

INDEX to NETWORKING

BASICS

(Book by PEA RESEARCH, updated 8/5/06)

SUBJECT	SECTION
0.0.0.0	WH-14
0.0.0.0 Subnet	RT-11
10.X.X.X Class A	RO-7; SH-7; TL-5, XW-3
10.(0-254).X.X	RO-7
10.3.34.67	RO-7
10/100 LAN	USR-1
10/100 WAN	USR-1
123.456.789.12	ID-2
127.0.0.1 Loopback	RT-2
169.254.1.X	RT-11; TL-5
172.X.X.X	SH-1
172.16.X.X	CO-5
192.168.0.X ICS Host	BR-20; ICS-14; ID-6; ME-2,5,7; TL-6; WH-15; WI-4,13; XW-2,3
192.168.0.10 Web Server	ME-7
192.168.1.X	BR-26,28; CO-1,8-10; XW-3
192.168.2.X	BR-22; CO-10; RO-10
192.168.10.1	RO-1
195.0.X.X	CO-11
200.2.X.X	CO-9
203.70.212.52 VPN	ME-7,10
206.190.X.X	CO-11
255.X.X.X	CO-1,9

A

AP (Access Point)	BR-31; ID-1; WH-3
APIPA/DHCP	RT-11; TL-3

B

Binding ICS & Bridge	BR-20
Bridging:	
To ICS	BR-20
To Wireless	BR-7,9

C

Cable(ing) (see also Connectors)	
CAT-5 100mhz	CR-25; WI-6
CAT-6	
Crossover	CR-15; ICS-2,14; ID-5; SH-7; WI-4,8,13; XW-1
Make crossover	CR-12
Speeds of	BR-16; ID-1,2
Cantenna:	
Firewire NIC (no reference)	
How to build	CA-1
How to connect	CA-1

Piggybacking	CA-1
Router, Wi-Fi	CA-1
USB NIC	CA-1
What is	CA-1

CISCO	WI-8,14
Client(s) computers:	
Hiding	BR-18
Installing	BR-12
Limited access	WH-19,20
Sharing	ICS-10; WZ-1
Clone MAC	USR-7
Commands, CMD:	
config	RT-10; WI-15
find	HN-1; RT-4; TL-4
forcecompatabilitymode (DOS)	BR-9,31; HN-11
Global Config Mode	WI-15
host.allow	SH-3
hosts.deny	SH-3
ipconfig	HN-10
netshbridgeshow	BR-10,31
Path ping	BR-32;CO-10; RT-10,12
regedit (find)	HN-1; ICS-6; RT-4,8; TL-4
route, persistant parameter-p	RT-3
routeadd (Linux)	CO-9
routeadd (XP)	RT-1,2
route print	RT-1
tracert (Trace Route)	RT-10,13,15
troubleshooting	RT-11
winroute	RT-20
XP tools	RT-10
Connection types:	
Dial-up connection	IG-1
Leased connection	TL-4
Speed of	BR-16; ID-1,2
Connectors (see also Cable(ing)):	
RJ-25	USR-3
RJ-45	USR-3
D	
DB-9 comm port	ID-5
Default:	
Gateway	BR-12; CO-9; RT-2; TL-5; WH-12,14
MTU	ICS-6
Route	ME-1
Work Group	WH-6
Diagnostics:	
Network	RT-11

DHCP (Dynamic Host Control Protocol)
 BR-12,14
 APIPA/DHCP RT-11; TL-3
 (Automatic IP Address Assignment)
 disabled TL-6; USR-1
 Mini Server ID-2
 Dial-up connection IG-1
 DMZ Host USR-1
 DNS (Domain Name System)
 BR-12; RT-10; SH-11
 Server Ping HN-11
 Dynamic IP USR-1

E

E-mail ID-5
 EAP security WI-3
 EC (Exposed Computer) WH-19
 Enabling ICS ICS-12,14
 Error:
 IPC\$ HN-3,9
 eth0 (NIC interface) CO-1,8,11; RO-9-12
 eth1 (NIC interface) CO-11; RO-10-12

F

File sharing WI-13
 Firewalls BR-8,16,18; ICS-14; ID-3;
 USR-1; WH-2; XW-1
 Filters, admin.assigned WH-24
 Firewire Wi-Fi (see Cantenna)
 Forwarding storm BR-14
 Flooding frames BR-14
 FTP (File Transfer Protocol)
 Pinging HN-11
 Server ME-7

G

Gentoo laptop WI-4
 GET requests RT-4

Group(s):

Default Work Group WH-6
 Restrictions WH-20

H

Hiding clients BR-18
 How-to:
 DNS SH-8,9
 HOPS, router RO-7; RT-2
 Masquerade IP SH-8
 Share internet connection (see ICS)
 HPNA modem BR-16

Hub, multi-speed WH-3

I

IAS (Internet Access Server, see ICS)
 ICMP message RT-4,12
 ICF (Internet Connection Firewall)
 Boot first TL-4
 Crossover ICS-14
 Enabling BR-18; ICS-12,14; IG-1,8
 For IAS WH-19
 NAT CR-27
 Specs. ICS-8; WH-1; WZ-1

ICS (Internet Connection Server):

Binding to Bridge BR-20
 Bridging to BR-7,9
 Enabling ICS-12,14
 IAS ME-1-6; WH-12,14,19
 NAT CR-27; ID-2

IFW (firewall, see ICF) XW-1

Installing Clients BR-12

Interface (eth/NIC) CO-8

Internet access: (see also, ICS)

via LAN WH-10,11,12

via Piggyback CA-1

via USB CA-1

IP (Internet Protocol):

Alliasing CO-2
 Calculator SH-3
 Dynamic address USR-1
 Illegal addresses SH-21
 IPC\$ error HN-3,9
 IPX not needed ICS-13
 Legal addresses SH-21
 Masquerading SH-8
 Security RT-13,14
 Static BR-12; USR-1
 TCP/IP forwarding RT-8
 WAN router RO-4

J

K

L

LAN (Local Area Network)

Mapping ME-2

Segments BR-11; ME-2

Wireless WH-3

Leased connection TL-4

Linux, coLinux:

adddefaultgateway	RO-11; SH-8
Bind8	SH-21
Bind9	SH-10
Bogus Zone	SH-18
DNS server	SH-8
ifconfig	CO-1,8,9; RO-9; RT-10
in-addr.arpa	SH-13
Loopback IP	RT-2
manroute	RO-11
Redhat	RO-9; SH-11
Reverse Zone	SH-19
root-servers.net	SH-13
routeadd	CO-9
route	CO-1,8; RT-12; SH-4
rpcinfo-p	SH-4
Server	XW-2

M

MAC:

Clone MAC	USR-7
Filtering	WI-3
Mandrake Server	XW-2
Mapping Network	ME-2; RO-8,9
Mask, Subnet	ME-5; RT-2
Masquerading IP	SH-8
Memory Stick (no reference)	
Metric, use of	RT-2,7,20

Modem(s):

HPNA	BR-16
PCMCIA	ID-10

MSHOME (see Default Work Group)

MTU:

Creating with Regedit	ICS-6
Default	ICS-6
Pinging	ICS-6
Size of	RT-4
Time-out	RT-4

N

NAT (see ICS)

Netbui check	HN-1
Netmask, purpose of	RT-2,11

Network setup:

Bridging	BR-1,7,11,20,22; RT-8; WZ-1 (see ICS)
Calculator, IP	SH-3
Diagramming	RO-8,9; WI-8,14,17
Floppy disk	WH-6; WZ-6

USB memory stick (no reference)	
XP CD	WH-5

NIC (Network Interface Card):

NIC1, eth0	ICS-10
NIC2, eth1	ICS-10
Virtual Host only	RT-8
Long names in Regedit	RT-4

O

P

Packets:

Defined	RO-6
Expired	RO-7
Forwarding	CO-10; RO-4; WH-25
TCP	WH-25
UDP	WH-25

Password(s)

	ME-10
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PCMCIA, modem

	ID-10
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Persistent routes

	RT-20
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Port(s):

25	ID-3,6
80	ID-3,6
139	XW-2

PPP	USR-1
PPPOE	RT-4; USR-5,12
PPTP	USR-1
Private NETS	SH-21
Promiscuous mode	BR-9,14,31
Proxy server	ICS-13

Q

QOS Packet (in multi-service IP networks):

	RT-1
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R

Regedit (see Commands)

	RT-8
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Repeater

	ID-5
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Residential gateway

	BR-19
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RIP routes

	RT-2; WI-15
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RJ45 (WAN)

	USR-3
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Road Runner

	USR-1
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Root(.)data structure (.org, .com, .net, .edu):

	SH-11
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Router(s):

	ID-6; ME-2
HOPS	RO-7; RT-2
WAN IP	RO-4
Wi-Fi (see Cantenna)	

Routes, persistent

	RT-20
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Routing:

default	ME-1
Mapping	CO-8,9; ME-2
Protocol	BR-12
Screen	WH-17
Table	ME-4; RT-1,2

S

Security:

EAP	WI-3
IPsec	RT-13,14
MAC addressing	WI-3
Groups	WH-20,22
WEP	ID-4; WI-3

Server(s):

DMZ Host	USR-1
IAS	WH-19
ICS	TL-4
ftp	ME-7
Linux	XW-2
Mandrake	XW-2
Mini DHCP	ID-2
Proxy	ICS-13
UDP	ME-9; WH-25
Virtual Table	ME-8; WH-19
Web	ME-7

Service Paks

	HN-9
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Settings: (see Commands)

NIC1	ICS-10
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Setup disk (see Network setup)

Sharing, disabled

	ICS-12
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SIA (Special Internet Apps.)

	WH-19
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Sniffers

	ID-3
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SNMP

	USR-1
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Splitter

	ID-9
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Spoofing protection

	SH-10
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SSH

	CO-6
--	------

SSID (Service Set Identifier)

	ID-12
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[Identifies wi-fi-802.11](#)

Static IP (see IP)

Stealth Mode

	XW-2,3
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Subnet masks calculator

	SH-3
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Switch(es):

Multi-speed	WH-3; WI-8
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T

TCP/IP forwarding

	RT-8
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Telnet ping enable

	HN-11; WI-15
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TLD (Top Level Domains)

	SH-11
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Tools:

Dr. TCP RT-6,10,11
Troubleshooting network (see Commands)

U

UDP Server (see Servers)
UpnP (Universal Plug-n-Play) USR-1
USB Wi-Fi (see Cantenna)

V

VLAN (Virtual LAN) WI-8,9
VNIC (Virtual NIC, Host only) RT-8
VPN (Virtual Private Network) RT-4;
USR-1; WI-3
VST (Virtual Server Table) ME-8; WH-19

W

WAN (Wide Area Network):
RJ-45 USR-3
Router IP RO-4
WAN "Out" HN-11; ID-2,5;
USR-1,3,7,13

WAP ID-1
Webmin CO-6
WEP ID-4; WI-3
WINS BR-12
Winsock HN-12; TL-6
Wireless: (aka as Wi-Fi)
B&G BR-16; ID-1,2
Bridging to ICS BR-7,9
Cantenna CA-1
Setup WZ-4
Standards WI-1

Workgroup name WI-13

WPA ID-3

X

XP CD setup (see Network setup)
XP Home edition BR-7; RT-8
XP Pro edition RT-1

Y

Yahoo.com IP address HN-10

Z