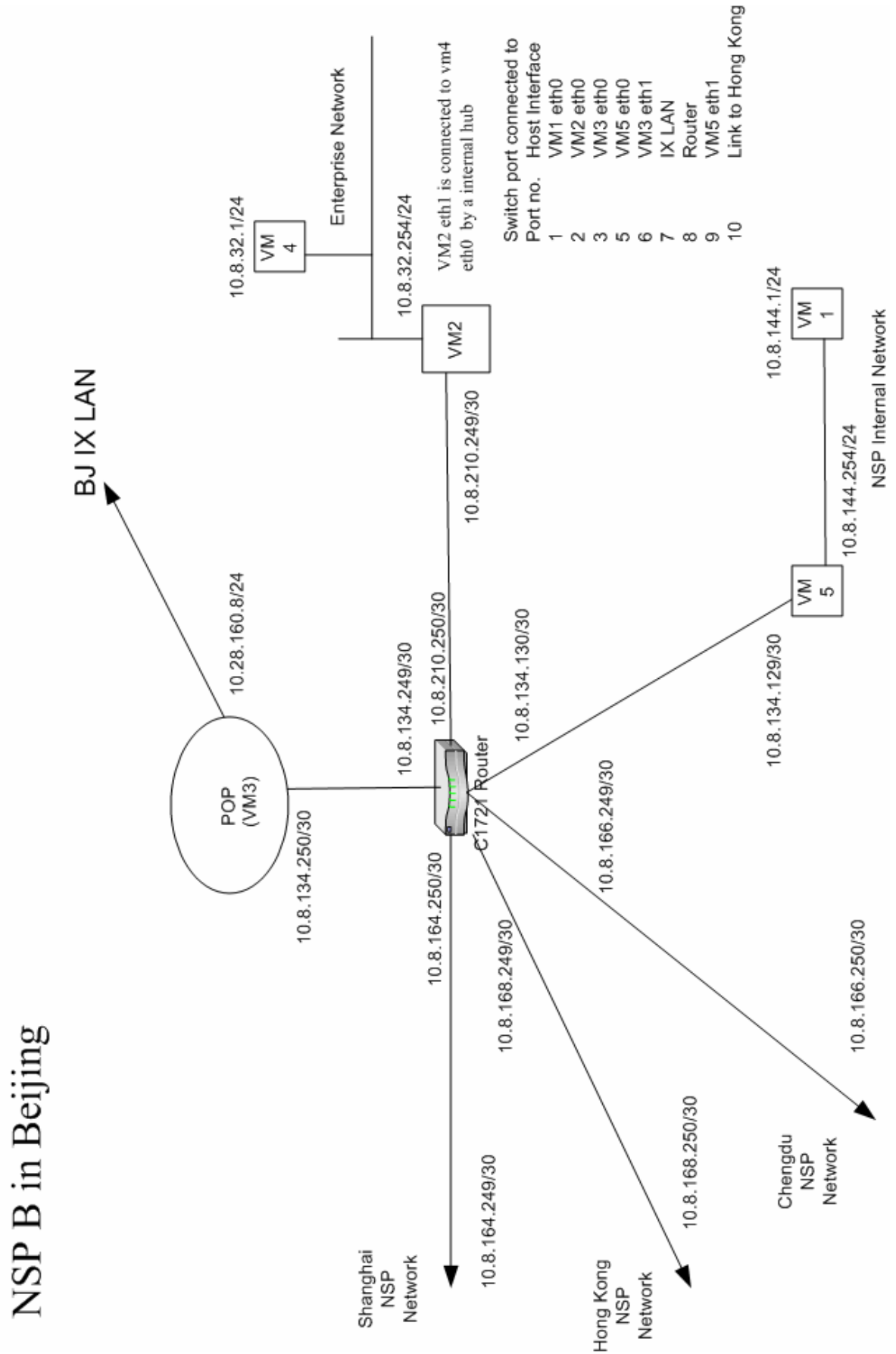
Network Diagram of the NSP B in Hong Kong Region



Network Diagram of the NSP B in Shanghai Region



Network Diagram of the NSP B in Beijing Region



Network Diagram of the NSP B in Chengdu Region

