



## INDEX

---

### A

access, node 4  
accessing  
    MWTM web browser 24  
    accounting FAQs 16  
address  
    information 8  
address tables 1  
editor  
    launching 2  
    startup options 2  
    files  
    basic information 15  
    creating 5  
    deploying 15  
    loading, from file 6  
    loading, from ITP 8  
    reverting 20  
    saving 18  
semantics 14  
working 10  
listing 15  
menu 3  
properties  
    editing 13  
administrative page  
    displaying 1  
alarm filter  
dialog buttons 13  
loading 19  
saving 20  
setting 12  
alarms  
displaying 3, 19  
right-click menu 11  
viewing 41  
application server  
    tabs 15  
application server process  
    tabs 15  
application server process association  
configuration  
    general information 10  
    tabs 16  
application server process associations  
    table 29  
application server processes  
    export files, daily 243  
    table 28  
application servers  
configuration  
    associations 9  
    export files, hourly 243  
reports  
    daily 242  
    hourly 242  
    statistics details window 73  
    table 25  
AS  
    accounting reports 210  
    ASP accounting reports 210  
asterisks  
FAQs 16  
attaching notes 54  
audience  
    document xxxviii

---

**B**

backup  
  MWTM files 30  
  secondary server 9  
basic object functions  
  understanding 1  
browser  
  FAQs 6  
BWG  
  traps 23

---

**C**

capacity planning  
  FAQs 21  
card  
  naming information 16  
  table 36  
  tabs 18  
changing  
  client preference, settings 1  
  poller settings 2  
  web preference, settings 1  
charts  
  settings, changing 11  
CiscoWorks  
  integrating with MWTM 36  
  SNMP 1  
client  
  disconnect sound 25  
  preferences, changing 1  
client A configuration  
  MWTM 13  
client B configuration  
  MWTM 14  
client, MWTM  
  access, limiting 29  
  connection timer 10  
downloading (see MWTM web interface)  
exiting 30  
launching from Windows Start menu 27  
starting  
  on Solaris/Linux 3  
  on Windows 4  
prerequisites 3  
client/server architecture, overview 11  
color  
  severity, customizing 16  
command line interface, using 43  
command reference 1  
commands  
  general 1  
  ITP 97  
configuring  
  firewalls 7  
  port numbers and parameters 5  
  sample firewall 9  
connection settings 6  
connection timer 10  
content area  
  MWTM client 17  
conventions  
  document xxxix  
conversion entry  
  table 13  
counters, resetting 20  
CPU  
  performance, viewing 55  
credentials, login  
  setting up 19  
CSG  
  MIBS 6  
CSG1, traps 17  
CSG2, traps 18  
custom reports  
  generating 282  
customizing view 8

**D**

data

- accessing, from web 1
- exporting 35

MWTM

- exporting current, for node names 36
- exporting current, for SNMP community names 36
- removing from server 32

default

- server name, changing 26
- view, loading 14

deleting

- data from server 32
- objects 56

deploying

- GTT 34

deployment

- FAQs 16
- details, viewing 7

device configuration

- buttons 21
- commands 21
- dialog box 14
- menu 14

diagram, network 1

disconnect sound 25

discovering ITP networks

- dialog menu 6
- discovered nodes 14
- running discovery 12
- settings 12
- verifying discovery 14

discovery

- FAQs 15

DISPLAY variable, setting 3

display, customizing 8

displaying 20

- administrative page 1

alarms 3, 19

error statistics 38

events 3, 19

RAN data export files 40

software versions 20

document

- audience xxxviii
- conventions xxxix
- objectives xxxviii
- organization xxxviii

documentation

- related xl

DOS prompt, launching 27

dual-interface machine

MWTM, configuring 12

**E**

editing

- ITP route table file 1
- properties 49
- error data, viewing 114
- error statistics, displaying 38

event

adding sound files 41

attaching notes 23

categories 31

filter

loading 19

setting 12

forwarding as traps 37

limits 26

managing 1

playing or muting sounds 42

properties

viewing 21

settings

categories 9

changing 7

colors 8  
date 8  
time 8  
SNMP servers and traps 30  
sound filters  
  creating new 39  
  deleting 42  
  listing 38  
sounds, setting 38  
traps 32  
event editor 25  
  categories 31  
  launching 27  
  limits 26  
  SNMP servers and traps 30  
  traps 32  
event files  
  archived 24  
event filter  
  dialog  
    buttons 13  
    selected objects 16  
  example 19  
  loading 19  
  saving 20  
  setting 12  
Event Sounds 25  
events  
  displaying 3, 19  
  settings  
    other 10  
    severities 9  
  sound filters  
    changing 42  
  window  
    toolbar buttons 8  
events and alarms  
  FAQs 7  
excluding  
objects  
  ITP reports 284  
exit settings 3  
export files  
  application server process archived reports 243  
  MLR, daily 245  
  point code, inventory 248  
exporting current MWTM data  
  for network objects 35  
  node names 36  
  SNMP community names 36  
exporting data 35

---

**F**

FAQs 1  
  accounting 16  
  applications, other 10  
  asterisks 16  
  browser 6  
  capacity planning 21  
  deployment 16  
  discovery 15  
  events and alarms 7  
  HSRP 22  
  in-band management 19  
  installation 2  
  ITP reports 17  
  Java RMI 11  
  limited functionality 18  
  link totals 16  
  linkset totals 16  
  locked up display 5  
  MIBs 10  
  moving servers 3  
  out-of-band management 19  
  percentages 16  
  polling 9  
  rebooting 5

requirements 3  
 server communication 21  
 server messages 4  
 sounds 8  
 SSL, installing 5  
 status 11  
 superuser 11  
 syncing 22  
 syslog 11  
 text entry fields 5  
 timing service 8  
 topology maps 7  
 traps 15  
 uninstallation 2  
 user password 11  
 Windows 11  
 workstations 3  
 yellow nodes 23

features  
 customization 5  
 GUI 2  
 integration 5  
 monitoring 3  
 navigational 15  
 performance 3  
 provisioning 3  
 security 4  
 server and network 2  
 topology 4  
 troubleshooting 5  
 web 2

file  
 node  
 MWTM panel 28  
 panel 29

file menu 19

files  
 ITP  
 deploying 33

managing 24  
 loading 25  
 saving MWTM 25  
 filtering view 8  
 firewalls 5  
 configuring 7

---

**G**

General commands  
 mwtm datadir 24  
 general commands 1  
 mwtm 6  
 mwtm addcreds 6  
 mwtm adduser 7  
 mwtm authtype 8  
 mwtm backup 9  
 mwtm backupdir 11  
 mwtm badloginalarm 12  
 mwtm badlogindisable 12  
 mwtm browserpath 13  
 mwtm certgui 13  
 mwtm certtool 14  
 mwtm changes 14  
 mwtm checksystem 15  
 mwtm clean 15  
 mwtm cleanall 16  
 mwtm cleandb 17  
 mwtm cleandiscover 17  
 mwtm ciconntimer 18  
 mwtm client 19  
 mwtm clientlogs 19  
 mwtm clitimeout 20  
 mwtm cmdlog 21  
 mwtm console 22  
 mwtm countnodes 22  
 mwtm countobjects 23  
 mwtm cwsetup 23  
 mwtm dbtool 25

mwitm delete 25  
 mwitm deletecreds 26  
 mwitm deluser 27  
 mwitm disablepass 27  
 mwitm disableuser 28  
 mwitm discover 28  
 mwitm diskmonitor 29  
 mwitm enableuser 29  
 mwitm eventautolog 30  
 mwitm eventconfig 30  
 mwitm eventeditor 30  
 mwitm eventtool 31  
 mwitm evilstop 33  
 mwitm export 33  
 mwitm export cw 34  
 mwitm groups 34  
 mwitm help 36  
 mwitm inactiveuserdays 37  
 mwitm installlog 37  
 mwitm inventorytool 38  
 mwitm iosreport 40  
 mwitm ipaccess 41  
 mwitm jspport 41  
 mwitm keytool 42  
 mwitm killclients 42  
 mwitm listusers 43  
 mwitm logger 43  
 mwitm logtimemode 45  
 mwitm manage 46  
 mwitm maxascirows 46  
 mwitm maxevhist 47  
 mwitm maxhtmlrows 47  
 mwitm mldebug 48  
 mwitm motd 49  
 mwitm msglog 49  
 mwitm msglogage 50  
 mwitm msglogdir 50  
 mwitm msglogsize 44  
 mwitm netlog 51  
 mwitm netlogger 51  
 mwitm newlevel 51  
 mwitm osinfo 52  
 mwitm passwordage 52  
 mwitm patchlog 53  
 mwitm poll 53  
 mwitm polltimeout 53  
 mwitm print 54  
 mwitm props 54  
 mwitm provisiontool 54  
 mwitm purgedb 55  
 mwitm readme 56  
 mwitm reboot 56  
 mwitm rephelp 57  
 mwitm restart 58  
 mwitm restore 58  
 mwitm restoreprops 59  
 mwitm rootvars 60  
 mwitm sechelp 60  
 mwitm seclogmwitm seclog 60  
 mwitm secondaryserver 61  
 mwitm servername 62  
 mwitm setpath 63  
 mwitm showcreds 64  
 mwitm snmpcomm 65  
 mwitm snmpconf 66  
 mwitm snmpget 66  
 mwitm snmphelp 68  
 mwitm snmpnext 69  
 mwitm snmpwalk 72  
 mwitm sounddir 74  
 mwitm ssl 75  
 mwitm sslstatus 75  
 mwitm start 76  
 mwitm start client 76  
 mwitm start jsp 76  
 mwitm start pm 76  
 mwitm start web 77  
 mwitm statreps 77

mwitm status 84  
 mwitm stop 84  
 mwitm stop jsp 85  
 mwitm stop pm 85  
 mwitm stop web 85  
 mwitm stopclients 84  
 mwitm superuser 85  
 mwitm syncusers 86  
 mwitm tac 86  
 mwitm termproxy 86  
 mwitm trapaccess 87  
 mwitm traprate limit abate 87  
 mwitm trapratelimit count 88  
 mwitm trapratelimit interval 88  
 mwitm trapratelimit minor 89  
 mwitm trapsetup 89  
 mwitm trapstatus 90  
 mwitm tshootlog 90  
 mwitm uninstall 90  
 mwitm unknownage 91  
 mwitm updateuser 91  
 mwitm useraccess 92  
 mwitm userpass 92  
 mwitm version 93  
 mwitm viewlog 93  
 mwitm wall 93  
 mwitm webaccesslog 94  
 mwitm weberrorlog 94  
 mwitm weblogupdate 94  
 mwitm webnames 95  
 mwitm webport 95  
 mwitm webutil 95  
 mwitm who 96  
 mwitm xtermpath 96  
 generating  
     custom reports 282  
     reports 2  
 getting started 1  
 GGSN

MIBS 7  
 traps 20  
 Global Title Translation (see GTT)  
 go menu 21  
 GTT  
     address conversion 13  
     selector table 14  
     tab 12  
     table 12  
 address conversion table  
     adding 24  
     entries, adding 25  
 app group tab 9  
 application groups  
     adding 21  
 basic information 1, 34  
 CPC  
     lists, adding 23  
     tab 11  
     tab, concerned pt code name list 12  
 deploying 34  
 editor  
     launching 2  
     menu 3  
 files  
     creating 27  
     cross-instance 36  
     editing 15  
     loading 29, 30  
     loading from archive 31  
     reverting 40  
     saving 38  
 GTA  
     entries, adding 17  
     searching 19  
 MAP  
     adding entries 22  
     tab 10  
 MAP status

viewing 124  
network name configuration 36  
menu 37  
table 38  
progress dialog 32  
reports, daily 211  
rows, deleting 26  
selectors and GTA tab 5  
CPC 9  
selectors and GTA table  
app group 8  
GTA 7  
MAP 9  
selector 6  
selectors, adding 16  
semantics 33  
statistics, viewing 126  
GTT accounting reports 211

---

**H**

HA traps 23, 24, 27, 29  
help menu 23  
home page  
MWTM web interface 12  
HSRP  
FAQs 22

---

ignoring and unignoring objects 60  
in-band management  
FAQs 19  
including objects  
ITP reports 284  
indxexas 242, 246  
indxexasp 243  
indxpwe3peak 185

indxwb019 244  
indxwb026 245  
information  
address 8  
bandwidth  
RAN-O backhauls 9  
ITP  
application server process associations 17  
application servers 11, 17  
linksets 12  
links 13  
naming  
card 16  
interfaces 16  
ITP application servers 17  
ITP links 17  
ITP linkset 18  
ITP signaling points 18  
ITP signaling-gateway mated pairs 18  
nodes 15  
polling nodes 20  
protection  
ONS nodes 21  
QoS, ITP signaling points 21  
RAN 22  
remote IP address 22  
status  
interface and card 24  
ITP application server process 29  
ITP application server process associations 29  
ITP application servers 27  
ITP links 31  
ITP linksets 32  
ITP signaling gateway mated pairs 33  
ITP signaling points 34  
node 23  
threshold (RAN-O only) 35  
uptime  
node 23

information, in a window  
     finding 22

installation  
     FAQs 2

integration  
     with CiscoWorks 36

interface  
     tabs 17  
         UMTS and GSM tabs (RAN-O only) 18

interface and card, status information 24

interface content  
     MWTM web interface 5

interfaces  
     naming 16  
     packet size 11  
     table 33

introduction to SGM 1

inventory  
     point code 48

IOS  
     commands, troubleshooting 4  
     server load balancing 16

IP addresses accounting  
     reports 48

IP Transfer Point (see ITP)

ITP  
     application server processes 17  
     application server process  
         status, information 29  
     application server process associations 17  
     application servers 11  
         naming, information 17  
         status, information 27  
     commands 97  
     files  
         deploying 33  
         managing 24  
     linkset  
         naming, information 18

links  
     sets

linksets  
     information 12

overview 6

signaling gateway-mated pairs  
     naming, information 18

signaling points  
     naming, information 18

ITP application server process associations  
     status 29

ITP commands  
     mwitm 15minage 83  
     mwitm accstats 98  
     mwitm archivedir 100  
     mwitm atblclient 100, 125  
     mwitm atbldir 101  
     mwitm autosyncconfig 102  
     mwitm chartwindow 15  
     mwitm checkggt 102  
     mwitm checkmlr 103  
     mwitm checkroute 103  
     mwitm countas 103  
     mwitm countasp 103  
     mwitm countasp 104  
     mwitm countlinks 104  
     mwitm countlinksets 104  
     mwitm countsgmp 104  
     mwitm countsps 104  
     mwitm deletearchive 105  
     mwitm deploarchive 105  
     mwitm deplocomments 106  
     mwitm evreps clean 106  
     mwitm evreps cleancustom 106  
     mwitm evreps diskcheck 107  
     mwitm evreps enable 107  
     mwitm evreps hourlyage 108  
     mwitm evreps mtp 108  
     mwitm evreps status 108  
     mwitm evrepstimer 109  
     mwitm gttclient 110, 126

- mwitm gttdir 111
  - mwitm gttstats 112
  - mwitm linkstats 113
  - mwitm listarchive 115
  - mwitm listgtt 115
  - mwitm listhistory 115
  - mwitm listmlr 116
  - mwitm listroute 116
  - mwitm mlrstats 116
  - mwitm mtpevents 118
  - mwitm pcformat 119
  - mwitm pclist 120
  - mwitm pushgtt 120
  - mwitm pushmlr 121
  - mwitm pushroute 122
  - mwitm q752stats 122
  - mwitm repcustage 123
  - mwitm repdir 56
  - mwitm replog 57
  - mwitm routedir 124
  - mwitm routetabledefs 125
  - mwitm statreps monthlyage 84
  - mwitm xuastats 126
  - ITP links**
    - naming
      - information 17
    - status
      - information 31
  - ITP linkset**
    - access lists, viewing 121
    - status 32
  - ITP MIBS** 9
  - ITP MSU**
    - errors, viewing 98
  - ITP MTP3**
    - errors, viewing 97
  - ITP networks**
    - discovery
      - dialog menu 6
  - dialog tabs 7
  - nodes 14
  - running 12
  - settings 12
  - verifying 14
  - ITP reports**
    - excluding objects 284
    - FAQs 17
    - including objects 284
    - locating 281
  - ITP signaling gateway mated pairs**
    - status 33
  - ITP signaling point**
    - description 10
    - specific data, viewing 123
  - ITP signaling points**
    - managing 58
    - QoS 21
    - status 34
    - unmanaging 58
  - ITP traps** 7
- 
- J**
- JAVA RMI**
    - FAQs 11
- 
- L**
- launching
    - discovery dialog 6
  - limited functionality
    - FAQs 18
  - link
    - configuration
      - interfaces 12
    - reports
      - daily 70

hourly 67  
 tabs 14  
 link totals  
   FAQs 16  
 links  
   configuration  
     IP addresses 14  
   information 13  
   reports 67  
   table 23  
 linkset  
   archived reports  
     daily 245  
     hourly 245  
   description 10  
   reports  
     daily 82  
     daily peaks 85  
     hourly 79  
   table 20  
   tabs 14  
 linkset totals  
   FAQs 16  
 Linux MWTM client, starting 3  
 locating  
   ITP reports 281  
 locked up display  
   FAQs 5  
 login credentials, setting up 19

---

**M**

management interface folder  
 tabs 20  
 managing  
   event 1  
   ITP signaling points 58  
   nodes 58  
   reports 1  
 mapping files, network name 16  
 MaxAlarmAge 28  
 menu  
   address tables 3  
 menus  
   file 19  
   go 21  
   help 23  
   tools 22  
 messages  
   display, changing 4  
 log file  
   age 4  
   dates 4  
   location 4  
   size 4  
   of the day 15  
 MIBs  
   common 2  
   FAQs 10  
 MLR  
   details 129  
   export files, daily 245  
   reports 88  
     aborts 89  
     continues 90  
     daily 89  
     processed 90  
     result invokes 91  
     rule matches 92  
     subtriggers 92  
     triggers 93  
 mobile Services Exchange Framework (see mSEF)  
 Mobile Wireless Transport Manager (see MWTM)  
 moving servers  
   FAQs 3  
 mSEF  
   overview 9  
   traps 16

- MSU  
 archived reports  
   daily 247  
   hourly 246  
 load  
   reports 94  
 peaks  
   reports 94  
 rates  
   reports 93
- MTP3  
 event log  
   viewing 129  
 reports  
   daily 212
- MTP3 event reports 247
- multiple-instance ITPs, connecting 6
- MWTM  
 about xxxvii  
 backup 30  
 client and server communication  
   dynamic NAT 15  
   firewalls 5  
   NAT 4  
   port-forwarding 10  
   SSL 15  
   TCP 15  
   VPN 3  
 integration 36  
 ITP route table file  
   editing 1  
 main menu, using 18  
 main window 14  
 MIB reference 1  
 networking options (see MWTM, client and server communication) 1  
 overview 1  
 restoring 30  
 sessions, running simultaneous 39
- traps, supported 1  
 troubleshooting (see troubleshooting)  
 uninstalling 28  
 web browser, accessing 24
- MWTM process  
 events, changing 24
- MWTM server (see server, MWTM)
- MWTM web interface  
 additional information 17  
 archived messages 6  
 home page 12  
 interface content 5  
 logs  
   command 10  
   console 9  
   event automation 11  
   security 11  
   web access 12  
   web server error 12  
 messages 3  
   action 4  
   error 4  
   info 3  
 MWTM client, downloading 15  
 navigation tree 3  
 software updates 17  
 system  
   clients 8  
   information 17  
   status 8  
   versions 8  
 technical documentation 17
- MWTM windows  
 printing 24
- 
- N**
- navigating  
 table columns 23

navigation tree  
 MWTM client 16  
 MWTM web interface 3

navigational features 15

network  
 topology 1  
 views  
 topology 1

network name mapping files, creating 16

network objects  
 viewing a summary 17

node  
 access 4  
 archive  
 management 31  
 BWG tabs 2  
 CSG tabs 3  
 CSR tabs 4  
 file  
 management 24  
 menu, management 25  
 MWTM panel 28

files  
 ITP panel 29  
 GGSN tabs 5  
 HA tabs 5  
 ITP tabs 7  
 naming information 15  
 ONS tabs 9  
 polling information 20  
 RAN service module tabs 12  
 status information 23  
 uptime information 23

node and ONS card details window  
 configuration data  
 descriptive information 10

node details window  
 configuration data  
 IP addresses for SNMP 13

node name settings 5

nodes  
 deleting  
 from MWTM discovery database 58  
 excluding from view 60  
 managing 58  
 polling 50  
 SNMP IP addresses  
 editing 38

trap  
 processing 52  
 unmanaging 58

window 3  
 menus, right-click 4  
 node table 8

nodes and files, seed  
 loading 7

notes  
 attaching 54  
 event 23  
 viewing 55

---

**O**

object details window  
 configuration data  
 naming 14  
 object functions  
 detailed  
 understanding 1  
 object map  
 reference 1  
 objectives  
 document [xxxviii](#)

objects  
 deleting 56  
 from MWTM database 56  
 from network 56  
 ignoring and unignoring 60

online help, viewing 21  
ONS nodes  
protection information 21  
operations  
basic server performance 39  
organization  
document [xxxviii](#)  
out-of-band management  
FAQs 19  
overview  
discovery 5

---

**P**

passwords (see security)  
peak  
reports 74  
percentages  
FAQs 16  
physical folder  
tabs 20  
point code  
export files, inventory 248  
inventory 48  
reports 48  
setting format 4  
poller  
settings 5  
settings, changing 2  
poller settings window 110  
polling  
FAQs 9  
polling nodes 50  
port numbers and parameters  
configuring 5  
ports  
MWTM 1  
preference settings  
default, restoring 18

web, changing 18  
preferences  
menu 2  
settings  
CiscoWorks server 13  
deploy 15  
troubleshooting 6  
printing  
MWTM windows 24  
products menu 22  
properties, editing 49  
provisioning  
prerequisites 47  
using 42  
wizard  
using 48

---

**R**

Radio Access Network Optimization (see RAN-O)  
RAN  
information 22  
RAN backhaul  
table 38  
tabs 18  
virtual  
creating 143  
RAN data export files  
displaying 40  
RAN shorthauls  
viewing 142  
RAN-O  
backhaul  
properties, editing 53  
MIBS  
specific 11  
overview 8  
traps 11  
RAN-O only

threshold  
     information 35

README file 27

real-time data  
     ITP objects  
         viewing 73

objects  
     viewing 53

real-time poller  
     settings  
         changing 20

rebooting  
     FAQs 5

recent events  
     viewing 41

reference  
     command 1  
     object map 1

remote IP address

information 22

reports  
     archived  
         custom 238  
         rolling 241  
     AS accounting 210  
     ASP accounting 210  
     custom (see custom reports)  
     directory 281  
     generating 2  
     GTT accounting 211  
     GTT, daily 211  
     IP addresses accounting 48  
     link 67  
         five day 77  
     linkset 78  
     log 275  
     managing 1  
     MLR 88  
         aborts 89

continues 90  
     processed 90  
     subtriggers 92

MSU load 94  
     MSU peaks 94  
     MSU rates 93

MTP3 accounting 212  
     MTP3 event 247  
     MTP3 events  
         hourly 247  
     MTP3, daily 212  
     point code 48  
     point code, inventory 48, 210

system  
     parameters 275  
     timers 275  
     system log 13  
     viewing 3

reports properties  
     viewing 17

reports, accounting  
     viewing 210

requirements  
     FAQs 3

restoring  
     MWTM files 30

RMI  
     how does it work 2

root user, becoming 2

route detail  
     viewing 123

route table files 1  
     deploying 12  
     editing 5  
     loading 11  
     non-MWTM 14  
     opening  
         from archive 4  
         from file 2

**S**

- sample firewall
  - configuration 9
  - saving
    - address table files 18
    - alarm filter 20
    - event filter 20
    - GTT files 38
    - MWMTM files 25
    - route table files 12
    - seed files 8
    - topology 16
    - view 5
  - security 1
    - client access, limiting 29
    - data, restoring 18
    - logs, system 17
    - message of the day 15
    - overview 1
    - passwords
      - changing 13
      - creating 7
      - disabling, automatically 10
      - disabling, manually 12
      - re-enabling 13
      - synchronizing 16
    - SSL 21
      - enabling 21
      - support, disabling 28
      - support, managing 27
    - SSL certificates
      - details 26
      - downloading 23
      - exporting 26
      - importing 25
      - tool 24
    - superuser 19
    - user levels 7
      - (level 1) basic user 8
      - (level 2) power user 8
      - (level 3) network operator 9
      - (level 4) network administrator 9
      - (level 5) system administrator 9
    - user-based access
      - disabling 18
      - implementing 2
    - users
      - changing 13
      - disabling, automatically 10
      - disabling, manually 12
      - listing current 16
      - re-enabling 13
    - seed files
      - changing 11
      - creating 10
      - loading 8
      - saving 8
      - using a text editor 11
    - seed nodes, loading 7
    - semantics
      - address table files 14
      - GTT files 33
    - server
      - setting up 1
    - server communication
      - FAQs 21
    - server configuration, MWMTM 13
    - server messages
      - FAQs 4

server properties  
viewing 15

server status information  
viewing 40

server, MWTM  
  changing default name 26  
  connecting new 40  
  IOS server load balancing 16  
  removing data 32

sessions, MWTM, running simultaneous 39

setting  
  alarm filter 12  
  CiscoWorks server  
    changing 13  
  deploy  
    changing 15  
  event filter 12

settings  
  charts  
    changing 11  
  connection 6  
  event  
    changing 7  
  exit 3  
  general, displaying 4  
  GUI, changing 3  
  node name 5  
  poller 5  
  repaint 6  
  startup 3  
  status, changing 11  
  topology  
    changing 13

severity alarm 18

SGM  
  commands 1  
  FAQs (see FAQs)  
  status definitions (see status, definitions)

shorthaul table 40

signaling gateway mated pairs  
table 31

signaling gateway-mated pair  
tabs 16

signaling point  
  tabs 13

signaling point details window  
  configuration data  
    capability point code 9  
    point code 19

signaling points  
  window  
    signaling point information 18

single-instance ITPs, connecting 6

SNMP  
  settings  
    buttons 17  
    commands 17  
    configuring 15  
    table 15  
    trap, enabling 7

software versions  
  displaying 20

Solaris MWTM client, starting 3

sound files, adding 41

sound filters, event  
  creating new 39  
  deleting 42  
  listing for 38  
  setting 38

sound filters, events  
  changing 42

sounds  
  FAQs 8

SSL (see also security)

SSL certificate tool, launching 27

SSL, downloading module  
  from web server 23

starting MWTM

- client 3
  - server 1
  - startup settings 3
  - statistics
    - archived reports
      - daily 244
      - hourly 244
  - status
    - FAQs 11
    - settings, changing 11
  - status contributors, viewing 36
  - Summary lists 17
  - summary lists 18, 20
    - displaying 20
  - superuser 19
    - FAQs 11
  - syncing
    - FAQs 22
  - syslog
    - FAQs 11
    - viewing 54
  - system properties
    - viewing 13
- 
- T**
- table
    - application server process 28
    - application server process associations 29
    - application servers 25
    - card 36
    - interfaces 33
    - linkset 20
    - RAN backhaul 38
    - RAN shorthaul 40
    - signaling gateway mated pairs 31
  - table columns
    - navigating 23
  - table file
  - address
  - loading 9
  - tabs
    - application server 15
    - application server process 15
    - application server process association 16
    - BWG node 2
    - card 18
    - CSG node 3
    - CSR node 4
    - GGSN node 5
    - HA node 5
    - interface 17
      - UMTS and GSM (RAN-O only) 18
    - ITP node 7
    - link 14
    - linkset 14
    - management interface folder 20
    - ONS node 9
    - physical folder 20
    - RAN backhaul 18
    - RAN service module node 12
    - signaling gateway-mated pair 16
    - signaling point 13
  - technical documentation (see MWTM web interface)
  - terminal
    - enabling proxy 11
    - text entry fields
    - FAQs 5
  - TFTP
    - server (ITP only), setting up 11
  - timing service
    - FAQs 8
  - topology maps
    - FAQs 7
  - topology
    - centering 15
    - color 20
    - directories 17

- hiding 24
  - icons, locking 23
  - layouts, creating custom 14
  - magnetic grid 18, 19
  - map 8
  - map menu 13
  - menu 2
  - network 1
  - objects
    - aligning 22
    - details 16
    - finding 14
    - hiding 23
    - redrawing 24
  - printing 16
  - RAN-O 5
  - redrawing 24
  - restoring 25
  - saving 16, 24
  - settings
    - changing 13
  - toolbar buttons 3
  - viewing 1
  - views menu 13
- 
- trap
    - event, forwarding 37
    - IP address, limiting by 8
    - nodes, processing 52
    - server, forwarding 38
    - settings
      - viewing 63
    - SNMP, enabling 7
  - trap forwarding properties
    - viewing 18
  - TRAP\_RATE\_ABATE\_OFFSET 43
  - TRAP\_RATE\_LIMIT\_COUNT 43, 44
  - traps
    - FAQs 15
    - supported, SGM 1
- 
- troubleshooting 39
    - data 1
    - diagnosing ITP problems 5
    - diagnosing RAN-O problems 8
    - error messages 2
      - data model mediator service 2
      - demand poller manager service 2
    - events 5
    - IOS commands 4
    - locked up display 1
    - pane 6
    - server processes 3
    - web pages 3
- 
- U**
  - uninstalling
    - FAQs 2
    - MWTM 28
  - unmanaging
    - ITP signaling points 58
    - nodes 58
  - user password
    - FAQs 11
  - user-based access (see security)
  - users (see security)
  - using
    - MWTM main menu 18
    - provisioning 42
    - Windows Start menu 26
- 
- V**
  - view
    - basic information 2
    - client-specific 14
    - creating 7
    - creating (see view editor window)

custom 2  
default  
    loading 14  
detailed information  
    viewing 5  
editing 5  
including objects in 11  
managing 1  
right-click menu 3  
saving 5  
table 3  
view editor window 7  
    closing 13  
    left pane 9  
    menu 8  
    objects, right-click menu 10  
    views, right-click menu 10  
viewing 39  
accounting reports 210  
alarms 41  
details 7  
error data 114  
MLR  
    details 129  
MTP3  
    event log 129  
notes 55  
online help 21  
RAN shorthauls 142  
recent events 41  
reports 3  
route detail 123  
server properties 15  
server status information 40  
status contributors 36  
syslog 54  
system properties 13  
topology 1  
trap forward properties 18

troubleshooting 39  
web configuration properties 15  
viewing reports properties 17

---

**W**

web configuration properties  
    viewing 15  
web pages  
    troubleshooting 3  
web preference, settings  
    changing 1  
web server  
    downloading SSL module 23  
Windows  
    FAQs 11  
Windows Start menu  
    changing default  
        MWTM server name 26  
    launching  
        DOS prompt 27  
        MWTM client 27  
        MWTM event editor 27  
        MWTM README file 27  
        SSL Certificate Tool 27  
    uninstalling MWTM 28  
    using 26

---

**Y**

yellow nodes  
    FAQs 23