

INE 3010 Lab Manual

Technical Information for NSP D

Version 1.0

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I. Address allocation

Enterprise Delta 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	10.32.2.0/24	hk.delta.ine.cuhk.edu.hk 10.32.2.1	10.32.200.249/30	10.32.200.250/30
Shanghai	10.32.16.0/24	sh.delta.ine.cuhk.edu.hk 10.32.16.1	10.32.205.249/30	10.32.205.250/30
Beijing	10.32.32.0/24	bj.delta.ine.cuhk.edu.hk 10.32.32.1	10.32.210.249/30	10.32.210.250/30
Chengdu	10.32.64.0/24	cd.delta.ine.cuhk.edu.hk 10.32.64.1	10.32.215.249/30	10.32.215.250/30

NSP D Address MAP

Region	Internal Network	Domain Name and DNS Server IP																											
Hong Kong	10.32.128.0/24	hk.nspd.ine.cuhk.edu.hk 10.32.128.1																											
<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>10.32.130.130/30</td> <td>10.32.130.129/30</td> </tr> <tr> <td>POP in IX</td> <td>10.32.130.249/30</td> <td>10.32.130.250/30</td> </tr> <tr> <td>NSP in Shanghai</td> <td>10.32.160.249/30 (s1)</td> <td>10.32.160.250/30</td> </tr> <tr> <td>NSP in Chengdu</td> <td>10.32.162.250/30 (s0)</td> <td>10.32.162.249/30</td> </tr> <tr> <td>NSP in Beijing</td> <td>10.32.168.250/30</td> <td>10.32.168.249/30</td> </tr> <tr> <td>Enterprise Network D gw</td> <td>10.32.200.250/30</td> <td>10.32.200.249/30</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>10.32.130.250/30</td> </tr> <tr> <td>IX VLAN</td> <td>10.6.160.32/24</td> </tr> </tbody> </table>			Network Connected to	Router Interface IP	Opposite Side IP	NSP Internal Network gw	10.32.130.130/30	10.32.130.129/30	POP in IX	10.32.130.249/30	10.32.130.250/30	NSP in Shanghai	10.32.160.249/30 (s1)	10.32.160.250/30	NSP in Chengdu	10.32.162.250/30 (s0)	10.32.162.249/30	NSP in Beijing	10.32.168.250/30	10.32.168.249/30	Enterprise Network D gw	10.32.200.250/30	10.32.200.249/30	Network Connected to	Interface IP	Core Router	10.32.130.250/30	IX VLAN	10.6.160.32/24
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II. Host Naming

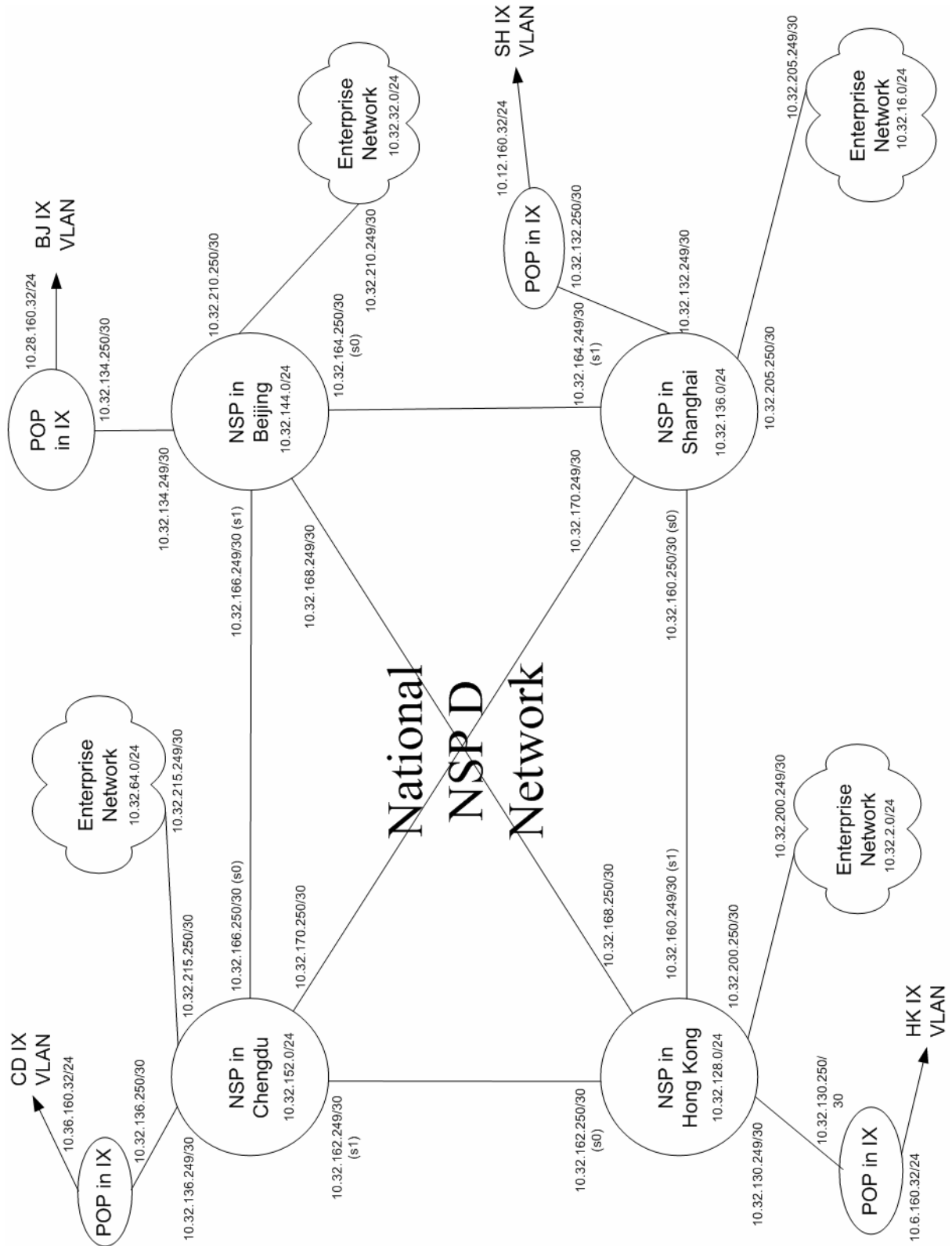
In order to facilitate your successors and headquarter to follow up your jobs, you are required to set the hostname of your servers as follow:

NSP D

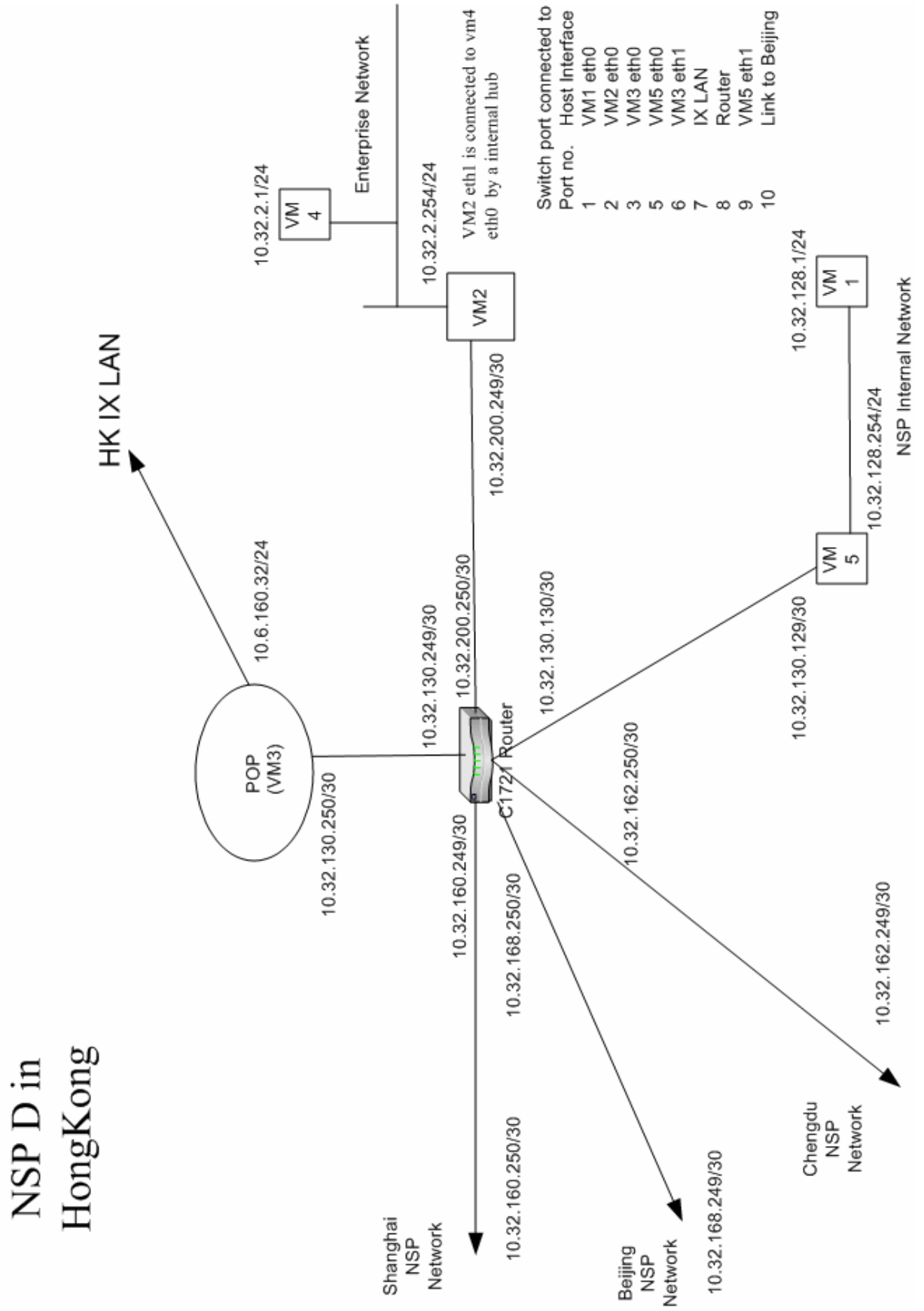
Branch Office	Server Hostname
Hong Kong	vms15-1 (NSP internal network server) vms15-2 (Enterprise network gateway) vms15-3 (POP) vms15-4 (Enterprise network server) vms15-5 (NSP internal network gateway) c2950-n13 (switch) c1721-n13 (router)
Shanghai	vms15-6 (NSP internal network server) vms15-7 (Enterprise network gateway) vms15-8 (POP) vms15-9 (Enterprise network server) vms15-10 (NSP internal network gateway) c2950-n14 (switch) c1721-n14 (router)
Beijing	vms15-11 (NSP internal network server) vms15-12 (Enterprise network gateway) vms15-13 (POP) vms15-14 (Enterprise network server) vms15-15 (NSP internal network gateway) c2950-n15 (switch) c1721-n15 (router)
Chengdu	vms1-1 (NSP internal network server) vms1-2 (Enterprise network gateway) vms1-3 (POP) vms1-4 (Enterprise network server) vms1-5 (NSP internal network gateway) c2924-n1 (switch) c1721-n16 (router)

III. Network Diagrams

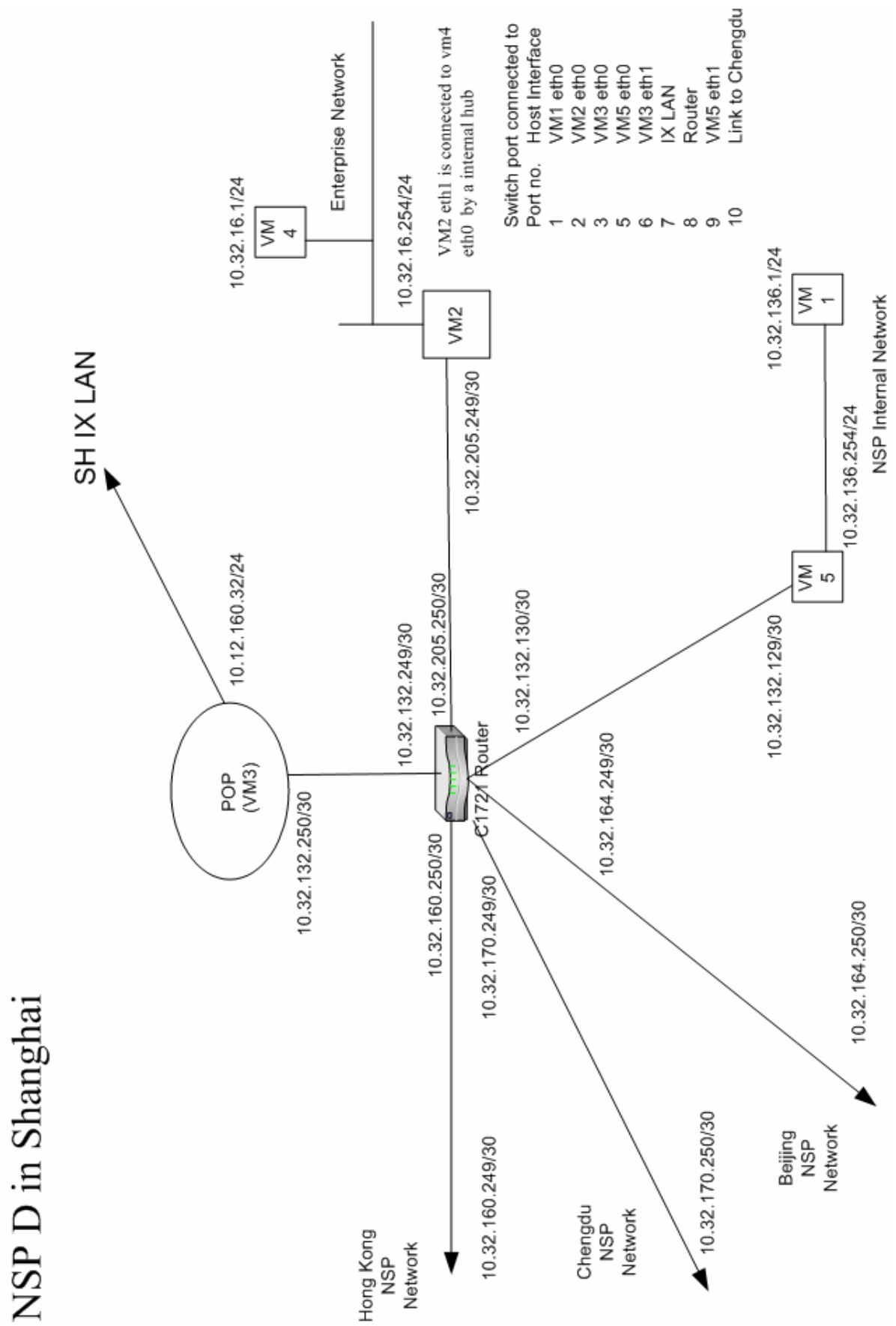
Network Diagram of NSP D



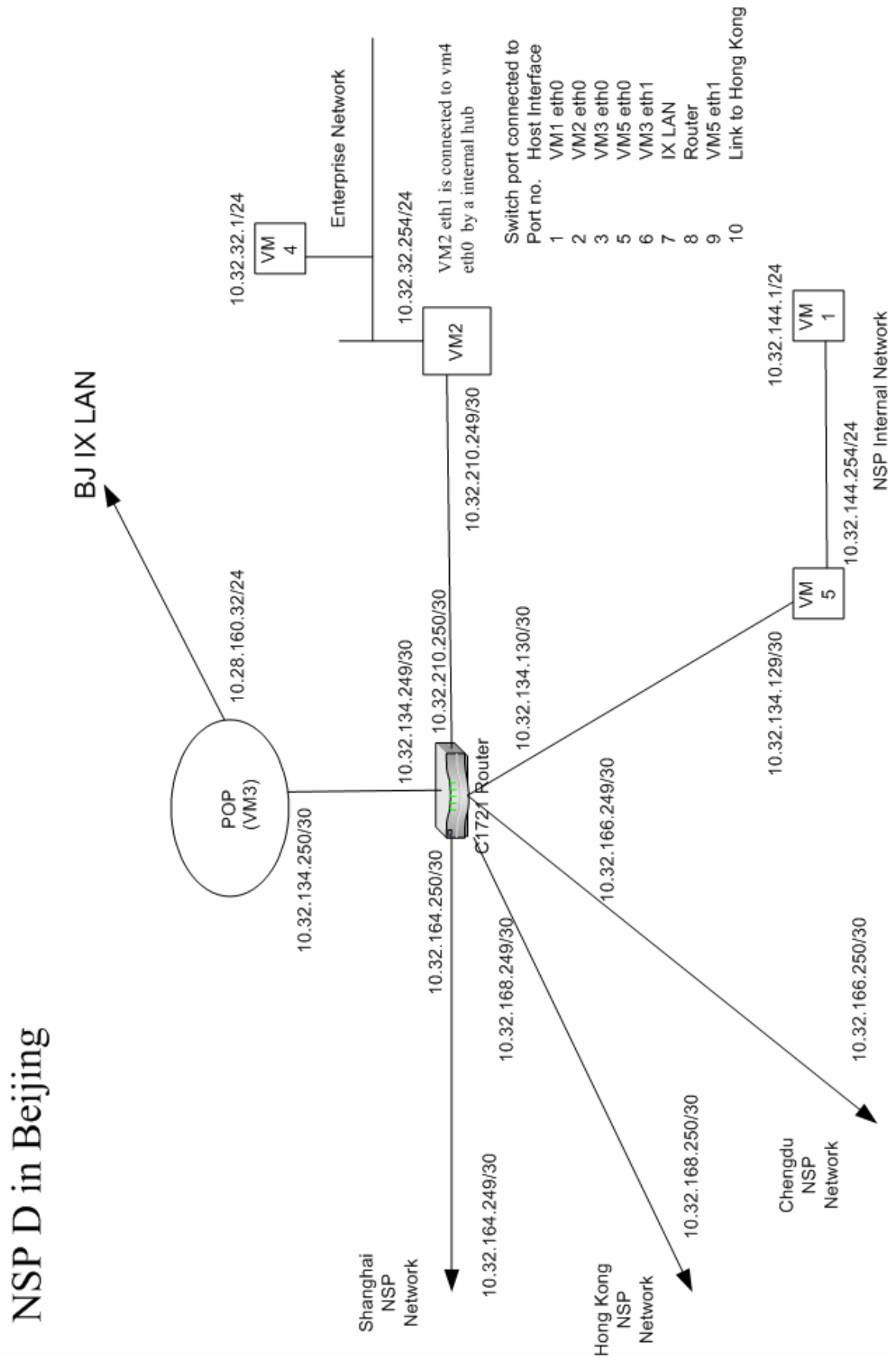
Network Diagram of the NSP D in Hong Kong Region



Network Diagram of the NSP D in Shanghai Region



Network Diagram of the NSP D in Beijing Region



Network Diagram of the NSP D in Chengdu Region

