

## Index: Licenses

<b>D</b>	Description	5
<b>H</b>	Hardware serial number	3
<b>I</b>	in use by	6
<b>K</b>	Key	3, 5
<b>L</b>	License data	
	Activating extra licenses	4
	License serial number	3
	PIN	3
	Serial number	3
	Software license ID	3
	License serial number	3
<b>M</b>	Mask	5
<b>N</b>	Number of licenses	6
<b>O</b>	Online licensing	3, 5
<b>P</b>	PIN	3
<b>S</b>	Serial Number	5
	Serial number	3, 5
	Software license ID	3
<b>T</b>	total	6



# Index: System

<b>Numerics</b>	1st Event index	28
<b>A</b>	Action	17
	Activity Monitor	7
<b>B</b>	Basic system data	3
<b>C</b>	Central server	13
	Change System Time	36
	CLID	13
	Client IP address	8
	Client UDP port	8
	Compare value	25
	Condition	24
	Contact	4
	Current System Time	36
<b>D</b>	Description	21, 28
	DownAction	15
<b>E</b>	End time	25
	End value	25
	Event protocol	9
	Eventlist condition	29
	Execute command	29
	External Activity Monitor	7
	External system logging	9
<b>F</b>	Facility	10
	FirstIfIndex	15, 18
<b>G</b>	Group	14

<b>H</b>	Hosts	13
<b>I</b>	Index	21, 28
	Index value	23, 30
	Index variable	23, 30
	Interface	17, 29
	Interfaces	13
	Interval	14
	IP address	14
<b>K</b>	Keepalive Monitoring	13
<b>L</b>	LAN	13
	Last change	31
	Level	10
	Local PPP ID (default)	3
	Location	4
	Log host	9, 10
<b>M</b>	Maximum Number of Acctlog Entries	5
	Maximum number of syslog entries	5
	Message level for the syslog table	5
	Method	11
	Mode	28
	Monitored event	22
<b>N</b>	Name/Address	36
	Next index	21
	Notify	31

<b>P</b>	Password settings	33
	Activity Monitor	33
	admin	33
	Ex works state	33
	HTTP server	33
	read	33
	write	33
	Protocol	37
<b>R</b>	Range	16, 18
<b>S</b>	Set value active	30
	Source IP	15
	Start time	25
	Status	26, 31
	Subsystems	9
	Syslog messages	9
	Syslog output on serial console	4
	System name	3
	System time	35
	Accounting	35
	Automatic	35
	Manual	35
	System Time Offset from GMT	36
<b>T</b>	Table	22, 30
	Time and date	35
	Time Update Interval	36
	Timestamp	10
	Trials	14
	Trigger	17
	Type	8, 10, 21
<b>U</b>	Update interval	8
	Update System Time from ISDN	36

<b>V</b>	Value inactive	30
	Variable	22, 30

## Index: External Systems

<b>A</b>	Access Points	3
	Admin. Password	11
	AP MAC Address	8
	Authentisierungsverhandlung	3
<b>C</b>	Calling Party Number	3
	CLID	3
<b>D</b>	Discovery	3
	discovery	7
<b>G</b>	Gateway Address	11
<b>I</b>	Interface	4, 6, 8
	IP Address	10
	IP Status	9
<b>L</b>	Last Change	10
	Last Run	5
<b>N</b>	Netmask	11
	Node Name	10
<b>O</b>	Operation	4, 7, 9
<b>R</b>	Result	5, 10





## Index: AUX

<b>A</b>	Access Point Name (APN)	7
	Active profile	5
	Additional Init Sequence	7
	Analog connections	3
	Analog/GSM interface	3
<b>G</b>	GSM modem	3
<b>I</b>	Incoming Dispatch Item	6
<b>L</b>	Line speed	5
<b>M</b>	Modem	3
	Modem Escape Character	7
<b>P</b>	Profile	5
	Profile configuration	5
<b>S</b>	Serial port	4
	SIM card uses PIN	6



## Index: Ethernet Switch

<b>A</b>	Advanced settings	8, 14
<b>B</b>	Back Route Verify	8, 9, 10
	Bridging	8
<b>D</b>	DHCP Hostname	7
	DHCP MAC address	7
<b>E</b>	Encapsulation	7, 13
	ETH interfaces	3
<b>F</b>	Fast Ethernet	3
<b>I</b>	IP accounting	8, 9, 10
	IP configuration	6, 12, 14
<b>L</b>	Local IP-Number	6, 12
	Local Netmask	6, 12
<b>M</b>	MAC address	7, 12, 13
<b>P</b>	Proxy ARP	8, 9, 10
<b>R</b>	RIP	8, 9, 11
	V1	11
	V2	11
	RIP receive	10
	RIP send	10
	Route	8
	Routing	9
	Routing table	8
<b>S</b>	Second local IP number	6, 12

	Second local netmask	7, 12
<b>V</b>	Virtual interfaces	11
	VLAN ID	8, 13
<b>W</b>	WAN partner	9

## Index: ISDN BRI

<b>B</b>	B-channel 1	7
	B-channel 2	7
	Bearer	11
<b>D</b>	D-channel	6
<b>I</b>	IPSec	12
	ISDN Login	9, 11
	ISDN switch type	5, 6
	Item	10
<b>L</b>	leased dte, dce	6, 7
	Leased line	5
	Licence usage	6
<b>M</b>	Mode	11
<b>N</b>	Number	11
<b>P</b>	Point to multipoint	5
	Point to point	5
	PPP (routing)	9, 11
	PPP 64k	11
	PPP DOVB	12
	PPP V.110 (1200...38400)	12
	PPP V.120	12
<b>R</b>	Result of autoconfiguration	4
<b>S</b>	Specify TEI Value	13
	SPID B-channel 1	7
	SPID B-channel 1+2	7
	SPID B-channel 2	7

<b>X</b>	X.25 over ISDN	12
	X.25 PAD	12
	X.31 TEI Service	14
	X.31 TEI Value	13

## Index: ISDN PRI

<b>B</b>	Bearer	13
	Bundle Id	18
	Bundle Type	17
<b>C</b>	Channels	16
	Configuration	
	Channel Selection	8
	Clock Mode	9
	ISDN Line Framing	7
	ISDN Switch Type	6
<b>F</b>	From Timeslot	17
<b>I</b>	Interface Name	17
	IPSec	14
	ISDN Login	11, 13
	Item	12
<b>M</b>	Mode	13
<b>N</b>	Name	16
	Number	12
<b>P</b>	PPP (routing)	11, 13
	PPP 64k	13
	PPP DOVB	14
	PPP V.110 (1200...38400)	14
	PPP V.120	14

<b>S</b>	Status	
	ISDN Switch Type	4
	Layer 1	4
	Layer 2	5
	License usage	5
<b>T</b>	Timeslots	16
	To Timeslot	18
	Type	16
<b>U</b>	Used x Timeslots	18
<b>X</b>	X.25 over ISDN	14
	X.25 PAD	14
	X.75 Layer 2 Mode	18



## Index: Serial Unit

<b>C</b>	Cable Detection	4
	Connector	5
<b>I</b>	Interface Leads	6
	Interface Type	4
<b>L</b>	Layer 2 Mode	6
<b>S</b>	Speed	5

## Index: WAN Partner

<b>A</b>	Advanced settings	50
	Authentication	11
	Authentication negotiation	11
<b>B</b>	Back Route Verification	51
	Back Route Verify	52
	Bandwidth on Demand (BoD)	22
	Basic IP settings	39
	Bridge	57
	Bridging Mode	57
	<b>C</b>	Callback
Calling Line Identification		7
Channel bundling		16, 18
Closed User Group		36
Compression		6, 7
CUG index		36
<b>D</b>		D-channel queue length
	Default route	39, 42, 43
	Delay after connection failure	16
	Delay after connection failure (sec)	17
	Destination IP address	45, 48
	Destination port	49
	Direction	34
	Dynamic Name Server Negotiation	53, 55
	<b>E</b>	Enable NAT
Encapsulation		5, 6
Encryption		6
Encryption key negotiation		26
Extended interface settings		22
Extended IP routing		46
Extended routing		46

<b>F</b>	Flags	43
<b>G</b>	Gateway IP Address	43
	Gateway IP address	45
	Gear down threshold	25
	Gear up threshold	25
<b>I</b>	Idle for dynamic short hold (%)	17
	IP	39
	IP accounting	51, 52
	IP transit network	41
	ISDN ports to use	35
<b>K</b>	Keepalives	12
<b>L</b>	Layer 1 protocol	16, 17, 21
	Line utilization sample (sec)	24
	Line utilization weighting	24
	Link Quality Monitoring	12
	Local IP address	41
	Local PPP ID	11
	Local PPTP VPN IP Address	43
<b>M</b>	Maximum number of dialup channels	26
	Metric	46, 48
	Mode	24, 27, 48
	More routing	43
<b>N</b>	Netmask	45, 48
	Network	45, 46, 47
	Number	34
<b>P</b>	Partner / Interface	45, 48
	Partner IP address	41
	Partner name	3, 5
	Partner PPP ID	11

PPP password	11
PPPoE Ethernet Interface	27
PPPoE Service Name	27
PPTP VPN Partner's IP Address	42
Pro	43
Protocol	3, 48
Proxy ARP	51, 53, 54
<b>R</b> Remote IP address	42
Remote netmask	42
RIP	50
RIP receive	52, 54
RIP send	52, 54
Route	39
Route announce	51, 53
Route type	45, 47
Routing settings	39
RX Key	26
<b>S</b> Short hold	15
Source interface	48
Source IP address	48
Source mask	48
Source port	49
Special interface types	19
State	3
Static short hold (sec)	17
<b>T</b> TOS mask	48
Total number of channels	18
TX Key	26
Type of Service (TOS)	48
<b>U</b> Use Gateway	42
<b>V</b> Van Jacobson Header Compression via IP Interface	53 42

**W** WAN partner numbers

33

## Index: Security

### Numerics

	3des	52
<b>A</b>	Access restrictions	15
	Action	12, 22, 35
	Address Alias 1 - 10	42
	Admin status	6, 29
	Adminstatus	29
	aes128	52
	aes192	52
	aes256	52
	Alias	36, 38, 40, 41, 42
	arc4	52
<b>B</b>	blowfish	52
<b>C</b>	cast128	52
	Category	10
	Chain	16
	Challenge response	51
	Class ID	35
	Classification	5
	ClientAliveCountMax	49
	ClientAliveInterval	50
	Compression	47
	Connection state	19
<b>D</b>	Day	11
	Deny Silent	24
	Description	18
	Destination	33
	Destination address	19
	Destination mask	19
	Destination port	20

	Dynamic packet filtering	27
<b>E</b>	Expiring date	6
<b>F</b>	Filter	15, 16, 22
	Filter list	8
	Filtered interfaces	6
	First rule	24
	From	11
	Full filtering	30
<b>H</b>	History entries	7
<b>I</b>	ICMP type	36
	Index	18, 22
	Insert behind Rule	22
	Interface	16, 24, 39, 60
	Interface Alias 1	41
	IP access lists	28
	IP address	38, 60
	IP mask	39
	IP range	38
<b>L</b>	Local filter	29
	Logging level	30, 48
	Login Grace Time	49
<b>M</b>	Mask	60
	Max. # of Clients	46
	md5	53
	md5-96	53
	Mode	38
<b>N</b>	NAT	28
	Network access control	15
	Next rule	22

<b>O</b>	Orange filter ticket	6
	Order	22
	Other inactivity timeout	43
<b>P</b>	Password	51
	Port	37
	Port # used for Connections	46
	PPTP inactivity Timeout	43
	Print LastLog	47
	Print Motd	47
	Priority	12
	Protocol	18, 36
	Protocol version	51
	Public key	51
<b>R</b>	Range	37
	Reporting method	25
	ripemd160	53
	Rule chains	21
<b>S</b>	Safety feature	27
	Service	34, 59
	Service Alias 1 - 10	40
	shal	53
	shal-96	53
	SIF	28
	Source	20, 32
	Source address	19
	Source mask	19
	Source port	19, 20
	Specify Port	19
<b>T</b>	TCP inactivity Timeout	43
	TCP Keepalives	49
	Ticket status	6
	To	12



	TOS mask	20
	Type	19
	Type of Service (TOS)	20
<b>U</b>	UDP inactivity Timeout	43
	URL-based content filtering service	5
<b>V</b>	Verify interface	60
	Verify IP address	59
	Verify reverse mapping	47

## Index: PPTP

<b>B</b>	Back Route Verification	34
	Back Route Verify	35
<b>C</b>	Closed User Group	21
	CUG index	21
<b>D</b>	Default route	26
	Delay after connection failure	12
	Destination IP address	28, 30
	Destination port	31, 32
	Direction	19
	Dynamic Name Server Negotiation	36, 37
<b>E</b>	Enable NAT	26
<b>I</b>	IP accounting	34, 35
	ISDN ports to use	20
<b>M</b>	Metric	29, 31
	Mode	31, 32
<b>N</b>	Netmask	29, 30
	Network	28, 30
	Number	18
<b>P</b>	Partner / Interface	29, 31
	Protocol	31
	Proxy Arp	34, 35, 37
<b>R</b>	Remote IP address	26
	Remote netmask	26
	RIP	33
	RIP receive	35, 36
	RIP send	35, 36

	Route announce	34, 35
	Route type	28, 30
	Routing	33
	Routing protocol	33
	Routing table	33
<b>S</b>	Source interface	31
	Source IP address	31
	Source mask	31
	Source port	31, 32
<b>T</b>	TOS mask	31
	Type of Service (TOS)	31
<b>W</b>	WAN partner numbers	17

## Index: IPsec

### Numerics

1 (768-bit MODP)	36, 65
2 (1024-bit MODP)	36, 65
3DES	31, 45, 59, 75
5 (1536-bit MODP)	36, 65

### A

A	6
abort	103
ACTION	14
Action	8, 49, 50, 55
Admin Status	12
Admin status	15
aggressive	37, 66
aggressive-only	37, 67
AH (Authentication Header)	44, 74
Algorithm	80
Alive Check	29, 42, 58, 72
Authentication method	58
auto/base64/binary	91
Autodetect	39, 68
Autosave	83
Available encryption and message hash algorithms	31

### B

Block time	58
Blowfish	31, 45, 59, 75

### C

CA certificate	84
CA certificates	40, 58, 69
CA domain	84
CAST	31, 45, 59, 75
CEA	113
Certificate authority certificates	88
Certname	85
clear config	102
Combination of encryption and message hash algorithms for IKE phase 1	30

	Cookies size	99
	CRL	40, 69
	CRLs	94
<b>D</b>	Dead Peer Detection	38, 68
	Dead-Peer-Detection (DPD)	39, 68
	Dead-Peer-Detection (DPD), Idle Mode	39, 68
	default	37, 66
	DES	31, 45, 59, 75
	Description	7, 12, 15, 48, 54, 57, 80, 88, 89
	Description (Idx 0)	42
	Description (Idx 1)	71
	dhcp	9, 50, 56
	Direct ISDN call	18
	DN	86
	DNS	86
	Don't Send Cert Chains	98
	Don't Send Cert Req Payl.	98
	Don't Send CRLs	98
	Don't Send Initial Contact	98
	Don't Send Key Hash Payl.	98
	DPD Triggered	39, 68
	drop	50
	DSA signatures	36, 65
	dump messages	102
	DynDNS service	18
<b>E</b>	Email	86
	Enable IPsec	4
	ESP (Encapsulated Security Payload)	44, 74
<b>F</b>	Filename	85
	First active rule	6
	Flags	88
	force Comp	45, 75
<b>G</b>	Group	58

<b>H</b>	Heartbeats	38, 67
	host	8, 49, 55
<b>I</b>	ID Protect Mode	21
	id_protect	37, 66
	id-protect-only	37, 66
	Ignore Cert Req Payloads	97
	IKE (Phase 1) defaults	4
	Import a certificate/CRL using	90
	In	113
	Incoming ISDN number	19
	Interface IP Settings	17
	Interoperability flags	97
	IP	86
	IP address transfer	22
	IPComP	44, 74
	IPsec (Phase 2) defaults	4
	ISDN callback	19
<b>K</b>	Key size (bits)	81
	Key to enroll	82
<b>L</b>	Lifetime	42
	Lifetime Policy	34, 42, 58, 63, 71
	Local	112
	Type	7, 48, 54
	Local Address	12
	Local address	5
	Local certificate	58
	Local ID	58, 111
	Local/Remote	
	Type	49, 55
	LPort	112
<b>M</b>	M/R	6
	Max. Symmetric Key Length	99

MD5	46, 76
MD5 (Message Digest #5)	31, 60
Messages	13
Method	83
Method of operation	21
Mode	58
Modifying IKE and IPSec settings	26
MODP	35

<b>N</b> Name	91
Nat-Traversal	30, 58
net	8, 49, 55
no Comp	45, 75
NONE	86
NULL	45, 46, 75, 77

<b>O</b> Oper Status	12
Out	113
Outgoing ISDN number	19
Own certificates	88
own/peer	9, 50, 56

<b>P</b> Packets in	109
pass	50
Password	83
peer	9, 50
Peer address	15
Peer certificates	88
Peer IDs	16
Peers blocked	108
Peers dormant	108
Peers up	108

Phase 1	
Alive Check	38, 67
Authentication method	36, 65
Group	35, 64
Lifetime Policy	61
Local certificate	39, 69
Local ID	39, 68
Mode	37, 66
NAT Traversal	40
Proposal	30, 59
Phase 2	
Lifetime	46, 77
Proposal	43, 73
PKCS#12 support	91
Please enter certificate data	91
Port	6
Preshared key	16
Preshared keys	36, 65
Profile	49
Propagate PMTU	43, 73
Proposal	6, 58, 71
protect	51
Proto	6
Protocol	7, 48, 54
Pto	112
<b>R</b>	
RA-Certificate (Encrypt)	87
RA-Certificate (Sign)	87
RADIUS authentication	99
range	9, 50, 56
Registration Authority Certificates	86
Remote	112
Type	8, 48, 54
Remote Address	12
Remote address	6
Remote ID	110
Remote IP	110



Request cert	81
RID	86
Rijndael	31, 45, 59, 75
RipeMD 160	32, 60
RPort	112
RSA encryption	36, 66
RSA Public Exponent	81
RSA signatures	36, 65

<b>S</b> SAs Phase 1	13
SAs phase 1	108
SAs Phase 2	13
SAs phase 2	109
Serial no.	88
Server	85, 91
Setup Tool Wizard	3
SHA1	46, 76
SHA1 (Secure Hash Algorithm #1)	32, 60
Signing Algorithm to Use	85
skip	103
Special Peer Type	27
start (wizard)	103
Start Mode	27
Start of IKE phase 1 negotiation	22
State of last enrollment	84
Step 1 (NAT settings)	103
Step 2 (creation of proposals)	103
Step 3 (define authentication method)	103
Step 4 (request certificate)	104
Step 5 (own certificate)	104
Step 6 (CA certificate)	104
Step 7 (CRL server / peer certificate)	104
Step 8 (peer)	105
Step 9 (peer traffic / peer interface)	105
Subject Alternative Names	85
Subject Alternative Names – Type	85
Subject Alternative Names – Value	85

	Subject Alternative Names (optional)	84
	Subject name	84, 88
	Sync SAs With Local Ifc	99
<b>T</b>	TARSEH	110, 111
	The IPsec Wizard step by step	103
	Tiger 192	32, 60
	Traffic List Settings	17
	Trust ICMP Messages	98
	Twofish	31, 45, 59, 75
	Type	86
	Type of certificate	89, 90
<b>U</b>	URI	86
	Use PFS	42, 47, 71, 77
	Use Zero Cookies	99
<b>V</b>	View proposals	32, 43, 61
	Virtual interface	17
<b>W</b>	What to do?	102



## Index: IP

<b>A</b>	Action	46
	Add Routing Entry	5
	ADDEXT	8
	Address	78, 81, 110
	Admin Status	106
	Administrative Status	70
	Advertise Matching	111
	Alias Name (Description)	33
	Alive Check (if inactive)	65
	Alive Test Period (seconds, 0=disabled)	53
	Area ID	106, 109
	Area Range	110
	Authentication Key	107
	Authentication Type	107
<b>B</b>	Bandwidth Management	27
	Bandwidth on Demand	27
	Block Time (seconds)	69
	BOD	27
<b>C</b>	Cache Hitrate (%)	84
	Cache Hits	84
	Chain	41
	Client / Server	59
	Client Identifier	52
	Connection State	43
	Control all TCP Services	32
<b>D</b>	Default Domain	78
	Default Domains	79
	Default Interface	76
	Default Route distribution	94
	Default User Password	62
	Description	16, 34, 42

Destination Address	43, 44
Destination IP Address	6
Destination Mask	44
Destination Port	9, 10, 44
DHCP Assignment	76
Dialout	65
Direction	46, 99
Distribution	99
Distribution Fraction (in percent)	36
Distribution Mode	35
Distribution Policy	35, 36
Distribution Ratio	35
DNS	11, 73
DNS Proxy	11
DNS Requests	84
Domain Name	11
Domain Name Server	11, 73
Dynamic Cache	77
DynDNS Registration	85
<b>E</b> Edit Routing Entry	5
Encryption (recommended)	69
Export indirect static routes	107
Extended Routing	8
External Address	17
External Mask	17
External Port	18
<b>F</b> Filter	41, 46
First Rule	48
Flags	5
Forwarded Domains	77
Forwarded Requests	84
<b>G</b> Garbage Collection Timer	96
Gateway	53
Gateway IP Address	7

	Generate Default Route for the AS	103
<b>H</b>	Hold down timer	96
	Host Name	86
	HTTP TCP Port	12
<b>I</b>	Ignore	7
	Import external routes	109
	Index	42, 45
	Insert behind Rule	45
	Interface	30, 41, 48, 51, 80, 86, 98
	Interface 1 - 3	36
	Interface Group ID	35
	Interface Index	25
	Interface Name	25
	Internal Address	18
	Internal Mask	18
	Internal Port	19
	Internet Gateway Device (IGD)	21
	Invalid DNS Packets	84
	IP Address	49, 52, 62, 98
	IP Address Pool LAN (DHCP)	51
	IP Address Pool WAN (PPP)	49
	IPCP Assignment	76
<b>L</b>	LAN	7, 40
	LAN UPnP client	21
	Lease Time (Minutes)	52
	Load Balancing	27
	Local	8
	Local Nameservers	79
	Login Authentication/Authorization	70
<b>M</b>	MAC Address	52
	Mask	110
	Maximum Number of DNS Records	82
	Maximum TCP Download Rate (kbits/s)	31

Maximum TTL for Neg Cache Entries	83
Maximum TTL for Pos Cache Entries	83
Metric	7, 107
Metric Determination	106, 108
Metric1 offset on interface dormant	100
Metric1 offset on interface up	99
Minimum Wait	89
Mode	9, 10
MX	87

<b>N</b> Name	78, 79, 81, 88
Name Resolution	73
Negative Cache	75
NetBT Node Type	53
Netmask	6, 98
Network	6
Network Address Translation	14
Next Rule	46
Number of Channels	46
Number of Consecutive Addresses	49, 52

<b>O</b> Optimize Download Rate via TCP ACK prioritisation	30
OSPF	91, 103
Overwrite Global Nameservers	76

<b>P</b> Partner / Interface	7
Password	62, 86
Path	88
Permission	87
Poisoned Reverse	94
Policy	63, 68
Pool ID	49
Port	63, 88
Positive Cache	75
PPP Authentication	70
PPTP Passthrough	14
Primary BOOTP Relay Server	12

Primary Domain Name Server	11
Primary WINS	11
Priority	63, 67, 99
Propagate Routes on discard/refuse interfaces	104
Protocol	9, 17, 42, 62, 89
Provider	87
<b>R</b> RADIUS packets	60
Received DNS Packets	84
Ref	81
Refuse	7
Remote Address	17
Remote CAPI Server TCP Port	12
Remote Mask	17
Remote Port	17
Remote TRACE Server TCP Port	12
Resp	81
Response	78
Retransmission timer	97
Retries	64
RFC 2091 variable timer	95
RFC 2453 variable timer	94
RIP	91
RIP UDP Port	12
Route Timeout	96
Route Type	6
Routing Protocols	91
Rule	41
<b>S</b> Secondary BOOTP Relay Server	12
Secondary Domain Name Server	11
Secondary WINS	11
Server	88
Server Failures	84
Server's IP Address or Hostname	67
Service	16
Service Control Point	21



Silent Deny	14
SNMP	55
SNMP listen UDP port	56
SNMP trap broadcasting	57
SNMP trap community	57
SNMP trap UDP port	57
SNMP versions	56
Source Address	43
Source Interface	9
Source IP Address	9
Source Mask	9, 43
Source Port	9, 10, 43
Specify Port	43
State	64
Static Hosts	76
Status	33
Successfully Answered Queries	84

<b>T</b> TACACS+ Accounting	70
TACACS+ Key (Secret)	68
TACACS+ Single-Connection	71
TCP Port	68
TCP port number for UPnP	23
TCP Service Port	33
TDRC Mode	31
Timeout (ms)	63
Timeout (seconds)	69
TOS Mask	9, 44
TTL	78, 80, 81
Type	43, 52
Type of Service (TOS)	9, 44

<b>U</b> Unique Source IP Address	12
Universal Plug and Play (UPnP)	21
Update Timer	96
UPnP Client Requests	25
UPnP status	23

	UPnP-controlled Interface	26
	User	86
<b>V</b>	Validate	64
<b>W</b>	WAN with transit network	7, 40
	WAN without transit network	7, 40
	Wildcard	87
	WINS	11



## Index: Frame Relay

<b>A</b>	Advanced settings	25
<b>B</b>	Back Route Verification	26
	Back Route Verify	27
	Basic IP settings	16
<b>D</b>	Default route	18
	Destination IP address	20, 23
	Destination port	24
<b>E</b>	Enable NAT	17
	Extended IP routing	21
	Extended routing	21
<b>F</b>	Flags	18
<b>G</b>	Gateway IP address	20
<b>I</b>	IP accounting	26, 27
	IP transit network	17
<b>L</b>	Local IP address	17
<b>M</b>	Metric	21, 23
	Mode	23
	More routing	18
<b>N</b>	Netmask	20, 23
	Network	20, 21, 22
<b>P</b>	Partner / Interface	20, 23
	Partner IP address	17
	Pro	18

	Protocol	23
	Proxy ARP	26, 28, 29
<b>R</b>	Remote IP address	18
	Remote netmask	18
	RIP	25
	RIP receive	27, 28
	RIP send	27, 28
	Route	16
	Route announce	26, 28
	Route type	20, 22
<b>S</b>	Source interface	23
	Source IP address	23
	Source mask	23
	Source port	24
<b>T</b>	TOS mask	23
	Type of Service (TOS)	23
<b>V</b>	Van Jacobson Header Compression	28

## Index: PPP

<b>A</b>	Authentication Negotiation	3
	Authentication Protocol	4
<b>C</b>	Calling party number	3
	CHAP	4
	CLID	3, 5
<b>L</b>	Link Quality Monitoring	5
<b>M</b>	MS-CHAP	4
<b>P</b>	PAP	4
	PPP Link Quality Monitoring	5
	PPPoE Ethernet Interface	6
<b>R</b>	RADIUS	5
	Radius Server Authentication	5



## Index: BRRP

<b>A</b>	Advertisement Interface	23
	Advertisement Interval	24
	Advertisement Interval Errors	29
	Advertisements Received	29
	Authentication Errors	29
	Authentication Key	25
	Authentication Type	25
	Authentication Type Mismatch	29
<b>B</b>	Backup	17
	Become Master	29
	BRRP states	15
<b>C</b>	Checksum Errors	29
<b>I</b>	Initialize	16
	Invalid Authentication Type	29
	Invalid Type Packets Received	29
	IP Address Owner	5
	IP TTL Errors	29
<b>M</b>	MAC address	6, 23
	Master	18
	Master Action	12
	Master Down Interval	24
	Master Interface	13
	Master Interface Protocol	11
	Master IP-Address	23
<b>P</b>	Packet Length Errors	29
	Pre-empt Mode	25
	Primary IP Address	5
	Priority	23



<b>R</b>	Redundant network environment	3
	RFC 2338	3
	Router redundancy procedure	3
<b>S</b>	Slave Admin Action	14
	Slave Interface	15
	Slave Interface Protocol	13
<b>T</b>	Task ID	10
<b>V</b>	Version Errors	29
	Virtual Interface	23
	Virtual Router	3, 5
	Virtual Router Backup	5
	Virtual Router ID	12, 15, 22, 28
	Virtual Router Master	5
	Virtual Router State	22, 28
	VRRP Advertisement	5
	VRRP Router	4
<b>W</b>	Watchdog Daemon	6, 9

## Index: CREDITS

<b>C</b>	Charges	3
	Credits Based Accounting System	3
<b>I</b>	ISDN Credits	5
	isdnlogin	5
<b>M</b>	Maximum Charge	7
	Maximum Number of Current Incoming Connections	8
	Maximum Number of Current Outgoing Connections	8
	Maximum Number of Incoming Connections	7
	Maximum Number of Outgoing Connections	7, 10
	Maximum Time for Incoming Connections (sec)	7
	Maximum Time for Outgoing Connections (sec)	7, 10
<b>P</b>	Measure Time (sec)	6, 9
	ppp	5
	PPPoE	9
<b>S</b>	Surveillance	6, 9
	Syslog messages	3
<b>X</b>	xDSL	9



## Index: CAPI

<b>C</b>	CAPI	4
<b>N</b>	Name	4
<b>P</b>	Password	4



## Index: QoS

<b>A</b>	Action	11
<b>B</b>	Bound Transmit Rate (Shaping)	24
<b>C</b>	Class	23
	Class ID	12, 23
	Class Type	12
	Classification of IP Packets	9
	Congestion Avoidance Algorithm	25
	Connection State	7
<b>D</b>	Description	6
	Destination Address	7
	Destination Mask	7
	Destination Port	8
	Direction	10
	Dropping Algorithm	26
<b>F</b>	Filter	10
<b>I</b>	Index	6, 10
	Insert behind Rule	11
	Interface	18
	IP QoS Classification via	18
<b>L</b>	Lower Queue Threshold (Bytes)	26
<b>M</b>	Maximum Burst Size (Number of Bits)	14
	Maximum Burst Size (Number of Packets)	14
	Maximum Rate (Bits per Second)	14
	Maximum Rate (Packets per Second)	14
	Maximum Transmit Rate (Bits per Second)	22
	MLPPP Fragment Size	19

	MLPPP Interleave Mode	19
<b>N</b>	Next Rule	11
<b>P</b>	Priority	25
	Protocol	6
<b>Q</b>	Queuing and Scheduling Algorithm	20
<b>S</b>	Set Remark Type of Service (TOS) Field	15
	Set Type of Service (TOS) Field	13
	Shaping Algorithm	25
	Source Address	7
	Source Mask	7
	Source Port	7, 8
	Specify Port	7
	Specify ToS Set Exceed Action	14
	Specify ToS Set Rate Limitation	13
	Specify Traffic Shaping	21
<b>T</b>	TOS Mask	8
	Transmit Rate (Bits per Second)	24
	Transmit Rate Burst	24
	Type	7
	Type of Service (TOS)	8
<b>U</b>	Upper Queue Threshold (Bytes)	26
<b>W</b>	Weight	24

## Index: VoIP

<b>H</b>	H.323 standard	3
<b>P</b>	Proxy Settings	6
<b>R</b>	Real-time behavior	3
<b>V</b>	Voice and video transmission	3





## Index: GRE

<b>G</b>	Generic Routing Encapsulation	3
	GRE Local IP Address	4
	GRE Partner's IP Address	4
	GRE V.0	3
	GRE V.1	3
<b>K</b>	Key Used	5
<b>M</b>	Mtu	5
<b>N</b>	Name	4
<b>P</b>	Partner's LAN IP Address	4
	Partner's LAN IP Mask	4
<b>V</b>	Value	5
	Virtual Interface	3



## Index: L2TP

<b>D</b>	Data Packets Sequence Numbers	12
<b>H</b>	Hello Interval	12
<b>L</b>	LAC	3, 8
	Layer 2 Tunneling Protocol	3
	LNS	3, 5, 8
	Local Hostname	9
	Local IP Address	9
	Local UDP Port (LAC only)	9
<b>M</b>	Maximum Retry Count	13
	Maximum Time Between Retries	12
	Minimum Time Between Retries	12
<b>P</b>	Port usage for LNS mode	5
	PPP over L2TP (LAC mode)	3
	PPP over L2TP (LNS mode)	3
	Profile Name	8
<b>R</b>	Remote Hostname	11
	Remote IP Address - backup (LAC only)	10
	Remote IP Address (LAC only)	10
	Remote IP addresses through Radius (LAC only)	10
	Remote UDP Port (LAC only)	10
<b>S</b>	SCCRPs	9
	SCCRQs	9
<b>T</b>	Tunnel Password	11
	tunnel profiles	7
<b>U</b>	UDP port number for LNS mode	5



# Index: Configuration Management

<b>B</b>	boot	3
	Boot configuration file	3
<b>C</b>	Configuration information	3
<b>F</b>	Flash	3
	Flash EEPROM	3
<b>N</b>	Name in Flash	4
	New Name in Flash	4
<b>O</b>	Operation	4, 5
	Operations	3
<b>R</b>	RAM	3
<b>S</b>	Start Operation	5
	State of last operation	4
<b>T</b>	TFTP File Name	4
	TFTP Server	3
	TFTP Server IP Address	4
	Type of last operation	4
<b>U</b>	Unix	3
<b>W</b>	Windows	3



## Index: Monitoring and Debugging

<b>A</b>	Active Connections	14
	Admin Status	36
	Adminstatus	19
	ADSL	4
	Advertisement Interval Errors	59
	Advertisements Received	59
	Age	39
	Area	38
	ATM Interface	41
	ATM/OAM	4
	Authentication Errors	59
	Authentication Type Mismatch	59
<b>B</b>	Backup Designated Router (BDR)	36
	Become Master	59
	BRRP	4
<b>C</b>	CEA	33
	Charge	10
	Checksum Errors	59
	Class	64
	Compress	22
	Contents	21
	Corrected blocks	51
	CRC anomalies	55
	Current attenuation	50
	Current loop attenuation	55
	Current noise margin	50
	Current output power	50
	Current SNR margin	55
	Current status	50, 54, 55
<b>D</b>	Designated Router (DR)	36
	Dropped Octets	67



	Dropped Packets	67
	Duration	14
<b>E</b>	Email Alert	19
	End to end	45, 48
	Errored seconds (ES)	50, 55
	EXTENDED	14
<b>F</b>	Framing (LOF)	50
<b>I</b>	In	33
	InOctets	66
	InPkts	66
	Interface	35, 37, 61
	Interface Name	13
	Interfaces	3, 13, 35
	Invalid Authentication Type	59
	Invalid Type Packets Received	59
	IP QoS	4
	IP TTL Errors	59
	IPSec	4
	ISDN Credits	3, 9
	ISDN Monitor	3, 5
<b>L</b>	Last Error	20
	Level	21
	Link State ID	38
	Local	32
	Local ID	31
	Loss of sync word (LOSW) seconds	55
	LPort	32
	LSDB	38
<b>M</b>	max. Mails/min	20
	Maximum Transmit Rate	62
	Messages	3, 17, 22

<b>N</b>	Neighbor	37
	Nominal Transmit Rate	61
	Number of Current Connections	10
	Number of Current Incoming Connections	10
	Number of Current Outgoing Connections	10
	Number of Incoming Connections	9
	Number of Outgoing Connections	10, 11
<b>O</b>	OctetsDropped	66
	Octs	65
	Operation	14
	Operational Status	13, 41, 44, 47, 61
	Originator	20
	OSPF	4, 35
	Out	33
	OutOctets	66
	OutPkts	66
<b>P</b>	Packet Length Errors	59
	Packets in	29
	Peers blocked	28
	Peers dormant	28
	Peers up	28
	Pkts	65
	PktsDropped	66
	Power (LRP)	50
	Pto	32
<b>Q</b>	Queued Octets	67
	Queued Packets	67
<b>R</b>	Received blocks	50, 55
	Received Errors	14, 42
	Received Octets	14, 41, 62
	Received Packets	13, 62
	Receiver	21

Remote	32
Remote ID	30
Remote IP	30
Retx Queue	37
Router ID	37, 39
RPort	32
RX Rate (Kb/s)	41
<b>S</b>	
SAs phase 1	28
SAs phase 2	29
Segment	45, 48
Select subsystems	22
Sequence	39
Severely errored seconds (SES)	55
SHDSL	4
Signal (LOS)	50
SMTP Server	20
SSHD	4
START OPERATION	14
State	36, 37, 38
<b>T</b>	
TARSEH	30, 31
TCP/IP	4, 25
Time for Outgoing Connections (sec)	11
Time of Incoming Connections	10
Time of Outgoing Connections	10
Time till end of measure interval (sec)	9, 11
Timeout	21
TOS	66
Transmit Discards	42
Transmit Errors	14, 42
Transmit Octets	14, 42, 62, 67
Transmit Packets	14, 62, 67
Transmitted blocks	50, 56
TX Rate (Kb/s)	42
Tx rate (Kb/s)	50
Type	38

<b>U</b>	Unavailable seconds (UAS)	55
	Uncorrect blocks	51
<b>V</b>	Vendor ID	49
	Version Errors	59
	Version Number	49
	Virtual channel connection (VCC)	46
	Virtual path connection (VPC)	43
	Virtual Router ID	58
	Virtual Router State	58
<b>X</b>	xDSL Credits	3, 11

