Index

A

abort command
description A-2
diagnostics A-3
examples A-2
Address Resolution Protocol
See ARP
addresses
IP 2-5
link-layer and IP 3-26
subnetting 2-7
allow filter 3-19
analyzing the quality of links 4-7
ARP
cache 3-26
mapping addresses 3-26
proxy routers 3-26
See also link-layer addresses
arp add subcommand 3-26, A-4
arp command
description A-4
diagnostics A-6, A-127
examples A-5
arp drop subcommand A-5
arp flush subcommand A-5
arp publish subcommand 3-26, A-5
arp reset subcommand A-5
arp reverse subcommand A-5
Assigning Multiple IP Addresses 3-14
associated networks, identifying 3-17
diagnostics A-7
examples A-7
channel
See radio channel
checking the log 4-4
close command
description A-9
diagnostics A-9
examples A-9
commands
monitoring, table 4-2
TALnet, table A-1
configuration file
opening from console 3-7
opening remotely 3-8
reloading from console 3-32
reloading remotely 3-33
sample 3-1
configuration overview
TALnet software 3-5
configuring your router
overview 3-5
planning 2-1
worksheet 2-12
console
See service console
conventions, in document xvi
copy command
description A-10
diagnostics A-10
examples A-10

d
delete command
description A-12
diagnostics A-12
examples A-12
Index 3

hop maxwait subcommand    4-5, A-39
hop queries subcommand    A-39
hop trace subcommand    A-39
hostname
determining    2-1
setting    3-9
hostname command
description    3-9, A-41
examples    A-42
icmp command
description    A-43
examples    A-44
icmp echo subcommand    A-43
icmp status subcommand    A-43
icmp trace subcommand    A-44
If    3-12
iface command
description    A-45
diagnostics    A-50
examples    3-14, A-49
iface config subcommand    3-14, A-45
iface create subcommand    A-48
iface delete subcommand    A-48
iface kill subcommand    A-48
iface make subcommand    3-13, A-49
iface show subcommand    A-49
interfaces
and devices    3-13
configuration example    3-14
configuration overview    3-13
configuring existing    3-14
creating    3-13
IP
addresses
and DNS names    2-8, 3-15
class formats    2-5
Ethernet interface
overview    3-15, A-45
wireless interface    3-11, A-104
filtering packets    3-24–3-26
multiple    3-14
ip command
description    A-52
examples    A-54
ip filter subcommand    3-24, A-52
ip pool subcommand    A-54
ip rtimer subcommand    A-54
ip status subcommand    A-54
ip ttl subcommand    A-54

K
key authentication    3-21
key command
description    A-56
examples    A-57
key config subcommand    3-21, A-56
key create subcommand    3-21, A-56
key delete subcommand    3-22, A-57
key sequences
console connections    3-7
Telnet connection    3-8
kick command
description    A-58
diagnostics    A-59
examples    A-58
L
link quality
testing    4-7
testing for TCP traffic    4-9
testing for UDP traffic    4-7
viewing information on radio links    4-10
link-layer acknowledgments    A-115
link-layer addresses
Ethernet interface    3-26
mapping to IP addresses    3-26
wireless interface    2-2
See also ARP
loadgen command
description    4-7, A-60
examples    A-60
log command
description    A-61
examples    A-61
log console subcommand    A-61
log -f subcommand    A-61
log session subcommand    A-61
log stop subcommand    A-61
log, checking    4-4
logging on after user authorization is set    3-5
logout command
description    A-63
example    A-63

M
Management Information Base
See MIBs
memory command
  description A-65
  examples A-66
memory freelist subcommand A-65
memory ibufsize subcommand A-65
memory nibufs subcommand A-66
memory sizes subcommand A-66
memory thresh subcommand A-66
MIBs
  and SNMP 4-12
  supported 4-12
  TALnet proprietary B-1
mkdir command
  description A-67
  diagnostics A-67
  examples A-67
monitoring
  and SNMP 4-11–4-13
  list of commands 4-2
  ping 4-4
  traceroute 4-5
Multiple IP Addresses 3-14
multiple IP addresses 3-14

N

neighbor address identification 3-19
neighbors, identifying 3-17
network
  monitoring 4-1
  supported applications 1-2

O

output power
  See power level

P

packets
  filtering examples 3-25
  filtering on addresses 3-25
  filtering on type 3-24
  filtering overview 3-24
per-link power
  example 3-12
  setting 3-12
physical addresses
  See link-layer addresses
ping command
  changing length 4-5
description A-68
examples A-69
sending multiple 4-5
sending single 4-4
ping facility, testing system 4-4
PN code
  determining 2-5
  setting 3-11
power level
  determining 2-3
  setting default 3-11
  setting per link 3-12
  table 2-4, A-107
process check subcommand A-71
process command
  description A-71
  examples A-72
process status subcommand A-71
process trace subcommand A-71
proprietary MIB
  channel table B-9
  general definitions B-1
  local variables B-2
  neighbor table B-5
  product section B-2
  radio table B-3
  sample B-1–B-11
pseudorandom noise code
  See PN code
pwd command
  description A-74
  examples A-74

R

radio channel, configuring 3-11
radio parameters
  configuration example 3-12
  configuring 3-10
  determining 2-2
reboot command
  description A-75
  examples A-75
received signal strength
  See RSS
rename command
  description A-77
  diagnostics A-77
  examples A-77
repeat command
  description A-79
  examples A-79
Requests For Comments
  See RFCs
reset command, description A-80

RFCs
  list of xvi
  RFC 1058  2-10
  RFC 1155  4-12
  RFC 1166  2-6
  RFC 1212  4-12
  RFC 1213  4-12
  RFC 1354  4-12
  RFC 1443  4-12
  RFC 1573  4-12
  RFC 1723  2-11
  RFC 1724  4-12

RIP
  description 2-10
  modifying neighbor table 3-18
  sample routing table 2-11
  rip accept subcommand A-82
  rip add subcommand 3-18, A-83
  rip classless subcommand A-83
  rip command
    description A-82
    diagnostics A-84
    examples A-84
  rip drop subcommand A-83
  rip merge subcommand A-83
  rip refuse subcommand A-84
  rip request subcommand A-84
  rip status subcommand A-84
  rip trace subcommand A-84
  rmdir command
    description A-86
    diagnostics A-86
    examples A-86
  route add subcommand 3-17, A-88
  route addprivate subcommand 3-17, A-89
  route command
    description A-88
    diagnostics A-89
    examples A-89
  route drop subcommand A-89
  route flush subcommand A-89
  route lookup subcommand A-89
  router configuration
    blank worksheet 2-13
    planning 2-1
    sample worksheet 2-14
  routing
    associated networks 3-17
    dynamic 2-10, 3-17
    static 2-10, 3-17
    tables
      adding default 3-17
      adding static 3-17
      overview 2-10

Routing Information Protocol
  See RIP

RSS
  analyzing 4-5
  displaying 4-6
  See also per-link power

S
  security
    enabling for wireless neighbors 3-18
    key authentication 3-21
    neighbor address identification 3-19
    user authorization 3-22
  serial console
    See service console
  service console
    and xvi editor C-1
    displaying network statistics 4-2
    key sequences, table 3-7
  session command, description A-90
  signal strength
    See RSS
  Simple Network Management Protocol
    See SNMP

SNMP
  community strings 2-2
  overview 4-11
  sending requests 4-13
  supported MIBs 4-12
  supporting 4-12
  variables
    system contact 2-2, 3-9
    system location 2-2, 3-9
  snmp command
    description A-92
    examples A-94
  snmp community add subcommand 4-12, A-93
  snmp community delete subcommand A-93
  snmp community show subcommand A-93
  snmp syscontact subcommand 3-9, A-94
  snmp syslogsubcommand 3-9, A-94
  software configuration, overview 1-2
  spreading code
    See PN code
  start command, description A-95
  start discard subcommand A-95
  start echo subcommand A-95
  start ftp subcommand A-95
  start rip subcommand A-96
  start snmp subcommand 4-12, A-96
  start telnet subcommand A-96
  static routing 2-10, 3-17
  statistics, displaying 4-2
stop command, description A-97
stop discard subcommand A-97
stop echo subcommand A-97
stop ftp subcommand A-97
stop rip subcommand A-97
stop snmp subcommand A-98
stop telnet subcommand A-98
subnet masks
determining 2-7
overview 2-6
subnetting
See subnet masks
system contact
defining 3-9
system location
defining 3-9
system prompt, setting 3-9
system, testing connectivity 4-4

talk debug all subcommand A-99
talk debug command, description A-99
talk debug errors subcommand A-99
talk debug events subcommand A-99
talk debug neighbors subcommand A-99
talk debug packets subcommand A-99
talk debug quality subcommand A-100
talk debug states subcommand A-100
talk radio address subcommand 3-12, A-102
talk radio analyze subcommand 4-6, A-103
talk radio channel subcommand 3-11, A-103
talk radio command
description A-101
diagnostics A-108
examples A-106
talk radio ip-address command 3-11, A-104
talk radio neighbor allow subcommand A-104
talk radio neighbor disallow subcommand A-104
talk radio neighbor hear subcommand A-105
talk radio neighbor ignore subcommand A-105
talk radio neighbor MW subcommand 3-12, A-105
talk show allowfilters subcommand A-111
talk show command
description A-111
examples A-113
talk show debug subcommand A-111
talk show ignorefilters subcommand A-111
talk show neighbors subcommand A-112
talk show quality command 4-10
talk show quality subcommand A-112
talk show radio subcommand A-112
talk show rss subcommand 4-6, A-112
talk show timers subcommand A-112
talk tune acks subcommand A-115
talk tune command A-115
TALnet software
commands, table A-1
configuration overview 1-2, 3-5
monitoring commands, table 4-2
standard application support 1-2
standard network protocols 1-2
TALtalk overview 1-1
talnet.cfg
See configuration file
TALtalk protocol, overview 1-1
tcp ceiling subcommand A-116
tcp command
description A-116
examples A-119
tcp floor subcommand A-116
tcp irtt subcommand A-117
tcp kick subcommand A-117
tcp limit subcommand A-117
tcp mss subcommand A-117
tcp reset subcommand A-118
tcp rtt subcommand A-118
tcp status subcommand A-118
tcp syndata subcommand A-118
tcp trace subcommand A-118
tcp window subcommand A-119
telnet command
description A-121
telnet, key sequences, table 3-8
time command
description A-122
tip command
description A-123
trace ascii subcommand A-126
trace broadcast subcommand A-126
trace command
description A-125
trace hex subcommand A-126
trace input subcommand A-125
trace off subcommand A-125
trace output subcommand A-125
trace raw subcommand A-126
traceroute, testing network 4-5
transmission frequency
determining 2-3
setting 3-11
table 2-3, A-106
two radio configuration
Configuring Radio Parameters 3-10
two-radios
  configuring 3-10

U

udp command
  description A-128
  examples A-129
UDP packet generator keys 4-8
UDP packet receiver keys 4-9
udp receive command
  description 4-7
udp receive subcommand A-128
udp send subcommand A-128
upd send command
  description 4-7
uptime command
  description A-130
  example A-130
user authorization 3-22
user command
  description A-131
  examples A-133
user config subcommand 3-22, A-132
user create subcommand 3-22, A-132
user delete subcommand A-132
user kill subcommand A-132
user make subcommand A-133
user show subcommand A-133
users
  adding 3-22
  authorization flags 2-12, 3-22, A-131, A-132
  changing authorization options 3-22
  defining 2-12
  defining authorization 3-22

V

version command
  description A-134
  examples A-134
view command
  description A-135
  examples A-135
view session, navigating, table A-135
viewing information on radio link quality 4-10

W

who command
  description A-136
wireless interface
  configuration example 3-12
  configuring 2-2, 3-10
  IP address 3-11, A-104
  link-layer address 2-2
  PN code 2-5
  power level 2-3
  transmission frequency 2-3
wireless neighbor security 3-18
worksheet
  configuration 2-12

X

xvi editor, using C-1–C-3