

IPexpert / Proctor Labs Voice Topology

Tables

Table 1 –LAN IP Addresses

Location	Data Subnet	Voice IP Address
HQ Router*	no ip address	10.X.200.3/24
Branch 1 Router*	no ip address	10.X.201.1/24
Branch 2 Router*	no ip address	10.X.202.1/24
CallManager Pub**	N/A	10.X.200.20
CallManager Sub / IPCC*	N/A	10.X.200.21
Unity / AD*	N/A	10.X.200.22
PSTN-WAN Router	N/A	10.X.200.2
Cat 6500 (POD's 11-22)	N/A	192.20.200.5
Cat 6500 (POD's 23-29)	N/A	192.20.200.7
<p><i>*PODS 11-19: X=Last Digit of POD Number</i> <i>*PODS 20-29: X=Both Digits of POD Number</i> **Server is not present on network – but configure everything as if it were</p>		

Table 2 – Voice and Data VLAN IDs

	HQ Voice VLAN	BR1 Voice VLAN	BR2 Voice VLAN	Native VLAN
POD11	210	210	210	110
POD12	220	220	220	120
POD13	230	230	230	130
POD14	240	240	240	140
POD15	250	250	250	150
POD16	260	260	260	160
POD17	270	270	270	170
POD18	280	280	280	180
POD19	290	290	290	190
POD20	400	400	400	300
POD21	410	410	410	310
POD22	420	420	420	320
POD23	430	430	430	330
POD24	440	440	440	340
POD25	450	450	450	350
POD26	460	460	460	360
POD27	470	470	470	370

Table 3 – 6500 HQ Device Port Assignment

POD #	HQ Phone	HQ Phone 2	ATA-186	HQ-RTR
	1			
11	2/1	2/2	2/3	2/4
12	2/7	2/8	2/9	2/10
13	2/13	2/14	2/15	2/16
14	2/19	2/20	2/21	2/22
15	2/25	2/26	2/27	2/28
16	2/31	2/32	2/33	2/34
17	2/37	2/38	2/39	2/40
18	2/43	2/44	2/45	2/46
19	3/1	3/2	3/3	3/4
20	3/7	3/8	3/9	3/10
21	3/13	3/14	3/15	3/16
22	3/19	3/20	3/21	3/22
23	2/1	2/2	2/3	2/4
24	2/7	2/8	2/9	2/10
25	2/13	2/14	2/15	2/16
26	2/19	2/20	2/21	2/22
27	2/25	2/26	2/27	2/28
VG248	3/48	-		

Table 4 – CCM / IPCCX / Unity Port Assignment

POD #	6500 port	Purpose
11	2/5	POD11 CCM / IPCCX / Unity
12	2/11	POD12 CCM / IPCCX / Unity
13	2/17	POD13 CCM / IPCCX / Unity
14	2/23	POD14 CCM / IPCCX / Unity
15	2/29	POD15 CCM / IPCCX / Unity
16	2/35	POD16 CCM / IPCCX / Unity
17	2/41	POD17 CCM / IPCCX / Unity
18	2/47	POD18 CCM / IPCCX / Unity
19	3/5	POD19 CCM / IPCCX / Unity
20	3/11	POD20 CCM / IPCCX / Unity
21	3/17	POD21 CCM / IPCCX / Unity
22	3/23	POD22 CCM / IPCCX / Unity
23	2/5	POD23 CCM / IPCCX / Unity
24	2/11	POD24 CCM / IPCCX / Unity
25	2/17	POD25 CCM / IPCCX / Unity
26	2/23	POD26 CCM / IPCCX / Unity
27	2/29	POD27 CCM / IPCCX / Unity

Table 5 – HQ DN Assignment

HQ	DN
Phone1 (remote)	1001
Phone2 (remote)	1002
Phone3 (softclient)	1003

Table 6 – Branch 1 DN Assignment

Branch 1	DN
Phone1 (remote)	2001
Phone2 (remote)	2002
Phone3 (softclient)	2003

Table 7 – Branch 2 DN Assignment

Branch 2	DN
Phone1 (remote)	3001
Phone2 (remote)	3002
Phone3 (softclient)	3003
Phone4 (softclient)	3004

Table 8 – PSTN Information

Site	Signaling	Framing	Linecode	Other info	Timeslots active
6608	T1 PRI (user)	ESF	B8ZS	Switch type Primary-NI	1-3
BR1	T1 PRI (user)	ESF	B8ZS	Switch type Primary-NI	1-3
BR2	E1 R2	CRC4	HDB3	ITU Q421/semi- compelled	1-3

Table 9 – Loopback IP Address

Location	Loopback0
HQ*	172.X.100.1/24
Branch 1*	172.X.101.1/24
Branch 2*	172.X.102.1/24
<i>*PODS 11-19: X = Single Last Digit of POD Number</i>	
<i>*PODS 20-29: X = BOTH Digits of POD Number</i>	

Table 10 – Public Phone DN

Public Phone	DN
Line 1	911
Line 2*	212-22X-1111
Line 3*	617-52X-2222
Line 4*	331-32X-3333
Line 5*	0119876543
<i>* X=Last Digit of POD number including pods 20-29</i>	

Table 12 – Site Numbering Plan

Location	Numbering Plan
HQ*	212-22X-1...
Branch 1*	617-52X-2...
Branch 2*	011-331-32X-3...
<i>* X=Last Digit of POD number including pods 20-29</i>	

Table 13 – 6608 Media Resource Port Assignment

	6608 PRI	6608 conf	6608 xcode
POD11	4/1	4/2	4/3
POD12	4/4	4/5	4/6
POD13	4/7	4/8	5/1
POD14	5/2	5/3	5/4
POD15	5/5	5/6	5/7
POD16	5/8	6/1	6/2
POD17	6/3	6/4	6/5
POD18	6/6	6/7	6/8
POD19	8/5	7/2	7/3
POD20	7/4	7/5	7/6
POD21	7/7	7/8	8/1
POD22	8/2	8/3	8/4
POD23	3/1	3/2	3/3
POD24	3/4	3/5	3/6
POD25	3/7	3/8	4/1
POD26	4/2	4/3	4/4
POD27	4/5	4/6	4/7

Table 14 – WAN Link IP Address

Location	WAN Link IP Address
HQ to Branch1*	162.X.101.1/24
HQ to Branch 2*	162.X.102.1/24
Branch 1 Serial*	162.X.101.2/24
Branch 2 Serial*	162.X.102.2/24
<i>*PODS 11-19: X = Single Last Digit of POD Number</i>	
<i>*PODS 20-29: X = BOTH Digits of POD Number</i>	

Table 15 – WAN Connection

Connection	DLCI
HQ-to-BR1 PVC	201
HQ-to-BR2 PVC	202
BR1 Serial	101
BR2 Serial	102

Table 16 – Cisco Unity Express Module (CUE)

BR2 Location	Module IP Address
Service-Engine 0/1	10.X.202.2/24
<i>*PODS 11-19: X = Single Last Digit of POD Number</i>	
<i>*PODS 20-29: X = BOTH Digits of POD Number</i>	

Table 17 – Fax DN Assignment

Branch 1	FaxDN
Phone2	2802

Table 18 – PSTN Fax DN Assignment

PSTN	FaxDN
Fax Number	16175212223

Table 19 – CMC Codes

Branch 1	DN
PSTN Phone number for BR1	701
All other LD numbers	555

Table 20 – FAC Codes

Branch 1	DN
LD Code	9558
International Code	9889