

## Vuoto Inquieta

...dove anche il vuoto è in fermento!

13 FEBBRAIO 2012 di GABRIELE NOTTE

## Configurare (e giocare online con) il Thomson TG784 (ADSL + voip) →

~~Al momento di questa guida non è possibile (o non è esatto)~~ di una grossa raccolta di informazioni frammentarie sparse per il web. L'ho scritta principalmente come promemoria per il futuro; nel frattempo condividerla col prossimo non costa nulla. Ho speso davvero parecchio tempo per settare questa maledetta scatola a dovere e spero di far risparmiare a voi tempo e mal di testa. A causa degli assurdi blocchi imposti da Tiscali e dalla stessa Thomson, sarà necessario bypassare qualche ostacolo per far funzionare correttamente il router nelle partite online. Principalmente mostrerò come muoversi via Telnet, probabilmente l'unico sistema che permette di fare modifiche **senza compromettere il voip o modificare il firmware originale**; esiste un altro modo per muoversi senza modificare il firmware (v. nota 2) ma non lo consiglio. Quanto presente in questa guida non prevede hack di dubbia natura, solo soluzioni umane applicate da umani che sanno pigiare tasti sulla tastiera. Sul serio.

Detto ciò, preciso tre cose. Anzitutto, su certi dettagli andrò veloce, un po' per pigrizia ed un po' perché si tratta di dettagli facilmente reperibili con quel che avete (google incluso). In caso di dubbi, lo spazio per lasciare commenti è utile anche per le domande, non siate timidi! Siete i benvenuti anche per segnalazioni di errori o ulteriori suggerimenti.

Faccio presente che il mio firmware di riferimento è l'**8.6.H.1**, lo stesso montato dalla scatolaletta infernale propinatami da Tiscali. Recentemente sto sentendo lamentele circa nuovi firmware ben più blindati. Al momento non posso esservi d'aiuto, sarà mia premura aggiornare la guida non appena scopro qualcosa. Nel caso, ricordo che il TG784 è un modello diverso dal TG784n, quindi le credenziali di accesso root saranno probabilmente diverse. Il mio aiuto può quindi limitarsi unicamente al primo modello.

Infine, **non prendo responsabilità** per eventuali danni/fastidi/problemi. Prendete questa guida "as it is".

### **Indice:**

1) Prerequisiti

#### **Per giocare**

2) Imposizione indirizzo ip statico

3) Acquisizione credenziali root

4) Port forwarding

- 5) Problematiche NAT ristretto
- 6) Disabilitare l'intrusion detection (opzionale)
- Extra**
- 7) Abilitare l'accesso a Telnet da ogni PC della rete locale
- 8) DNS personalizzati
- 9) Abilitare l'NTP
- 10) Script per modificare l'indirizzo ip esterno (es. con JDownloader)
- 11) Note

## 1) Prerequisiti

Come prerequisito indicherei due cose: pazienza (ma va?) e un accesso funzionante a telnet. Dunque, se volete approfondire cosa sia questo telnet potete cercare maggiori info su wikipedia, a noi comuni mortali basta sapere che si tratta di una interfaccia a linea di comando (CLI) per comunicare con oggetti elettronici in remoto (pc, server, router, robocop, etc).

- 1.1) Su **Linux**: dovrebbe essere installato di default (su Ubuntu 10,10 e Debian Lenny 5.09 lo è), in caso contrario rimediate installando il pacchetto telnet. Sulle distro che utilizzano apt basta digitare nel terminale `sudo apt-get install telnet` e aspettare qualche secondo. Se non usate apt... immagino che non avrete bisogno di consigli.
- 1.2) Su **Windows**: ma perché usate Windows? Vabbè. Su XP è installato di default, su Vista e Seven è presente ma nascosto. Per attivarlo dovete andare su Pannello di Controllo, cliccare su Programmi e quindi cliccare su **Attivazione o disattivazione funzionalità di Windows**. Cercate nella finestra appena aperta la voce **Client Telnet**, spuntate la relativa casella e date ok. A questo punto annullate gli impegni che avete sull'agenda.

Giusto per completezza, vi faccio presente che con i contenuti di questa guida non *dovreste* far danni irreparabili. Nel peggiore dei casi si può fare un semplice reset del dispositivo per farlo tornare come nuovo, inteso come quando l'avete acceso la prima volta. Sul dorso del router è infatti presente un piccolissimo foro, basta infilarci un ago per una decina di secondi e attendere che i led si spengano. A quel punto il dispositivo è come nuovo, pertanto potrete solo navigare nel dominio di tiscali.it per comunicare le credenziali fornite da Tiscali in fase di registrazione. **Se non disponete della vostra user ID e della vostra password non procedete oltre!** Telefonate al 130 e recuperate queste informazioni preventivamente. Il router infatti non tornerà attivo finché non avrete immesso quei dati, e in caso di reset rischiereste di rimanere senza telefono e senza internet. Vero pure che telefonando al 130 **il reset possono effettuarlo gli operatori** da remoto con zero fastidio per l'utente. Questo però porta via del tempo, la scelta è vostra.

## 2) Imposizione indirizzo ip statico: 192.168.1.34

Dovete necessariamente imporre manualmente l'indirizzo ip del vostro pc in LAN a questo valore: **192.168.1.34**. Il firewall integrato al dispositivo è programmato per bloccarvi l'accesso telnet da qualunque indirizzo di partenza ad eccezione di quello appena riportato; l'unica porta abilitata all'accesso è **8081**. Tale regola resta attiva anche se il firewall è disabilitato, perciò almeno la prima volta dovrete adattarvi. Al punto 7) troverete come bypassare questa limitazione.

## 3) Credenziali root

Dovete procurarvi le credenziali per accedere al dispositivo con i pieni privilegi (in ambiente Unix/Linux si chiamano "credenziali di root"). Ci sono una infinità di guide al riguardo. Giungendo direttamente al risultato finale, se il vostro ISP è Tiscali allora dovete semplicemente segnarvi questi dati:

user: **roott** password: **r00t\_th0ms\_n** (sono degli ZERO)

In realtà dovrebbe essere Tiscali stessa a fornirci questi dati, ma per motivi assurdi ci vengono consegnate solo le credenziali per un accesso limitato (l'utente descritto nel manuale del router). Con i privilegi di root avrete pieno accesso alle funzionalità del dispositivo. Per accedervi avrete sostanzialmente due vie: via browser (IE, Firefox, Chrome o quel che vi pare) o via CLI (telnet). Per avere il pieno controllo del dispositivo dovete usare necessariamente la linea di comando (telnet). Col browser e le credenziali root potete fare ben poco. Consiglio comunque di darvi un'occhiata in quanto troverete nuove funzioni che prima erano gelosamente (?) celate. Ad esempio adesso sarete capaci di accedere al log del router (vedi "Thomson Gateway" – "Event logs"), strumento da controllare in caso di problemi inattesi (inutile dirlo, il log è utile solo se il router ha un orario allineato a quello del vostro orologio – cosa che adesso potete settare a vostro piacimento).

Ah, ovviamente a fine guida vi converrà modificare la password di root per ovvi motivi di sicurezza.

#### 4) Port Forwarding

Ogni gioco ha la necessità di sbloccare determinate porte. Le trovate elencate nel manuale o nel readme. Questo discorso vale anche se il dispositivo collegato non è un PC ma una console (PS3 o X360... e quel che verrà nel futuro). Il port forwarding viene fatto su "Toolbox" – "Game & Application Sharing" – "Create a new game or application"; qui non sono necessarie le credenziali root. Il resto della procedura è intuitivo e comunque descritto nel manuale dato a corredo con il router. Se nonostante ciò avete dubbi su questo punto cercate su youtube: ci sono video a prova di idiota!

#### 5) Problematiche di NAT Ristretto

Alcuni giochi e TUTTE le console riportano problemi di NAT con questa scatola. Ad esempio, con Crisis 2, se avete seguito la guida fino a questo punto, ad ogni partita multiplayer vi apparirà un avviso che vi informa di essere su un NAT ristretto e che pertanto vi sarà difficile raggiungere alcune partite (o altre rogne). A questo punto dovete necessariamente usare Telnet. Aprite un terminale qualunque: su Linux va bene un terminale emulato, su Windows c'è il prompt dei comandi. Quindi:

- 5.1) digitate **telnet 192.168.1.254 8081**
- 5.2) immettete nome utente e password di root reperite al punto 3)
- 5.3) digitate **:connection bind application=CONE(UDP) port=XXXX** dove XXXX sono le porte **udp** che avete aperto nel punto 4). Dovete inserire una porta alla volta, battere invio e digitare di nuovo il comando per intero con la nuova porta. Nota che alcune porte non saranno comunque accessibili (es 64100) ma ciò non è un problema. In caso di errore, ignora la porta e prova con la prossima. Quando hai finito vai avanti con la guida.
- 5.4) digitate **:saveall**, date invio, digitate **:exit** e date invio.

#### 6) Disabilitare l'Intrusion Detection (opzionale)

Se avete seguito la guida fin qui e avete provato a giocare, noterete di avere finalmente un NAT moderato ma *potreste* subire una frequente serie di disconnessioni dai server di gioco dopo pochi minuti (o dopo un'ora se siete molto fortunati). Da un'occhiata al log, risulta che in concomitanza con queste disconnessioni vengono riportati alcuni o tutti i seguenti messaggi:

*IDS dos parser : udp flood (1 of 1) : [ind. ip altro gioc.] [vostro ind. ip] UDP 64100->55137*

*FIREWALL replay check (1 of 1): Protocol: ICMP Src ip: [ind. ip altro gioc.] Dst ip: [vostro ind. ip] Type: Destination Unreachable Code: Communication Administratively Prohibited*

*FIREWALL replay check (1 of 80): Protocol: ICMP Src ip: [ind. ip altro gioc.] Dst ip:[vostro ind. ip]Type: Destination Unreachable Code: Host Unreacheable*

Da qualche ricerca sul web pare che la funzione "Intrusion Detection" abbia una politica troppo severa in questo dispositivo, rilevando erroneamente come minacciose molte delle connessioni che avvengono durante le partite in rete. Sui server talvolta c'è la necessità di scansionare nuove porte libere nel caso quelle previste dal manuale siano già impegnate; se non ne trovano le informazioni arrivano in leggero ritardo generando lag. Il problema di questa famiglia di router Thomson è che il tentativo di scansionare tutte le porte libere viene visto come un tentativo di intrusione da parte di un hacker: quando ciò avviene, il dispositivo pensa di disconnetterci dal server e da tutti gli altri giocatori senza chiederci il permesso. La parte che si occupa di gestire questo fenomeno si chiama *Intrusion Detection*. Ovviamente, questa funzione non è stata inserita senza una valida ragione in quanto contribuisce (in modo insufficiente!) alla sicurezza globale della vostra privacy. Pertanto, come primo tentativo, vi consiglio di non disabilitare l'intrusion detection e provare il router così com'è adesso. Se riportate le disconnessioni sopra accennate, provate con i comandi qui esposti ricordando però di riattivare la funzione quando la smetterete di giocare al vostro titolo preferito.

Accedendo dal browser noterete che l'intrusion detection è attivo e non potremo disabilitarlo in alcun modo. Possiamo aggirare questo ulteriore ostacolo usando ancora una volta telnet. Ripetete le operazioni 4.1) e 4.2). A quel punto digitate **:ids config state=disabled**, salvate tutto come al punto 4.4) e avrete risolto i vostri problemi. Se nel futuro avrete voglia di riabilitare il servizio per ovvi motivi di sicurezza, basterà ripetere i passi e digitare **:ids config state=enabled**.

Questo dovrebbe essere tutto per quel che riguarda il gioco online con la scatoletta di Tiscali. Se ciò non bastasse ricordatevi di controllare i vari firewall/antivirus presenti sul vostro pc.

**EXTRA: altre caratteristiche utili** (ormai ometto i vari saveall ed exit che dovrebbero essere assimilati)

## 7) Abilitare l'accesso telnet da ogni pc

Come detto al punto 1) è necessario impostare un indirizzo statico per accedere via telnet. Questo perché nel router è inserita una regola per bloccare l'accesso da tutti gli altri indirizzi della rete (alias, altri pc). La regola, esposta nel file user.ini, è la seguente:

```
rule add chain=sink_system_service index=1 srcintf=lan srcip=!192.168.1.34 serv=telnet log=disabled
state=enabled action=deny
```

Possiamo sbarazzarci di questo limite digitando due comandi via telnet:

- 7.1) digitare **expr add name=personal type=ip addr=192.168.1.0/24 mask=0**
- 7.2) Ci sono due comandi diversi, a seconda del tipo di firmware che il dispositivo monta.

*Per i firmware H (quello mio):*

```
firewall rule modify chain=sink_system_service index=1 srcintf=lan srcip=!personal serv=telnet
log=disabled state=enabled action=deny
```

*Per i firmware G:*

```
firewall rule modify chain=sink_fire index=1 srcintf=lan srcip=!personal serv=telnet log=disabled
state=enabled action=deny
```

Tutto qui; d'ora in avanti non avremo necessità di ip statici per accedere a telnet.

## 8) DNS personalizzati

Sui DNS si possono raccontare un oceano di cose. Detto in poche grossolane parole, sono dei server che controllano e soddisfano le nostre richieste di navigazione. In pratica, quando noi digitiamo una url (es <http://www.google.it> (<http://www.google.it>)) il nostro router invia la richiesta di collegamento a questi DNS, i quali traducono il testo immesso (www.google.it) in un indirizzo ip da raggiungere. In pratica sono come un vigile al quale chiediamo dove si trova un sito, e lui ci indirizza. Di default, il

nostro router utilizza dei DNS proprietari di Tiscali, i quali svolgono il loro lavoro in modo più che sufficiente. Il problema è che si trovano su suolo italiano, e quindi devono rispettare le leggi italiane. Pertanto, nel momento stesso in cui il governo decide per noi che è giusto censurare un sito, i DNS non indirizzeranno la nostra richiesta rendendo di fatto il sito irraggiungibile. Credo che l'esempio più famoso sia quello di *The Pirate Bay*. Se avete un minimo di istinto informatico (ma basta il semplice istinto... in quest'epoca di tv e decerebrazione di massa) dovete necessariamente usare dei DNS diversi. Io propongo i famosissimi OPENDNS. Via telnet, digitate:

- 8.1) **dns server route add dns=208.67.222.222 metric=1 intf=Internet**
- 8.2) **dns server route add dns=208.67.220.220 metric=1 intf=Internet**
- 8.3) **dns server route list**

Ovviamente, si può sempre imporre qualunque tipo di DNS (altri famosi sono ad esempio quelli di Google). Con quei comandi semplicemente fissiamo una priorità maggiore dei nostri DNS rispetto a quelli imposti da Tiscali; col comando 8.3) visualizziamo appunto tale priorità.

## 9) Abilitare l'NTP

L'NTP è un sistema per sincronizzare i vari orologi di rete con un server esterno, implementando sistemi che calcolano e compensano la latenza del segnale. Questa interessante funzione è di fatto disabilitata di default nel router, ma possiamo abilitarla digitando via telnet la seguente roba:

- 9.1) **sntp add name=it.pool.ntp.org version=3**
- 9.2) **sntp config poll=60 pollpresync=5**
- 9.3) **sntp config state=enabled**

Il server di sincronizzazione proposto è [it.pool.ntp.org](http://it.pool.ntp.org), ma se ne conoscete uno migliore potete cambiarlo nella 9.1).

## 10) Script per modificare l'indirizzo l'ip pubblico (es. con JDownloader)

[Si ringrazia [Samuele \(http://wikipille.blogspot.it/\)](http://wikipille.blogspot.it/) per il contributo]

Per quei pochi a cui interessasse, ho scritto un breve script combinando Telnet e Visual Basic che permette di cambiare IP pubblico, utile a chi scarica per automatizzare le cose. Lo script è:

```
Option explicit
Dim oShell
set oShell= Wscript.CreateObject("WScript.Shell")
oShell.Run "telnet 192.168.1.254 8081"
WScript.Sleep 1000
oShell.Sendkeys "[inserire_nome_utente_(meglio_roott)]~"
WScript.Sleep 1000
oShell.Sendkeys "[inserire_password]~"
WScript.Sleep 1000
oShell.Sendkeys ":\ppp ifdetach intf=Internet~"
WScript.Sleep 5000
oShell.Sendkeys ":\ppp ifattach intf=Internet~"
WScript.Sleep 3000
oShell.Sendkeys "exit~"
WScript.Sleep 1000
oShell.Sendkeys "exit~"
Wscript.Quit
```

Scriverlo nel blocco note e salvare tutto come .vbs

Spero che a qualcuno serva, io lo uso per la riconnessione automatica con JDownloader visto che questo router è uno dei pochi per cui non si è riusciti a creare uno script di riconnessione in nessun modo.

## 11) Note

**Nota 1:** non sono un informatico, ma so per certo che questa roba funziona sia su Windows che Linux (qui in maniera leggermente differente). Telnet comunque ha un oceano di funzionalità, per averne un assaggio è possibile digitare **menu** (senza accento) subito dopo il login. Un manuale NON aggiornato è reperibile qui: <http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784/> (<http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784/>) (cerca CLI Reference). Il linguaggio è inglese e richiede una conoscenza elevata dei concetti sulle reti informatiche;

**Nota 2:** un altro modo per effettuare modifiche consiste nell'editare il file di configurazione. In pratica, questo apparecchio da la possibilità di salvare su un file (user.ini) la configurazione attuale delle componenti del router in oggetto, in modo da poterla ripristinare in ogni istante. Es: dopo un hard reset si perdono normalmente tutti i dati sulle password, porte forwardate etc; caricando questo file il dispositivo torna come al momento del ripristino. La cosa interessante è che in questo user.ini sono presenti anche le opzioni normalmente nascoste. L'alternativa a Telnet sta tutta qui: scarica questo file, lo modifichi, e lo ricarichi. Non lo consiglio perché a volte l'upload richiede tempo, e questo affare ha il brutto vizio di disconnettersi dal browser se non viene toccato per un po. Il risultato quindi è un dispositivo incasinato, il voip non funziona più e il dispositivo è irraggiungibile con ogni sistema (Telnet incluso). In quella circostanza non resta che effettuare un hard reset e contattare il centro assistenza per farsi riattivare i servizi eventualmente mancanti. Per quanti vogliano comunque provarci, possono scaricare il file di configurazione dal browser. Bisogna effettuare il log in con i diritti di root, andare su "Thomson Gateway" – "Configuration" e guardare in basso alla scritta "Save or Restore configuration".

**Nota 3:** in questa guida le impostazioni sul **UPnP** sono del tutto ininfluenti... questo router è evidentemente fallato. Che lo attivate o meno, non vi aiuterà ad avere un NAT alto (o l'ID alto su eMule). Non ho trattato la **DMZ** perché non serve... con buona pace di tutti gli utenti informatici paranoici. Infine, non ho info sicure/attendibili su **custom firmware** che permettano di mantenere il voip. In realtà non le ho neppure cercate... Ah, dimenticavo: anche se via browser vi dice che il firewall è disattivo... **vi sta mentendo!** Provate con telnet!

**Nota 4:** link utili/interessanti:

[Modem Help](http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784/Manuals/) (<http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784/Manuals/>)

[Modem Help Forum](http://forums.modem-help.co.uk/viewtopic.php?p=14982#14982) (<http://forums.modem-help.co.uk/viewtopic.php?p=14982#14982>)

[Whirlpool Forum](http://forums.whirlpool.net.au/archive/827589) (<http://forums.whirlpool.net.au/archive/827589>)

[Steppenwolf](http://www.steppen-wolf.eu/blog/tag/thomson-tg784/) (<http://www.steppen-wolf.eu/blog/tag/thomson-tg784/>) (questo link è particolarmente interessante anche perché ricopre aspetti più elettronici, ma non sono riuscito a contattare direttamente l'autore e non ho voluto inserire nessuna informazione nella mia guida; mi limito a citare il link nel caso siate interessati)

Lista degli update:

03/07/2012 Script per modificare l'indirizzo l'ip pubblico (es. con JDownloader) – si ringrazia [Samuele](http://wikipille.blogspot.it/) (<http://wikipille.blogspot.it/>).

## You May Like

- 1.



Questa voce è stata pubblicata in [Guide/How to](#) con tag [Electronics](#), [How to](#), [Informatics](#), [Thomson TG784](#), [Tiscali](#).

Aggiungi il [permalink](#) ai segnalibri.

[70 commenti](#)

## 70 pensieri su “Configurare (e giocare online con) il Thomson TG784 (ADSL + voip)”

**Giulio** scrive:

[20 febbraio 2012 alle 13:01](#)

A me telnet non accetta i comandi che hai messo nella guida, come mai?

[Rispondi](#)

**Gabriele Notte** scrive:

[20 febbraio 2012 alle 13:38](#)

che errore ti da?

[Rispondi](#)

**Samuele** scrive:

[20 febbraio 2012 alle 19:57](#)

Finalmente un posto dove si parla in maniera normale del router, senza perdere il VoIP.

Comunque la Tiscali potrebbe anche risparmiarsi certe cose.

Grazie!

P.S.: chiamala intuizione , ma nella barra di fianco c'è scritto che ti chiami Gerar\*\* quindi l'anonimato del web va a farsi friggere. :-))

Ciao!!

[Rispondi](#)

**Gabriele Notte** scrive:

[20 febbraio 2012 alle 20:47](#)

Non ho intenzione di restare anonimo, Gabriele Notte è il mio “nome d’arte” col quale spero di esordire come scrittore

[Rispondi](#)

**Samuele** scrive:

20 febbraio 2012 alle 22:07

Guarda, ti stimo per quello che fai e che vuoi fare.  
Buona Fortuna Ingegnere!!!

Samuele

Rispondi

**ramojfox** scrive:

29 febbraio 2012 alle 11:08

Ciao, è possibile che le credenziali siano state cambiate?  
ramojfox

Rispondi

**Gabriele Notte** scrive:

29 febbraio 2012 alle 13:20

Le credenziali non si cambiano da sole... magari è stato un super hacker! Scherzo  
Come ho scritto nelle prime righe, la guida fa riferimento al firmware 8.6.H.1 : "Recentemente sto sentendo lamentele circa nuovi firmware ben più blindati. Al momento non posso esservi d'aiuto, sarà mia premura aggiornare la guida non appena scopro qualcosa".  
Con i nuovi firmware le credenziali standard sono diverse. Purtroppo Tiscali non ne vuol sapere di fornirle. Tu che firmware hai?

Rispondi

**Cri** scrive:

13 marzo 2012 alle 23:42

ciao

io sto smadonnando da 3 giorni su questo maledetto router...

devo raggiungere la mia webcam wireless da remoto e devo avere una maledetta regola sul firewall che mi manda in bestia...

le ho provate tutte ma non la becco

adesso sui log dopo che provo a raggiungerla sulla porta 5550 mi da questo errore

```
IREWALL rule : Protocol: TCP Src ip: xx.x.xxx.x Src port: 59876 Dst ip: 192.168.1.239 Dst port: 5550  
Chain: forward_host_service Rule Id: 1 Action: accept
```

Rispondi

**Gabriele Notte** scrive:

27 aprile 2012 alle 17:30

Ciao! Scusa per il disastro mostruoso con cui ti rispondo, per 52 giorni sono stato isolato dal telefono/internet e non ho avuto modo di aggiornare il mio blog!

Dunque, non so ancora in cosa consista il problema ma possiamo provare a indagare.

Anzitutto, posso dire che NON è un problema di firewall poiché il log conferma con "Action: accept" (oppure ti prende in giro, chissà).

Accedi via telnet con privilegi root e digita  
firewall rule list

Dai un'occhiata alla lista che ti appare, ci sarà qualcosa legata alla porta 5550. Prova a postare quella riga. Intanto provo a leggere il manuale telnet del dispositivo, sperando di trovare qualcosa...

Rispondi

**gp** scrive:

27 aprile 2012 alle 00:22

Grazie per il tuo lavoro.



Sono giorni che leggo posts, articoli, comandi, blog stranieri, ma non riesco a farmene una ragione. E' il triple-play peggio configurato nella storia di tutti gli ISP...

E' mai possibile che non si riesca a configurarlo come un banale modem, in modalità bridge/half-bridge/gateway (lasciando le porte VOIP funzionanti) e far fare il lavoro a qualche altro pezzo della rete (nel mio caso, la quinta gen della Apple Extreme)...

Non c'e' verso...

Se spengo il wifi, (con il root), si riaccende da solo (!!!), se gli dico di impostare ed utilizzare un indirizzo pubblico, non lo fa! Allora, resetto tutto e gli dico di rifare da server DHCP, ma non esiste, se non gli configuri l'orologio interno, non fara' mai il push dei nuovi indirizzi (dando errori strambi su inconsistenze di indirizzi).

E' allucinante. Sai come sono riuscito a scrivere questo post? Configurando a manella la rete fino alla Extreme, e poi accendendo li il DHCP (risultato, doppio DHCP, doppio NAT), se poi ci aggiungiamo il fatto che anche spegnendo il NAT, questo rimane acceso (per colpa degli switch di Tiscali, che propagano, chissà' perché il loro NAT), ho ed avrò sempre il doppio NAT acceso.

Io non gioco, ma il NAT mi e' utile per collegarmi alla rete di casa da fuori...

Scusa lo sfogo, spero solo tu possa capirmi, ora mi sento un po' meglio...

Vorrei cortesemente chiederti come faresti tu questa configurazione.

Tiscali -> Thomson (come Gateway) - ethernet -> Airport Extreme == ethernet/wifi ==> vari devices.

Mantenendo il Thomson come gateway voip e come half bridge. Lasciando il DHCP, NAT, (magari anche l'indirizzo pubblico di Tiscali), Switching e Routing, e Wifi...

Grazie per qualsiasi consiglio tu possa fornirmi...

#### Rispondi

**Gabriele Notte** scrive:

27 aprile 2012 alle 17:20

Dunque, non sono un tecnico e non sono in grado di rispondere alla tua richiesta. La guida che hai letto è una semplice raccolta di info che ho trovato per la strada, di mio c'è solo l'italiano. Se te la cavi con l'inglese ti consiglio di postare su Modem Help Forum UK (trovi il link un po più su), lì troverai certamente qualche guru del genere.

In ogni caso, da quel che leggo il tuo router ha qualche malfunzionamento. Sulla mia scatoletta, se spengo il wifi quest'ultimo resta spento, con o senza root. Prova a telefonare al centro assistenza Tiscali e chiedi loro dettagli... ovviamente senza far riferimento ai privilegi del superutente

#### Rispondi

**Richard** scrive:

9 maggio 2012 alle 14:01

Ciao, innanzitutto ringrazio per la ottima guida, che spero mi sarà utile visti i numerosi problemi che sto avendo

Però già dall'inizio non riesco a dare al mio pc l'indirizzo 192.168.1.34, in quanto mi dice che è proprietario del modem e non mi dà alcuna possibilità di assegnarlo.

Gentilmente, come posso fare?

Grazie

#### Rispondi

**Gabriele Notte** scrive:

9 maggio 2012 alle 16:38

Uhm... questo è curioso. So di nuovi firmware per cui questa guida non è valida. Anzitutto, via GUI riesci a ottenere i privilegi di root? (Tradotto: riesci a accedere col nome utente e la password qui postata?). Se ce la fai, siamo sicuri che il firmware è lo stesso della guida e c'è qualche speranza che io possa aiutarti.

Nel frattempo, cortesemente, puoi dirmi che sistema operativo usi (es. win seven, win xp etc)? Puoi riassumere brevemente i passi che hai eseguito? (tipo: sono andato all'icona in basso a destra etc).

Rispondi

**domenico** scrive:

4 giugno 2012 alle 18:09

ciao, e complimenti per l'articolo! qualche giorno fa ho fatto il deep reset e adesso non so più dove sbattere la testa e ti chiedo se mi puoi aiutare.

Non riesco più a visualizzare la pagina delle impostazioni 192.168.1.254 mi risponde con "Tempo per la connessione esaurito" tramite telnet entro tranquillamente.

Rispondi

**Gabriele Notte** scrive:

4 giugno 2012 alle 19:02

Dunque, se hai fatto il deep reset l'unica cosa che puoi fare è navigare nel sito tiscali.it e inserire le tue credenziali d'accesso, altrove non può connettersi per una imposizione del firmware. Se prima non metti le tue credenziali ogni tipo di accesso è impossibile.

Dopo, per connetterti via telnet, devi anche specificare la porta alla quale vuoi avere accesso che è la 8081. Quindi dovrai digitare

"telnet 192.168.1.254 8081"

Dimmi se ci sono altri prob ok?

Rispondi

**domenico** scrive:

4 giugno 2012 alle 20:42

ciao ti ringrazio tantissimo per la risposta,

il mio problema è che non sono più con operatore tiscali quindi navigando el sito tiscali non ho nessuna richiesta di credenziali d'accesso. Adesso sto navigando con infostrada.

che tu sappia non esiste un comando per abilitare linterfaccia web del 192.168.1.254.

con "telnet 192.168.1.254 8081" mi chiede le credenziali e entro senza problemi.

Rispondi

**Gabriele Notte** scrive:

4 giugno 2012 alle 21:06

Allora il problema è di firmware. Se il router lo hai preso con Tiscali sei vincolato a utilizzarlo esclusivamente con loro. Ufficialmente non puoi utilizzare il router Tiscali con altri operatori.

La soluzione esiste, dovresti installare un nuovo firmware, ma in questo non posso aiutarti dal momento che non ho mai provato (e non voglio cimentarmi nell'impresa!).

So di gente che ci è riuscita ma ha perso definitivamente il voip. I vari firmware sono qui:

<http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784/>

Se cerchi nel modem help forum troverai sicuramente guide e aiuti, ma sono in inglese.

Rispondi

**domenico** scrive:

4 giugno 2012 alle 21:26

ok ti ringrazio farò un tentativo con l'installazione di un firmware

**Splatters** scrive:

1 luglio 2012 alle 15:29

A me non mi fa accedere con le credenziali di root! mi dice che sono errate, come posso risolvere? Appena l'avevo preso la prima volta mi permetteva di accedere con root, ma ancora non funzionava il VoIP, dopo che la tiscali mi ha ripristinato il VoIP, non sono più potuto accedere con le credenziali root.

Rispondi

**Gabriele Notte** scrive:

2 luglio 2012 alle 11:40

Cosa significa "dopo che la tiscali mi ha ripristinato il VoIP"? Hai chiesto assistenza loro per qualche problema? Se così, probabilmente ti hanno aggiornato il firmware in remoto. Prova ad accedere con le credenziali normali (user/user) e leggi sotto la scritta Thomson Gateway la versione di firmware che stai usando. Questa guida è stata scritta per la versione 8.6.H.1. So di aggiornamenti da parte di Tiscali, ma come specificato nella guida non ho ancora idea di quali siano le nuove credenziali di root.

Rispondi

**Samuele** scrive:

3 luglio 2012 alle 09:52

Per quei pochi a cui interessasse, ho scritto un breve script combinando Telnet e Visual Basic che permette di cambiare IP pubblico, utile a chi scarica per automatizzare le cose. Lo script è:

Option explicit

Dim oShell

```
set oShell= Wscript.CreateObject("WScript.Shell")
```

```
oShell.Run "telnet 192.168.1.254 8081"
```

```
WScript.Sleep 1000
```

```
oShell.Sendkeys "[inserire_nome_utente_(meglio_root)]~"
```

```
WScript.Sleep 1000
```

```
oShell.Sendkeys "[inserire_password]~"
```

```
WScript.Sleep 1000
```

```
oShell.Sendkeys ":ppp ifdetach intf=Internet~"
```

```
WScript.Sleep 5000
```

```
oShell.Sendkeys ":ppp ifattach intf=Internet~"
```

```
WScript.Sleep 3000
```

```
oShell.Sendkeys "exit~"
```

```
WScript.Sleep 1000
```

```
oShell.Sendkeys "exit~"
```

```
Wscript.Quit
```

Scriverlo nel blocco note e salvare tutto come .vbs

Spero che a qualcuno serva, io lo uso per la riconnessione automatica con JDownloader visto che questo router è uno dei pochi per cui non si è riusciti a creare uno script di riconnessione in nessun modo.

P.S.: Gabriele, non sono riuscito a contattarti in quanto non hai scritto la tua mail da nessuna parte . Fammi sapere se questo script ti interessa; la mia mail è [sammypillo96@gmail.com](mailto:sammypillo96@gmail.com)

Rispondi

**Gabriele Notte** scrive:

3 luglio 2012 alle 16:33

Ok, grazie mille del contributo. Non sono un fan dei servizi file hosting ma immagino sia utile. A breve aggiorno la guida citandoti come autore.

Rispondi

**Samuele** scrive:

3 luglio 2012 alle 16:36

Di nulla. Basta che sia a disposizione. Io, ieri, per farlo, ci ho messo tutto il giorno. Spero almeno che serva a qualcuno oltre che a me

Ciao!!!

Rispondi

**Gabriele Notte** scrive:

3 luglio 2012 alle 16:37

sicuro!

Rispondi

**Domenico** scrive:

26 luglio 2012 alle 21:01

Scusa Gabriele se torno a postare, volevo chiederti se conosci i parametri di euteliavoip o altro operatore voip. Naturalmente il mio modem è stato ripristinato con un firmware e adesso funziona tutto egregiamente sotto operatore infostrada. L'unica cosa che non riesco a configurare sono le porte voip. Sarebbe utile anche che mi indicassi una guida.

Buona serata-

Rispondi

**Gabriele Notte** scrive:

27 luglio 2012 alle 18:30

Uhm... i parametri che chiedi \*dovrebbe\* fornirti l'ISP quando fai l'attivazione del servizio voip, non è possibile acquisire un numero telefonico in maniera autonoma. Per evitare che qualcuno faccia il furbo, adesso ti rilasciano solo le credenziali del cliente, il resto dei parametri di configurazione sono blindati nel router che ti fornisce (impone) l'operatore stesso... è per questo che quando si cambia firmware il voip non funziona più.

Inoltre, in Italia non mi risulta un operatore che offre il servizio voip e la libertà di usare il dispositivo che preferisci. Il protocollo per il Voice Over IP è un protocollo pseudo real time che viene di volta in volta adattato alle infrastrutture del gestore. Es. i parametri Linkem (Wimax) saranno diversi da quelli Telecom (ADSL) o Fastweb (una sottorete – quindi niente ip pubblico). Se vuoi usare questo servizio, devi allinearti a una compagnia telefonica e restare vincolato alle loro condizioni.

Rispondi

**Domenico** scrive:

29 luglio 2012 alle 11:45

Ti ringrazio per la risposta, ovviamente sono già in possesso di parametri (EuteliaVoip) che sul mio telefonino android (Applicazione CsipSimple) connesso alla mia rete ADSL funziona egregiamente.

Ho provato a inserirli i miei parametri EuteliaVoip sul Thomson TG784 ma non funziona niente né per telefonate in entrata né in gresso. Su internet non sono riuscito a trovare una valida guida, stufo della situazione ho comprato un telefono VOIP – Gigaset A510 IP che ho collegato direttamente su una presa lan. Tutto funziona egregiamente tranne le chiamate in ingresso che sto cercando di risolvere con il supporto tecnico di Gigaset.

Ciao e di nuovo complimenti per il tuo blog.

Rispondi

**Giulio Rossi** scrive:

28 luglio 2012 alle 11:07

Ciao, ho letto la tua ottima guida, ma ho un dubbio: come faccio a sbloccare da telnet le porte tcp? Con il comando :connection bind application=CONE(UDP) port=XXXX ho inserito tutte le porte udp che dovevo sbloccare, ma ora mancano le tcp.

Ti faccio ancora i complimenti per la guida e ti ringrazio in anticipo per l'aiuto

Rispondi

**Samuele** scrive:

28 luglio 2012 alle 11:29

In teoria basta che metti:

:connection bind application=CONE(TCP) port=XXXX

Rispondi

**Gabriele Notte** scrive:

28 luglio 2012 alle 12:47

Piccola premessa: per sbloccare le porte basta agire via browser, il telnet lo usi solo per effettuare il NAT (Network Address Translation) del tuo ip.

Dunque, non ricordo di preciso dove è scritto, ma ricordo d'aver letto che su questa scatoletta infernale non puoi forzare le TCP in NAT. Sulla bibbia telnet fornita da Thomson c'è un esempio con relativa sintassi; tra i campi possibili c'è solo UDP. Ho caricato lo screenshot di pagina 85:

Uploaded with [ImageShack.us](http://ImageShack.us)

Rispondi

**Qtka95** scrive:

9 settembre 2012 alle 07:10

grazie a tutti molto interessante !

Rispondi

**primianoc** scrive:

2 ottobre 2012 alle 09:46

Grazie per l'ottimo articolo, molto preciso e completo. Anche io ho un TG784, ma non riesco ad ottenere una connessione WIFI stabile ad una distanza superiore a 7 – 8 metri dal router. C'è un modo per amplificare il segnale?

Grazie ancora.

Saluti.

Rispondi

**Gabriele Notte** scrive:

2 ottobre 2012 alle 17:58

Risposta nerd: Se sei un dio dell'elettronica e dell'informatica puoi trasformare il router in qualunque cosa.

Risposta umana: No, non puoi far nulla, mi spiace

Risposta equa ed equilibrata: Il TG784, sul modulo wifi, vien fuori con lo standard di potenza più basso. Si tratta di un limite hardware, non ci puoi far nulla a meno di una modifica hardware, ma ciò va molto fuori la mia portata. Tutto ciò che posso consigliarti è di riposizionare l'access point.

Rispondi

**primianoc** scrive:

2 ottobre 2012 alle 18:21

La modifica hardware non è un grosso problema, ma prima di apportare modifiche permanenti vorrei tentare qualcosa via software.

Grazie per la risposta.

Rispondi

**Ivano** scrive:

30 novembre 2012 alle 19:15

Buonasera. Innanzitutto ringrazio infinitamente per il lavoro che avete fatto. Purtroppo il mio firmware è il 8.4.3.H e le credenziali di root sono errate. Mi spareste aiutare?

Rispondi

**Google** scrive:

30 novembre 2012 alle 20:23

Sei sicuro che sia un Thomson tg784? (non tg784n)

Rispondi

**Gabriele Notte** scrive:

4 dicembre 2012 alle 10:44

Ciao Ivano, purtroppo non so esserti d'aiuto con quel firmware. Come ho scritto nell'introduzione della guida:

“Faccio presente che il mio firmware di riferimento è l'8.6.H.1, lo stesso montato dalla scatoletta infernale propinatami da Tiscali. Recentemente sto sentendo lamentele circa nuovi firmware ben più blindati. Al momento non posso esservi d'aiuto, sarà mia premura aggiornare la guida non appena scopro qualcosa. Nel caso, ricordo che il TG784 è un modello diverso dal TG784n, quindi le credenziali di accesso root saranno probabilmente diverse. Il mio aiuto può quindi limitarsi unicamente al primo modello.”

Ogni tanto avvio nuove ricerche ma fin'ora sono state infruttuose, mi spiace.

Rispondi

**omar** scrive:

16 dicembre 2012 alle 22:46

possiedo il router thomson tg784n.

posso utilizzare questo router con un altro provider adsl?

quali operazioni devo eseguire?

vi sarei molto grato se mi poteste aiutare in quanto ho acquistato subito il modem da tiscali, ma di fronte alla banda pessima di tiscali, voglio recedere e tornare a telecom.

aiutatemi

Rispondi

**Gabriele Notte** scrive:

17 dicembre 2012 alle 22:41

Dunque, se il software è brandizzato Tiscali non puoi usare il dispositivo con altro operatore.

Dovresti cambiare firmware, ma tieni a mente che:

1. è un'operazione rischiosa che potrebbe compromettere il dispositivo
2. ad ora non mi risulta nessuno che sia stato capace di far funzionare il voip con firmware diverso da quello di Tiscali

Io personalmente non mi sono mai cimentato in questa operazione, se comunque vuoi provarci puoi cercare qui: <http://download.modem-help.co.uk/mfcs-A/Alcatel/Modems/TG784n/>

NOTA: io non possiedo un TG784n, ma un TG784; si tratta di modelli diversi, quindi non so se potrei esserti d'aiuto.

Rispondi

**Pietro** scrive:

14 aprile 2013 alle 10:02

complimenti per la tua preziosa guida  
Sai per caso come si configura l'SNR ?  
nel senso dei comandi telnet utili per modificarlo

grazie

Rispondi

**Gabriele Notte** scrive:

15 aprile 2013 alle 09:10

Non mi risultano comandi per modificare quel parametro. Il "rapporto segnale/rumore" è un indice della qualità della tua linea, non è modificabile con comandi telnet. Se hai problemi rivedi tutti i cablaggi che arrivano fino al router o eventualmente chiama l'assistenza.

Rispondi

**nino** scrive:

23 aprile 2013 alle 20:51

posseggo un tecnicolor tg784n v3 sono riuscito a configurare con tele tu il modem mi dà internet ok ma non navigo????????????

Rispondi

**Gabriele Notte** scrive:

24 aprile 2013 alle 22:48

Desolato, ma la mia guida fa riferimento a un modello diverso dal tuo con firmware rilasciato da Tiscali; purtroppo non posso aiutarti.

Rispondi

**nino** scrive:

25 aprile 2013 alle 08:09

ho avuto modo di vedere un po' in giro e ho visto che thompson e tecnicolor sono praticamente la stessa cosa...non ne sai nulla?

Rispondi

**Gabriele Notte** scrive:

26 aprile 2013 alle 19:04

Technicolor è stata acquisita da Thompson che adesso ne riproduce i marchi, ma ti prego di notare:

1 il TG784 e il TG784n sono 2 modelli diversi

2 il modello che utilizzo io è "brandizzato", ossia utilizza un firmware modificato dal gestore per adattarlo alla propria rete.

Davvero desolato, non mi sono mai tirato indietro a una risposta, ma davvero non posso aiutarti.

Rispondi

**nino** scrive:

27 aprile 2013 alle 08:39

anche il mo penso abbia un firmware fastweb anche se riesco ad entrare nella conf e in telnet.... vorrei tentare ugualmente qualcosa...tanto anche se si rompe non farà nulla.....grazie comunque.....

**Simone** scrive:

2 maggio 2013 alle 11:47

Ottima guida !

Il mio router è TG784n: mi aiuti a rendere visibile dall'esterno un disco fisso Lacie ?

Grazie

Rispondi

**Gabriele Notte** scrive:

2 maggio 2013 alle 16:03

Purtroppo non ho mai fatto una cosa simile, non saprei come aiutarti. Senza contare che, come già specificato, la mia guida si riferisce al TG784. Sì, il TG784 e il TG784n sono modelli diversi

Rispondi

**Angelo** scrive:

23 maggio 2013 alle 09:51

Per il modello tg784n v3 per ora l'unico modo di navigare con altre compagnie è quello di modificare il file di configurazione a manina...se volete vi posso aiutare...io attualmente lo uso su linea infostrada e funziona tutto per bene...

Rispondi

**nino** scrive:

23 maggio 2013 alle 11:05

angelo.....se mi potessi aiutare te ne sarei molto grato.....ho scaricato il file di config. ma non so dove mettere mani....come linea adsl uso teletu'

Rispondi

**Angelo** scrive:

23 maggio 2013 alle 12:18

allora nino partiamo con ordine, non è molto difficile ma se sbagliamo non funziona..per prima cosa devi rifare la configurazione dall'inizio inserendo i dati corretti (li trovi qui <http://supporto.teletu.it/assistenza-tecnica/configurazioni/modem-e-router-adsl/> )  
ovviamete anche le tue credenziali di accesso alla rete...quando hai finito salva la configurazione e scaricatela sul pc... poi vai qui ( <https://docs.google.com/file/d/0B7Y0fZvN7UuveV9tRG1BYUNyTzA/edit?usp=sharing> ) e scarica questa configurazione (questa è la mia funzionante con infostrada)...con un editor di testo aggiungi i tuoi mac address (che prelevi dal tuo file di configurazione salvato) alle voci dhcs.ini e hostmgr.ini (per facilitarti troverai scritto MACADDRESS dove devi sostituire) e ovviamente cambia anche nome utente e password di connessione alla voce ppp.ini (le prendi dal tuo file che hai salvato...purtroppo per ora si può fare solo così perché sono cifrate)...  
abbiamo finito, ricarica la nuova configurazione poi con il cavo di rete ti connetti al router ( le pass di accesso sono admin e admin) e imposta il wireless come vuoi ssid password ecc ecc. il tutto è testato e funziona tutto anche la condivisione di file e stampanti...se hai bisogno fai un fischio...ciao

Rispondi

**nino** scrive:

24 maggio 2013 alle 13:08

Angelo se mi puoi dare un'altro aiutino per favore....non riesco a far funzionare la stampante collegata al tg784n v3

Rispondi

**Angelo** scrive:

23 maggio 2013 alle 18:09

nino io ti ho risposto ma il commento è in attesa di moderazione...se vuoi ci sentiamo x mail [campanelliangelo@gmail.com](mailto:campanelliangelo@gmail.com)



Rispondi

**Gabriele Notte** scrive:

23 maggio 2013 alle 18:41

Non prendo responsabilità per i commenti... che tra l'altro non ho tempo di testare ps è finito in moderazione per una scelta automatica di wordpress... probabilmente con tutti quei link ti avrà visto come ipotetico spammer

Rispondi

**nino** scrive:

24 maggio 2013 alle 11:21

angelo sei un genio.....non ho testato a pieno ma al momento funziona tutto.....grazie.....

Rispondi

**angelo** scrive:

24 maggio 2013 alle 16:27

adesso non esageriamo...bastava abilitare il nat e modificare un paio di cosine cmq quel router è una bomba!!! a presto...ciao

Rispondi

**nino** scrive:

25 maggio 2013 alle 11:53

no posso esagerare...visto che in rete da un mese non trovavo nulla in merito.....sono riuscito a configurare la stampante....sai se funziona anche la porta wan.....

Rispondi

**Angelo** scrive:

25 maggio 2013 alle 16:08

per la porta wan non ti so dire....comunque se è supportata dal firmware sicuramente funziona perchè alla configurazione non è stato tolto niente...

**Angelo** scrive:

23 maggio 2013 alle 18:48

lo capisco Gabriele, per questo ho messo il mio indirizzo mail...tra l'altro la guida l'avevo già postata su un altro forum (che non mi sembra il caso di scrivere onde evitare spam)...

Rispondi

**Angelo** scrive:

23 maggio 2013 alle 18:49

P.s ma sei di Capurso??

Rispondi

**Gabriele Notte** scrive:

27 maggio 2013 alle 20:42

No, ma ci sei andato vicino

Rispondi

**Marcus Leo Wood** scrive:

26 luglio 2013 alle 12:04

Ragazzi, avete news sulle credenziali di root del 784N con firmware 8.C.D.9

Rispondi

**elka44** scrive:

26 luglio 2013 alle 12:27

SU 8 L C 6, BISOGNA INSERIRE Administrator...senza passw

Rispondi

**Angelo Campanelli** scrive:

9 settembre 2013 alle 13:12

Ragazzi è stata rilasciata una versione firmware no brand... se a qualcuno interessa la mia mail è quella scritta qualche commento sopra...ciao

Rispondi

**andrea** scrive:

1 marzo 2014 alle 16:44

sei semplicemente un grande non so come ringraziarti!!!! idolooo

Rispondi

**Gabriele Notte** scrive:

5 marzo 2014 alle 18:16

uhm.... grazie

Rispondi

**Marcello Testi** scrive:

16 marzo 2014 alle 21:36

Grazie mille, sono un vecchio cliente Tiscali (con VOIP) e ultimamente il DNS funziona malissimo. Grazie alle tue dritte sono riuscito a impostare quelli che volevo io, ora a disposizione di tutti i device collegati al mio router. Molto utile!

Rispondi

**Gabriele Notte** scrive:

20 marzo 2014 alle 21:13

Eh, grazie mille!

Rispondi

**Franzicone** scrive:

18 marzo 2014 alle 12:21

Ciao, mi risolveresti un milione di problemi se mi aiutassi con il mio modem TG784n v3. Ho fastweb, e non riesco in alcun modo ad aprire delle porte che mi servono...Aiutami ti prego

Rispondi

**Gabriele Notte** scrive:

20 marzo 2014 alle 21:16

Come scritto in apertura la guida fa riferimento al TG784, il TG784n è un modello diverso e purtroppo non ho modo di aiutarti direttamente. Se il router te l'ha imposto fastweb puoi rivolgerti alla loro assistenza tecnica. Altrimenti, puoi provare [qui](#)

Rispondi

[Blog su WordPress.com.](#) | [The Dusk To Dawn Theme.](#)

Iscriviti

## Segui “Vuoto Inquieto”

Con tecnologia WordPress.com



Thinking of moving to PlusNet Broadband?  
You can support this site by signing up via the above link.

---

# Telnet Commands for a Thomson / Technicolor Router

Tested on a TG587n V2 but may work on other Thomson  
routers

## **Important**

Use the routers web interface to backup the router settings before playing.  
Reinstalling the backup or in the worst case resetting to factory default and reinstalling the backup should get things back to how they were.  
Use these commands at your own risk.

## **Enable Telnet in Vista or Windows 7**

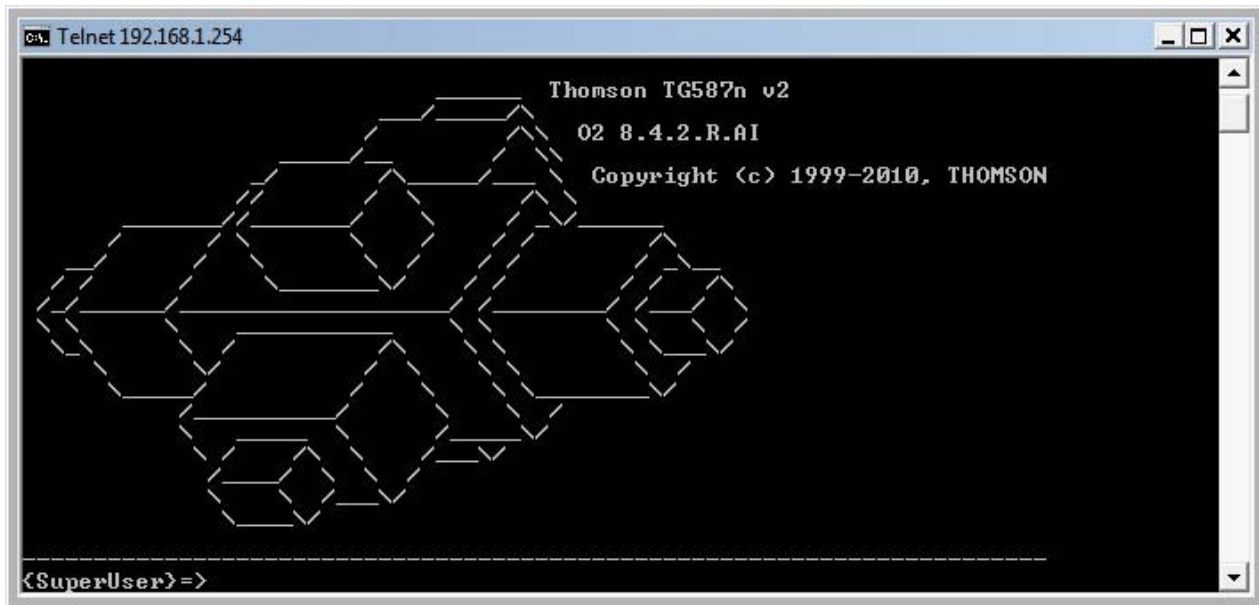
If using Vista or Windows 7, telnet is not enabled by default but it's very easy to do and you only need do this once.  
Go to "Control Panel" > "Programs and Features" > click on "Turn windows Features On and Off" > place a tick in "Telnet Client" > click ok.

## **Start a telnet session to the router.**

Click on "start" in the bottom left corner of the desk top, in the search box (vista) or run box (windows xp) type ***command*** then press enter.

A black command window should pop up, in here type ***telnet 192.168.1.254***

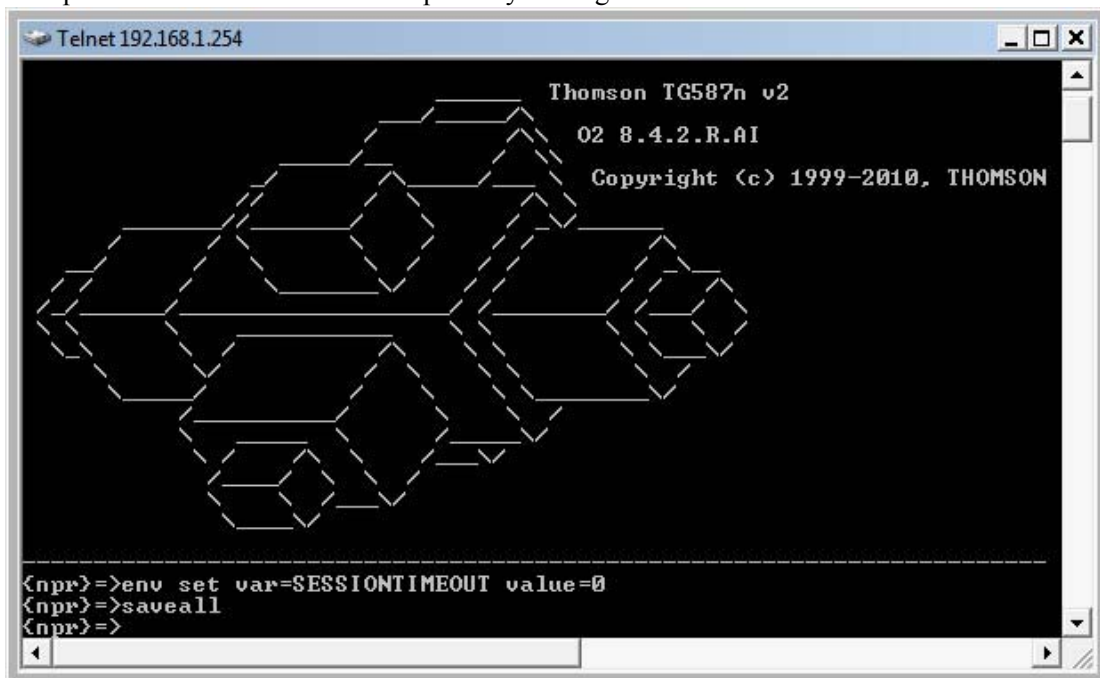
You will be asked for your routers username and then password, it's the same ones used to access the routers web interface.



```
ca: Telnet 192.168.1.254
Thomson TG587n v2
02 8.4.2.R.AI
Copyright (c) 1999-2010, THOMSON

-----
<SuperUser>=>
```

The first thing to do is disable the routers telnet timeout.  
This prevents the telnet session unexpectedly closing.



```
Telnet 192.168.1.254
Thomson TG587n v2
02 8.4.2.R.AI
Copyright (c) 1999-2010, THOMSON

-----
<npr>=>env set var=SESSIONTIMEOUT value=0
<npr>=>saveall
<npr>=>
```

Just enter the two commands as shown above to permanently disable the timeout.

### Telnet example

This example displays the IP address of the DNS resolvers held in the router.  
Issue the command "*dns server route list*"

```

c:\ Telnet 192.168.1.254
-----
<SuperUser>=>dns server route list
DNS Server Entries:
DNS Server      Source      Label      Metric Intf      State
Domain
S 208.67.222.222          *          5         O2_ADSL2plus  UP
S 208.67.220.220          *          10        O2_ADSL2plus  UP
<SuperUser>=>

```

Make a note of the interface shown here, it will be needed in some other commands on this page.  
eg. the interface shown above is *O2\_ADSL2plus* this may not be the same as shown by your router.

### Set the router to use OpenDNS -- R8 Firmware

Command	Comments
<i>dns server route list</i>	List all DNS resolvers set
<i>dns server route flush</i>	Clear
<i>dns server route add dns=208.67.222.222 metric=0 intf=Internet</i>	See note (1) below regardi
<i>dns server route add dns=208.67.220.220 metric=0 intf=Internet</i>	See note (1) below regardi
<i>dns server route list</i>	List all DNS resolvers set
<i>saveall</i>	Make the change permane

The ISP DNS settings may creep back in over time.

A metric value of 0 has been used to give these new DNS settings priority over any ISP settings.

eg the lower the metric the higher the priority.

### Undo, return to obtaining DNS resolvers via DHCP

Command	Comments
<i>dns server route flush</i>	Clear
<i>dns server route list</i>	List all DNS resolvers set
<i>saveall</i>	Make the change permane

May need to reboot or renew the ppp session to obtain the DNS settings.

### Set the router to use OpenDNS -- New R10 Firmware

Command	Comments
<i>dns server forward dnsset list</i>	List all DNS resolvers set
<i>dns server forward dnsset flush</i>	Clear

<i>dns server forward dnsset add set=0 dns=208.67.222.222 metric=0 intf=Internet</i>	See note (1) below regardi
<i>dns server forward dnsset add set=0 dns=208.67.220.220 metric=0 intf=Internet</i>	See note (1) below regardi
<i>dns server forward dnsset list</i>	List all DNS resolvers set
<i>saveall</i>	Make the change permane

The ISP DNS settings may creep back in over time.

A metric value of 0 has been used to give these new DNS settings priority over any ISP settings.

eg the lower the metric the higher the priority.

### Undo, return to obtaining DNS resolvers via DHCP

Command	Comments
<i>dns server forward dnsset flush</i>	Clear
<i>dns server forward dnsset list</i>	List all DNS resolvers set
<i>saveall</i>	Make the change permane

May need to reboot or renew the ppp session to obtain the DNS settings.

### Update OpenDNS using Dynamic DNS

Command	Comments
<i>dyndns service list</i>	View existing settings -- It changing
<i>dyndns service modify name=custom server=updates.dnsomatic.com updateinterval=10800</i>	Change service provider to updateinterval is 3 hours. (
<i>saveall</i>	Make the change permane

Ensure your.opendns account is set to -- enable dynamic IP update

Go to [www.dnsomatic.com](http://www.dnsomatic.com) , sign in with your OpenDNS username / password.

While there, enable update.opendns.

Go to the routers web interface Toolbox > Dynamic DNS > Configure :-

Tick "Enabled"

**Interface** -- Internet -- **See Note (1)**

**Username** -- Opendns username

**Password** -- Opendns password

**Service** -- custom

**Host** -- enter your.opendns network label or enter the catch all -- all.dnsomatic.com

Click "Apply"

Check the routers event log to confirm "dyndns host has been updated".

### Disable telnet timeout

Command	Comments
<i>env get var=SESSIONTIMEOUT</i>	Check existing setting.
<i>env set var=SESSIONTIMEOUT value=0</i>	Disable session timeout.
<i>saveall</i>	Make the change permane

**Get router stats**

Command	Comments
<i>xdsl info expand=enabled</i>	See Telnet Scripting for a

**Force connection modulation mode to ADSL1, ADSL2 or ADSL2+ (also disable Annex M)**

A useful byproduct of this command is that it causes a resync.

ie resetting the modulation to default (ie no change) can be used to force the router to perform a resync.

Command	Comments
<i>xdsl debug multimode</i>	Show all enabled modes.
<i>xdsl debug multimode config=t1.413issue2+g992.1_annex_a</i>	This forces ADSL1 (ie g9
<i>xdsl debug multimode config=t1.413issue2+g992.3_annex_a</i>	This forces ADSL2 (ie g9
<i>xdsl debug multimode config=t1.413issue2+g992.5_annex_a</i>	This forces ADSL2+ (ie g
<i>xdsl debug multimode config=t1.413issue2+g992.1_annex_a+g992.3_annex_a+g992.3_annex_l+g992.5_annex_a</i>	Disable Annex M on all c
<i>xdsl debug multimode config=t1.413issue2+g992.1_annex_a+g992.3_annex_a+g992.3_annex_l+g992.3_annex_m+g992.5_annex_a+g992.5_annex_m</i>	Default, all modes avail
<i>saveall</i>	Use one of the above com

**Drop and Re-start ADSL (resync)**

Command	Comments
<i>xdsl config status=down</i>	Drop ADSL connection
<i>xdsl config status=up</i>	Raise ADSL connection

**Drop / Start PPP Session**

With some ISP connections this may change your gateway it may also change your IP address.

Useful if your ISP sometimes has congested gateways.

Command	Comments
<i>ppp ifdetach intf=Internet</i>	Drop PPP
<i>ppp ifattach intf=Internet</i>	Connect PPP

**DHCP Client Lease Renew**

Command	Comments
<i>dhcp client ifrenew intf=Internet</i>	See note (1) below regard
<i>dhcp client iflist expand=enabled</i>	Optional -- View DHCP C

**Reboot the router**



Command	Comments
<i>system reboot</i>	

### Change router password -- I've found this troublesome using the web interface.

Command	Comments
<i>user config name=SuperUser password=mypassword</i>	Must be an existing username "Administrator"
<i>user config name=Administrator password=mypassword</i>	
<i>saveall</i>	Don't forget this!

### Create username with "root" privileges.

Command	Comments
<i>script add name=userroot command="user add name=me password=pass role=root"</i>	Change "me" and "pass" for password.
<i>script run name=userroot pars=""</i>	Run the script.
<i>saveall</i>	Don't forget this!

### Spoof routers WAN MAC

Command	Comments
<i>ip iflist expand=enabled</i>	Show routers MAC and other info
<i>ip ifdetach intf=Internet</i>	See note (1) below regarding
<i>ip ifconfig intf=Internet hwaddr=00:xx:xx:xx:xx:xx</i>	See note (1) Replace "xx" with
<i>ip ifattach intf=Internet</i>	See note (1) below regarding
<i>saveall</i>	Don't forget this!

### Disable CWMP -- Remote management by the ISP

Command	Comments
<i>service system list</i>	Show if enabled or disabled
<i>service system modify name=CWMP-S state=disabled</i>	Disable remote assistance
<i>service system modify name=CWMP-C state=disabled</i>	Disable checking for firmware
<i>saveall</i>	Don't forget this!

### Undo -- Enable CWMP -- default mode

Command	Comments
<i>service system modify name=CWMP-S state=enabled</i>	Return to default setting
<i>service system modify name=CWMP-C state=enabled</i>	Return to default setting
<i>saveall</i>	Don't forget this!

**Enable reply to Pings from WAN**

Command	Comments
<i>service system list name=PING_RESPONDER expand=enabled</i>	Check if "interface group" enabled)
<i>service system ifadd name=PING_RESPONDER group=wan</i>	Add to WAN "interface gr
<i>saveall</i>	Don't forget this!

**Undo -- Disable reply to Pings from WAN -- Default mode**

Command	Comments
<i>service system ifdelete name=PING_RESPONDER group=wan</i>	Remove WAN from "inter
<i>saveall</i>	Don't forget this!

**Disable wireless n speed**

Command	Comments
<i>wireless ifconfig</i>	Show wireless settings (o
<i>wireless ifconfig interop=802.11b/g</i>	Disable wireless n
<i>saveall</i>	Don't forget this!

**Undo -- Enable all wireless speeds (TG587n only)**

Command	Comments
<i>wireless ifconfig interop=802.11b/g/n</i>	Enable wireless b, g and n
<i>saveall</i>	Don't forget this!

**Change wireless n speed (TG582n only)**

Command	Comments
<i>wireless radio channelwidth=20 sgi=enabled</i>	Wireless Speed 144(n)
<i>wireless radio channelwidth=20/40 sgi=disabled</i>	Wireless Speed 270(n)
<i>wireless radio channelwidth=20/40 sgi=enabled</i>	Wireless Speed 300(n)
<i>wireless radio channelwidth=20 sgi=disabled</i>	Wireless Speed 130(n) <b>D</b>
<i>saveall</i>	Don't forget this!

When in 270(n) or 300(n) mode the router is not very good at switching off the extra channels when not needed or when it may cause interference to other wireless access points.  
For this reason please use these modes responsibly.

**Wireless n tweaks (TG582n only)**

Commands	Comments
----------	----------

<i>wireless radio cdd=enabled</i>	enabled = reduce dead space disabled = default
<i>wireless radio stbc=enabled</i>	enabled = Improve signal disabled = default <a href="http://en.wikipedia.org/w/index.php?title=Time_block_code">http://en.wikipedia.org/w/index.php?title=Time_block_code</a>
<i>wireless radio frameaggregation=ampdu</i>	Improve throughput by clustering amsdu -- generally most effective ampdu -- (Default) Better <a href="http://en.wikipedia.org/w/index.php?title=Aggregate_maximum_packet_size">http://en.wikipedia.org/w/index.php?title=Aggregate_maximum_packet_size</a>
<i>saveall</i>	Don't forget this!

### **Change MTU setting**

Command	Comments
<i>ip iflist</i>	Show present setting (optional)
<i>ip ifconfig intf=Internet mtu=1458</i>	See note (1) regarding "interface"
<i>ip ifconfig intf=LocalNetwork mtu=1458</i>	Set MTU for LAN
<i>saveall</i>	Don't forget this!

### **Undo -- Return to default MTU of 1500**

Command	Comments
<i>ip ifconfig intf=Internet mtu=1500</i>	See note (1) regarding "interface" WAN
<i>ip ifconfig intf=LocalNetwork mtu=1500</i>	Set 1500 MTU for LAN
<i>saveall</i>	Don't forget this!

### **Disable ethernet port**

Command	Comments
<i>eth device ifconfig intf=ethif1 state=disabled</i>	Disable ethernet port 1. (optional)
<i>saveall</i>	Don't forget this!
<i>eth device iflist</i>	List state of ports (optional)

### **Undo -- Enable ethernet port**

Command	Comments
<i>eth device ifconfig intf=ethif1 state=enabled</i>	Enable ethernet port 1. (optional)
<i>saveall</i>	Don't forget this!

### **Wireless MAC access control** -- Block a wireless connection

Command	Comments
---------	----------

<i>wireless macacl add ssid_id=0 radio_id=0 hwaddr=00:xx:xx:xx:xx:xx permission=allow</i>	Change "00:xx:xx:xx:xx:xx" PC . Only used once for each
<i>saveall</i>	

Use the following commands to stop or allow a wireless connection as required.

Command	Comments
<i>wireless macacl list</i>	Optional -- Display pres
<i>wireless macacl modify ssid_id=0 radio_id=0 hwaddr=00:xx:xx:xx:xx:xx permission=deny</i>	Deny connection from t
<i>wireless macacl modify ssid_id=0 radio_id=0 hwaddr=00:xx:xx:xx:xx:xx permission=allow</i>	Allow connection from

### Undo -- Remove from Wireless MAC access control list

Command	Comments
<i>wireless macacl list</i>	Optional -- display MA
<i>wireless macacl delete ssid_id=0 radio_id=0 hwaddr=00:xx:xx:xx:xx:xx</i>	Remove MAC from list
<i>saveall</i>	Don't forget this.

### Check which devices are connected

Command	Comments
<i>hostmgr list</i>	Look in the "Flags" column, "C" indicates connected

### Enable WPS -- This is disabled by default on some models.

Command	Comments
<i>wireless wps config state=enabled</i>	The WPS button should now work
<i>saveall</i>	

### Undo -- Disable WPS

Command	Comments
<i>wireless wps config state=disabled</i>	
<i>saveall</i>	

### Syslog -- This log survives a reboot

Command	Comments
<i>syslog msgbuf show</i>	View router log in the
<i>syslog msgbuf send dest=192.168.1.67</i>	Send all the log to sysl
<i>syslog msgbuf flush</i>	Clear the log

<a href="ftp://ftp.3com.com/pub/utilbin/win32/3CSyslog.zip">ftp://ftp.3com.com/pub/utilbin/win32/3CSyslog.zip</a> Link now dead, a google search will find a suitable syslog client.	Free syslog client from
<i>syslog config activate=enabled</i>	Enable continuous upc
<i>syslog ruleadd fac=all sev=debug dest=192.168.1.67</i>	Rule to send all the log

### Change the LAN IP of a Connected Device -- Static DHCP

Command	Comments
<i>dhcp server lease list</i>	View the pool name a
<i>dhcp server lease delete clientid=00:23:4d:xx:xx:xx</i>	First delete the device clientid = [the MAC a
<i>dhcp server lease add clientid=00:23:4d:xx:xx:xx pool=LAN_private addr=192.168.1.100 leasetime=0</i>	clientid = [the MAC a pool = [the pool name addr = [the lan IP you 252] leasetime=0 [infinite l
<i>saveall</i>	Don't forget this.
Reboot the device to obtain the new IP address	

### Disable the Factory Reset Button

**Caution -- If you forget the username or password you will be locked out of the router permanently. Be very sure you know the risks before using this command.**

<b>Command</b>
<i>system config resetbutton=disabled</i>
<i>saveall</i>

### Undo -- Enable the Factory Reset Button (Default)

<b>Command</b>
<i>system config resetbutton=enabled</i>
<i>saveall</i>

### Fix a Problem with VOIP not working

<b>Command</b>
<i>connection unbind application=SIP port=5060</i>
<i>saveall</i>

### Undo -- Default

<b>Command</b>
<i>connection bind application=SIP port=5060</i>
<i>saveall</i>

**Disable Intrusion Detection (IDS)** May help with online game problems but reduces security.

<b>Command</b>
<i>ids config state=disabled</i>
<i>saveall</i>

### **Undo**

<b>Command</b>
<i>ids config state=enabled</i>
<i>saveall</i>

---

### **Disable CPU Low Clock Speed -- TG587n v2 and TG582n**

Make the router more responsive.

Command	Comments
<i>pwr config</i>	Optional - view state
<i>pwr config cpu-lowspeed=disabled</i>	Disable slow speed CPU
<i>saveall</i>	Make permanent

### **Undo -- default**

Command	Comments
<i>pwr config cpu-lowspeed=enabled</i>	Enable slow speed CPU
<i>saveall</i>	Make permanent

### **Additional *pwr config* commands**

Command	Comments
<i>pwr config eco-manager=enabled / disabled</i>	The ECO manager
<i>pwr config cpu-microsleep=enabled / disabled</i>	Allow the CPU to use low power instructions
<i>pwr config cpu-lowspeed=enabled /disabled</i>	Allows the CPU to adjust it's clock speed.
<i>pwr config usb-controller=enabled / disabled</i>	The USB controller
<i>pwr config wlan-pwrcontrol=enabled / disabled</i>	Wireless LAN power control

Note:

There are reports that having these power settings enabled can cause intermittent network and internet access problems. Disabling all of these settings followed by a router reboot cured the problem. Awaiting more information on this issue.

---

### **Cone-type NAT's for Teredo Tunneling**

Required for [Windows Meeting Space](#)

The default for a Thomson router is symmetric-type NATs

UPnP needs to be enabled in the routers GUI.

Test with Microsoft's [Internet Connectivity Evaluation Tool](#)

<b>Command</b>
<i>connection bind application=CONE(UDP) port=3544</i>
<i>saveall</i>

### **Undo -- return to the default of symmetric-type NATs**

<b>Command</b>
<i>connection unbind application=CONE(UDP) port=3544</i>
<i>saveall</i>

---

### **Log Web Site Visits**

<b>Command</b>	<b>Comments</b>
<i>dsd config state=enabled</i>	Enable address based filtering.
<i>dsd syslog config syslog=all</i>	Select what to log
<i>saveall</i>	Make the change permanent.
<i>dsd syslog list</i>	Use this command to view the log. Alternatively use a syslog client as show in the syslog commands above.
<i>syslog msgbuf flush</i>	Empty the log. -- Optional

This may quickly fill the routers memory and cause unexpected issues.

### **Undo**

<b>Command</b>	<b>Comments</b>
<i>dsd syslog config syslog=none</i>	
<i>dsd config state=disabled</i>	
<i>saveall</i>	

---

### **SNTP -- Change time server settings**

<b>Command</b>	<b>Comments</b>
<i>sntp list</i>	List the time servers
<i>sntp add name=2.uk.pool.ntp.org</i>	Add a time server. This can be done in the routers GUI
<i>sntp delete name=2.uk.pool.ntp.org</i>	Delete a time server. This can be done in the routers GUI
<i>sntp config poll=360</i> <i>saveall</i>	Set poll interval to 6 hours. Default is 60 minutes.
<i>system settime</i>	View system time settings

---

**Unbind the FTP ALG -- Fix access problem to a local FTP server from the internet.**

Normal port forward rules are still required.

Command	Comments
<i>connection bindlist</i>	Optional - view the bind list
<i>connection unbind application=FTP port=21</i>	Unbind the FTP helper
<i>connection bindlist</i>	Optional - view the bind list
<i>saveall</i>	Make permanent

**Undo**

Command	Comments
<i>connection bind application=FTP port=21</i>	Bind the FTP helper to port 21
<i>connection bindlist</i>	Optional - view the bind list
<i>saveall</i>	Make permanent

---

**DLNA Server (Media Sharing) Not Discovered Across LAN / WLAN. SOLVED** This issue is present in firmware 8.2.7.7 Don't know about other firmware versions.

Command	Comments
<i>eth bridge igmpsnooping config</i>	View present state. If state=enabled then apply the fix
<i>eth bridge igmpsnooping config brname=bridge state=disabled</i>	Apply fix
<i>saveall</i>	Make permanent

**Turn Off LED Lights**

Command	Comments
<i>system qual led value=alloff</i>	Turn all LED's off
<i>saveall</i>	Make permanent

**Undo -- Enable LED lights**

Command	Comments
<i>system qual led value=unlock</i>	Enable LED's
<i>saveall</i>	Make permanent

**Correct The Decimal (.) and Digit (,) Separators**

Some firmware versions confuse the decimal point with the comma.



Command	Comment
<i>system locale</i>	Display present settings
<i>system locale dec_symbol=.</i>	Assign the decimal point
<i>system locale group_symbol=,</i>	Assign the comma
<i>saveall</i>	Make permanent

### No Auto Retrain

Prevent reconnecting after dropping the ADSL connection

Commands	Comments
<i>xdsl qual freeze-showtime state=enabled</i>	Stop reconnecting
<i>saveall</i>	Make permanent

### Undo

Commands	Comments
<i>xdsl qual freeze-showtime state=disable</i>	Default
<i>saveall</i>	Make permanent

### Note (1) :

The "*intf=Internet*" part of the above commands may need to be changed depending on the routers firmware. ie "*intf=Internet*" should be correct for standard firmware.

O2 supplied routers may need "*intf=Internet*" replacing with :-

For O2 supplied routers on a LLU connections replace with "*intf=O2\_ADSL2plus*" or in some cases "*intf=RoutedEthoA*"

For O2 supplied routers on the Access service replace with "*intf=O2\_ADSL*"

Hint - You can check which one to use for the WAN interface by looking at the results from the "*dns server route list*" command.

See the screen capture below, in this case it's "*intf=O2\_ADSL2plus*".

```

Ca. Telnet 192.168.1.254
-----
<SuperUser>=>dns server route list
DNS Server Entries:
DNS Server   Source      Label      Metric Intf      State
-----
$ 208.67.222.222      *          5         O2_ADSL2plus  UP
$ 208.67.220.220      *          10        O2_ADSL2plus  UP
<SuperUser>=>

```

### Note (2)

To close the telnet session type -- **exit** -- press "enter"



Thinking of moving to PlusNet Broadband?  
You can support this site by signing up via the above link.

---

## Reference

[CLI Reference Guide TG857n v2 r8.4.3](#)

This reference guide also shows all the hidden commands.

[Source](#) Produced by Alex at [www.modem-help.co.uk](http://www.modem-help.co.uk)

Thomson [CLI Reference Guide TG587n](#)

Thomson [CLI Reference Guide TG585 v7](#)

Technicolor [Customer Release Note - Main Track R8.4.3 Maintenance 2](#)

---

# Telnet Project for Thomson / Technicolor Routers

[Telnet commands for a Thomson router](#)

[Change DNS Settings on a Thomson Router](#) -- (Two methods)

[Multiple SSID](#)

[Web Access Control Schedule \(TOD\)](#)

[Web content filter](#)

[Telnet scripting](#)

[Enable WDS](#)

[Connect Two Thomson Routers Together](#)

[Basic DMZ on a Thomson Router](#)

[Advanced DMZ on a Thomson TG587n](#)

[Forward all ports to a specific LAN IP](#)

[IP QoS](#)

[Wake on LAN from Internet](#)

[Xbox and PS3 on a Thomson router](#)

**[Remote Access to a Thomson Router](#)**

**[Fix a problem with VPN Connections](#)** (Firmware Release 8.4.3 only)

**[Bridge Mode and Create a EWAN Port](#)**

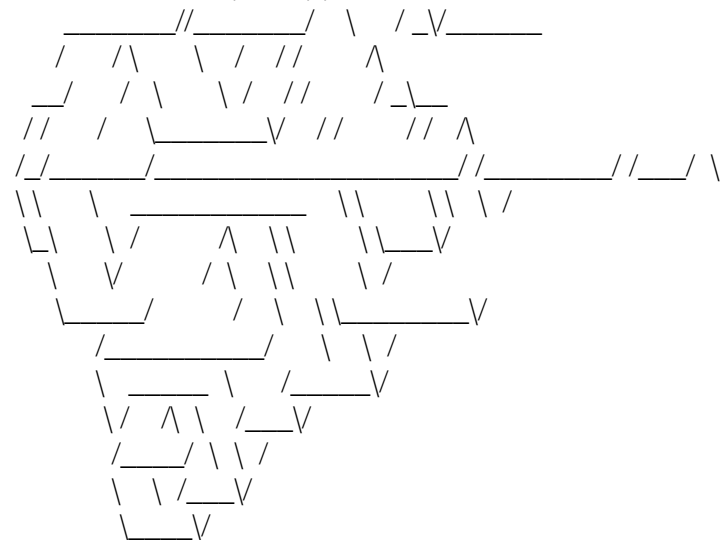
**[Home Page](#)**

Copyright© NPR 2010 - 2014 [Disclaimer](#)

-----  
Thomson TG784

8.2.7.7

Copyright (c) 1999-2010, THOMSON



-----  
Following commands are available :

help : Displays this help information  
menu : Displays menu  
? : Displays this help information  
exit : Exits this shell.  
.. : Exits group selection.  
saveall : Saves current configuration.  
ping : Send ICMP ECHO\_REQUEST packets.  
traceroute : Send ICMP/UDP packets to trace the ip path.

Following command groups are available :

contentsharing	firewall	printersharing	service	connection
cwmp	dhcp	dns	dsl	dyndns
eth	atm	config	debug	env
expr	grp	hostmgr	ids	igmp
interface	ip	ipqos	label	language
mbus	memm	mlp	nat	ppp
pptp	script	sntp	software	statecheck
system	systemlog	tls	tod	upgrade
upnp	user	voice	wansensing	wireless
xdsl				

Following commands are available :

help : Displays this help information  
menu : Displays menu  
? : Displays this help information

exit : Exits this shell.  
.. : Exits group selection.  
saveall : Saves current configuration.  
ping : Send ICMP ECHO\_REQUEST packets.  
traceroute : Send ICMP/UDP packets to trace the ip path.

Following command groups are available :

contentsharing	firewall	printersharing	service	connection
cwmp	dhcp	dns	dsd	dyndns
eth	atm	config	debug	env
expr	grp	hostmgr	ids	igmp
interface	ip	ipqos	label	language
mbus	memm	mlp	nat	ppp
pptp	script	sntp	software	statecheck
system	systemlog	tls	tod	upgrade
upnp	user	voice	wansensing	wireless
xdsl				

Following commands are available :

help : Displays this help information  
menu : Displays menu  
? : Displays this help information  
exit : Exits this shell.  
.. : Exits group selection.  
saveall : Saves current configuration.  
ping : Send ICMP ECHO\_REQUEST packets.  
traceroute : Send ICMP/UDP packets to trace the ip path.

Following command groups are available :

contentsharing	firewall	printersharing	service	connection
cwmp	dhcp	dns	dsd	dyndns
eth	atm	config	debug	env
expr	grp	hostmgr	ids	igmp
interface	ip	ipqos	label	language
mbus	memm	mlp	nat	ppp
pptp	script	sntp	software	statecheck
system	systemlog	tls	tod	upgrade
upnp	user	voice	wansensing	wireless
xdsl				

adsl

Following commands are available :

info : Displays status information about modem  
config : Modify/Display dsl configuration

Following command groups are available :

debug qual

adsl config

Modify/Display dsl configuration

Syntax : config [xdsltype = <{adsl|adsl2|adsl2+}>]

[detect-lop = <{disabled|enabled}>]  
[syslog = <{disabled|enabled}>]

Parameters :

[xdsltype = <{adsl|adsl2|adsl2+}>]  
alias opermode xsdsltype=adsl alias opermode=multimode; xsdsltype=adsl2  
alias opermode=multi\_readsl2; xsdsltype=adsl2+ alias opermode=  
multi\_adsl2plus  
[detect-lop = <{disabled|enabled}>]  
Detect Loss Of Power  
[syslog = <{disabled|enabled}>]  
Log in syslog during showtime

adsl debug

Following commands are available :

bitloadinginfo : Displays # bits per tone  
deltconfig : Dual Ended Line Testing interface  
deltinfo : Dual Ended Line Test result display  
modemoptioninfo : The modem options bitmap display  
multimode : Config custom multimode  
traceconfig : Config the adsl tracelevel

adsl debug bitloadinginfo

Displays # bits per tone

Syntax : bitloadinginfo

adsl debug deltconfig

Dual Ended Line Testing interface

Syntax : deltconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable dual ended line testing

adsl debug deltinfo

Dual Ended Line Test result display

Syntax : deltinfo

adsl debug modemoptioninfo

The modem options bitmap display

Syntax : modemoptioninfo

adsl debug multimode

Config custom multimode

Syntax : multimode [config = <[+/-]flag[+/-flag...]{default t1.413issue2  
g992.1\_AnnexA g992.2 g992.3\_AnnexA g992.3\_AnnexL  
g992.3\_AnnexM g992.5\_AnnexA g992.5\_AnnexM}>]

Parameters :

[config = <[+/-]flag[+/-flag...]{default t1.413issue2 g992.1\_AnnexA g992.2  
g992.3\_AnnexA g992.3\_AnnexL g992.3\_AnnexM g992.5\_AnnexA  
g992.5\_AnnexM}>]

The custom multimode bitmap

adsl debug traceconfig

Config the adsl tracelevel

Syntax : traceconfig level = <{0|1|2}>

Parameters :

level = <{0|1|2}>

Trace Level (0=disable tracing; 1=enable dsl manager tracing; 2=enable dsl driver tracing)

adsl info

Displays status information about modem

Syntax : info [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Enable/Disable expand line info

adsl qual

Following commands are available :

lov : Longitudinal Balance (LOV) Test Mode -continuously sending-

lcl : Longitudinal Balance (LCL) Test Mode -online quiet-

adsl qual alb

Analog front end LoopBack Test Mode

Syntax : alb address = <ip-address>

port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>

Parameters :

address = <ip-address>

Remote IP Address

port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>

Remote IP Port

adsl qual lcl

Longitudinal Balance (LCL) Test Mode -online quiet-

Syntax : lcl

adsl qual lov

Longitudinal Balance (LOV) Test Mode -continuously sending-

Syntax : lov type = <{normal|annex\_1\_wide|annex\_1\_narrow}>

Parameters :

type = <{normal|annex\_1\_wide|annex\_1\_narrow}>  
Type of (LOV) Test Mode

adsl qual mib

Retrieve extra adsl info Test Mode

Syntax : mib address = <ip-address>

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

Parameters :

address = <ip-address>

Remote IP Address

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

Remote IP Port

adsl qual qln

Quiet Line Noise Test Mode

Syntax : qln address = <ip-address>

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

Parameters :

address = <ip-address>

Remote IP Address

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-



```
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
snmptrap|snpp|snmp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows} or number>
```

Remote IP Port

ar

Following command groups are available :

group

ar group

Following command groups are available :

member

ar group member

Following commands are available :

```
add          : add member
delete       : delete member
list         : members
```

ar group member add

add member

```
Syntax : add groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|uucp|
proxy|kmem|dialout|fax|voice|cdrom|floppy|tape|sudo|
audio|dip|postgres|www-data|backup|operator|list|irc|
src|gnats|shadow|utmp|video|staff|games|users|nogroup|
SuperUser|TechnicalSupport|Administrator|LAN_Admin|
PowerUser|WAN_Admin}>
username = <{Administrator|su|tech|steve}>
```

Parameters :

```
groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|uucp|proxy|kmem|
dialout|fax|voice|cdrom|floppy|tape|sudo|audio|dip|postgres|www-
data|backup|operator|list|irc|src|gnats|shadow|utmp|video|staff|
games|users|nogroup|SuperUser|TechnicalSupport|Administrator|
LAN_Admin|PowerUser|WAN_Admin}>
```

```
username = <{Administrator|su|tech|steve}>
```

ar group member delete

delete member

```
Syntax : delete groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|
uucp|proxy|kmem|dialout|fax|voice|cdrom|floppy|
tape|sudo|audio|dip|postgres|www-data|backup|
operator|list|irc|src|gnats|shadow|utmp|video|
staff|games|users|nogroup|SuperUser|
TechnicalSupport|Administrator|LAN_Admin|PowerUser|
WAN_Admin}>
username = <{Administrator|su|tech|steve}>
```

Parameters :

```
groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|uucp|proxy|kmem|
dialout|fax|voice|cdrom|floppy|tape|sudo|audio|dip|postgres|www-
```

```
data|backup|operator|list|irc|src|gnats|shadow|utmp|video|staff|
games|users|nogroup|SuperUser|TechnicalSupport|Administrator|
LAN_Admin|PowerUser|WAN_Admin}>
```

```
username = <{Administrator|su|tech|steve}>
```

```
ar group member list
```

```
members
```

```
Syntax : list [groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|
uucp|proxy|kmem|dialout|fax|voice|cdrom|floppy|tape|
sudo|audio|dip|postgres|www-data|backup|operator|
list|irc|src|gnats|shadow|utmp|video|staff|games|
users|nogroup|SuperUser|TechnicalSupport|
Administrator|LAN_Admin|PowerUser|WAN_Admin}>]
```

```
Parameters :
```

```
[groupname = <{root|daemon|bin|sys|adm|tty|disk|lp|mail|news|uucp|proxy|
kmem|dialout|fax|voice|cdrom|floppy|tape|sudo|audio|dip|
postgres|www-data|backup|operator|list|irc|src|gnats|shadow|
utmp|video|staff|games|users|nogroup|SuperUser|
TechnicalSupport|Administrator|LAN_Admin|PowerUser|
WAN_Admin}>]
```

```
atm
```

```
Following commands are available :
```

```
ifadd      : Create a new ATM interface.
ifdelete   : Delete an ATM interface.
ifattach   : Attach an ATM interface.
ifdetach   : Detach an ATM interface.
ifconfig   : Modify an ATM interface.
iflist     : Display the ATM interfaces.
flush      : Flush all ATM interfaces.
```

```
Following command groups are available :
```

```
cac      debug      oam      phonebook  qosbook
```

```
atm cac
```

```
Following commands are available :
```

```
config      : Configure ATM connection admission control.
overbooking : Configure ATM overbooking parameters.
list        : List all CAC parameters.
```

```
atm cac config
```

```
Configure ATM connection admission control.
```

```
Syntax : config port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>
state = <{disabled|enabled}>
```

```
Parameters :
```

```
port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>
```

```
The port for which CAC is configured.
```

```
state = <{disabled|enabled}>
```

Enable/disable CAC for an ATM port.

atm cac list

List all CAC parameters.

Syntax : list

atm cac overbooking

Configure ATM overbooking parameters.

Syntax : overbooking [rt = <number{0-1000}>] [nrt = <number{0-1000}>]

Parameters :

[rt = <number{0-1000}>]

The realtime overbooking percentage.

[nrt = <number{0-1000}>]

The non-realtime overbooking percentage.

atm debug

Following commands are available :

traceconfig : Display/Modify AAL5 debug trace configuration.

portstats : Display port specific atm statistics.

aal5stats : Display AAL5 port specific atm statistics.

gstats : Display ATM global statistics.

atm debug aal5stats

Display AAL5 port specific atm statistics.

Syntax : aal5stats port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

vpi = <number{0-31}> [vci = <number{0-511}>]

[clear = <{disabled|enabled}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The port number for which statistics will be retrieved.

vpi = <number{0-31}>

The VPI number for which statistics will be retrieved.

[vci = <number{0-511}>]

The VCI number for which statistics will be retrieved.

[clear = <{disabled|enabled}>]

Clear the statistics after request.

atm debug gstats

Display ATM global statistics.

Syntax : gstats [clear = <{disabled|enabled}>]

Parameters :

[clear = <{disabled|enabled}>]

Clear the statistics after request.

atm debug portstats

Display port specific atm statistics.

Syntax : portstats port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

[clear = <{disabled|enabled}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The port for which statistics will be retrieved.

[clear = <{disabled|enabled}>]

Clear the statistics after the request.

### atm debug traceconfig

Display/Modify AAL5 debug trace configuration.

Syntax : traceconfig [len = <number>] [intf = <{ }>]  
[state = <{disabled|enabled}>]

Parameters :

[len = <number>]

Maximum number of AAL5 payload bytes that will be shown (0-2000, global setting).

[intf = <{ }>]

The name of the ATM interface to configure.

[state = <{disabled|enabled}>]

Enable/disable AAL5 debug tracing.

### atm flush

Flush all ATM interfaces.

Syntax : flush

atm ifadd

Create a new ATM interface.

Syntax : ifadd intf = <string>

Parameters :

intf = <string>

The name for the new ATM interface. If not specified, the destination will double as interface name.

### atm ifattach

Attach an ATM interface.

Syntax : ifattach intf = <{ }>

Parameters :

intf = <{ }>

The name of the ATM interface.

### atm ifconfig

Modify an ATM interface.

Syntax : ifconfig intf = <{ }> [dest = <{ }>] [qos = <{default}>]  
[clp = <{0|1|classification}>] [clpthresh = <number{0-15}>]  
[encaps = <{llc|vcmux}>] [fcs = <{disabled|enabled|auto}>]  
[ulp = <{mac|ip|ppp}>] [retry = <number{0-65535}>]

Parameters :

intf = <{ }>

The name of the ATM interface to configure.

[dest = <{ }>]

The WAN destination for this ATM interface. Typically, a phonebook entry.

[qos = <{default}>]

The name of a qosbook entry defining the QoS parameters for the WAN link.

[clp = <{0|1|classification}>]

The mode used to determine the CLP bit value.

[clpthresh = <number{0-15}>]

Priority class threshold where CLP becomes 0 (for all classes >= threshold).

[encaps = <{llc|vcmux}>]

The WAN protocol encapsulation to be used on this interface.

[fcs = <{ disabled|enabled|auto }>]

Whether or not to include the Ethernet FCS in the packet header (only used for llc encapsulation for mac).

[ulp = <{ mac|ip|ppp }>]

The upper layer protocol.

[retry = <number{0-65535}>]

The number of times the WAN connection setup should retry before giving up.

atm ifdelete

Delete an ATM interface.

Syntax : ifdelete intf = <{ }>

Parameters :

intf = <{ }>

The name of the ATM interface.

atm ifdetach

Detach an ATM interface.

Syntax : ifdetach intf = <{ }>

Parameters :

intf = <{ }>

The name of the ATM interface.

atm iflist

Display the ATM interfaces.

Syntax : iflist [intf = <{ }>]

Parameters :

[intf = <{ }>]

The name of an ATM interface.

atm oam

Following commands are available :

ping : Send ATM loopback cells.  
config : Modify the ATM OAM settings.  
modify : Modify the ATM OAM data blocking mode.  
list : Display the ATM OAM settings.

Following command groups are available :

cc vclb

atm oam cc

Following commands are available :

modify : Modify CC on the connection.  
send : Send CC activate/deactivate to connection.  
list : Display CC configuration.

atm oam cc list

Display CC configuration.

Syntax : list

atm oam cc modify

Modify CC on the connection.

Syntax : modify port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>  
vpi = <number{0-31}> [vci = <number{0-511}>]  
[transmit = <{disabled|enabled}>]  
[receive = <{disabled|enabled}>]  
[auto = <{disabled|enabled}>] [span = <{segment|end2end}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The ATM port number.

vpi = <number{0-31}>

The Virtual Path Identifier.

[vci = <number{0-511}>]

The Virtual Channel Identifier.

[transmit = <{disabled|enabled}>]

Enable/disable transmission of CC cells.

[receive = <{disabled|enabled}>]

Enable/disable loss of continuity.

[auto = <{disabled|enabled}>]

Enable/disable remote CC activation/deactivation.

[span = <{segment|end2end}>]

End2end or segment continuity check.

atm oam cc send

Send CC activate/deactivate to connection.

Syntax : send port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

vpi = <number{0-31}> [vci = <number{0-511}>]

[span = <{segment|end2end}>] [action = <{activate|deactivate}>]

[direction = <{source|sink|both}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The ATM port number.

vpi = <number{0-31}>

The Virtual Path Identifier.

[vci = <number{0-511}>]

The Virtual Channel Identifier.

[span = <{segment|end2end}>]

Send CC action end2end or segment.

[action = <{activate|deactivate}>]

The CC action.

[direction = <{source|sink|both}>]

Source, sink or both (default: both).

atm oam config

Modify the ATM OAM settings.

Syntax : config [clp = <number{0-1}>] [loopbackid = <string>]

Parameters :

[clp = <number{0-1}>]

The CLP bit value of the OAM cells.

[loopbackid = <string>]

The loopback id (hexadecimal string) for processing of segment loopback cells.

atm oam list

Display the ATM OAM settings.

Syntax : list

#### atm oam modify

Modify the ATM OAM data blocking mode.

Syntax : modify port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>  
blocking = <{disabled|enabled}>

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The port for which OAM blocking is configured.

blocking = <{disabled|enabled}>

Enable/disable OAM blocking.

#### atm oam ping

Send ATM loopback cells.

Syntax : ping dest = <{ }> [count = <number{ 1-1000000}>]  
[interval = <number{ 100-1000000}>]

Parameters :

dest = <{ }>

The destination address for the request.

[count = <number{ 1-1000000}>]

The number of pings to send.

[interval = <number{ 100-1000000}>]

The interval in milliseconds between packets.

#### atm oam vclb

Following commands are available :

add : Create a loopback connection for VC

del : Delete a loopback connection for VC

list : List all VC loopback connections

#### atm oam vclb add

Create a loopback connection for VC

Syntax : add port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>  
vpi = <number{0-31}> [vci = <number{0-511}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The ATM port number.

vpi = <number{0-31}>

The Virtual Path Identifier.

[vci = <number{0-511}>]

The Virtual Channel Identifier.

#### atm oam vclb del

Delete a loopback connection for VC

Syntax : del port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>  
vpi = <number{0-31}> [vci = <number{0-511}>]

Parameters :

port = <{dsl0|dsl1|atm2|atm3|aal5|atm5} or number>

The ATM port number.

vpi = <number{0-31}>

The Virtual Path Identifier.

[vci = <number{0-511}>]

The Virtual Channel Identifier.

atm oam vclb list

List all VC loopback connections

Syntax : list

atm phonebook

Following commands are available :

list : Display the phonebook.  
add : Add a new phonebook entry.  
delete : Delete a phonebook entry.  
flush : Flush all phonebook entries.

atm phonebook add

Add a new phonebook entry.

Syntax : add name = <string>

addr = <atmchannel : PVC syntax is [port.]vpi.vci port=dsl0|dsl1|...>

Parameters :

name = <string>

The phonebook name for this destination.

addr = <atmchannel : PVC syntax is [port.]vpi.vci port=dsl0|dsl1|...>

The address for this destination.

atm phonebook delete

Delete a phonebook entry.

Syntax : delete name = <{ }>

Parameters :

name = <{ }>

The name of the phonebook to delete.

atm phonebook flush

Flush all phonebook entries.

Syntax : flush

atm phonebook list

Display the phonebook.

Syntax : list

atm qosbook

Following commands are available :

config : Modify the qosbook configuration.  
ctdlist : Display all connection traffic descriptors.  
ctdadd : Add a new connection traffic descriptor.  
ctddelete : Delete a connection traffic descriptor.  
list : Display the qosbook.  
add : Add a new qosbook entry.  
delete : Delete a qosbook entry.  
flush : Flush all qosbook entries.

atm qosbook add

Add a new qosbook entry.

Syntax : add name = <string> [txctd = <{ default }>] [rxctd = <{ default }>]

Parameters :

name = <string>

The name for the new QoS entry.



[txctd = <{default}>]

The name of the CTD for transmit (upstream) direction.

[rxctd = <{default}>]

The name of the CTD for receive (downstream) direction.

atm qosbook config

Modify the qosbook configuration.

Syntax : config [format = <{bytes|cells}>]

Parameters :

[format = <{bytes|cells}>]

The input, output format of the qosbook.

atm qosbook ctddadd

Add a new connection traffic descriptor.

Syntax : ctddadd name = <string>

conformance = <{UBR|CBR|VBR|UBR.1|UBR.2|UBR.mdc|CBR.1|VBR.1|  
VBR.2|VBR.3|VBR.c|VBR.nt|VBR.t|GFR.1|GFR.2}>

[peakrate = <number{0-27786}>] [sustrate = <number{0-27786}>]

[maxburst = <number{48-12240}>] [minrate = <number{0-27786}>]

[maxframe = <number{0-255}>] [celldelay = <number>]

[realtime = <{enabled|disabled}>]

[framediscard = <{enabled|disabled}>]

Parameters :

name = <string>

The name for the new CTD entry.

conformance = <{UBR|CBR|VBR|UBR.1|UBR.2|UBR.mdc|CBR.1|VBR.1|VBR.2|VBR.3|  
VBR.c|VBR.nt|VBR.t|GFR.1|GFR.2}>

The ATM service conformance definition.

[peakrate = <number{0-27786}>]

The peak rate (in kilobits per second). Use '0' to indicate linerate for UBR.

[sustrate = <number{0-27786}>]

The sustainable rate (in kilobits per second). (VBR only)

[maxburst = <number{48-12240}>]

The maximum burst size (in bytes). (VBR or GFR)

[minrate = <number{0-27786}>]

The minimum rate (in kilobits per second). (UBR.m or GFR)

[maxframe = <number{0-255}>]

The maximum frame size (in bytes). (GFR only)

[celldelay = <number>]

Cell delay variation in tenths of microseconds.

[realtime = <{enabled|disabled}>]

Enable/disable realtime traffic (VBR only).

[framediscard = <{enabled|disabled}>]

Enable/disable frame discard.

atm qosbook ctdddelete

Delete a connection traffic descriptor.

Syntax : ctdddelete name = <{default}> [force = <{disabled|enabled}>]

Parameters :

name = <{default}>

The name of the CTD entry to delete.

[force = <{disabled|enabled}>]

Force delete even when the entry is still in use.

atm qosbook ctclist

Display all connection traffic descriptors.

Syntax : ctclist

atm qosbook delete

Delete a qosbook entry.

Syntax : delete name = <{default}> [force = <{disabled|enabled}>]

Parameters :

name = <{default}>

The name of the qosbook entry to delete.

[force = <{disabled|enabled}>]

Force delete even when the entry is still in use.

atm qosbook flush

Flush all qosbook entries.

Syntax : flush

atm qosbook list

Display the qosbook.

Syntax : list

config

Following commands are available :

save : Store current configuration to backup file

load : Load saved or default configuration.

delete : Delete a user configuration file.

flush : Flush the loaded configuration.

list : Show the current configuration set

dump : Show the saved configuration file

config delete

Delete a user configuration file.

Syntax : delete [filename = <user configuration filename>]

Parameters :

[filename = <user configuration filename>]

configuration file to erase

config dump

Show the saved configuration file

Syntax : dump

config flush

Flush the loaded configuration.

Syntax : flush [flush\_ip = <{enabled|disabled}>]

Parameters :

[flush\_ip = <{enabled|disabled}>]

Flush IP settings or not.

config list

Show the current configuration set

Syntax : list [templates = <{disabled|enabled}>]

Parameters :

[templates = <{disabled|enabled}>]

list template files

## config load

Load saved or default configuration.

Syntax : load [load\_ip = <{enabled|disabled}>]  
[defaults <{disabled|enabled}>] [flush = <{enabled|disabled}>]  
[echo = <{disabled|enabled}>] [filename = <string>]

Parameters :

[load\_ip = <{enabled|disabled}>]  
Load IP settings or not.  
[defaults <{disabled|enabled}>]  
Load default instead of saved configuration.  
[flush = <{enabled|disabled}>]  
Flush current configuration before loading new one.  
[echo = <{disabled|enabled}>]  
Echo each command string when loaded.  
[filename = <string>]  
Configuration filename.

## config save

Store current configuration to backup file

Syntax : save filename = <user configuration filename>

Parameters :

filename = <user configuration filename>  
Filename for backupfile of current configuration

## connection

Following commands are available :

config : Modify global connection configuration.  
timerconfig : Modify connection timeout handling.  
timerclear : Clear connection timeout to default.  
info : Display all modules with some info.  
list : Display the currently known connections.  
describe : Describe the streams of a connection.  
refresh : Invalidate all cached decisions.  
clear : Kill all connections.  
clean : Clean connection database by forcing timeouts.  
stats : Display connection and stream statistics.  
applist : Display the available CONN/NAT application helpers.  
appconfig : Modify a CONN/NAT application helper configuration  
appinfo : Display CONN/NAT application specific info  
bindlist : Display the CONN/NAT application helper/port bindings.  
bind : Create a CONN/NAT application helper/port binding.  
unbind : Delete a CONN/NAT application helper/port binding.  
flush : Flush the connection configuration.  
debug : Connection debug commands.

## connection appconfig

Modify a CONN/NAT application helper configuration

Syntax : appconfig application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|  
RAUDIO(PNA)|RTSP|ILS|H245|H323|IRC|DHCP|  
GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>  
[trace = <{disabled|enabled}>]  
[timeout = <number{0-32000}>]  
[childqos = <{DSCP|Interactive|Management|Video|VoIP-RTP|  
VoIP-Signal|default}>]

[floating = <{disabled|enabled}>]  
[proxy = <{disabled|enabled}>]  
[tracelevel = <number{1-4}>]  
[SIP\_ALG = <{disabled|enabled}>]  
[RTP\_predict\_for\_term\_SIP\_ALG = <{disabled|enabled}>]

Parameters :

application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|RAUDIO(PNA)|RTSP|  
ILS|H245|H323|IRC|DHCP|GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>

The name of a CONN/NAT application helper as listed by ':connection  
applist'.

[trace = <{disabled|enabled}>]

Enable/disable CONN/NAT application helper traces.

[timeout = <number{0-32000}>]

The maximum timeout in seconds to keep predicted child connections  
around.

[childqos = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|  
default}>]

Used QOS label for the predicted child connections.

[floating = <{disabled|enabled}>]

Enable/disable floating port for IKE helper.

[proxy = <{disabled|enabled}>]

Enable/disable FTP proxy support.

[tracelevel = <number{1-4}>]

SIP trace level: 1=feature errors; 2=feature traces; 3=all errors; 4=all  
traces.

[SIP\_ALG = <{disabled|enabled}>]

SIP only: enable/disable traditional sip alg behaviour

[RTP\_predict\_for\_term\_SIP\_ALG = <{disabled|enabled}>]

SIP only: enable/disable RTP connection prediction for terminated SIP

connection appinfo

Display CONN/NAT application specific info

Syntax : appinfo application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|  
RAUDIO(PNA)|RTSP|ILS|H245|H323|IRC|DHCP|  
GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>

Parameters :

application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|RAUDIO(PNA)|RTSP|  
ILS|H245|H323|IRC|DHCP|GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>

The name of a CONN/NAT application helper as listed by ':connection  
applist'.

connection applist

Display the available CONN/NAT application helpers.

Syntax : applist

connection bind

Create a CONN/NAT application helper/port binding.

Syntax : bind application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|  
RAUDIO(PNA)|RTSP|ILS|H245|H323|IRC|DHCP|GAME(UDP)|  
CONE(UDP)|LOOSE(UDP)|FTP}>

port = <port-range>

Parameters :

application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|RAUDIO(PNA)|RTSP|  
ILS|H245|H323|IRC|DHCP|GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>

The name of a CONN/NAT application helper as listed by ':connection applist'.

port = <port-range>

The port number or range this application handler should work on.

connection bindlist

Display the CONN/NAT application helper/port bindings.

Syntax : bindlist

connection clean

Clean connection database by forcing timeouts.

Syntax : clean [level = <number{0-9}>]

Parameters :

[level = <number{0-9}>]

Scrubbing level.

connection clear

Kill all connections.

Syntax : clear

connection config

Modify global connection configuration.

Syntax : config [configchangemode = <{immediate|delayed}>]

[probes = <{disabled|enabled}>]

[udptrackmode = <{strict|loose}>]

Parameters :

[configchangemode = <{immediate|delayed}>]

Select how config changes are handled.

[probes = <{disabled|enabled}>]

Enable/disable alive probes on idle connections.

[udptrackmode = <{strict|loose}>]

UDP connection tracking mode.

connection debug

Connection debug commands.

Syntax : debug [trace = <{disabled|enabled}>]

Parameters :

[trace = <{disabled|enabled}>]

Enable/disable traces.

connection describe

Describe the streams of a connection.

Syntax : describe [id = <number{0-2048}>]

Parameters :

[id = <number{0-2048}>]

The connection ID to describe.

connection flush

Flush the connection configuration.

Syntax : flush

connection info

Display all modules with some info.

Syntax : info

connection list

Display the currently known connections.

Syntax : list [nr = <number{1-2048}>] [history = <{disabled|enabled}>]

Parameters :

[nr = <number{1-2048}>]

The number of connections to display.

[history = <{disabled|enabled}>]

If enabled, show history.

connection refresh

Invalidate all cached decisions.

Syntax : refresh

connection stats

Display connection and stream statistics.

Syntax : stats

connection timerclear

Clear connection timeout to default.

Syntax : timerclear [timer = <{tcpidle|tcpneg|tcpkill|udpidle|udpkill|icmpkill|  
ipidle|ipkill}>]

Parameters :

[timer = <{tcpidle|tcpneg|tcpkill|udpidle|udpkill|icmpkill|ipidle|ipkill}>]

The name of the connection idle timer.

connection timerconfig

Modify connection timeout handling.

Syntax : timerconfig [timer = <{tcpidle|tcpneg|tcpkill|udpidle|udpkill|  
icmpkill|ipidle|ipkill}>]  
[value = <number{0-86400}>]

Parameters :

[timer = <{tcpidle|tcpneg|tcpkill|udpidle|udpkill|icmpkill|ipidle|ipkill}>]

The name of the connection idle timer.

[value = <number{0-86400}>]

The timer expire value in seconds.

connection unbind

Delete a CONN/NAT application helper/port binding.

Syntax : unbind application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|  
RAUDIO(PNA)|RTSP|ILS|H245|H323|IRC|DHCP|  
GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>  
port = <port-range>

Parameters :

application = <{IP6TO4|PPTP|ESP|IKE|SIP|JABBER|CU/SeeMe|RAUDIO(PNA)|RTSP|  
ILS|H245|H323|IRC|DHCP|GAME(UDP)|CONE(UDP)|LOOSE(UDP)|FTP}>

The name of a CONN/NAT application helper as listed by ':connection  
applist'.

port = <port-range>

The port number or range this application handler should work on.

contentsharing

Following command groups are available :

cifs          ftp          upnp

### contentsharing cifs

Following commands are available :

- config : To set CIFS service name, to define CIFS service workgroup and to enable/disable CIFS service.
- list : To display CIFS service context.

### contentsharing cifs config

To set CIFS service name, to define CIFS service workgroup and to enable/disable CIFS service.

Syntax : config [state = <{enabled|disabled}>] [workgroup = <quoted string>] [name = <quoted string>] [comment = <quoted string>]

Parameters :

- [state = <{enabled|disabled}>]  
Enabled/disabled FTP service.
- [workgroup = <quoted string>]  
CIFS workgroup definition.
- [name = <quoted string>]  
CIFS service name.
- [comment = <quoted string>]  
CIFS service description.

### contentsharing cifs list

To display CIFS service context.

Syntax : list

### contentsharing ftp

Following commands are available :

- config : To enable/disable FTP service.
- list : To display FTP service context.

### contentsharing ftp config

To enable/disable FTP service.

Syntax : config [state = <{enabled|disabled}>]

Parameters :

- [state = <{enabled|disabled}>]  
Enabled/disabled FTP service.

### contentsharing ftp list

To display FTP service context.

Syntax : list

### contentsharing upnp

Following commands are available :

- config : To enable/disable UPnPAV service.
- list : To display UPnPAV service context.

### contentsharing upnp config

To enable/disable UPnPAV service.

Syntax : config [state = <{enabled|disabled}>]

Parameters :

- [state = <{enabled|disabled}>]  
Enable/disable UPnPAV service.

contentsharing upnp list  
To display UPnP AV service context.

Syntax : list

cwmp

Following commands are available :

config : Configure the cwmpd as seen from the ACS.

Following command groups are available :

debug notification server

cwmp cmd

TR69 Methods.

Syntax : cmd

Parameters :

cwmp config

Configure the cwmpd as seen from the ACS.

Syntax : config [state = <{disabled|enabled}>] [mode = <{read-only|full}>]

[periodicInform = <{disabled|enabled}>]

[periodicInfInt = <number{0-16777215}>]

[sessionTimeout = <number{0-65535}>]

[noIpTimeout = <number{0-65535}>]

[maxEnvelopes = <number{1-2}>]

[connectionRequest = <{disabled|enabled}>]

[connectionReqPath = <string>]

[connectionReqUserName = <quoted string>]

[connectionReqPswd = <password>]

[connectionReqAuth = <{none|basic|digest}>]

[qos-class = <number{0-15}>] [bootdelayrange = <number>]

[upgradedelay = <{disabled|enabled}>]

[am1Termination = <{disabled|enabled}>]

[persistentSubscription = <{disabled|enabled}>]

[showPasswords = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

The state of the cwmp daemon.

[mode = <{read-only|full}>]

Set the operation mode of the cwmp daemon.

[periodicInform = <{disabled|enabled}>]

Set periodicInform flag of the cwmp daemon.

[periodicInfInt = <number{0-16777215}>]

Set the interval between two periodicInform messages in seconds.

[sessionTimeout = <number{0-65535}>]

Set HTTP session-timeout in seconds.

[noIpTimeout = <number{0-65535}>]

Set time (in seconds) ip may be 0 after uploading new config file.

[maxEnvelopes = <number{1-2}>]

Set the maximum number of SOAP envelopes send within one http-message.

[connectionRequest = <{disabled|enabled}>]

Set connection request flag of the cwmp daemon.

[connectionReqPath = <string>]

Set the path where the cwmp daemon can be reached.

[connectionReqUserName = <quoted string>]



Set the username the ACS must use to log in.  
[connectionReqPswd = <password>]  
Set the password the ACS must use to log in.  
[connectionReqAuth = <{none|basic|digest}>]  
Set the authentication type of modem CWMP server for asynchronous connects.  
[qos-class = <number{0-15}>]  
Set the quality of service class for outgoing CWMP data.  
[bootdelayrange = <number>]  
Set the delay on boot before inform is sent.  
[upgradedelay = <{disabled|enabled}>]  
Set whether to delay upgrade if services are active.  
[am1Termination = <{disabled|enabled}>]  
Set if am 1 session termination is enabled.  
[persistentSubscription = <{disabled|enabled}>]  
The cwmp daemon has persistent subscriptions.  
[showPasswords = <{disabled|enabled}>]  
Show all passwords in IGD as plaintext. When 0 then will be empty stringed as the standard requests.

#### cwmp debug

Following commands are available :

traceconfig : Enable or disable tracing.

#### cwmp debug traceconfig

Enable or disable tracing.

Syntax : traceconfig [level = <number>]

Parameters :

[level = <number>]

Set the tracelevel (0-2)

#### cwmp notification

#### cwmp notification notifiedparameter

a notified parameter waiting to be send

Syntax : notifiedparameter [name = <quoted string>]

Parameters :

[name = <quoted string>]

Set the notification path

#### cwmp notification rule

a rule which defines a notification

Syntax : rule [notification = <{off|passive|active|forced|inform}>]

[name = <quoted string>] [keystring = <number>]

Parameters :

[notification = <{off|passive|active|forced|inform}>]

Set the type of notification

[name = <quoted string>]

Set the notification path

[keystring = <number>]

The keystring\_id of the notification rule

#### cwmp runtimevar

Runtime variable modifications.

Syntax : runtimevar

Parameters :

    cwmp server

Following commands are available :

config        : Configure the cwmpd towards the ACS.

    cwmp server config

Configure the cwmpd towards the ACS.

Syntax : config [url = <string>] [username = <string>]  
          [password = <password>]

Parameters :

    [url = <string>]

    Set the HTTP URL used to contact the ACS server.

    [username = <string>]

    Set the username for ACS Digest Authentication.

    [password = <password>]

    Set the password for ACS Digest Authentication.

    debug

Following commands are available :

exec          : Execute a 'Trace & Debug' command. For qualified personnel  
              only.

    debug dmesg

Show the Linux kernel messages. For qualifies personnel only.

Syntax : dmesg

    debug exec

Execute a 'Trace & Debug' command. For qualified personnel only.

Syntax : exec cmd = <quoted string>

Parameters :

    cmd = <quoted string>

    Quoted 'Trace & Debug' command string

    dhcp

Following command groups are available :

client        relay        rule        server        spoofing

    dhcp client

Following commands are available :

ifadd          : Create a DHCP client.

ifattach       : Activate a DHCP client.

ifconfig       : Configure a DHCP client.

ifdelete       : Delete a DHCP client.

ifdetach       : De-activate a DHCP client and releases its lease.

iflist         : List DHCP clients.

ifrenew        : Renew a DHCP lease.

flush          : Delete all DHCP clients.

Following command groups are available :

debug        roptions    txoptions

    dhcp client debug

Following commands are available :

traceconfig    : Modify DHCP client trace configuration

stats         : Print DHCP client statistics

clear         : Clear DHCP client statistics

    dhcp client debug clear

Clear DHCP client statistics

Syntax : clear

    dhcp client debug stats

Print DHCP client statistics

Syntax : stats

    dhcp client debug traceconfig

Modify DHCP client trace configuration

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

    [state = <{disabled|enabled}>]

    Enable/Disable tracing.

    dhcp client flush

Delete all DHCP clients.

Syntax : flush

    dhcp client ifadd

Create a DHCP client.

Syntax : ifadd intf = <{LocalNetwork}>

Parameters :

    intf = <{LocalNetwork}>

    The name of the interface on which a DHCP Client is defined.

    dhcp client ifattach

Activate a DHCP client.

Syntax : ifattach intf = <>

Parameters :

    intf = <>

    The name of the interface on which a DHCP Client is defined.

    dhcp client ifconfig

Configure a DHCP client.

Syntax : ifconfig intf = <>

    [label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|  
    VoIP-Signal|default}>]

    [metric = <number{0-255}>] [dnsmetric = <number{0-100}>]

    [broadcast = <{disabled|enabled}>]

    [serverroute = <{disabled|enabled}>]

    [followlabel = <{disabled|enabled}>]

Parameters :

    intf = <>

    The name of the dynamic interface to be configured.

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

Label for default gateway and static routes.

[metric = <number{0-255}>]

Route metric for default gateway and static routes.

[dnsmetric = <number{0-100}>]

DNS route metric.

[broadcast = <{disabled|enabled}>]

Operate client in unicast/broadcast mode.

[serverroute = <{disabled|enabled}>]

Insert a route for the DHCP server IP

[followlabel = <{disabled|enabled}>]

If enabled the DHCP client's unicast traffic will follow the route label specified. If disabled DHCP unicast traffic will follow standard routes

dhcp client ifdelete

Delete a DHCP client.

Syntax : ifdelete intf = <{Internet}>

Parameters :

intf = <{Internet}>

The name of the interface on which a DHCP Client is defined.

dhcp client ifdetach

De-activate a DHCP client and releases its lease.

Syntax : ifdetach intf = <{Internet}>

Parameters :

intf = <{Internet}>

The name of the interface on which a DHCP Client is defined.

dhcp client iflist

List DHCP clients.

Syntax : iflist [intf = <{Internet}>] [expand = <{disabled|enabled}>]

Parameters :

[intf = <{Internet}>]

The name of the interface on which a DHCP Client is defined.

[expand = <{disabled|enabled}>]

Expand enabled/disabled.

dhcp client ifrenew

Renew a DHCP lease.

Syntax : ifrenew intf = <{Internet}>

Parameters :

intf = <{Internet}>

The name of the interface on which a DHCP Client is defined.

dhcp client roptions

Following commands are available :

add : Add a DHCP Option Code to the Parameter Request List.

delete : Delete a DHCP Option Code from the Parameter Request List.

list : List all DHCP Option Codes in the Parameter Request List.

optionlist : List all DHCP Option Codes that can be used in the Parameter Request List.

dhcp client roptions add

Add a DHCP Option Code to the Parameter Request List.

Syntax : add intf = <>

```
option = <{ subnet-mask|time-offset|default-routers|time-servers|
ien116-name-servers|domain-name-servers|log-servers|
cookie-servers|lpr-servers|impress-servers|resource-
location-servers|host-name|boot-file-size|merit-dump|
domain-name|swap-server|root-path|extensions-path|ip-
forwarding|non-local-source-routing|policy-filter|max-
dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|
path-mtu-plateau-table|interface-mtu|all-subnets-local|
broadcast-address|perform-mask-discovery|mask-supplier|
router-discovery|router-solicitation-address|classfull-
static-routes|trailer-encapsulation|arp-cache-timeout|
ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-
interval|tcp-keepalive-garbage|nis-domain|nis-servers|
ntp-servers|vendor-specific_info|... } or number>
[index = <number{0-255}>]
```

Parameters :

intf = <>

The name of the interface on which a DHCP Client is defined.

```
option = <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-
servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|
impress-servers|resource-location-servers|host-name|boot-file-size|
merit-dump|domain-name|swap-server|root-path|extensions-path|ip-
forwarding|non-local-source-routing|policy-filter|max-dgram-
reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-
table|interface-mtu|all-subnets-local|broadcast-address|perform-
mask-discovery|mask-supplier|router-discovery|router-solicitation-
address|classfull-static-routes|trailer-encapsulation|arp-cache-
timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-
interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|
vendor-specific_info|... } or number>
```

The name or number of the option.

```
[index = <number{0-255}>]
```

The index of the option.

dhcp client roptions delete

Delete a DHCP Option Code from the Parameter Request List.

Syntax : delete intf = <>

```
option = <{ subnet-mask|time-offset|default-routers|time-
servers|ien116-name-servers|domain-name-servers|log-
servers|cookie-servers|lpr-servers|impress-servers|
resource-location-servers|host-name|boot-file-size|
merit-dump|domain-name|swap-server|root-path|
extensions-path|ip-forwarding|non-local-source-
routing|policy-filter|max-dgram-reassembly|default-ip-
ttl|path-mtu-aging-timeout|path-mtu-plateau-table|
interface-mtu|all-subnets-local|broadcast-address|
perform-mask-discovery|mask-supplier|router-discovery|
router-solicitation-address|classfull-static-routes|
trailer-encapsulation|arp-cache-timeout|ieee802-3-
encapsulation|default-tcp-ttl|tcp-keepalive-interval|
tcp-keepalive-garbage|nis-domain|nis-servers|ntp-
servers|vendor-specific_info|... } or number>
```

Parameters :

intf = <>

The name of the interface on which a DHCP Client is defined.

option = <{subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|vendor-specific\_info|...} or number>

The name or number of the option.

dhcp client roptions list

List all DHCP Option Codes in the Parameter Request List.

Syntax : list [intf = <{Internet}>]

Parameters :

[intf = <{Internet}>]

The name of the interface on which a DHCP Client is defined.

dhcp client roptions optionlist

List all DHCP Option Codes that can be used in the Parameter Request List.

Syntax : optionlist

dhcp client txoptions

Following commands are available :

add : Add an option.

delete : Delete an option.

list : List all options.

optionlist : Lists all DHCP Option Codes that can be used.

dhcp client txoptions add

Add an option.

Syntax : add intf = <>

option = <{subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|netbios-name-servers|...} or number>

[enterprise = <number{1-2147483647}>]

[suboption = <number{1-254}>]

value = <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr, ascii, byte\_array, clientid, env

>  
[index = <number{0-255}>]

Parameters :

intf = <>

The name of the interface on which a DHCP Client is defined.

option = <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|netbios-name-servers|... } or number>

The name or number of the option.

[enterprise = <number{1-2147483647}>]

The enterprise number (see <http://www.iana.org/assignments/enterprise-numbers>)

[suboption = <number{1-254}>]

The suboption number

value = <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr, ascii, byte\_array, clientid, env

>  
The value of the option.

[index = <number{0-255}>]

The index of the (sub)option/enterprise number in the Option List.

dhcp client txoptions delete

Delete an option.

Syntax : delete intf = <>

option = <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|netbios-name-servers|... } or number>

[enterprise = <number{1-2147483647}>]

[suboption = <number{1-254}>]

Parameters :

intf = <>

The name of the interface on which a DHCP Client is defined.

option = <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|

impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|netbios-name-servers|...} or number>

The name or number of the option.

[enterprise = <number{ 1-2147483647}>]

The enterprise number (see <http://www.iana.org/assignments/enterprise-numbers>)

[suboption = <number{ 1-254}>]

The suboption number

dhcp client txoptions list

List all options.

Syntax : list [intf = <{Internet}>] [expand = <{disabled|enabled}>]

Parameters :

[intf = <{Internet}>]

The name of the interface on which a DHCP Client is defined.

[expand = <{disabled|enabled}>]

Expand enabled/disabled.

dhcp client txoptions optionlist

Lists all DHCP Option Codes that can be used.

Syntax : optionlist

dhcp relay

Following commands are available :

ifconfig : Configure a relay interface.  
iflist : Show the configuration of the relay interfaces.  
add : Add an entry to the DHCP forward list.  
delete : Delete an entry from the DHCP forward list.  
modify : Modify an entry from the DHCP forward list.  
list : List the DHCP forward list.  
ruleadd : Add a selection rule to a DHCP forward entry  
ruledelete : Delete a selection rule from a DHCP forward entry  
config : Sets the relay configuration settings.  
flush : Flushes the DHCP relay settings.

Following command groups are available :

debug

dhcp relay add

Add an entry to the DHCP forward list.

Syntax : add name = <string>

Parameters :

name = <string>

The forward entry name.

dhcp relay config



Sets the relay configuration settings.

Syntax : config [agentinfo = <{disabled|enabled}>]  
[agentmismatch = <{disabled|enabled}>]

Parameters :

[agentinfo = <{disabled|enabled}>]

Set the relay agent info status (RFC3046).

[agentmismatch = <{disabled|enabled}>]

Forward/Drop DHCP reply packet when a relay agent info mismatch is detected (RFC3046).

dhcp relay debug

Following commands are available :

traceconfig : Modify DHCP relay trace configuration

stats : Print DHCP relay statistics.

dhcp relay debug stats

Print DHCP relay statistics.

Syntax : stats

dhcp relay debug traceconfig

Modify DHCP relay trace configuration

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable tracing.

dhcp relay delete

Delete an entry from the DHCP forward list.

Syntax : delete name = <{LocalNetwork\_to\_127.0.0.1}>

Parameters :

name = <{LocalNetwork\_to\_127.0.0.1}>

The forward entry name.

dhcp relay flush

Flushes the DHCP relay settings.

Syntax : flush

dhcp relay ifconfig

Configure a relay interface.

Syntax : ifconfig intf = <{Internet|LocalNetwork}>

[relay = <{disabled|enabled}>] [maxhops = <number{0-16}>]

[remoteid = <password>] [trusted = <{disabled|enabled}>]

Parameters :

intf = <{Internet|LocalNetwork}>

The name of the relay interface to configure.

[relay = <{disabled|enabled}>]

Set the relay status.

[maxhops = <number{0-16}>]

Set the maximum number of hops allowed in the DHCP packet.

[remoteid = <password>]

Set the remote id as specified in RFC3046.

[trusted = <{disabled|enabled}>]

Drop/Forward DHCP request packet when a relay agent info option is present and the giaddr field is 0 (RFC3046).

### dhcp relay iflist

Show the configuration of the relay interfaces.

Syntax : iflist [intf = <{Internet|LocalNetwork}>]

Parameters :

[intf = <{Internet|LocalNetwork}>]

The name of the relay interface.

### dhcp relay list

List the DHCP forward list.

Syntax : list [name = <{LocalNetwork\_to\_127.0.0.1}>]

Parameters :

[name = <{LocalNetwork\_to\_127.0.0.1}>]

The forward entry name.

### dhcp relay modify

Modify an entry from the DHCP forward list.

Syntax : modify name = <{LocalNetwork\_to\_127.0.0.1}> [addr = <ip-address>]

[intf = <{None|Internet|LocalNetwork}>]

[giaddr = <ip-address>] [script = <>]

Parameters :

name = <{LocalNetwork\_to\_127.0.0.1}>

The forward entry name.

[addr = <ip-address>]

The DHCP server IP address.

[intf = <{None|Internet|LocalNetwork}>]

The name of the relay interface, 'None' to indicate no interface is specified.

[giaddr = <ip-address>]

The giaddr field to be used in relayed DHCP packets.

[script = <>]

Script to be run when the forward entry is hit.

### dhcp relay ruleadd

Add a selection rule to a DHCP forward entry

Syntax : ruleadd name = <{LocalNetwork\_to\_127.0.0.1}> [key = <{or|and}>]

rulename = <>

Parameters :

name = <{LocalNetwork\_to\_127.0.0.1}>

The name of the forward entry.

[key = <{or|and}>]

The logical key of the selection rule.

rulename = <>

The name of the DHCP selection rule.

### dhcp relay ruledeldelete

Delete a selection rule from a DHCP forward entry

Syntax : ruledeldelete name = <{LocalNetwork\_to\_127.0.0.1}> rulename = <>

Parameters :

name = <{LocalNetwork\_to\_127.0.0.1}>

The name of the forward entry.

rulename = <>

The name of the DHCP selection rule.

dhcp rule

Following commands are available :

add : Add a rule for DHCP conditional selection  
delete : Delete a DHCP rule  
list : List all DHCP rules  
flush : Flush all DHCP rules

Following command groups are available :

debug

dhcp rule add

Add a rule for DHCP conditional selection

Syntax : add name = <string> type = <{ option|mac|root }>

option [!]= <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|nis-domain|nis-servers|ntp-servers|vendor-specific\_info|... } or number>

[enterprise = <number{ 1-2147483647 }>]

[suboption = <number{ 1-254 }>]

[value = <Value : (type)value; type being addr, ascii, byte\_array, clientid, env

>]

[match = <{ exactly|as\_substring }>]

mac [!]= <hardware-address with wildcard ex: '00:9f:aa:\*:\*:\*'>

[key = <{ or|and }>] subrule = <>

Parameters :

name = <string>

The name of the DHCP rule.

type = <{ option|mac|root }>

Specify the DHCP rule type.

option [!]= <{ subnet-mask|time-offset|default-routers|time-servers|ien116-name-servers|domain-name-servers|log-servers|cookie-servers|lpr-servers|impress-servers|resource-location-servers|host-name|boot-file-size|merit-dump|domain-name|swap-server|root-path|extensions-path|ip-forwarding|non-local-source-routing|policy-filter|max-dgram-reassembly|default-ip-ttl|path-mtu-aging-timeout|path-mtu-plateau-table|interface-mtu|all-subnets-local|broadcast-address|perform-mask-discovery|mask-supplier|router-discovery|router-solicitation-address|classfull-static-routes|trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepalive-interval|tcp-keepalive-garbage|

nis-domain|nis-servers|ntp-servers|vendor-specific\_info|... } or  
number>

The name or number of the option.

[enterprise = <number{ 1-2147483647}>]

The enterprise number (see <http://www.iana.org/assignments/enterprise-numbers>)

[suboption = <number{ 1-254}>]

The suboption number

[value = <Value : (type)value; type being addr, ascii, byte\_array,  
clientid, env

>]

The value of the option.

[match = <{exactly|as\_substring}>]

The option value matching.

mac [!]= <hardware-address with wildcard ex: '00:9f:aa:\*:\*:\*'>

The mac address.

[key = <{or|and}>]

The logical key of the subrule.

subrule = <>

The name of the DHCP subrule.

dhcp rule debug

Following commands are available :

traceconfig : Modify DHCP rule trace configuration

dhcp rule debug traceconfig

Modify DHCP rule trace configuration

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable tracing.

dhcp rule delete

Delete a DHCP rule

Syntax : delete name = <> subrule = <>

Parameters :

name = <>

The name of the DHCP rule.

subrule = <>

The name of the DHCP subrule.

dhcp rule flush

Flush all DHCP rules

Syntax : flush

dhcp rule list

List all DHCP rules

Syntax : list

dhcp server

Following commands are available :

config : Print DHCP server configuration settings

policy : Print DHCP server policy settings

flush : Flush all DHCP server pool and lease entries

Following command groups are available :

debug        lease        option        pool

    dhcp server config

Print DHCP server configuration settings

Syntax : config [state = <{disabled|enabled}>]

Parameters :

    [state = <{disabled|enabled}>]

    Enable/Disable the DHCP server.

    dhcp server debug

Following commands are available :

traceconfig    : Modify DHCP server trace configuration

stats         : Print DHCP server statistics

clear         : Clear DHCP server statistics

    dhcp server debug clear

Clear DHCP server statistics

Syntax : clear

    dhcp server debug stats

Print DHCP server statistics

Syntax : stats

    dhcp server debug traceconfig

Modify DHCP server trace configuration

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

    [state = <{disabled|enabled}>]

    Enable/Disable tracing.

    dhcp server flush

Flush all DHCP server pool and lease entries

Syntax : flush

    dhcp server lease

Following commands are available :

add            : Add a DHCP server lease

delete        : Delete a DHCP server lease

flush         : Flush all DHCP server leases

list          : List all DHCP server leases

    dhcp server lease add

Add a DHCP server lease

Syntax : add clientid = <clientid> pool = <{LAN\_private}>

    [addr = <ip-address>] [offset = <number>] [leasetime = <number>]

    [expirytime = <number>] [gateway = <ip-address|0|none>]

    [macaddr = <hardware-address>]

    [allocation = <{automatic|manual}>]

Parameters :

    clientid = <clientid>

    The DHCP client identification string.

    pool = <{LAN\_private}>

    The name of the DHCP server pool.

[addr = <ip-address>]

The IP address for this client.

[offset = <number>]

The IP address offset in the pool preserved for this client.

[leasetime = <number>]

The time in seconds the client is allowed to use an address (tip: 0 means infinite leasetime).

[expirytime = <number>]

The time in seconds the DHCP server keeps the lease reserved (tip: 0 means infinite expirytime).

[gateway = <ip-address|0|none>]

The IP address of the default router for this client.

[macaddr = <hardware-address>]

The host MAC address.

[allocation = <{automatic|manual}>]

Define the client IP address allocation method (tip : automatic means the lease can be recycled).

dhcp server lease delete

Delete a DHCP server lease

Syntax : delete [clientid = <clientid>] [index = <number>]

Parameters :

[clientid = <clientid>]

The DHCP client identification string.

[index = <number>]

The DHCP server lease table index.

dhcp server lease flush

Flush all DHCP server leases

Syntax : flush [pool = <{LAN\_private}>]

Parameters :

[pool = <{LAN\_private}>]

The name of the DHCP server pool. Only the leases belonging to this pool will be deleted.

dhcp server lease list

List all DHCP server leases

Syntax : list [clientid = <clientid>] [index = <number>]  
[expand = <{disabled|enabled}>]

Parameters :

[clientid = <clientid>]

The DHCP client identification string.

[index = <number>]

The DHCP server lease table index.

[expand = <{disabled|enabled}>]

Expand enabled/disabled.

dhcp server option

Following commands are available :

tmpladd : Add a DHCP server option template  
tmpldelete : Delete a DHCP server option template  
tmplist : List all DHCP server option templates  
instadd : Add a DHCP server option instance

instdelete : Delete a DHCP server option instance  
instlist : List all DHCP server option instances  
ruleadd : Add a selection rule to a DHCP server option instance  
ruledelate : Delete a selection rule from a DHCP server option instance  
flush : Flush all DHCP server option templates and instances

#### dhcp server option flush

Flush all DHCP server option templates and instances

Syntax : flush

#### dhcp server option instadd

Add a DHCP server option instance

Syntax : instadd name = <string> tmplname = <>  
[policy = <{requested|always|rules}>]  
[dynamic = <{disabled|enabled}>] [maxuse = <number{1-255}>]  
[enterprise = <number{1-2147483647}>]  
[suboption = <number{1-254}>]  
value = <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr, ascii, byte\_array, env

>

Parameters :

name = <string>

The name of the DHCP server option instance.

tmplname = <>

The name of the DHCP server option template.

[policy = <{requested|always|rules}>]

The transmit policy type for the DHCP server option instance.

[dynamic = <{disabled|enabled}>]

Enable/Disable option instance as dynamic.

[maxuse = <number{1-255}>]

Maximum number of times an option instance can be used in DHCP pools

[enterprise = <number{1-2147483647}>]

The enterprise number (see <http://www.iana.org/assignments/enterprise-numbers>)

[suboption = <number{1-254}>]

The suboption number

value = <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr, ascii, byte\_array, env

>

The value of the DHCP server option instance.

#### dhcp server option instdelete

Delete a DHCP server option instance

Syntax : instdelete name = <> [enterprise = <number{1--1}>]  
[suboption = <number{1-254}>]

Parameters :

name = <>

The name of the DHCP server option instance.

[enterprise = <number{1--1}>]

The enterprise number (see <http://www.iana.org/assignments/enterprise-numbers>)

[suboption = <number{1-254}>]

The suboption number

#### dhcp server option instlist

List all DHCP server option instances

Syntax : instlist [name = <>]

Parameters :

[name = <>]

The name of the DHCP server option instance.

dhcp server option ruleadd

Add a selection rule to a DHCP server option instance

Syntax : ruleadd name = <> [key = <{or|and}>] rulename = <>

Parameters :

name = <>

The name of the DHCP server option instance.

[key = <{or|and}>]

The logical key of the selection rule.

rulename = <>

The name of the DHCP selection rule.

dhcp server option ruledel

Delete a selection rule from a DHCP server option instance

Syntax : ruledel name = <> rulename = <>

Parameters :

name = <>

The name of the DHCP server option instance.

rulename = <>

The name of the DHCP selection rule.

dhcp server option tmpladd

Add a DHCP server option template

Syntax : tmpladd name = <string> optionid = <number{1-254}>  
[dynamic = <{disabled|enabled}>]

Parameters :

name = <string>

The name of the DHCP server option template.

optionid = <number{1-254}>

Specify the DHCP server option code.

[dynamic = <{disabled|enabled}>]

Enable/Disable option template as dynamic.

dhcp server option tmpldel

Delete a DHCP server option template

Syntax : tmpldel name = <>

Parameters :

name = <>

The name of the DHCP server option template.

dhcp server option tmplist

List all DHCP server option templates

Syntax : tmplist

dhcp server policy

Print DHCP server policy settings

Syntax : policy [verifyfirst = <{disabled|enabled}>]  
[trustclient = <{disabled|enabled}>]



[rtbehaviour = <{traditional|standard|msft}>]  
[ackinform = <{disabled|enabled}>]

Parameters :

[verifyfirst = <{disabled|enabled}>]

Enable/Disable IP address conflict network probing before handing out an address to a client.

[trustclient = <{disabled|enabled}>]

Whether or not the IP address suggested by a DHCP client should be taken into account.

[rtbehaviour = <{traditional|standard|msft}>]

Define the DHCP Server's route options behaviour. The options that are involved are: 3, 33, 121 and 249. "Traditional" will return 3 and/or 33; "standard" will return 3 and/or 33 or 121; "msft" will return 3 and/or 33 or 121 or 249

[ackinform = <{disabled|enabled}>]

Enable/Disable DHCP inform acknowledgement for an unknown lease

dhcp server pool

Following commands are available :

add : Add a DHCP server pool  
config : Configure a DHCP server pool  
delete : Delete a DHCP server pool  
rtadd : Add a route to the DHCP server pool  
rtdelete : Delete a route from the DHCP server pool  
optadd : Add an option instance to the DHCP server pool  
optdelete : Delete an option instance from the DHCP server pool  
ruleadd : Add a selection rule to the DHCP server pool  
ruledelete : Delete a selection rule from the DHCP server pool  
flush : Flush all DHCP server pools  
list : List all DHCP server pools

dhcp server pool add

Add a DHCP server pool

Syntax : add name = <string> [index = <number>]

Parameters :

name = <string>

The name of the DHCP server pool.

[index = <number>]

The number of the pool before which you want the new pool to be added.

dhcp server pool config

Configure a DHCP server pool

Syntax : config name = <{LAN\_private}> [state = <{disabled|enabled}>]

[allocation = <{dynamic|automatic}>]

[intf = <{LocalNetwork|Internet}>] [index = <number>]

[poolstart = <ip-address>] [poolend = <ip-address>]

[netmask = <ip-mask(dotted or cidr)>]

[gateway = <ip-address|0|none>] [server = <ip-address|none>]

[primdns = <ip-address|none>] [secdns = <ip-address|none>]

[dnsmetric = <number{0-100}>] [primwins = <ip-address|none>]

[secwins = <ip-address|none>]

[leasetime = <number{0-1814400}>]

[renewtime = <number{0-1814400}>]

[rebindtime = <number{0-1814400}>]

[unnumbered = <{disabled|enabled}>]

[localgw = <{disabled|enabled}>]

[localdns = <{disabled|enabled}>]

#### Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

[state = <{disabled|enabled}>]

Enable/Disable the DHCP server pool admin state.

[allocation = <{dynamic|automatic}>]

Define the DHCP Server's pool allocation method (tip : automatic means the IP address becomes reserved for the lease).

[intf = <{LocalNetwork|Internet}>]

The interface for which the pool is allowed to lease IP addresses.

[index = <number>]

The number of the pool before which you want the new pool to be added.

[poolstart = <ip-address>]

The DHCP server pool start IP address.

[poolend = <ip-address>]

The DHCP server pool end IP address.

[netmask = <ip-mask(dotted or cidr)>]

The DHCP server pool netmask.

[gateway = <ip-address|0|none>]

The IP address of the default router for DHCP clients.

[server = <ip-address|none>]

The IP address of the DHCP server for DHCP clients.

[primdns = <ip-address|none>]

The IP address of the primary DNS server for DHCP clients.

[secdns = <ip-address|none>]

The IP address of the secondary DNS server for DHCP clients.

[dnsmetric = <number{0-100}>]

The DHCP server pool DNS route metric.

[primwins = <ip-address|none>]

The IP address of the primary WINS server for DHCP clients.

[secwins = <ip-address|none>]

The IP address of the secondary WINS server for DHCP clients.

[leasetime = <number{0-1814400}>]

The time in seconds a client is allowed to use an address (tip: 0 means infinite lease).

[renewtime = <number{0-1814400}>]

The time in seconds before a client switches to renewing.

[rebindtime = <number{0-1814400}>]

The time in seconds before a client switches to rebinding.

[unnumbered = <{disabled|enabled}>]

Assign an IP address from this pool to the DHCP server or not (ppp pools only).

[localgw = <{disabled|enabled}>]

Proxy for a virtual default gateway residing in same subnet of DHCP client instead of the remote peer address.

[localdns = <{disabled|enabled}>]

Enable/Disable the transmission of the local DNS server in the DNS server option.

dhcp server pool delete

Delete a DHCP server pool

Syntax : delete name = <{LAN\_private}>

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

dhcp server pool flush

Flush all DHCP server pools

Syntax : flush

dhcp server pool list

List all DHCP server pools

Syntax : list [name = <{LAN\_private}>]

Parameters :

[name = <{LAN\_private}>]

The name of the DHCP server pool.

dhcp server pool optadd

Add an option instance to the DHCP server pool

Syntax : optadd name = <{LAN\_private}> instname = <>

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

instname = <>

The name of the DHCP server option instance.

dhcp server pool optdelete

Delete an option instance from the DHCP server pool

Syntax : optdelete name = <{LAN\_private}> instname = <>

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

instname = <>

The name of the DHCP server option instance.

dhcp server pool rtadd

Add a route to the DHCP server pool

Syntax : rtadd name = <{LAN\_private}> dst = <ip-address>

[dstmsk = <ip-mask(dotted or cidr)>]

[gateway = <ip-address|0>]

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

dst = <ip-address>

The IP destination address of the route for DHCP clients.

[dstmsk = <ip-mask(dotted or cidr)>]

The destination IP address mask.

[gateway = <ip-address|0>]

The IP address of the next hop. Must be directly connected to the DHCP client

dhcp server pool rtdelete

Delete a route from the DHCP server pool

Syntax : rtdelete name = <{LAN\_private}> dst = <ip-address>

[dstmsk = <ip-mask(dotted or cidr)>]

[gateway = <ip-address|0>]

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

dst = <ip-address>

The IP destination address of the route for DHCP clients.

[dstmsk = <ip-mask(dotted or cidr)>]

The destination IP address mask.

[gateway = <ip-address|0>]

The IP address of the next hop. Must be directly connected to the DHCP client

dhcp server pool ruleadd

Add a selection rule to the DHCP server pool

Syntax : ruleadd name = <{LAN\_private}> [key = <{or|and}>] rulename = <>

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

[key = <{or|and}>]

The logical key of the selection rule.

rulename = <>

The name of the DHCP selection rule.

dhcp server pool ruledel

Delete a selection rule from the DHCP server pool

Syntax : ruledel name = <{LAN\_private}> rulename = <>

Parameters :

name = <{LAN\_private}>

The name of the DHCP server pool.

rulename = <>

The name of the DHCP selection rule.

dhcp spoofing

Following commands are available :

config : Display/modify dhcp spoofing state

add : Add a Spoofing-Association

delete : Delete a Spoofing-Association

attach : Enable a Spoofing-Association

detach : Disable a Spoofing-Association

list : List the available Spoofing-Associations

option-add : Add a DHCP Option Code to a Spoofing-Association.

option-delete : Delete a DHCP Option Code from a Spoofing-Association.

flush : Flush all the associations and the options.

Following command groups are available :

debug

dhcp spoofing add

Add a Spoofing-Association

Syntax : add name = <string> pool\_name = <{LAN\_private}>

ifname = <{Internet}>

Parameters :

name = <string>

The name of the Association.

pool\_name = <{LAN\_private}>

The name of the pool to be associated.

ifname = <{Internet}>

The name of the interface on which a DHCP Client is defined.

dhcp spoofing attach

Enable a Spoofing-Association

Syntax : attach name = <{|||}>

Parameters :

name = <{|||}>

The name of the Association.

dhcp spoofing config

Display/modify dhcp spoofing state

Syntax : config [state = <{enabled|disabled}>]

Parameters :

[state = <{enabled|disabled}>]

Enable/Disable spoofing.

dhcp spoofing debug

Following commands are available :

traceconfig : Display/modify DHCP spoofing trace configuratin

dhcp spoofing debug traceconfig

Display/modify DHCP spoofing trace configuratin

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable tracing.

dhcp spoofing delete

Delete a Spoofing-Association

Syntax : delete name = <{|||}>

Parameters :

name = <{|||}>

The name of the Association.

dhcp spoofing detach

Disable a Spoofing-Association

Syntax : detach name = <{|||}>

Parameters :

name = <{|||}>

The name of the Association.

dhcp spoofing flush

Flush all the associations and the options.

Syntax : flush

dhcp spoofing list

List the available Spoofing-Associations

Syntax : list [name = <{|||}>]

Parameters :

[name = <{|||}>]

The name of the Association.

dhcp spoofing option-add

Add a DHCP Option Code to a Spoofing-Association.

Syntax : option-add name = <{|||}> option = <number>

Parameters :

name = <{|||}>

The name of the Association.

option = <number>

The option id.

dhcp spoofing option-delete

Delete a DHCP Option Code from a Spoofing-Association.

Syntax : option-delete name = <{|||}> option = <number>

Parameters :

name = <{|||}>

The name of the Association.

option = <number>

The option id.

diag

Following commands are available :

config : Configure diagnostics settings

ifhide : Specify interfaces to hide

iflist : List (dynamically generated at webpage load) of all  
interfaces to be diagnosed (debug command)

ifconfig : Configure pingoption and/or ip-address for connection

flush : Flush all hidden interfaces and ifconfigurations

diag config

Configure diagnostics settings

Syntax : config [pingtimeout = <number>] [pingpacketsize = <number>]

Parameters :

[pingtimeout = <number>]

pingtimeout (in msec.)

[pingpacketsize = <number>]

ping packet size (in bytes incl.icmp header)

diag flush

Flush all hidden interfaces and ifconfigurations

Syntax : flush

diag ifconfig

Configure pingoption and/or ip-address for connection

Syntax : ifconfig ifname = <string> [ping = <{yes|no}>]

[ipaddress = <ip-address>]

Parameters :

ifname = <string>

interfacename

[ping = <{yes|no}>]

pingoption

[ipaddress = <ip-address>]  
ping ipaddress

diag ifhide

Specify interfaces to hide

Syntax : ifhide ifname = <string>

Parameters :

ifname = <string>  
interfacename

diag iflist

List (dynamically generated at webpage load) of all interfaces to be diagnosed  
(debug command)

Syntax : iflist

dns

Following command groups are available :

client        server

dns client

Following commands are available :

dnsadd        : Add a DNS server.  
dnsdelete     : Delete a DNS server.  
dnslist       : List all DNS servers.  
config        : Modify the DNS resolver configuration.  
nslookup      : DNS lookup for a domain name or an address.  
flush         : Remove all DNS servers.

dns client config

Modify the DNS resolver configuration.

Syntax : config [timeout = <number{ 1-900}>] [retry = <number{0-10}>]  
          [state = <{disabled|enabled}>]  
          [search = <{disabled|enabled}>] [list = <string>]  
          [trace = <{disabled|enabled}>]

Parameters :

[timeout = <number{ 1-900}>]  
The query timeout in seconds.  
[retry = <number{0-10}>]  
The number of query retries before giving up.  
[state = <{disabled|enabled}>]  
Enable/disable the DNS client.  
[search = <{disabled|enabled}>]  
Use the searchlist to construct fully qualified domain names.  
[list = <string>]  
Slash separated list of domain name suffixes.  
[trace = <{disabled|enabled}>]  
Enable or disable verbose logging.

dns client dnsadd

Add a DNS server.

Syntax : dnsadd addr = <string> [port = <number>]

Parameters :

addr = <string>

The DNS server IP address.

[port = <number>]

The DNS server port number.

dns client dnsdelete

Delete a DNS server.

Syntax : dnsdelete index = <number{1-99}>

Parameters :

index = <number{1-99}>

The index number (shown by the 'list' command) of the server to delete.

dns client dnslist

List all DNS servers.

Syntax : dnslist

dns client flush

Remove all DNS servers.

Syntax : flush

dns client nslookup

DNS lookup for a domain name or an address.

Syntax : nslookup host = <string>

Parameters :

host = <string>

The DNS domain name string to query.

dns server

Following commands are available :

config : DNS server configuration settings

flush : Flush all local DNS hosts and routes.

Following command groups are available :

debug host route

dns server config

DNS server configuration settings

Syntax : config [domain = <string>] [timeout = <number{0-120}>]

[suppress = <number{0-400}>] [state = <{disabled|enabled}>]

[trace = <{disabled|enabled}>]

[syslog = <{disabled|enabled}>]

[WANDownSpoofing = <{disabled|enabled}>]

[WDSpoofedIP = <ip-address>]

Parameters :

[domain = <string>]

The DNS server domain name.

[timeout = <number{0-120}>]

The forwarded DNS query timeout.

[suppress = <number{0-400}>]

Suppress not more than specified amount of remote DNS server errors.

[state = <{disabled|enabled}>]

Enable/disable the local DNS server/forwarder.

[trace = <{disabled|enabled}>]

Enable/disable verbose console logging.

[syslog = <{disabled|enabled}>]



Enable/disable SYSLOG for DNS events.

[WANDownSpoofing = <{disabled|enabled}>]

Enable/disable DNS spoofing when no applicable forwarding route present.

[WDSpoofedIP = <ip-address>]

IP address used for spoofing when WANDownSpoofing enabled.

dns server debug

Following commands are available :

stats : Print the DNS server/forwarder statistics.

clear : Clear the DNS server/forwarder statistics.

Following command groups are available :

spooft

dns server debug clear

Clear the DNS server/forwarder statistics.

Syntax : clear

dns server debug spooft

Following commands are available :

clear : Clear the intercept cache table

list : List the intercept cache table.

getflags : Get the error flags for the given spoofed ip

getaddress : Get the real ip for the given spoofed ip

update : update the intercept cache table

dns server debug spooft clear

Clear the intercept cache table

Syntax : clear

dns server debug spooft getaddress

Get the real ip for the given spoofed ip

Syntax : getaddress addr = <ip-address>

Parameters :

addr = <ip-address>

The spoofed ip to look up.

dns server debug spooft getflags

Get the error flags for the given spoofed ip

Syntax : getflags addr = <ip-address>

Parameters :

addr = <ip-address>

The spoofed ip to look up.

dns server debug spooft list

List the intercept cache table.

Syntax : list

dns server debug spooft update

update the intercept cache table

Syntax : update

dns server debug stats

Print the DNS server/forwarder statistics.

Syntax : stats

dns server flush

Flush all local DNS hosts and routes.

Syntax : flush

dns server host

Following commands are available :

add : Add a local DNS host  
delete : Delete a local DNS host  
flush : Flush all local DNS hosts  
list : List all local DNS hosts

dns server host add

Add a local DNS host

Syntax : add name = <string> [addr = <ip-address>] [ttl = <number>]

Parameters :

name = <string>

The name of an IP host to add.

[addr = <ip-address>]

The IP address of the host.

[ttl = <number>]

The lifetime of the host.

dns server host delete

Delete a local DNS host

Syntax : delete name = <string>

Parameters :

name = <string>

The name of an IP host to delete.

dns server host flush

Flush all local DNS hosts

Syntax : flush

dns server host list

List all local DNS hosts

Syntax : list

dns server route

Following commands are available :

add : Creates a DNS forwarding entry or template  
delete : Deletes a DNS forwarding entry or template  
flush : Removes all DNS forwarding entries and templates  
list : Lists all DNS forwarding entries and templates

dns server route add

Creates a DNS forwarding entry or template

Syntax : add dns = <ip-address> [src = <ip-address>]

[srcmask = <ip-mask(dotted or cidr)>] [domain = <string>]

[metric = <number{0-100}>]

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

[intf = <{loop|LocalNetwork|Internet}>]

Parameters :

dns = <ip-address>

The IP address of a DNS server. If 0.0.0.0 is used, the entry becomes a DNS-Template which is instantiated if DNS Server IPs are configured on an

IP interface.

[src = <ip-address>]

If specified, only DNS queries from machines of which the source IP address matches the source prefix of the DNS entry will be forwarded to the corresponding DNS server.

[srcmask = <ip-mask(dotted or cidr)>]

The IP address mask for the source prefix.

[domain = <string>]

Domain matching string. If configured, only those DNS queries of which the domain name in the query matches with the string configured for the entry will be forwarded to the corresponding DNS Server. Maximum string length: 62 characters

[metric = <number{0-100}>]

The metric for the DNS entry. The DNS Entry List is sorted on DNS Metric; the lower the metric, the higher the priority of the entry.

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The label associated with the DNS entry or DNS Template.

[intf = <{loop|LocalNetwork|Internet}>]

The interface associated with the DNS entry or DNS Template.

dns server route delete

Deletes a DNS forwarding entry or template

Syntax : delete dns = <ip-address> [domain = <string>]  
[intf = <{loop|LocalNetwork|Internet}>]

Parameters :

dns = <ip-address>

The IP address of a DNS server.

[domain = <string>]

The DNS domain string.

[intf = <{loop|LocalNetwork|Internet}>]

The interface associated with the DNS entry or DNS Template.

dns server route flush

Removes all DNS forwarding entries and templates

Syntax : flush

dns server route list

Lists all DNS forwarding entries and templates

Syntax : list

dsd

Following commands are available :

config : Display/modify DSD framework configuration

Following command groups are available :

debug intercept syslog urlfilter webfilter

dsd config

Display/modify DSD framework configuration

Syntax : config [state = <{disabled|enabled|automatic}>]

Parameters :

[state = <{disabled|enabled|automatic}>]

DSD framework operation mode

dsd debug

Following commands are available :

config : Display/modify DSD debug settings  
stats : Display/clear DSD framework and module statistics  
recycling : Display/modify HTTPPI recycling settings  
proxy : Display/modify HTTPPI fixed proxy settings

Following command groups are available :

connection

dsd debug config

Display/modify DSD debug settings

Syntax : config [turbomode = <{disabled|enabled}>]

Parameters :

[turbomode = <{disabled|enabled}>]

Enable/disable turbomode

dsd debug connection

Following commands are available :

list : Display internal connection pool usage

dsd debug connection list

Display internal connection pool usage

Syntax : list [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

dsd debug proxy

Display/modify HTTPPI fixed proxy settings

Syntax : proxy [state = <{disabled|enabled}>] [dest = <ip-address>]

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Parameters :

[state = <{disabled|enabled}>]

Enable/disable fixed proxy redirecting

[dest = <ip-address>]

Destination IP where requests will be forwarded to

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|

ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfsd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Port used for connecting to the proxy IP

dsd debug recycling

Display/modify HTTP recycling settings

Syntax : recycling [state = <{disabled|enabled}>] [interval = <number>] [httpidle = <number>] [otheridle = <number>]

Parameters :

[state = <{disabled|enabled}>]

Enable/disable stream recycling

[interval = <number>]

Time between successive activity checks

[httpidle = <number>]

Minimal idle count for recycling (filtered) http streams

[otheridle = <number>]

Minimal idle count for recycling other streams

dsd debug stats

Display/clear DSD framework and module statistics

Syntax : stats [name = <{intercept|urlfilter|recycling|syslog|all}>] [clear = <{no|yes}>]

Parameters :

[name = <{intercept|urlfilter|recycling|syslog|all}>]

Specify the name of a module

[clear = <{no|yes}>]

Clear the specified statistics

dsd intercept

Following commands are available :

config : Display/modify HTTP Intercept configuration

dsd intercept config

Display/modify HTTP Intercept configuration

Syntax : config [WDSpoofedIP = <ip-address>] [servertimeout = <number>] [connecterrorurl = <string>] [categoryerrorurl = <string>] [monitorintercepturl = <string>] [unauthorizedrequrl = <string>] [imageredirect = <{disabled|enabled}>] [imageredirecturl = <string>] [alwaysuseip = <{disabled|enabled}>]

Parameters :

[WDSpoofedIP = <ip-address>]

IP address indicating unavailable WAN connection.

[servertimeout = <number>]

Server timeout for redirect action

[connecterrorurl = <string>]

Destination url when connection to server failed

[categoryerrorurl = <string>]

Destination url when connection to category server failed  
[monitorintercepturl = <string>]  
Destination url when request is intercepted by monitor thread  
[unauthorizedrequrl = <string>]  
Destination url when requested url is blocked by some rule or setting  
[imageredirect = <{disabled|enabled}>]  
Enable/disable substituting blocked images  
[imageredirecturl = <string>]  
URL of image used when substituting blocked images  
[alwaysuseip = <{disabled|enabled}>]  
Always use ip address when redirecting to a local page

dsd syslog

Following commands are available :

config : Display/modify HTTPPI logging configuration  
list : Display HTTPPI log file

dsd syslog config

Display/modify HTTPPI logging configuration

Syntax : config [syslog = <{none|unauthorized|errors|intercepted|all}>]

Parameters :

[syslog = <{none|unauthorized|errors|intercepted|all}>]  
Define which type of events to log

dsd syslog list

Display HTTPPI log file

Syntax : list

dsd urlfilter

Following commands are available :

config : Display/modify url filtering configuration

Following command groups are available :

rule

dsd urlfilter config

Display/modify url filtering configuration

Syntax : config [state = <{disabled|enabled}>]  
[blockproxy = <{disabled|enabled}>]  
[blockipaddress = <{disabled|enabled}>]  
[blockobscuredip = <{disabled|enabled}>]  
[defaultaction = <{block|accept}>]

Parameters :

[state = <{disabled|enabled}>]  
Enable/disable url filtering  
[blockproxy = <{disabled|enabled}>]  
Block HTTP requests via a proxy server  
[blockipaddress = <{disabled|enabled}>]  
Block HTTP requests if host name is IP address  
[blockobscuredip = <{disabled|enabled}>]  
Block HTTP requests if host name is believed to be an IP address  
[defaultaction = <{block|accept}>]  
Action to perform when no filter applicable.

dsd urlfilter rule

Following commands are available :

add : Add a rule  
delete : Remove a rule  
modify : Modify an existing rule  
list : Display a list of current rules  
flush : Remove all current rules

dsd urlfilter rule add

Add a rule

Syntax : add url = <string> action = <{block|accept|redirect}>  
redirect = <string>

Parameters :

url = <string>  
Definition of the url filter  
action = <{block|accept|redirect}>  
Action to perform when url matches url  
redirect = <string>  
Redirection url

dsd urlfilter rule delete

Remove a rule

Syntax : delete index = <number> [url = <string>]

Parameters :

index = <number>  
Insertion position in the list  
[url = <string>]  
Definition of the url filter

dsd urlfilter rule flush

Remove all current rules

Syntax : flush

dsd urlfilter rule list

Display a list of current rules

Syntax : list

dsd urlfilter rule modify

Modify an existing rule

Syntax : modify index = <number> [newurl = <string>]  
action = <{block|accept|redirect}> redirect = <string>

Parameters :

index = <number>  
Insertion position in the list  
[newurl = <string>]  
Definition of the new url filter  
action = <{block|accept|redirect}>  
Action to perform when url matches url  
redirect = <string>  
Redirection url

dsd webfilter

Following commands are available :

config : Configure web filter  
list : Display web filter license state

Following command groups are available :

cache professional server standard

dsd webfilter cache

Following commands are available :

stats : Display cache statistics  
flush : Empty internal cache

dsd webfilter cache flush

Empty internal cache

Syntax : flush

dsd webfilter cache stats

Display cache statistics

Syntax : stats [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

More detailed statistics.

dsd webfilter config

Configure web filter

Syntax : config [state = <{enabled|disabled}>]

[serverunreachable = <{block-all|accept-all}>]

[uncategorized = <{block|accept}>]

[license = <{none|trial|standard|professional}>]

[ticket = <string>] [sessionkey = <string>]

Parameters :

[state = <{enabled|disabled}>]

Enable or disable the web filter

[serverunreachable = <{block-all|accept-all}>]

Block or allow requests when the categorization server is unreachable

[uncategorized = <{block|accept}>]

Block or allow requests for which no category is available

[license = <{none|trial|standard|professional}>]

[ticket = <string>]

[sessionkey = <string>]

dsd webfilter list

Display web filter license state

Syntax : list

dsd webfilter professional

Following commands are available :

config :

Following command groups are available :

category level rule



dsd webfilter professional category  
Following commands are available :

create : Create a category or group  
add : Add a category to a group  
remove : Remove a category from a group  
delete : Delete a category or group  
list : List all categories and groups  
flush : Delete all categories and groups

dsd webfilter professional category add  
Add a category to a group  
Syntax : add destid = <number> srcid = <number>

Parameters :  
destid = <number>  
Destination category or group  
srcid = <number>  
Category ID to add

dsd webfilter professional category create  
Create a category or group  
Syntax : create id = <number> name = <quoted string>  
type = <{category|group}>

Parameters :  
id = <number>  
Unique local ID for the category/group  
name = <quoted string>  
Friendly name  
type = <{category|group}>

dsd webfilter professional category delete  
Delete a category or group  
Syntax : delete id = <number>

Parameters :  
id = <number>  
Unique local ID for the category/group

dsd webfilter professional category flush  
Delete all categories and groups  
Syntax : flush  
dsd webfilter professional category list  
List all categories and groups  
Syntax : list [type = <{category|group}>]

Parameters :  
[type = <{category|group}>]

dsd webfilter professional category remove  
Remove a category from a group  
Syntax : remove destid = <number> srcid = <number>

Parameters :

destid = <number>  
Destination category or group  
srcid = <number>  
Category ID to add

dsd webfilter professional config

Syntax : config [listversion = <string>] [validcatmask = <string>]

Parameters :

[listversion = <string>]

[validcatmask = <string>]

dsd webfilter professional level

Following commands are available :

set : Set current web filtering level  
add : Add a new web filtering level  
modify : Modify a web filtering level  
delete : Delete a web filtering level  
list : Display levels  
flush : Delete all levels

dsd webfilter professional level add

Add a new web filtering level

Syntax : add index = <number> name = <string> [text = <quoted string>]  
[otherurls = <{block|accept}>]

Parameters :

index = <number>  
Level index (-1 for next available)  
name = <string>  
Content category level name  
[text = <quoted string>]  
Friendly description  
[otherurls = <{block|accept}>]  
Block or allow requests that do not belong to a specific category

dsd webfilter professional level delete

Delete a web filtering level

Syntax : delete index = <number> name = <string> [text = <quoted string>]  
[otherurls = <{block|accept}>]

Parameters :

index = <number>  
Level index (-1 for next available)  
name = <string>  
Content category level name  
[text = <quoted string>]  
Friendly description  
[otherurls = <{block|accept}>]  
Block or allow requests that do not belong to a specific category

dsd webfilter professional level flush

Delete all levels

Syntax : flush

dsd webfilter professional level list

Display levels

Syntax : list

dsd webfilter professional level modify

Modify a web filtering level

Syntax : modify index = <number> name = <string> [text = <quoted string>]

[otherurls = <{block|accept}>]

Parameters :

index = <number>

Level index (-1 for next available)

name = <string>

Content category level name

[text = <quoted string>]

Friendly description

[otherurls = <{block|accept}>]

Block or allow requests that do not belong to a specific category

dsd webfilter professional level set

Set current web filtering level

Syntax : set name = <string>

Parameters :

name = <string>

Name of the current category level

dsd webfilter professional rule

Following commands are available :

modify : Modify a rule

list : List all rules

clear : Reset level to default rule

dsd webfilter professional rule clear

Reset level to default rule

Syntax : clear level = <string>

Parameters :

level = <string>

Level name

dsd webfilter professional rule list

List all rules

Syntax : list [level = <string>]

Parameters :

[level = <string>]

Level name

dsd webfilter professional rule modify

Modify a rule

Syntax : modify level = <string> [id = <number>] action = <{block|accept}>

Parameters :

level = <string>

Level name

[id = <number>]  
Server category ID  
action = <{block|accept}>

dsd webfilter server

Following commands are available :

config : Configure web filter server  
add : Add a web filter server  
modify : Modify a web filter server  
delete : Delete a web filter server  
list : List all web filter servers  
flush : Flush server list

dsd webfilter server add

Add a web filter server

Syntax : add [index = <number>] address = <ip-address>

port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|doom|  
echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|  
ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|  
kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|  
netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|  
rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|  
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|  
ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows } or number>

Parameters :

[index = <number>]

Server index

address = <ip-address>

Server IP address

port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|  
clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-  
data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|  
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-  
ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-  
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|  
snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|  
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows } or number>

Server port

dsd webfilter server config

Configure web filter server

Syntax : config [listversion = <string>] [retries = <number>]

[servertimeout = <number>] [timeoutmultiplier = <number>]

[renewfrequency = <number>] [useproxy = <{disabled|enabled}>]

[proxysrv = <ip-address>]

[proxyport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|  
bootpc|bootps|chargen|clearcase|daytime|discard|  
dns|domain|doom|echo|exec|finger|ftp|ftp-data|  
gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-

```
net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|
netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|
rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-
rlogin|who|www-http|whoami|xwindows } or number>]
```

Parameters :

[listversion = <string>]

[retries = <number>]

Number of server contact retries

[servertimeout = <number>]

Server timeout in seconds

[timeoutmultiplier = <number>]

Timeout for reporting server error to client (timeout \* multiplier)

[renewfrequency = <number>]

Frequency (in hours) to check license and list versions

[useproxy = <{ disabled|enabled }>]

Enable or disable the use of a proxy server

[proxyserver = <ip-address>]

Proxy server to be used

[proxyport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|
nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]

Proxy server port to be used

dsd webfilter server delete

Delete a web filter server

Syntax : delete index = <number> address = <ip-address>

```
port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|
bootps|chargen|clearcase|daytime|discard|dns|domain|
doom|echo|exec|finger|ftp|ftp-data|gopher|h323|
httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfd|nicname|
nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|
sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>
```

Parameters :

index = <number>

Server index

address = <ip-address>

Server IP address

```
port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|
clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-
data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-
ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows} or number>
```

Server port

dsd webfilter server flush

Flush server list

Syntax : flush

dsd webfilter server list

List all web filter servers

Syntax : list

dsd webfilter server modify

Modify a web filter server

Syntax : modify index = <number> address = <ip-address>

```
port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|
bootps|chargen|clearcase|daytime|discard|dns|domain|
doom|echo|exec|finger|ftp|ftp-data|gopher|h323|
httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|
irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|
nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|
sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows} or number>
```

Parameters :

index = <number>

Server index

address = <ip-address>

Server IP address

```
port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|
clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-
data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-
ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows} or number>
```

Server port

dsd webfilter standard

Following commands are available :

config :

Following command groups are available :

category      level      rule

dsd webfilter standard category

Following commands are available :

create        : Create a category or group  
add           : Add a category to a group  
remove        : Remove a category from a group  
delete        : Delete a category or group  
list          : List all categories and groups  
flush         : Delete all categories and groups

dsd webfilter standard category add

Add a category to a group

Syntax : add destid = <number> srcid = <number>

Parameters :

destid = <number>  
Destination category or group  
srcid = <number>  
Category ID to add

dsd webfilter standard category create

Create a category or group

Syntax : create id = <number> name = <quoted string>  
          type = <{category|group}>

Parameters :

id = <number>  
Unique local ID for the category/group  
name = <quoted string>  
Friendly name  
type = <{category|group}>

dsd webfilter standard category delete

Delete a category or group

Syntax : delete id = <number>

Parameters :

id = <number>  
Unique local ID for the category/group

dsd webfilter standard category flush

Delete all categories and groups

Syntax : flush

dsd webfilter standard category list

List all categories and groups

Syntax : list [type = <{category|group}>]

Parameters :

[type = <{category|group}>]

dsd webfilter standard category remove

Remove a category from a group

Syntax : remove destid = <number> srcid = <number>

Parameters :

destid = <number>  
Destination category or group  
srcid = <number>  
Category ID to add

dsd webfilter standard config

Syntax : config [stdmax = <number>] [validcatmask = <string>]

Parameters :

[stdmax = <number>]  
  
[validcatmask = <string>]

dsd webfilter standard level

Following commands are available :

set : Set current web filtering level  
add : Add a new web filtering level  
modify : Modify a web filtering level  
delete : Delete a web filtering level  
list : Display levels  
flush : Delete all levels

dsd webfilter standard level add

Add a new web filtering level

Syntax : add index = <number> name = <string> [text = <quoted string>]  
[otherurls = <{block|accept}>]

Parameters :

index = <number>  
Level index (-1 for next available)  
name = <string>  
Content category level name  
[text = <quoted string>]  
Friendly description  
[otherurls = <{block|accept}>]  
Block or allow requests that do not belong to a specific category

dsd webfilter standard level delete

Delete a web filtering level

Syntax : delete index = <number> name = <string> [text = <quoted string>]  
[otherurls = <{block|accept}>]

Parameters :

index = <number>  
Level index (-1 for next available)  
name = <string>  
Content category level name  
[text = <quoted string>]  
Friendly description  
[otherurls = <{block|accept}>]  
Block or allow requests that do not belong to a specific category

dsd webfilter standard level flush



Delete all levels

Syntax : flush

dsd webfilter standard level list

Display levels

Syntax : list

dsd webfilter standard level modify

Modify a web filtering level

Syntax : modify index = <number> name = <string> [text = <quoted string>]  
[otherurls = <{block|accept}>]

Parameters :

index = <number>

Level index (-1 for next available)

name = <string>

Content category level name

[text = <quoted string>]

Friendly description

[otherurls = <{block|accept}>]

Block or allow requests that do not belong to a specific category

dsd webfilter standard level set

Set current web filtering level

Syntax : set name = <string>

Parameters :

name = <string>

Name of the current category level

dsd webfilter standard rule

Following commands are available :

modify : Modify a rule

list : List all rules

clear : Reset level to default rule

dsd webfilter standard rule clear

Reset level to default rule

Syntax : clear level = <string>

Parameters :

level = <string>

Level name

dsd webfilter standard rule list

List all rules

Syntax : list [level = <string>]

Parameters :

[level = <string>]

Level name

dsd webfilter standard rule modify

Modify a rule

Syntax : modify level = <string> [id = <number>] action = <{block|accept}>

Parameters :

level = <string>

Level name  
[id = <number>]  
Server category ID  
action = <{block|accept}>

#### dyndns

Following commands are available :

add : Add a dynamic DNS client.  
modify : Modify a dynamic DNS client.  
delete : Delete a dynamic DNS client.  
flush : Delete all dynamic DNS clients.  
list : List all dynamic DNS clients.

Following command groups are available :

host service

#### dyndns add

Add a dynamic DNS client.

Syntax : add name = <string>

Parameters :

name = <string>

The dynamic DNS client name.

#### dyndns delete

Delete a dynamic DNS client.

Syntax : delete name = <{dyndns\_0}>

Parameters :

name = <{dyndns\_0}>

The dynamic DNS client name.

#### dyndns flush

Delete all dynamic DNS clients.

Syntax : flush

#### dyndns host

Following commands are available :

add : Add a fully qualified host name  
delete : Delete a host name  
flush : Delete all host names  
list : List all host names

#### dyndns host add

Add a fully qualified host name

Syntax : add group = <{dyndns\_0}> name = <string>

Parameters :

group = <{dyndns\_0}>

The dynamic DNS host group.

name = <string>

The name of an IP host to add.

#### dyndns host delete

Delete a host name

Syntax : delete name = <{boltonlancs.homedns.org}>

Parameters :

name = <{boltonlancs.homedns.org}>

The name of an IP host to delete.

dyndns host flush

Delete all host names

Syntax : flush

dyndns host list

List all host names

Syntax : list

dyndns list

List all dynamic DNS clients.

Syntax : list

dyndns modify

Modify a dynamic DNS client.

Syntax : modify name = <{dyndns\_0}> [intf = <{}>] [user = <string>]

[password = <password>] [group = <{dyndns\_0}>]

[mx = <string>] [backmx = <{disabled|enabled}>]

[wildcard = <{disabled|enabled}>]

[offline = <{disabled|enabled}>]

[service = <{dyndns|statdns|custom|No-IP|DtDNS|gnudip}>]

[status = <{disabled|enabled}>]

[trace = <{disabled|enabled}>]

Parameters :

name = <{dyndns\_0}>

The dynamic DNS client name.

[intf = <{}>]

The dynamic DNS client interface.

[user = <string>]

The username for dynamic DNS authentication.

[password = <password>]

The password for dynamic DNS authentication.

[group = <{dyndns\_0}>]

The dynamic DNS host group.

[mx = <string>]

The mail exchanger.

[backmx = <{disabled|enabled}>]

Set up the mail exchanger as a backup MX.

[wildcard = <{disabled|enabled}>]

Allow use of hostname wildcards.

[offline = <{disabled|enabled}>]

Set the host to offline mode.

[service = <{dyndns|statdns|custom|No-IP|DtDNS|gnudip}>]

The dynamic DNS service.

[status = <{disabled|enabled}>]

Enable/Disable the dynamic DNS client.

[trace = <{disabled|enabled}>]

Enable/Disable the verbose console logging for the dynamic DNS client.

dyndns service

Following commands are available :

modify : Modify specific dynamic DNS service settings

list : List all dynamic DNS services

dyndns service list

List all dynamic DNS services

Syntax : list

dyndns service modify

Modify specific dynamic DNS service settings

Syntax : modify name = <{ dyndns|statdns|custom|No-IP|DtDNS|gnudip}>

[server = <string>]

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|iis|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtp|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[request = <string>] [updateinterval = <number{0-2097120}>]

[retryinterval = <number{0-600}>] [max\_retry = <number{1-5}>]

Parameters :

name = <{ dyndns|statdns|custom|No-IP|DtDNS|gnudip}>

The dynamic DNS service.

[server = <string>]

The dynamic DNS server hostname.

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|iis|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtp|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

The dynamic DNS server port.

[request = <string>]

The dynamic DNS request string.

[updateinterval = <number{0-2097120}>]

Number of seconds before a dynamic update is sent to the dynamic DNS server (The value 0 means disabled).

[retryinterval = <number{0-600}>]

Number of seconds between retries if communication with the dynamic DNS server fails (The value 0 means disabled).

[max\_retry = <number{1-5}>]

The maximum number of retries if communication with the dynamic DNS server fails.

env

Following commands are available :

set : Sets an environment variable.

get : Gets an environment variable.

unset : Deletes an environment variable.

list : List all environment variables.

flush : Remove all non-system environment variables.

env def

Define an environment variable

Syntax : def var = <string>

```
type = <{string|passwd|integer|combo|list|radioset|bool|ipaddr|
ipmask|passwdcheck|label|hex|grp}>
[grp = <string>] [desc = <translated string>]
[help = <translated string>] [alias = <translated string>]
[req <{no|yes}>] [default = <quoted string>]
[data = <quoted string>] [dalias = <translated string>]
[min = <number>] [max = <number>] [calc = <quoted string>]
[linkvar = <string>]
```

Parameters :

var = <string>

Variable name : name of variable or group

type = <{string|passwd|integer|combo|list|radioset|bool|ipaddr|ipmask|passwdcheck|label|hex|grp}>

type of the variable

[grp = <string>]

Group name in case variable is defined

[desc = <translated string>]

Description text, help text

[help = <translated string>]

Additional help text (only for group description)

[alias = <translated string>]

user friendly name for field or group

[req <{no|yes}>]

parameter without value: to indicate a required field

[default = <quoted string>]

a default value field for variable

[data = <quoted string>]

list of values, used in configuration file

[dalias = <translated string>]

user friendly names for data values

[min = <number>]

minimum value in case type is integer

[max = <number>]

maximum value in case type is integer

[calc = <quoted string>]

host wizard related stuff, ignored here

[linkvar = <string>]

to which variable this variable is linked to (only for passwdcheck)

env flush

Remove all non-system environment variables.

Syntax : flush

env get

Gets an environment variable.

Syntax : get var = <{\_SW\_FLAG|ETHERNET|COMPANY\_NAME|COMPANY\_URL|PROD\_NAME|\_PROD\_URL|\_PROD\_DESCRIPTION|\_PROD\_NUMBER|\_WL1\_SSID\_PREFIX\_CUSTOM|\_WL2\_SSID\_PREFIX\_CUSTOM|\_WL3\_SSID\_PREFIX\_CUSTOM|\_SSID\_SERIAL\_PREFIX|\_BOARD\_SERIAL\_NBR|\_PROD\_SERIAL\_NBR|\_FII|\_BUILD|\_BOOTLOADER\_VERSION|\_BUILDVARIANT|\_MODEM\_ACCESS\_CODE|\_SSID\_WL\_ACCCODE\_POSTFIX|\_SEC\_MODEM\_ACCESS\_CODE|\_OUI}

```
_CUSTOVARIANT|_PHYSLAYERTYPE|_BUILDNAME|_PRL|_FIA|  
_BOARD_NAME|_COMPANY_ID|_COPYRIGHT|_TPVERSION|_PROD_ID|  
_PROD_FRIENDLY_NAME|_VARIANT_ID|_VARIANT_FRIENDLY_NAME|  
_MACADDR|_LMACADDR|_WL0_WEPKEY_SERIAL|_WL0_WPAKEY_SERIAL|  
_WL0_SSID_SERIAL|_WL0_SSID_PREFIX|_WL0_BASE52_SERIAL|  
_WL0_PIN_SERIAL|_WL0_UUID_E_SERIAL|_WL0_UUID_R_SERIAL|  
_WL1_WEPKEY_SERIAL|_WL1_WPAKEY_SERIAL|_WL1_SSID_SERIAL|  
_WL1_BASE52_SERIAL|_WL_VERSION}>
```

Parameters :

```
var = <{_SW_FLAG|_ETHERNET|_COMPANY_NAME|_COMPANY_URL|_PROD_NAME|_PROD_URL|  
_PROD_DESCRIPTION|_PROD_NUMBER|_WL1_SSID_PREFIX_CUSTOM|  
_WL2_SSID_PREFIX_CUSTOM|_WL3_SSID_PREFIX_CUSTOM|_SSID_SERIAL_PREFIX|  
_BOARD_SERIAL_NBR|_PROD_SERIAL_NBR|_FII|_BUILD|_BOOTLOADER_VERSION|  
_BUILDVARIANT|_MODEM_ACCESS_CODE|_SSID_WL_ACCCODE_POSTFIX|  
_SEC_MODEM_ACCESS_CODE|_OUI|_CUSTOVARIANT|_PHYSLAYERTYPE|_BUILDNAME|  
_PRL|_FIA|_BOARD_NAME|_COMPANY_ID|_COPYRIGHT|_TPVERSION|_PROD_ID|  
_PROD_FRIENDLY_NAME|_VARIANT_ID|_VARIANT_FRIENDLY_NAME|_MACADDR|  
_LMACADDR|_WL0_WEPKEY_SERIAL|_WL0_WPAKEY_SERIAL|_WL0_SSID_SERIAL|  
_WL0_SSID_PREFIX|_WL0_BASE52_SERIAL|_WL0_PIN_SERIAL|  
_WL0_UUID_E_SERIAL|_WL0_UUID_R_SERIAL|_WL1_WEPKEY_SERIAL|  
_WL1_WPAKEY_SERIAL|_WL1_SSID_SERIAL|_WL1_BASE52_SERIAL|_WL_VERSION}>
```

The name of the variable.

env hash

Transfer variable by hash algorithm.

Syntax : hash src = <string> dest = <string>

```
crypto = <{MD2|MD5|SHA1|SHA256|SHA512}> len = <number{0-128}>
```

Parameters :

src = <string>

The values of the source

dest = <string>

The name of the destinate variable.

```
crypto = <{MD2|MD5|SHA1|SHA256|SHA512}>
```

The selection of encryption.

len = <number{0-128}>

The length to get.

env list

List all environment variables.

Syntax : list

env set

Sets an environment variable.

Syntax : set var = <string> value = <translated string>

Parameters :

var = <string>

The name of the variable.

value = <translated string>

A translated quoted string defining the variable value.

env unset

Deletes an environment variable.

```
Syntax : unset var = <{_SW_FLAG|_ETHERNET|_COMPANY_NAME|_COMPANY_URL|  
_PROD_NAME|_PROD_URL|_PROD_DESCRIPTION|_PROD_NUMBER|
```

```

_WL1_SSID_PREFIX_CUSTOM|_WL2_SSID_PREFIX_CUSTOM|
_WL3_SSID_PREFIX_CUSTOM|_SSID_SERIAL_PREFIX|
_BOARD_SERIAL_NBR|_PROD_SERIAL_NBR|_FII|_BUILD|
_BOOTLOADER_VERSION|_BUILDVARIANT|_MODEM_ACCESS_CODE|
_SSID_WL_ACCCODE_POSTFIX|_SEC_MODEM_ACCESS_CODE|_OUI|
_CUSTOVARIANT|_PHYSLAYERTYPE|_BUILDNAME|_PRL|_FIA|
_BOARD_NAME|_COMPANY_ID|_COPYRIGHT|_TPVERSION|_PROD_ID|
_PROD_FRIENDLY_NAME|_VARIANT_ID|_VARIANT_FRIENDLY_NAME|
_MACADDR|_LMACADDR|_WL0_WEPKEY_SERIAL|_WL0_WPAKEY_SERIAL|
_WL0_SSID_SERIAL|_WL0_SSID_PREFIX|_WL0_BASE52_SERIAL|
_WL0_PIN_SERIAL|_WL0_UUID_E_SERIAL|_WL0_UUID_R_SERIAL|
_WL1_WEPKEY_SERIAL|_WL1_WPAKEY_SERIAL|_WL1_SSID_SERIAL|
_WL1_BASE52_SERIAL|_WL_VERSION}>

```

Parameters :

```

var = <{_SW_FLAG|_ETHERNET|_COMPANY_NAME|_COMPANY_URL|_PROD_NAME|_PROD_URL|
_PROD_DESCRIPTION|_PROD_NUMBER|_WL1_SSID_PREFIX_CUSTOM|
_WL2_SSID_PREFIX_CUSTOM|_WL3_SSID_PREFIX_CUSTOM|_SSID_SERIAL_PREFIX|
_BOARD_SERIAL_NBR|_PROD_SERIAL_NBR|_FII|_BUILD|_BOOTLOADER_VERSION|
_BUILDVARIANT|_MODEM_ACCESS_CODE|_SSID_WL_ACCCODE_POSTFIX|
_SEC_MODEM_ACCESS_CODE|_OUI|_CUSTOVARIANT|_PHYSLAYERTYPE|_BUILDNAME|
_PRL|_FIA|_BOARD_NAME|_COMPANY_ID|_COPYRIGHT|_TPVERSION|_PROD_ID|
_PROD_FRIENDLY_NAME|_VARIANT_ID|_VARIANT_FRIENDLY_NAME|_MACADDR|
_LMACADDR|_WL0_WEPKEY_SERIAL|_WL0_WPAKEY_SERIAL|_WL0_SSID_SERIAL|
_WL0_SSID_PREFIX|_WL0_BASE52_SERIAL|_WL0_PIN_SERIAL|
_WL0_UUID_E_SERIAL|_WL0_UUID_R_SERIAL|_WL1_WEPKEY_SERIAL|
_WL1_WPAKEY_SERIAL|_WL1_SSID_SERIAL|_WL1_BASE52_SERIAL|_WL_VERSION}>

```

The name of the variable.

eth

Following commands are available :

```

ifadd      : Create a new ETH interface.
ifdelete   : Delete an ETH interface.
ifattach   : Attach an ETH interface.
ifdetach   : Detach an ETH interface.
ifconfig   : Modify an ETH interface.
iflist     : Display the ETH interfaces.
flush      : Flush all ETH interfaces.

```

Following command groups are available :

```

device      filter      bridge      switch      vlan

```

eth bridge

Following commands are available :

```

config      : Modify/Display the bridge configuration settings.
list        : Display the current bridge instances.
add         : Add a new bridge instance.
delete      : Delete a bridge instance.
select      : Select the default bridge for configuring interfaces from
              (if not setting bridge name, for legacy purposes).
ifadd       : Add a new bridge interface.
ifdelete    : Delete a bridge interface.
ifattach    : Attach a bridge interface.

```

ifdetach : Detach a bridge interface.  
ifconfig : Modify a bridge interface configuration.  
ifflush : flush the bridge interfaces: detach/delete all interfaces.  
iflist : Display the current bridge interfaces.  
macadd : Add a static MAC address to a bridge interface.  
maclist : Display the MAC address database.  
macdelete : Remove a MAC address from the database.  
clear : Clear bridge statistics.  
flush : Flush all bridge instances with their interfaces and properties.

Following command groups are available :

dynvlan filter igmpsnoping rule unknownvlan  
vlan xtratag

eth bridge add  
Add a new bridge instance.  
Syntax : add brname = <string>

Parameters :  
brname = <string>  
The name of the new bridge instance.

eth bridge clear  
Clear bridge statistics.  
Syntax : clear [brname = <{bridge}>]

Parameters :  
[brname = <{bridge}>]  
The name of a bridge instance.

eth bridge config  
Modify/Display the bridge configuration settings.  
Syntax : config [brname = <{bridge}>] [age = <number{ 10-1000000}>]  
[filter = <{none|no\_WAN\_broadcast}>]  
[vlan = <{disabled|enabled}>] [precedencemap = <string>]

Parameters :  
[brname = <{bridge}>]  
The name of a bridge instance.  
[age = <number{ 10-1000000}>]  
The lifetime (in seconds) of a dynamically learned MAC address.  
[filter = <{none|no\_WAN\_broadcast}>]  
The bridge filter to be applied for all WAN bridge interfaces.  
[vlan = <{disabled|enabled}>]  
Enable/disable the use of the VLAN id of the received VLAN packets.  
[precedencemap = <string>]  
The IP QoS precedence mapping table.

eth bridge delete  
Delete a bridge instance.  
Syntax : delete brname = <{bridge}>

Parameters :  
brname = <{bridge}>  
The name of a bridge instance.



## eth bridge dyngroup

Following commands are available :

- add : Add a dynamic group membership entry.
- config : Modify the dynamic group membership configuration.

### eth bridge dyngroup add

Add a dynamic group membership entry.

Syntax : add [id = <number{0-100000}>] hwaddr = <masked-hardware-address>  
group = <{default}> [rgroup = <{default}>]

Parameters :

[id = <number{0-100000}>]

hwaddr = <masked-hardware-address>

group = <{default}>

The group for the dynamic group membership entry.

[rgroup = <{default}>]

The group that is to be removed from the port.

### eth bridge dyngroup config

Modify the dynamic group membership configuration.

Syntax : config [timeout = <number{0-100000}>]

Parameters :

[timeout = <number{0-100000}>]

Timeout in seconds for the dynamic entries.

## eth bridge dynvlan

Following commands are available :

- add : Add a dynamic VLAN membership entry.
- delete : Delete a dynamic VLAN membership entry.
- list : Display a dynamic VLAN membership entry.
- flush : Flush all dynamic VLAN membership entries.
- config : Modify the dynamic VLAN membership configuration.
- actlist : Display the active MAC entries for the dynamic VLAN membership.

### eth bridge dynvlan actlist

Display the active MAC entries for the dynamic VLAN membership.

Syntax : actlist

### eth bridge dynvlan add

Add a dynamic VLAN membership entry.

Syntax : add [id = <number{0-100000}>] hwaddr = <masked-hardware-address>  
vlan = <{default}> [remvlan = <{default}>]

Parameters :

[id = <number{0-100000}>]

The id of the dynamic VLAN membership entry.

hwaddr = <masked-hardware-address>

The (masked) ethernet MAC address of the dynamic VLAN membership entry.

vlan = <{default}>

The VLAN for the dynamic VLAN membership entry.

[remvlan = <{default}>]

The VLAN that will be removed from the bridge interface.

eth bridge dynvlan config

Modify the dynamic VLAN membership configuration.

Syntax : config [timeout = <number{0-100000}>]

Parameters :

[timeout = <number{0-100000}>]

Timeout in seconds for the dynamic entries.

eth bridge dynvlan delete

Delete a dynamic VLAN membership entry.

Syntax : delete id = <number{0-100000}>

Parameters :

id = <number{0-100000}>

eth bridge dynvlan flush

Flush all dynamic VLAN membership entries.

Syntax : flush

eth bridge dynvlan list

Display a dynamic VLAN membership entry.

Syntax : list

eth bridge filter

Following commands are available :

add : Add a filter.

list : Display the bridge filters.

delete : Delete a filter.

config : Change filter configuration

attach : Enable a filter.

detach : Disable a filter.

forwarding : Action: set forwarding configuration.

ifadd : Connect an interface with a filter.

ifdel : Remove an interface from a filter.

fw dintfadd : Add Forwarding interface: filter action.

fw dintfdel : Remove Forwarding interface: filter action.

eth bridge filter add

Add a filter.

Syntax : add bname = <{bridge}> name = <string> [filter = <{}>]

Parameters :

bname = <{bridge}>

The name of an bridge.

name = <string>

The name of the filter.

[filter = <{}>]

Ethernet filter to used

eth bridge filter attach

Enable a filter.

Syntax : attach bname = <{bridge}> name = <{}>

Parameters :

bname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

eth bridge filter config

Change filter configuration

Syntax : config brname = <{bridge}> name = <{ }> [filter = <{ }>]

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

[filter = <{ }>]

Ethernet filter to used

eth bridge filter delete

Delete a filter.

Syntax : delete brname = <{bridge}> name = <{ }>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

eth bridge filter detach

Disable a filter.

Syntax : detach brname = <{bridge}> name = <{ }>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

eth bridge filter forwarding

Action: set forwarding configuration.

Syntax : forwarding brname = <{bridge}> name = <{ }>

mode = <{ToFwdIntfsOnly|AlsoToFwdIntfs|NotToFwdIntfs|  
Drop}>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

mode = <{ToFwdIntfsOnly|AlsoToFwdIntfs|NotToFwdIntfs|Drop}>

The forwarding type to set.

eth bridge filter fwdintfadd

Add Forwarding interface: filter action.

Syntax : fwdintfadd brname = <{bridge}> name = <{ }>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|  
WLAN}>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to add.

eth bridge filter fwdintfdel

Remove Forwarding interface: filter action.

Syntax : fwdintfdel brname = <{bridge}> name = <{ }>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to remove.

eth bridge filter ifadd

Connect an interface with a filter.

Syntax : ifadd brname = <{bridge}> name = <{ }>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to add.

eth bridge filter ifdel

Remove an interface from a filter.

Syntax : ifdel brname = <{bridge}> name = <{ }>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

brname = <{bridge}>

The name of an bridge.

name = <{ }>

The name of the filter to configure.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to remove.

eth bridge filter list

Display the bridge filters.

Syntax : list brname = <{bridge}> [name = <{ }>]

[expand = <{disabled|enabled}>]

Parameters :

brname = <{bridge}>

The name of an bridge.

[name = <{ }>]

The name of an filter.

[expand = <{ disabled|enabled}>]

Expanded listing.

eth bridge flush

Flush all bridge instances with their interfaces and properties.

Syntax : flush [brname = <{ bridge}>]

Parameters :

[brname = <{ bridge}>]

The name of a bridge instance.

eth bridge group

Following commands are available :

add : Add a new bridge group.

move : Move a bridge interface to a specified bridge group.

eth bridge group add

Add a new bridge group.

Syntax : add [brname = <{ bridge}>] [name = <string>] id = <number{2-4094}>

Parameters :

[brname = <{ bridge}>]

The name of a bridge instance.

[name = <string>]

The new group name. If left blank, a default name will be used.

id = <number{2-4094}>

The bridge group id.

eth bridge group move

Move a bridge interface to a specified bridge group.

Syntax : move [brname = <{ bridge}>]

intf = <{ OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

name = <BC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}> >

Parameters :

[brname = <{ bridge}>]

The name of a bridge instance.

intf = <{ OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to move to the bridge group.

name = <BC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}> >

The name of the bridge group.

eth bridge ifadd

Add a new bridge interface.

Syntax : ifadd [brname = <{ bridge}>] intf = <string>

Parameters :

[brname = <{ bridge}>]

The name of a bridge instance.

intf = <string>

The new bridge interface name.

eth bridge ifattach

Attach a bridge interface.

Syntax : ifattach [brname = <{bridge}>] intf = <{}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{}>

The name of the bridge interface.

eth bridge ifconfig

Modify a bridge interface configuration.

Syntax : ifconfig [brname = <{bridge}>]

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

[dest = <{}>]

[portstate = <{disabled|learning|forwarding}>]

[retry = <number{0-65535}>]

[priotag = <{disabled|enabled}>] [vlan = <{default}>]

[prioconfig = <{disabled|overwrite|increase}>]

[ipprec = <{disabled|precedence|dscp}>]

[priority = <number{0-7}>] [regenprio = <string>]

[ingressfiltering = <{disabled|enabled}>]

[acceptvlanonly = <{disabled|enabled}>]

[mcastfilter = <{disabled|enabled}>]

[dynvlan = <{disabled|enabled}>]

[wan = <{disabled|enabled}>]

[igmpsnooping = <{disabled|enabled}>]

[priotransparent = <{disabled|enabled}>]

[bpdufiltering = <{disabled|enabled}>]

[xtratagging = <{none|c-vlan|s-vlan}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to configure.

[dest = <{}>]

The destination for this interface. Typically an ATM or a physical interface name.

[portstate = <{disabled|learning|forwarding}>]

The bridge portstate for this interface.

[retry = <number{0-65535}>]

The number of WAN connection setup retries before giving up.

[priotag = <{disabled|enabled}>]

Enable/Disable priority tagging.

[vlan = <{default}>]

The default VLAN.

[prioconfig = <{disabled|overwrite|increase}>]

The priority configuration for this interface.

[ipprec = <{disabled|precedence|dscp}>]

The IP precedence for this interface.

[priority = <number{0-7}>]

The default priority for untagged ingress packets.

[regenprio = <string>]

The priority regeneration table for tagged ingress packets.

[ingressfiltering = <{disabled|enabled}>]

Enable/disable discard of tagged ingress packets if the interface is not part of the VLAN.

[acceptvlanonly = <{disabled|enabled}>]

Enable/disable receipt of tagged ingress packets.

[mcastfilter = <{disabled|enabled}>]

Enable/disable discard of multicast packets for this interface.

[dynvlan = <{disabled|enabled}>]

Enable/disable dynamic VLAN membership checking for this interface.

[wan = <{disabled|enabled}>]

Enable/disable WAN for this interface.

[igmpsnooping = <{disabled|enabled}>]

Enable/disable IGMP snooping for this interface.

[priortransparent = <{disabled|enabled}>]

Enable/disable priority preservation for this interface.

[bpdufiltering = <{disabled|enabled}>]

Enable/disable BPDU filtering for this interface.

[xtratagging = <{none|c-vlan|s-vlan}>]

The 'extra tagging mode' for this interface (none, c-vlan or s-vlan).

eth bridge ifdelete

Delete a bridge interface.

Syntax : ifdelete [brname = <{bridge}>]

intf = <{ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface.

eth bridge ifdetach

Detach a bridge interface.

Syntax : ifdetach [brname = <{bridge}>]

intf = <{ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface.

eth bridge ifflush

flush the bridge interfaces: detach/delete all interfaces.

Syntax : ifflush [brname = <{bridge}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

eth bridge iflist

Display the current bridge interfaces.

Syntax : iflist [brname = <{bridge}>]

[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]

The name of a bridge interface.

eth bridge igmpsnooping

Following commands are available :

config : Configure bridge instance IGMP Snooping flags.  
list : Display bridge instance snooped groups.  
ifconfig : Configure bridge interface IGMP snooping flags and mode.  
iflist : Display bridge interface IGMP status.  
clear : Clear snooping statistics.

eth bridge igmpsnooping clear

Clear snooping statistics.

Syntax : clear [brname = <{bridge}>]

[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]

The bridge interface currently to be cleared.

eth bridge igmpsnooping config

Configure bridge instance IGMP Snooping flags.

Syntax : config [brname = <{bridge}>] [state = <{disabled|enabled}>]

[floodrp = <{disabled|enabled}>]

[floodmcast = <{disabled|enabled}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

[state = <{disabled|enabled}>]

Enable/Disable the IGMP Snooping.

[floodrp = <{disabled|enabled}>]

Enable/Disable flooding reports to all ports.

[floodmcast = <{disabled|enabled}>]

Enable/Disable flooding unregistered multicasts.

eth bridge igmpsnooping ifconfig

Configure bridge interface IGMP snooping flags and mode.

Syntax : ifconfig [brname = <{bridge}>]

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

[portmode = <{Host|Router|Auto}>]

[fastleave = <{disabled|enabled}>]

[extrack = <{disabled|enabled}>]

[mr dp = <{disabled|enabled}>] [rgmp = <{disabled|enabled}>]

Parameters :

[brname = <{bridge}>]

The bridge instance currently to be configured.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The bridge interface currently to be configured.

[portmode = <{Host|Router|Auto}>]

Mode of the bridge port.



[fastleave = <{disabled|enabled}>]  
Enable/Disable Fast Immediate Leave.  
[exptrack = <{disabled|enabled}>]  
Enable/Disable Explicit Host Tracking.  
[mrdp = <{disabled|enabled}>]  
Enable/Disable MRDP support.  
[rgmp = <{disabled|enabled}>]  
Enable/Disable RGMP support.

eth bridge igmpsnooping iflist  
Display bridge interface IGMP status.  
Syntax : iflist [brname = <{bridge}>]  
[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]

Parameters :

[brname = <{bridge}>  
The name of a bridge instance.  
[intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>]  
The name of the bridge interface.

eth bridge igmpsnooping list  
Display bridge instance snooped groups.  
Syntax : list [brname = <{bridge}>]

Parameters :

[brname = <{bridge}>  
The name of a bridge instance.

eth bridge list  
Display the current bridge instances.  
Syntax : list [brname = <{bridge}>]

Parameters :

[brname = <{bridge}>  
The name of a bridge instance.

eth bridge macadd  
Add a static MAC address to a bridge interface.  
Syntax : macadd [brname = <{bridge}>]  
intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
hwaddr = <hardware-address> [vlan = <{default}>]

Parameters :

[brname = <{bridge}>  
The name of a bridge instance.  
intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
The name of the bridge interface.  
hwaddr = <hardware-address>  
The ethernet MAC address of the new entry.  
[vlan = <{default}>]  
The VLAN.

eth bridge macdelete  
Remove a MAC address from the database.  
Syntax : macdelete [brname = <{bridge}>] hwaddr = <hardware-address>

[vlan = <{default}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

hwaddr = <hardware-address>

The ethernet MAC address of the entry.

[vlan = <{default}>]

The VLAN.

eth bridge maclist

Display the MAC address database.

Syntax : maclist [brname = <{bridge}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

eth bridge rule

Following commands are available :

- add : Add a new constraint to the VLAN learning system.
- delete : Delete a constraint from the VLAN learning system.
- list : Display all constraints from the VLAN learning system.
- flush : Flush all constraints from the VLAN learning system.

eth bridge rule add

Add a new constraint to the VLAN learning system.

Syntax : add type = <{shared|independant}> vlan = <{default}>

[vlan2 = <{default}>] [isi = <number{0-32}>]

Parameters :

type = <{shared|independant}>

Type of constraint.

vlan = <{default}>

The VLAN where the constraint belongs to.

[vlan2 = <{default}>]

The second VLAN for a shared constraint.

[isi = <number{0-32}>]

The independent set id for an independent constraint.

eth bridge rule delete

Delete a constraint from the VLAN learning system.

Syntax : delete index = <number{0-32}>

Parameters :

index = <number{0-32}>

Index of the constraint.

eth bridge rule flush

Flush all constraints from the VLAN learning system.

Syntax : flush

eth bridge rule list

Display all constraints from the VLAN learning system.

Syntax : list

eth bridge select

Select the default bridge for configuring interfaces from (if not setting

bridge name, for legacy purposes).

Syntax : select brname = <{bridge}>

Parameters :

brname = <{bridge}>

The name of a bridge instance.

eth bridge unknownvlan

Following commands are available :

ifadd : Add bridge interface to unknown 'VLAN'.

ifdelete : Delete bridge interface from unknown 'VLAN'.

ifconfig : Modify bridge interface from unknown 'VLAN'.

iflist : Display all interfaces of the unknown 'VLAN'.

eth bridge unknownvlan ifadd

Add bridge interface to unknown 'VLAN'.

Syntax : ifadd [brname = <{bridge}>]

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

[untagged = <{disabled|enabled}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to add to the unknown 'VLAN'.

[untagged = <{disabled|enabled}>]

Enable/disable interface as untagged for this unknown 'VLAN'.

eth bridge unknownvlan ifconfig

Modify bridge interface from unknown 'VLAN'.

Syntax : ifconfig [brname = <{bridge}>]

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

[untagged = <{disabled|enabled}>]

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The bridge interface from the unknown 'VLAN' to configure.

[untagged = <{disabled|enabled}>]

Enable/disable interface as untagged for this unknown 'VLAN'.

eth bridge unknownvlan ifdelete

Delete bridge interface from unknown 'VLAN'.

Syntax : ifdelete [brname = <{bridge}>]

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to remove from the unknown 'VLAN'.

eth bridge unknownvlan iflist  
Display all interfaces of the unknown 'VLAN'.

Syntax : iflist

eth bridge vlan

Following commands are available :

ifadd : Add bridge interface to virtual LAN.  
ifdelete : Delete bridge interface from virtual LAN.  
ifconfig : Modify bridge interface from virtual LAN.  
iflist : Display all virtual LAN's.

eth bridge vlan ifadd

Add bridge interface to virtual LAN.

Syntax : ifadd name = <{default}>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
[untagged = <{disabled|enabled}>]

Parameters :

name = <{default}>

The VLAN name.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to add to the VLAN.

[untagged = <{disabled|enabled}>]

Enable/disable interface as untagged for this VLAN.

eth bridge vlan ifconfig

Modify bridge interface from virtual LAN.

Syntax : ifconfig name = <{default}>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

untagged = <{disabled|enabled}>

Parameters :

name = <{default}>

The VLAN name.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The bridge interface from the VLAN to configure.

untagged = <{disabled|enabled}>

Enable/disable interface as untagged for this VLAN.

eth bridge vlan ifdelete

Delete bridge interface from virtual LAN.

Syntax : ifdelete name = <{default}>

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

Parameters :

name = <{default}>

The VLAN name.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface to remove from the VLAN.

eth bridge vlan iflist

Display all virtual LAN's.

Syntax : iflist

eth bridge xtrntag

Following commands are available :

add : Add an extra tag mapping entry.  
delete : Delete an extra tag mapping entry.  
config : Configure an extra tag mapping entry.  
list : Display all extra tag mapping entries.  
flush : Flush all extra tag mapping entries.

eth bridge xtratag add

Add an extra tag mapping entry.

Syntax : add [brname = <{bridge}>]  
intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
innervid = <{[1-4094]|all}>  
outervid = <{[1-4094]|notag|transparent}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface.

innervid = <{[1-4094]|all}>

The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).

outervid = <{[1-4094]|notag|transparent}>

The outer VLAN id [notag,1-4094,transparent] (notag: outer not tagged, transparent: tagged as inner).

eth bridge xtratag config

Configure an extra tag mapping entry.

Syntax : config [brname = <{bridge}>]  
intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
innervid = <{[1-4094]|all}>  
outervid = <{[1-4094]|notag|transparent}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface.

innervid = <{[1-4094]|all}>

The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).

outervid = <{[1-4094]|notag|transparent}>

The outer VLAN id [notag,1-4094,transparent] (notag: outer not tagged, transparent: tagged as inner).

eth bridge xtratag delete

Delete an extra tag mapping entry.

Syntax : delete [brname = <{bridge}>]  
intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>  
innervid = <{[1-4094]|all}>

Parameters :

[brname = <{bridge}>]

The name of a bridge instance.

intf = <{OBC|ethport1|ethport2|ethport3|ethport4|virt|WLAN}>

The name of the bridge interface.

innervid = <{[1-4094]|all}>

The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).

eth bridge xtratag flush

Flush all extra tag mapping entries.

Syntax : flush

eth bridge xtratag list

Display all extra tag mapping entries.

Syntax : list

eth device

Following commands are available :

ifconfig : Configure ethernet interface.

iflist : Show status of ethernet interfaces.

eth device ifconfig

Configure ethernet interface.

Syntax : ifconfig intf = <{ethif1|ethif2|ethif3|ethif4|ethif5|wlif1|ethif6}>

[type = <{auto|10BaseTHD|10BaseTFD|100BaseTHD|100BaseTFD} or number>]

[state = <{enabled|disabled}>]

Parameters :

intf = <{ethif1|ethif2|ethif3|ethif4|ethif5|wlif1|ethif6}>

The name of a physical interface.

[type = <{auto|10BaseTHD|10BaseTFD|100BaseTHD|100BaseTFD} or number>]

The ethernet type.

[state = <{enabled|disabled}>]

The interface state.

eth device iflist

Show status of ethernet interfaces.

Syntax : iflist

eth filter

Following command groups are available :

operand template

eth filter operand

Following commands are available :

add : Add a filter operand.

config : Set the operand to a certain type (will reset content first).

delete : Delete a filter operand.

reset : Reset an operand to its default initial state (removes all content, set to undefined type).

list : Display the filter operands.

vidadd : Add another VID in the set.

viddelete : Delete a VID from the set.

frameclassadd : Add another frameclass in the set.

frameclassdelete : Delete a frameclass from the set.

ipprotoadd : Add another ip protocol in the set.

ipprotodelete : Delete a ip protocol from the set.

priorityadd : Add another priority in the set.

prioritydelete : Delete a ip priority from the set.

flush : Remove all filter operands (this will only delete the ones not in use: flush filters first).

eth filter operand add

Add a filter operand.

Syntax : add operand = <string>

Parameters :

operand = <string>

The name of the new operand operand.

eth filter operand config

Set the operand to a certain type (will reset content first).

Syntax : config operand = <{ }>

type = <{ CheckDACLClass|CheckFrameClass|CheckVLANPriority|  
CheckVID|CheckIPProto|CheckSize|Match|Modify|  
CheckChecksum|UpdateChecksum }>

operator = <{ Equal|Less|LessEqual|InSet }>

protocollevel = <{ EthernetFrame|Protocol|EthernetPayload|  
ULPHeader|ULPPayload }>

length = <number> mask = <string> value = <string>

daiclass = <{ Unicast|Multicast|Broadcast }>

[frameclass = <{ Eth2|SNAPEType|SNAP8021H|SNAPOther|LLCNLPID|  
LLCOther }>]

[ipprotocol = <number{0-254}>]

action = <{ Delete|Insert|Modify }> offset = <number>

[priority = <number{0-7}>] size = <number>

[vid = <number{1-4095}>] protocol = <{ IP|UpperLayer }>

Parameters :

operand = <{ }>

The name of an operand.

type = <{ CheckDACLClass|CheckFrameClass|CheckVLANPriority|CheckVID|  
CheckIPProto|CheckSize|Match|Modify|CheckChecksum|UpdateChecksum }>

The type to set.

operator = <{ Equal|Less|LessEqual|InSet }>

The compare operator.

protocollevel = <{ EthernetFrame|Protocol|EthernetPayload|ULPHeader|  
ULPPayload }>

The protocol level from where to start offset/size calculations.

length = <number>

The length of the compare value/mask combination in bytes..

mask = <string>

The mask to be used on the value.

value = <string>

The value.

daiclass = <{ Unicast|Multicast|Broadcast }>

The destination address class.

[frameclass = <{ Eth2|SNAPEType|SNAP8021H|SNAPOther|LLCNLPID|LLCOther }>]

The Ethernet frame class to filter on.

[ipprotocol = <number{0-254}>]

The IP protocol to filter on.

action = <{ Delete|Insert|Modify }>

The action to undertake with matching filter..

offset = <number>

At which offset from protocol level in bytes the Match/Modify action should start (in bytes).

[priority = <number{0-7}>]

The VLAN priority to filter on.

size = <number>

The size of the frame at this protocol level.

[vid = <number{1-4095}>]

The VID to filter on.

protocol = <{IP|UpperLayer}>

The protocol level of the checksum.

eth filter operand delete

Delete a filter operand.

Syntax : delete operand = <{ }>

Parameters :

operand = <{ }>

The name of the operand to delete.

eth filter operand flush

Remove all filter operands (this will only delete the ones not in use: flush filters first).

Syntax : flush

eth filter operand frameclassadd

Add another frameclass in the set.

Syntax : frameclassadd operand = <{ }>

frameclass = <{Eth2|SNAPEType|SNAP8021H|SNAPOther|  
LLCNLPID|LLCOther}>

Parameters :

operand = <{ }>

The name of an operand.

frameclass = <{Eth2|SNAPEType|SNAP8021H|SNAPOther|LLCNLPID|LLCOther}>

The frame class to add.

eth filter operand frameclassdelete

Delete a frameclass from the set.

Syntax : frameclassdelete operand = <{ }>

frameclass = <{Eth2|SNAPEType|SNAP8021H|SNAPOther|  
LLCNLPID|LLCOther}>

Parameters :

operand = <{ }>

The name of an operand.

frameclass = <{Eth2|SNAPEType|SNAP8021H|SNAPOther|LLCNLPID|LLCOther}>

The frameclass to remove.

eth filter operand ipprotoadd

Add another ip protocol in the set.

Syntax : ipprotoadd operand = <{ }> ipprotocol = <number{0-255}>

Parameters :

operand = <{ }>

The name of an operand.

ipprotocol = <number{0-255}>

The IP protocol to add.



eth filter operand ipprotodelete

Delete a ip protocol from the set.

Syntax : ipprotodelete operand = <{ }> ipprotocol = <{ }>

Parameters :

operand = <{ }>

The name of an operand.

ipprotocol = <{ }>

The IP protocol to remove.

eth filter operand list

Display the filter operands.

Syntax : list [operand = <{ }>] [expand = <{ disabled|enabled }>]

Parameters :

[operand = <{ }>]

The name of an operand.

[expand = <{ disabled|enabled }>]

Expanded listing.

eth filter operand priorityadd

Add another priority in the set.

Syntax : priorityadd operand = <{ }> priority = <number{0-7}>

Parameters :

operand = <{ }>

The name of an operand.

priority = <number{0-7}>

The vlan priority to add.

eth filter operand prioritydelete

Delete a ip priority from the set.

Syntax : prioritydelete operand = <{ }> priority = <{ }>

Parameters :

operand = <{ }>

The name of an operand.

priority = <{ }>

The vlan priority to remove.

eth filter operand reset

Reset an operand to its default initial state (removes all content, set to undefined type).

Syntax : reset operand = <{ }>

Parameters :

operand = <{ }>

The name of an operand.

eth filter operand vidadd

Add another VID in the set.

Syntax : vidadd operand = <{ }> vid = <number{1-4095}>

Parameters :

operand = <{ }>

The name of an operand.

vid = <number{1-4095}>

The VID to add.

eth filter operand vdelete

Delete a VID from the set.

Syntax : vdelete operand = <{ }> vid = <{ }>

Parameters :

operand = <{ }>

The name of an operand.

vid = <{ }>

The VID to remove.

eth filter template

Following commands are available :

add : Add a filter.  
list : Display the filters.  
delete : Delete a filter.  
config : Config a filter.  
setvid : Action: enable/disable VID derivation  
setpriority : Action: enable/disable priority derivation  
ruleadd : Connect an operand rule with a filter.  
rulemodify : Modify an operand rule from a filter.  
ruledel : Remove an operand rule from a filter.  
flush : Remove all filters.

eth filter template add

Add a filter.

Syntax : add filter = <string> [location = <{Ingress|Egress|VID|Priority}>]  
[level = <number{0-65535}>] [tracing = <{disabled|enabled}>]  
[mark = <{disabled|enabled}>]

Parameters :

filter = <string>

The name of the filter.

[location = <{Ingress|Egress|VID|Priority}>]

The filter location.

[level = <number{0-65535}>]

The filter level (lower level is processed first = priority)

[tracing = <{disabled|enabled}>]

Enable/disable tracing of packets

[mark = <{disabled|enabled}>]

Enable/disable marking of packets

eth filter template config

Config a filter.

Syntax : config filter = <{ }> [location = <{Ingress|Egress|VID|Priority}>]  
[level = <number{0-65535}>] [tracing = <{disabled|enabled}>]  
[mark = <{disabled|enabled}>]

Parameters :

filter = <{ }>

The name of an filter.

[location = <{Ingress|Egress|VID|Priority}>]

The filter location.

[level = <number{0-65535}>]

The filter level (lower level is processed first = priority)

[tracing = <{disabled|enabled}>]  
Enable/disabled tracing of packets  
[mark = <{disabled|enabled}>]  
Enable/disabled marking of packets

eth filter template delete  
Delete a filter.  
Syntax : delete filter = <{ }>

Parameters :  
filter = <{ }>  
The name of an filter.

eth filter template flush  
Remove all filters.  
Syntax : flush  
eth filter template list  
Display the filters.  
Syntax : list [filter = <{ }>] [expand = <{disabled|enabled}>]

Parameters :  
[filter = <{ }>]  
The name of an filter.  
[expand = <{disabled|enabled}>]  
Expanded listing.

eth filter template ruleadd  
Connect an operand rule with a filter.  
Syntax : ruleadd filter = <{ }> operand = <{ }> [negate = <{disabled|enabled}>]  
[order = <number{-100-100}>] [operator = <{Ignore|AND|OR}>]

Parameters :  
filter = <{ }>  
The name of an filter.  
operand = <{ }>  
The name of the operand to connect with.  
[negate = <{disabled|enabled}>]  
negate or not the operand outcome.  
[order = <number{-100-100}>]  
The operand order in this filter (lower order is processed first =  
priority)  
[operator = <{Ignore|AND|OR}>]  
Operand operator.

eth filter template ruledel  
Remove an operand rule from a filter.  
Syntax : ruledel filter = <{ }> ruleid = <{ }>

Parameters :  
filter = <{ }>  
The name of an filter.  
ruleid = <{ }>  
The name of the operand to remove.

eth filter template rulemodify  
Modify an operand rule from a filter.  
Syntax : rulemodify filter = <{ }> ruleid = <{ }> [operand = <{ }>]

[negate = <{disabled|enabled}>]  
[order = <number{-100-100}>]  
[operator = <{Ignore|AND|OR}>]

Parameters :

filter = <{ }>

The name of an filter.

ruleid = <{ }>

The name of the operand to remove.

[operand = <{ }>]

The name of the operand to connect with.

[negate = <{disabled|enabled}>]

negate or not the operand outcome.

[order = <number{-100-100}>]

The operand order in this filter (lower order is processed first = priority)

[operator = <{Ignore|AND|OR}>]

Operand operator.

eth filter template setpriority

Action: enable/disable priority derivation

Syntax : setpriority filter = <{ }> [state = <{disabled|enabled}>]

priority = <number{0-15}>

Parameters :

filter = <{ }>

The name of an filter.

[state = <{disabled|enabled}>]

Enable/disable priority derivation for this filters

priority = <number{0-15}>

The priority to set in the derivation.

eth filter template setvid

Action: enable/disable VID derivation

Syntax : setvid filter = <{ }> [state = <{disabled|enabled}>]

vid = <number{1-4095}>

Parameters :

filter = <{ }>

The name of an filter.

[state = <{disabled|enabled}>]

Enable/disable VID derivation for this filters

vid = <number{1-4095}>

The VID to set in the derivation.

eth flush

Flush all ETH interfaces.

Syntax : flush

eth ifadd

Create a new ETH interface.

Syntax : ifadd intf = <string>

Parameters :

intf = <string>

The name for the new ETH interface.

eth ifattach

Attach an ETH interface.

Syntax : ifattach intf = <{ }>

Parameters :

intf = <{ }>

The name of the ETH interface.

eth ifconfig

Modify an ETH interface.

Syntax : ifconfig intf = <{eth\_wan}> [dest = <{bridge|eth\_wan}>]  
[retry = <number{0-65535}>] [wan = <{disabled|enabled}>]  
[priotag = <{disabled|enabled}>] [vlan = <{default}>]

Parameters :

intf = <{eth\_wan}>

The name of the ETH interface to configure.

[dest = <{bridge|eth\_wan}>]

The destination interface for this ETH interface.

[retry = <number{0-65535}>]

The number of times the ETH connection setup should retry before giving up.

[wan = <{disabled|enabled}>]

Enable/Disable WAN for this ETH interface.

[priotag = <{disabled|enabled}>]

Enable/Disable VLAN priority tagging.

[vlan = <{default}>]

The VLAN for this ETH interface.

eth ifdelete

Delete an ETH interface.

Syntax : ifdelete intf = <{ }>

Parameters :

intf = <{ }>

The name of the ETH interface.

eth ifdetach

Detach an ETH interface.

Syntax : ifdetach intf = <{ }>

Parameters :

intf = <{ }>

The name of the ETH interface.

eth iflist

Display the ETH interfaces.

Syntax : iflist [intf = <{eth\_wan}>]

Parameters :

[intf = <{eth\_wan}>]

The name of an ETH interface.

eth switch

Following commands are available :

info : Display switch capabilities

Following command groups are available :

group        mirror        qos        shaper        share  
storm

eth switch group

Following commands are available :

list        : List all configured groups.  
move        : Move a specified port to a specified group.  
flush        : To set all ports to the default settings (all ports in  
              group 0).

eth switch group flush

To set all ports to the default settings (all ports in group 0).

Syntax : flush

eth switch group list

List all configured groups.

Syntax : list

eth switch group move

Move a specified port to a specified group.

Syntax : move group = <number{0-3}> port = <number{1-4}>

Parameters :

group = <number{0-3}>

The group id.

port = <number{1-4}>

The port.

eth switch info

Display switch capabilities

Syntax : info

eth switch mirror

Following commands are available :

capture        : Define the specified port to be the Mirror Capture Port.  
ingress        : Enable or disable the specified port to be a Received Port  
              Mirroring.  
egress        : Enable or disable the specified port to be a Transmitted  
              Port Mirroring.

eth switch mirror capture

Define the specified port to be the Mirror Capture Port.

Syntax : capture port = <number{1-4}>

Parameters :

port = <number{1-4}>

The port.

eth switch mirror egress

Enable or disable the specified port to be a Transmitted Port Mirroring.

Syntax : egress port = <number{1-4}> [state = <{enabled|disabled}>]

Parameters :

port = <number{1-4}>

The port.

[state = <{enabled|disabled}>]

Enable/disable state.

eth switch mirror ingress

Enable or disable the specified port to be a Received Port Mirroring.

Syntax : ingress port = <number{ 1-4}> [state = <{enabled|disabled}>]

Parameters :

port = <number{ 1-4}>

The port.

[state = <{enabled|disabled}>]

Enable/disable state.

eth switch qos

Following commands are available :

config : Configure common qos parameters.

weights : Configure the queue weights.

ifconfig : Configure per port qos parameters.

list : Display qos configuration.

eth switch qos config

Configure common qos parameters.

Syntax : config state = <{enabled|disabled}> [nbrOfQueues = <number{0-4}>]  
[realtime = <{enabled|disabled}>]

Parameters :

state = <{enabled|disabled}>

Enable/disable QoS.

[nbrOfQueues = <number{0-4}>]

Number of queues.

[realtime = <{enabled|disabled}>]

Enable/disable realtime.

eth switch qos ifconfig

Configure per port qos parameters.

Syntax : ifconfig port = <number{ 1-4}> mode = <{none|802.1p|high|diffserv}>  
[flowcontrol = <{disabled|enabled}>]

Parameters :

port = <number{ 1-4}>

The port.

mode = <{none|802.1p|high|diffserv}>

Classifier.

[flowcontrol = <{disabled|enabled}>]

Enable/disable flow-control.

eth switch qos list

Display qos configuration.

Syntax : list

eth switch qos weights

Configure the queue weights.

Syntax : weights queue0 = <number{0-100}> queue1 = <number{0-100}>  
queue2 = <number{0-100}> queue3 = <number{0-100}>

Parameters :

queue0 = <number{0-100}>

Weight of queue 0 in WFQ (in %).

queue1 = <number{0-100}>  
Weight of queue 1 in WFQ (in %).  
queue2 = <number{0-100}>  
Weight of queue 2 in WFQ (in %).  
queue3 = <number{0-100}>  
Weight of queue 3 in WFQ (in %).

#### eth switch shaper

Following commands are available :

config : Configure common ingress shaper parameters.  
ifconfig : Configure per port shaper parameters.  
iflist : Display shaper configuration per port.

#### eth switch shaper config

Configure common ingress shaper parameters.

Syntax : config shaper = <number{0--1}> [unicast = <{enabled|disabled}>]  
[multicast = <{enabled|disabled}>]  
[broadcast = <{enabled|disabled}>]  
[control = <{enabled|disabled}>]  
[unknown = <{enabled|disabled}>]  
[discard = <{enabled|disabled}>]

Parameters :

shaper = <number{0--1}>  
The shaper instance.  
[unicast = <{enabled|disabled}>]  
Shape unicast traffic.  
[multicast = <{enabled|disabled}>]  
Shape multicast traffic.  
[broadcast = <{enabled|disabled}>]  
Shape broadcast traffic.  
[control = <{enabled|disabled}>]  
Shape MAC control traffic.  
[unknown = <{enabled|disabled}>]  
Shape traffic with unknown destination address.  
[discard = <{enabled|disabled}>]  
Discard frame at overflow (else attempt for flow control).

#### eth switch shaper ifconfig

Configure per port shaper parameters.

Syntax : ifconfig port = <number{1-4}> ingress = <{enabled|disabled}>  
shaper = <number{0--1}> [state = <{enabled|disabled}>]  
[speed = <number{64000-100000000}>] [burstsize = <{ }>]

Parameters :

port = <number{1-4}>  
The port.  
ingress = <{enabled|disabled}>  
Ingress port = enabled; egress port = disabled.  
shaper = <number{0--1}>  
The shaper instance.  
[state = <{enabled|disabled}>]  
Enable/disable shaping.  
[speed = <number{64000-100000000}>]  
Speed in bits/sec.  
[burstsize = <{ }>]



Burst size in KBytes.

eth switch shaper iflist

Display shaper configuration per port.

Syntax : iflist

eth switch share

Following commands are available :

add : Add a port to be shared.

delete : Delete a shared port.

list : Display shared ports.

eth switch share add

Add a port to be shared.

Syntax : add port = <number{1-4}> shared = <number{1-4}>

Parameters :

port = <number{1-4}>

The port.

shared = <number{1-4}>

The shared port.

eth switch share delete

Delete a shared port.

Syntax : delete port = <number{1-4}> shared = <number{1-4}>

Parameters :

port = <number{1-4}>

The port.

shared = <number{1-4}>

The shared port.

eth switch share list

Display shared ports.

Syntax : list

eth switch storm

Following commands are available :

ifconfig : Configure per port storm control parameters.

iflist : Display storm control configuration per port.

eth switch storm ifconfig

Configure per port storm control parameters.

Syntax : ifconfig port = <number{1-4}> [state = <{enabled|disabled}>]

[rate = <{100|200|300|400}>] [burstsize = <number{2-8}>]

[broadcast = <{enabled|disabled}>]

[multicast = <{enabled|disabled}>]

[unknown = <{enabled|disabled}>]

Parameters :

port = <number{1-4}>

The port.

[state = <{enabled|disabled}>]

Enable/disable storm control.

[rate = <{100|200|300|400}>]

Rate in 10ths of percent.

[burstsize = <number{2-8}>]

Burst size in KBytes.

[broadcast = <{enabled|disabled}>]

Storm control for broadcast traffic.

[multicast = <{enabled|disabled}>]

Storm control for multicast traffic.

[unknown = <{enabled|disabled}>]

Storm control for traffic with unknown destination address.

eth switch storm iflist

Display storm control configuration per port.

Syntax : iflist

eth vlan

Following commands are available :

add : Add a new virtual LAN.

delete : Delete a virtual LAN.

list : Display all virtual LAN's.

flush : Flush all virtual LAN's.

Following command groups are available :

priomap

eth vlan add

Add a new virtual LAN.

Syntax : add name = <string> vid = <number{2-4094}>

[addrule = <{disabled|enabled}>]

Parameters :

name = <string>

The new VLAN name.

vid = <number{2-4094}>

The new VLAN id.

[addrule = <{disabled|enabled}>]

Add the default bridge constraint.

eth vlan delete

Delete a virtual LAN.

Syntax : delete name = <{default}>

Parameters :

name = <{default}>

The VLAN name.

eth vlan flush

Flush all virtual LAN's.

Syntax : flush

eth vlan list

Display all virtual LAN's.

Syntax : list

eth vlan priomap

Following commands are available :

config : Change a VLAN/DE to/from VBUF priority mapping.

list : Display the VLAN/DE to/from VBUF priority mappings.

eth vlan priomap config

Change a VLAN/DE to/from VBUF priority mapping.

Syntax : config entry = <{prio\_0\_7\_2vlan|prio\_8\_15\_2vlan|prio\_0\_7\_2de|prio\_8\_15\_2de|vlan2prio\_de\_0|vlan2prio\_de\_1}>  
priomap = <string>

Parameters :

entry = <{prio\_0\_7\_2vlan|prio\_8\_15\_2vlan|prio\_0\_7\_2de|prio\_8\_15\_2de|vlan2prio\_de\_0|vlan2prio\_de\_1}>

Which prioritymap entry to edit.

priomap = <string>

The 8 priority mapping values.

eth vlan priomap list

Display the VLAN/DE to/from VBUF priority mappings.

Syntax : list

expr

Following commands are available :

add : Add an expression.  
delete : Delete an expression.  
modify : Modify an expression.  
list : List expressions.  
flush : Flush all expressions.

expr add

Add an expression.

Syntax : add name = <{wan|local|lan|tunnel|dmz|guest|private|ssdp\_ip|mdap\_ip|icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP}>

[type = <{intf|ip|serv|mac}>] mac [!]= <hardware-address>

addr [!]= <ip-range> [mask [ <ip-mask(dotted or cidr)>]

[intf [!]= <{loop|LocalNetwork|Internet}>]

[intfgroup [!]= <{wan|local|lan|tunnel|dmz|guest} or number>]

[tos [!]= <number{0-255}>]

[precedence [!]= <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|internetwork-control|network-control} or number>]

[dscp [!]= <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

[proto [!]= <{icmp|igmp|ipinip|tcp|udp|ah|esp|ipcomp} or number>]

[srcport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|systat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

```

[srcportend = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|dns|
domain|doom|echo|exec|finger|ftp|ftp-data|gopher|
h323|httpproxy|ike|ils|imap2|imap3|ingres-net|
ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtp|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[dstport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|dns|
domain|doom|echo|exec|finger|ftp|ftp-data|gopher|
h323|httpproxy|ike|ils|imap2|imap3|ingres-net|
ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtp|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[dstportend = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|dns|
domain|doom|echo|exec|finger|ftp|ftp-data|gopher|
h323|httpproxy|ike|ils|imap2|imap3|ingres-net|
ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtp|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[icmptype [!]= <{echo-reply|destination-unreachable|source-quench|
redirect|echo-request|router-advertisement|router-
solicitation|time-exceeded|parameter-problems|
timestamp-request|timestamp-reply|information-
request|information-reply|address-mask-request|
address-mask-reply } or number>]
[icmrcode [!]= <number{0-15}>] [icmrcodeend = <number{0-15}>]

```

#### Parameters :

```

name = <{wan|local|lan|tunnel|dmz|guest|private|ssdp_ip|mdap_ip|icmpl|igmp|
ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|
imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|
sip|h323|dhcp|rtsp|ssdp_serv|mdap_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-
Inc-SIP-TCP|VoIP-Inc-RTP}>

```

The name of an expression to add.

```
[type = <{intf|ip|serv|mac}>]
```

The type of an expression.

```
mac [!]= <hardware-address>
```

The MAC address.

```
addr [!]= <ip-range>
```

The IP address or range.

[mask [ <ip-mask(dotted or cidr)>]

The IP mask (ignored if an IP range is provided).

[intf [!]= <{loop|LocalNetwork|Internet}>]

The IP interface name.

[intfgroup [!]= <{wan|local|lan|tunnel|dmz|guest} or number>]

The IP interface group.

[tos [!]= <number{0-255}>]

The Type Of Service specification in the IP packet.

[precedence [!]= <{routine|priority|immediate|flash|flash-override|CRITICAL|internetwork-control|network-control} or number>]

The precedence in the IP packet (part of tos).

[dscp [!]= <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

The diffserv code point in the IP packet (part of tos).

[proto [!]= <{icmp|igmp|ipinip|tcp|udp|ah|esp|ipcomp} or number>]

The IP protocol (name or number) in the IP packet.

[srcport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

The TCP/UDP source port number or range begin.

[srcportend = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

The source TCP/UDP source port range end. (inclusive)

[dstport [!]= <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

The TCP/UDP destination port number or range begin.

[dstportend = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|

time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows } or number>]

The TCP/UDP destination port range end.

[icmptype [!]= <{echo-reply|destination-unreachable|source-quench|redirect|  
echo-request|router-advertisement|router-solicitation|time-  
exceeded|parameter-problems|timestamp-request|timestamp-  
reply|information-request|information-reply|address-mask-  
request|address-mask-reply } or number>]

The ICMP type (name or number) of the packet.

[icmpcode [!]= <number{0-15}>]

The ICMP code or range begin.

[icmpcodeend = <number{0-15}>]

The ICMP code range end. (inclusive)

expr delete

Delete an expression.

Syntax : delete name = <{ wan|local|lan|tunnel|dmz|guest|private|ssdp\_ip|  
mdap\_ip|icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|  
NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|  
ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|  
rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-  
Inc-SIP-TCP|VoIP-Inc-RTP }>  
[index = <number>]

Parameters :

name = <{ wan|local|lan|tunnel|dmz|guest|private|ssdp\_ip|mdap\_ip|icmp|igmp|  
ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|  
imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|  
sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-  
Inc-SIP-TCP|VoIP-Inc-RTP }>

The name of an expression to delete.

[index = <number>]

The index of a subexpression.

expr flush

Flush all expressions.

Syntax : flush

expr list

List expressions.

Syntax : list [name = <{ \_intf\_0|\_intf\_1|\_intf\_2|DHCP-R\_if\_0|wan|local|lan|  
tunnel|dmz|guest|DNS-S\_if\_0|MDAP\_if\_0|SSDP\_if\_0|  
PPTPD\_if\_0|PPTPGRE\_if\_0|HTTP\_if\_0|HTTPs\_if\_0|FTP\_if\_0|  
TELNET\_if\_0|DHCP-S\_if\_0|PING\_RESPONDER\_if\_0|  
SRCIF\_IP\_Intf\_Internet|\_addr\_127\_0\_0\_1|\_addr\_10\_0\_0\_138|  
\_addr\_192\_168\_1\_254|private|ssdp\_ip|mdap\_ip|  
\_addr\_81\_105\_145\_241|map\_6\_443-443:C0A801C8|map\_6\_25-  
25:C0A801C8|map\_17\_25-25:C0A801C8|map\_6\_9090-  
9090:C0A801C8|map\_6\_4040-4040:C0A801C8|  
DSTIP\_192\_168\_1\_70|DSTIP\_192\_168\_1\_68|DSTIP\_192\_168\_1\_74|  
DSTIP\_192\_168\_1\_77|DSTIP\_192\_168\_1\_73|DSTIP\_192\_168\_1\_79|  
DSTIP\_192\_168\_1\_66|DSTIP\_192\_168\_1\_75|DSTIP\_192\_168\_1\_65|  
DHCP-R\_sv\_0|icmp|igmp|ftp|telnet|http|httpproxy|https|  
RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|  
smtp|ssh|dns|nntp|ipsec|esp|ah|ike }>] [format = <{ pretty|cli }>]

Parameters :

```
[name = <{_intf_0|_intf_1|_intf_2|DHCP-R_if_0|wan|local|lan|tunnel|dmz|
  guest|DNS-S_if_0|MDAP_if_0|SSDP_if_0|PPTPD_if_0|PPTPGRE_if_0|
  HTTP_if_0|HTTPs_if_0|FTP_if_0|TELNET_if_0|DHCP-S_if_0|
  PING_RESPONDER_if_0|SRCIF_IP_Intf_Internet|_addr_127_0_0_1|
  _addr_10_0_0_138|_addr_192_168_1_254|private|ssdp_ip|mdap_ip|
  _addr_81_105_145_241|map_6_443-443:C0A801C8|map_6_25-25:C0A801C8|
  map_17_25-25:C0A801C8|map_6_9090-9090:C0A801C8|map_6_4040-
  4040:C0A801C8|DSTIP_192_168_1_70|DSTIP_192_168_1_68|
  DSTIP_192_168_1_74|DSTIP_192_168_1_77|DSTIP_192_168_1_73|
  DSTIP_192_168_1_79|DSTIP_192_168_1_66|DSTIP_192_168_1_75|
  DSTIP_192_168_1_65|DHCP-R_sv_0|icmp|igmp|ftp|telnet|http|httpproxy|
  https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|
  ssh|dns|nntp|ipsec|esp|ah|ike}>]
```

The name of an expression to list.

```
[type = <{intf|ip|serv|mac}>]
```

The type of an expression.

```
[format = <{pretty|cli}>]
```

The format of the expression list.

expr modify

Modify an expression.

```
Syntax : modify name = <{ wan|local|lan|tunnel|dmz|guest|private|ssdp_ip|
  mdap_ip|icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|
  NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|
  ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|
  rtsp|ssdp_serv|mdap_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-
  Inc-SIP-TCP|VoIP-Inc-RTP}>
```

```
[type = <{intf|ip|serv|mac}>] index = <number>
```

```
mac [!]= <hardware-address> addr [!]= <ip-range>
```

```
[mask [ <ip-mask(dotted or cidr)>]
```

```
[intf [!]= <{loop|LocalNetwork|Internet}>]
```

```
[intfgroup [!]= <{wan|local|lan|tunnel|dmz|guest} or number>]
```

```
[tos [!]= <number{0-255}>]
```

```
[precedence [!]= <{routine|priority|immediate|flash|flash-
  override|CRITIC-ECP|internetnetwork-control|
  network-control} or number>]
```

```
[dscp [!]= <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|
  af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or
  number>]
```

```
[proto [!]= <{ icmp|igmp|ipinip|tcp|udp|ah|esp|ipcomp} or
  number>]
```

```
[srcport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
  bootpc|bootps|chargen|clearcase|daytime|discard|
  dns|domain|doom|echo|exec|finger|ftp|ftp-data|
  gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-
  net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|
  login|netbios-dgm|netbios-ns|netbios-ssn|netwall|
  netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|
  pcpmail-srv|pop2|pop3|printer|qotd|realaudio|rip|
  rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
  sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|
  talk|telnet|time|timed|tftp|ulistserv|utime|uucp|
  uucp-rlogin|who|www-http|whoami|xwindows} or
  number>]
```

```
[srcportend = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
  bootpc|bootps|chargen|clearcase|daytime|discard|
  dns|domain|doom|echo|exec|finger|ftp|ftp-data|
```

gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-  
net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|  
login|netbios-dgm|netbios-ns|netbios-ssn|netwall|  
netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|  
rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|  
sql\*net|sql-net|sqlserv|sunrpc|syslog|systat|  
talk|telnet|time|timed|tftp|ulistserv|utime|uucp|  
uucp-rlogin|who|www-http|whoami|xwindows } or  
number>]

[dstport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|  
bootpc|bootps|chargen|clearcase|daytime|discard|  
dns|domain|doom|echo|exec|finger|ftp|ftp-data|  
gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-  
net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|  
login|netbios-dgm|netbios-ns|netbios-ssn|netwall|  
netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|  
rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|  
sql\*net|sql-net|sqlserv|sunrpc|syslog|systat|  
talk|telnet|time|timed|tftp|ulistserv|utime|uucp|  
uucp-rlogin|who|www-http|whoami|xwindows } or  
number>]

[dstportend = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|  
bootpc|bootps|chargen|clearcase|daytime|discard|  
dns|domain|doom|echo|exec|finger|ftp|ftp-data|  
gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-  
net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|  
login|netbios-dgm|netbios-ns|netbios-ssn|netwall|  
netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|  
rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|  
sql\*net|sql-net|sqlserv|sunrpc|syslog|systat|  
talk|telnet|time|timed|tftp|ulistserv|utime|uucp|  
uucp-rlogin|who|www-http|whoami|xwindows } or  
number>]

[icmptype [!]= <{echo-reply|destination-unreachable|source-  
quench|redirect|echo-request|router-  
advertisement|router-solicitation|time-exceeded|  
parameter-problems|timestamp-request|timestamp-  
reply|information-request|information-reply|  
address-mask-request|address-mask-reply } or  
number>]

[icmpcode [!]= <number{0-15}>] [icmpcodeend = <number{0-15}>]

#### Parameters :

name = <{wan|local|lan|tunnel|dmz|guest|private|ssdp\_ip|mdap\_ip|icmp|igmp|  
ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|  
imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|  
sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-  
Inc-SIP-TCP|VoIP-Inc-RTP}>

The name of an expression to modify.

[type = <{intf|ip|serv|mac}>]

The type of an expression.

index = <number>

The index of a subexpression.

mac [!]= <hardware-address>



The MAC address.

addr [!]= <ip-range>

The IP address or range.

[mask [ <ip-mask(dotted or cidr)>]

The IP mask (ignored if an IP range is provided).

[intf [!]= <{loop|LocalNetwork|Internet}>]

The IP interface name.

[intfgroup [!]= <{wan|local|lan|tunnel|dmz|guest} or number>]

The IP interface group.

[tos [!]= <number{0-255}>]

The Type Of Service specification in the IP packet.

[precedence [!]= <{routine|priority|immediate|flash|flash-override|CRITIC-  
ECP|internetwork-control|network-control} or number>]

The precedence in the IP packet (part of tos).

[dscp [!]= <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|  
cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

The diffserv code point in the IP packet (part of tos).

[proto [!]= <{icmp|igmp|ipinip|tcp|udp|ah|esp|ipcomp} or number>]

The IP protocol (name or number) in the IP packet.

[srcport [!]= <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|  
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|  
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|  
ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|  
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-  
rwho|nfs|nickname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|  
qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|  
sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|  
time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows} or number>]

The TCP/UDP source port number or range begin.

[srcportend = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|  
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|  
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|  
ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|  
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-  
rwho|nfs|nickname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|  
qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|  
sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|  
time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows} or number>]

The source TCP/UDP source port range end. (inclusive)

[dstport [!]= <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|  
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|  
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|  
ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|  
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-  
rwho|nfs|nickname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|  
qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|  
sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|  
time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows} or number>]

The TCP/UDP destination port number or range begin.

[dstportend = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|  
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|  
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|  
ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|  
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-

rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|  
qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|  
snmp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|  
time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows } or number>]

The TCP/UDP destination port range end.

[icmp type [!]= <{echo-reply|destination-unreachable|source-quench|redirect|  
echo-request|router-advertisement|router-solicitation|time-  
exceeded|parameter-problems|timestamp-request|timestamp-  
reply|information-request|information-reply|address-mask-  
request|address-mask-reply} or number>]

The ICMP type (name or number) of the packet.

[icmp code [!]= <number{0-15}>]

The ICMP code or range begin.

[icmp code end = <number{0-15}>]

The ICMP code range end. (inclusive)

## firewall

Following commands are available :

config : Display/Modify firewall configuration.

clear : Clear firewall configuration.

list : Display firewall configuration.

Following command groups are available :

chain debug level rule

### firewall chain

Following commands are available :

add : Add a chain.

delete : Delete a chain.

list : Display a list of chains.

flush : Flush all chains.

### firewall chain add

Add a chain.

Syntax : add chain = <string>

Parameters :

chain = <string>

The name of the chain to add.

### firewall chain delete

Delete a chain.

Syntax : delete chain = <chain name>

Parameters :

chain = <chain name>

The name of the chain to delete.

### firewall chain flush

Flush all chains.

Syntax : flush

### firewall chain list

Display a list of chains.

Syntax : list [format = <{pretty|cli}>]

Parameters :

[format = <{pretty|cli}>]

The format of the chain list.

firewall chain modify

Modify a chain.

Syntax : modify chain = <chain name>

Parameters :

chain = <chain name>

The name of the chain to modify.

firewall clear

Clear firewall configuration.

Syntax : clear

firewall config

Display/Modify firewall configuration.

Syntax : config [state = <{disabled|enabled}>] [keep = <{disabled|enabled}>]

[tcpchecks = <{none|fast|exact}>]

[udpchecks = <{disabled|enabled}>]

[icmpchecks = <{disabled|enabled}>]

[logdefault = <{disabled|enabled}>]

[logthreshold = <{disabled|enabled}>]

[tcpwindow = <number{0-1073725440}>]

Parameters :

[state = <{disabled|enabled}>]

Disable/Enable the firewall.

[keep = <{disabled|enabled}>]

Disable/Enable keeping existing connections when firewall rules change.

[tcpchecks = <{none|fast|exact}>]

Select level of TCP checks.

[udpchecks = <{disabled|enabled}>]

Disable/Enable UDP checks.

[icmpchecks = <{disabled|enabled}>]

Disable/Enable ICMP checks.

[logdefault = <{disabled|enabled}>]

Disable/Enable logging of default firewall rule.

[logthreshold = <{disabled|enabled}>]

Disable/Enable log thresholding.

[tcpwindow = <number{0-1073725440}>]

Modify the tcpwindow for fast TCP checks

firewall debug

Following commands are available :

traceconfig : Display/Modify firewall trace configuration.

stats : Display firewall statistics.

clear : Clear firewall statistics.

firewall debug clear

Clear firewall statistics.

Syntax : clear

firewall debug stats

Display firewall statistics.

Syntax : stats

firewall debug traceconfig

Display/Modify firewall trace configuration.

Syntax : traceconfig [tcpchecks = <{disabled|enabled}>]

[udpchecks = <{disabled|enabled}>]

[icmpchecks = <{disabled|enabled}>]

[sink = <{none|all|accept|deny|drop|reset} or number>]

[forward = <{none|all|accept|deny|drop|reset} or number>]

[source = <{none|all|accept|deny|drop|reset} or number>]

Parameters :

[tcpchecks = <{disabled|enabled}>]

Disable/Enable tcpchecks traces.

[udpchecks = <{disabled|enabled}>]

Disable/Enable udpchecks traces.

[icmpchecks = <{disabled|enabled}>]

Disable/Enable icmpchecks traces.

[sink = <{none|all|accept|deny|drop|reset} or number>]

The action the firewall traces for sink traffic.

[forward = <{none|all|accept|deny|drop|reset} or number>]

The action the firewall traces for forward traffic.

[source = <{none|all|accept|deny|drop|reset} or number>]

The action the firewall traces for source traffic.

firewall level

Following commands are available :

add : Add a new security level.

delete : Delete a security level.

modify : Modify a security level.

list : List all security levels.

set : Set/Display active security level.

flush : Flush security level configuration.

firewall level add

Add a new security level.

Syntax : add name = <string> [index = <number>]

[readonly = <{disabled|enabled}>]

[udptrackmode = <{strict|loose}>]

[service = <{disabled|enabled}>] [proxy = <{disabled|enabled}>]

[text = <quoted string>]

[policy = <{default|drop|accept|strict|loose}>]

Parameters :

name = <string>

The name of the security level to add.

[index = <number>]

The index of the security level.

[readonly = <{disabled|enabled}>]

Select whether the security level is readonly.

[udptrackmode = <{strict|loose}>]

Select UDP connection tracking mode.

[service = <{disabled|enabled}>]

Enable/Disable host service definitions for this security level.

[proxy = <{disabled|enabled}>]

Enable/Disable proxy system services for this security level.

[text = <quoted string>]

The description of this security level.

[policy = <{default|drop|accept|strict|loose}>]

Select default policy of this security level.

firewall level delete

Delete a security level.

Syntax : delete name = <security level name>

Parameters :

name = <security level name>

The name of the security level to delete.

firewall level flush

Flush security level configuration.

Syntax : flush

firewall level list

List all security levels.

Syntax : list [format = <{pretty|cli}>]

Parameters :

[format = <{pretty|cli}>]

The format of the security level list.

firewall level modify

Modify a security level.

Syntax : modify name = <security level name> [index = <number>]

[readonly = <{disabled|enabled}>]

[udptrackmode = <{strict|loose}>]

[service = <{disabled|enabled}>]

[proxy = <{disabled|enabled}>] [text = <quoted string>]

[policy = <{default|drop|accept|strict|loose}>]

Parameters :

name = <security level name>

The name of the security level to modify.

[index = <number>]

The index of this security level.

[readonly = <{disabled|enabled}>]

Select whether the security level is readonly.

[udptrackmode = <{strict|loose}>]

Select UDP connection tracking mode.

[service = <{disabled|enabled}>]

Enable/Disable service definitions for this security level.

[proxy = <{disabled|enabled}>]

Enable/Disable proxy system services for this security level.

[text = <quoted string>]

The description of this security level.

[policy = <{default|drop|accept|strict|loose}>]

Select default policy of this security level.

firewall level set

Set/Display active security level.

Syntax : set [name = <security level name>]

Parameters :

[name = <security level name>]

The name of the security level to set active.

firewall list

Display firewall configuration.

Syntax : list [format = <{pretty|cli}>]

Parameters :

[format = <{pretty|cli}>]

The format of the firewall list.

firewall rule

Following commands are available :

add : Add a rule.

delete : Delete a rule.

modify : Modify a rule.

list : Display a list of rules.

flush : Flush all rules.

Following command groups are available :

debug

firewall rule add

Add a rule.

Syntax : add chain = <chain name> [index = <number>] [name = <string>]

[clink = <chain name>]

[srcintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]

[srcip [!]= <{private|ssdp\_ip|mdap\_ip}>]

[dstintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]

[dstip [!]= <{private|ssdp\_ip|mdap\_ip}>]

[serv [!]= <{icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP}>]

[log = <{disabled|enabled}>] [state = <{disabled|enabled}>]

action = <{accept|deny|drop|reset|count|link}>

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[srcintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]

The name of the source interface expression.

[srcip [!]= <{private|ssdp\_ip|mdap\_ip}>]

The name of the source ip expression.

[dstintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]

The name of the destination interface expression.

[dstip [!]= <{private|ssdp\_ip|mdap\_ip}>]

The name of the destination ip expression.

```
[serv [!]= <{icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp_serv|mdap_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP}>]
```

The name of the service expression.

```
[log = <{disabled|enabled}>]
```

Disable/Enable logging when this rule applies.

```
[state = <{disabled|enabled}>]
```

Disable/Enable this rule.

```
action = <{accept|deny|drop|reset|count|link}>
```

The action to be taken when this rule applies ('link' when link is used).

firewall rule debug

Following commands are available :

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics.

clear : Clear rule statistics.

firewall rule debug clear

Clear rule statistics.

Syntax : clear [chain = <chain name>] [index = <number>]

Parameters :

```
[chain = <chain name>]
```

The name of the chain.

```
[index = <number>]
```

The index of the rule in the chain.

firewall rule debug stats

Display rule statistics.

Syntax : stats [chain = <chain name>] [index = <number>]

Parameters :

```
[chain = <chain name>]
```

The name of the chain.

```
[index = <number>]
```

The index of the rule in the chain.

firewall rule debug traceconfig

Display/Modify rule trace configuration.

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

```
[state = <{disabled|enabled}>]
```

Disable/Enable rule traces.

firewall rule delete

Delete a rule.

Syntax : delete chain = <chain name> index = <number>

Parameters :

```
chain = <chain name>
```

The name of the chain in which to delete the rule.

```
index = <number>
```

The number of the rule in the chain.

### firewall rule flush

Flush all rules.

Syntax : flush [chain = <chain name>]

Parameters :

[chain = <chain name>]

The name of the chain to flush.

### firewall rule list

Display a list of rules.

Syntax : list [chain = <chain name>] [format = <{pretty|cli}>]

Parameters :

[chain = <chain name>]

The name of the chain to list the rules of.

[format = <{pretty|cli}>]

The format of the rule list.

### firewall rule modify

Modify a rule.

Syntax : modify chain = <chain name> [index = <number>] [newindex = <number>]

[name = <string>] [clink = <chain name>] [[!]srcintf]

[[!]srcip] [[!]dstintf] [[!]dstip] [[!]serv]

[log = <{disabled|enabled}>] [state = <{disabled|enabled}>]

[action = <{accept|deny|drop|reset|count|link}>]

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[newindex = <number>]

The new index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[[!]srcintf]

The name of the source interface expression.

[[!]srcip]

The name of the source ip expression.

[[!]dstintf]

The name of the destination interface expression.

[[!]dstip]

The name of the destination ip expression.

[[!]serv]

The name of the service expression.

[log = <{disabled|enabled}>]

Disable/Enable logging when this rule applies.

[state = <{disabled|enabled}>]

Disable/Enable this rule.

[action = <{accept|deny|drop|reset|count|link}>]

The action to be taken when this rule applies ('link' when clink is used).

### grp



Following commands are available :

rtlist : Show the current routes in the grp routing table.  
config : Set the grp configuration settings.  
flush : Flush grp interface settings and parameters.

Following command groups are available :

rip

grp config

Set the grp configuration settings.

Syntax : config [cdistance = <number{0-255}>] [kdistance = <number{0-255}>]  
[rdistance = <number{0-255}>] [trace = <{disabled|enabled}>]

Parameters :

[cdistance = <number{0-255}>]

Set the distance of the connected route type. Default distance is 0.

[kdistance = <number{0-255}>]

Set the distance of the kernel route type. Default distance is 1.

[rdistance = <number{0-255}>]

Set the distance of the RIP route type. Default distance is 120.

[trace = <{disabled|enabled}>]

Enable/Disable tracing.

grp flush

Flush grp interface settings and parameters.

Syntax : flush

grp rip

Following commands are available :

ifconfig : Configure a RIP interface.  
config : Set the RIP configuration settings.  
show : Show the RIP settings and the routes in the RIP database.  
flush : Flush RIP interface settings and global parameters.

grp rip config

Set the RIP configuration settings.

Syntax : config state = <{disabled|enabled}>  
[version = <{rip\_unspec|rip\_v1|rip\_v2}>]  
[updatetime = <number{1-3600}>]

Parameters :

state = <{disabled|enabled}>

Enable/Disable the RIP daemon.

[version = <{rip\_unspec|rip\_v1|rip\_v2}>]

Set the RIP version.

[updatetime = <number{1-3600}>]

Set the routing table update timer value. Default is 30 seconds.

grp rip flush

Flush RIP interface settings and global parameters.

Syntax : flush

grp rip ifconfig

Configure a RIP interface.

Syntax : ifconfig intf = <{Internet|LocalNetwork}>  
[rip = <{disabled|enabled}>]

```
[rxversion = <{rip_unspec|rip_v1|rip_v2|rip_v1-2}>]
[authmode = <{none|cleartext}>] [authstr = <password>]
[splthorizon = <{disabled|enabled}>]
```

Parameters :

```
intf = <{Internet|LocalNetwork}>
    The name of the RIP interface to configure.
[rip = <{disabled|enabled}>]
    Enable/Disable the RIP status.
[rxversion = <{rip_unspec|rip_v1|rip_v2|rip_v1-2}>]
    Set the RIP receive version.
[authmode = <{none|cleartext}>]
    Set the RIP authentication mode.
[authstr = <password>]
    Set the RIP authentication password.
[splthorizon = <{disabled|enabled}>]
    Enable/Disable the split horizon status.
```

grp rip show

Show the RIP settings and the routes in the RIP database.

Syntax : show

grp rtlist

Show the current routes in the grp routing table.

Syntax : rtlist [dst = <ip-address>] [dstmsk = <ip-mask(dotted or cidr)>]

Parameters :

```
[dst = <ip-address>]
    The destination IP address using this route. Supports ip/mask notation.
[dstmsk = <ip-mask(dotted or cidr)>]
    The destination IP address mask.
```

hostmgr

Following commands are available :

```
clear      : Remove all host devices
flush     : Flush Device Discovery configuration (i.e. clear & to
           defaults)
config    : Configure Device Discovery daemon
add       : Add host device
delete    : Delete host device
list      : List all host devices
```

hostmgr add

Add host device

```
Syntax : add mac_addr = <hardware-address>
        [host_type = <{Generic|Desktop|Laptop|STB|PDA|GS|Phone|GSM|
        Printer|MassStorage|None}>]
        [host_name = <string>] [user_friendly_name = <quoted string>]
        [dns_name = <string>]
        [type = <{Unknown|L2-FXS|L2-USB|L2-BT|L3-IP|L7-UPNP|L2-PPPOERELAY|
        L2-WLAN}>]
        [interface = <string>] [ip_intf = <string>]
```

Parameters :

```
mac_addr = <hardware-address>
    Host MAC address
[host_type = <{Generic|Desktop|Laptop|STB|PDA|GS|Phone|GSM|Printer|
```

MassStorage|None}>]

Host type

[host\_name = <string>]

Host name

[user\_friendly\_name = <quoted string>]

Host user friendly name

[dns\_name = <string>]

Host DNS name

[type = <{Unknown|L2-FXS|L2-USB|L2-BT|L3-IP|L7-UPNP|L2-PPPOERELAY|L2-WLAN}>]

Host connection type

[interface = <string>]

Host Ethernet interface XREF

[ip\_intf = <string>]

Host IP interface XREF

hostmgr clear

Remove all host devices

Syntax : clear

hostmgr config

Configure Device Discovery daemon

Syntax : config [state = <{disabled|enabled}>] [scantime = <number{ 10-600}>]

[autosave = <{disabled|enabled}>]

[trace = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/disable Device Discovery daemon

[scantime = <number{ 10-600}>]

Time between two discovery scans (sec)

[autosave = <{disabled|enabled}>]

Enable/disable automatic saves to flash

[trace = <{disabled|enabled}>]

Enable/disable Device Discovery traces

hostmgr delete

Delete host device

Syntax : delete mac\_addr = <hardware-address>

[type = <{Unknown|L2-FXS|L2-USB|L2-BT|L3-IP|L7-UPNP|L2-PPPOERELAY|L2-WLAN}>]

[index = <number>]

Parameters :

mac\_addr = <hardware-address>

Host MAC address

[type = <{Unknown|L2-FXS|L2-USB|L2-BT|L3-IP|L7-UPNP|L2-PPPOERELAY|L2-WLAN}>]

Host connection type

[index = <number>]

Host index

hostmgr flush

Flush Device Discovery configuration (i.e. clear & to defaults)

Syntax : flush

hostmgr list

List all host devices

Syntax : list [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

ids

Following commands are available :

config : Display/Modify IDS configuration.

clear : Clear IDS statistics.

Following command groups are available :

parser pattern signature threshold

ids clear

Clear IDS statistics.

Syntax : clear

ids config

Display/Modify IDS configuration.

Syntax : config [state = <{disabled|enabled}>] [trace = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable ids checks.

[trace = <{disabled|enabled}>]

Enable/Disable ids traces.

ids contrack

Following commands are available :

list : Display connections in connection tracker.

stats : Display connection tracker statistics.

clear : Reset connection tracker.

ids contrack clear

Reset connection tracker.

Syntax : clear

ids contrack list

Display connections in connection tracker.

Syntax : list [size = <{10|100|full} or number>]

Parameters :

[size = <{10|100|full} or number>]

Modify the size of connection tracker list.

ids contrack stats

Display connection tracker statistics.

Syntax : stats

ids parser

Following commands are available :

list : Display ids parser configuration.

modify : Modify ids parser configuration.

ids parser list

Display ids parser configuration.

Syntax : list [parser = <parser>]

Parameters :

[parser = <parser>]

The name of the parser.

ids parser modify

Modify ids parser configuration.

Syntax : modify [parser = <parser>] state = <{ disabled|enabled}>

Parameters :

[parser = <parser>]

The name of the parser.

state = <{ disabled|enabled}>

The state of the parser.

ids pattern

Following commands are available :

list : Display patterns in pattern tracker.

stats : Display pattern tracker statistics.

clear : Reset pattern tracker.

ids pattern clear

Reset pattern tracker.

Syntax : clear

ids pattern list

Display patterns in pattern tracker.

Syntax : list [size = <{ 10|100|full } or number>]

Parameters :

[size = <{ 10|100|full } or number>]

Modify the size of pattern tracker list.

ids pattern stats

Display pattern tracker statistics.

Syntax : stats

ids signature

Following commands are available :

list : Display ids signature configuration.

modify : Modify ids signature configuration.

ids signature list

Display ids signature configuration.

Syntax : list [signature = <fragment\_sweep|zero-length\_fragment\_size|  
small\_fragment\_size|fragment\_size\_overrun|  
fragment\_overlap|fragment\_out-of-order|  
ip\_protocol\_scan|tcp\_port\_scan|tcp\_syn\_scan|  
stealth\_tcp\_null\_scan|stealth\_tcp\_fin\_scan|  
stealth\_tcp\_xmas\_scan|stealth\_tcp\_full\_xmas\_scan|  
stealth\_tcp\_vecna\_scan|stealth\_tcp\_syn-fin\_scan|  
udp\_port\_scan|ping\_sweep\_scan|tcp\_syn\_flood|  
udp\_flood|ping\_flood|icmp\_unreachable\_storm|  
smurf\_broadcast\_attack|smurf\_storm\_attack|  
fraggle\_broadcast\_attack|fraggle\_storm\_attack|  
land\_attack|spoofed\_packet|tcp\_null\_port|  
tcp\_data\_on\_syn\_segment|tcp\_invalid\_urgent\_offset|  
udp\_null\_port|icmp\_type\_unknown|icmp\_code\_unknown|

```
ip_zero_payload|tcp_rate_limiting|udp_rate_limiting|
icmp_rate_limiting|ip_rate_limiting|
dhcp_rate_limiting}>]
```

Parameters :

```
[signature = <fragment_sweep|zero-length_fragment_size|small_fragment_size|
fragment_size_overrun|fragment_overlap|fragment_out-of-order|
ip_protocol_scan|tcp_port_scan|tcp_syn_scan|
stealth_tcp_null_scan|stealth_tcp_fin_scan|
stealth_tcp_xmas_scan|stealth_tcp_full_xmas_scan|
stealth_tcp_vecna_scan|stealth_tcp_syn-fin_scan|udp_port_scan|
ping_sweep_scan|tcp_syn_flood|udp_flood|ping_flood|
icmp_unreachable_storm|smurf_broadcast_attack|
smurf_storm_attack|fraggle_broadcast_attack|
fraggle_storm_attack|land_attack|spoofed_packet|tcp_null_port|
tcp_data_on_syn_segment|tcp_invalid_urgent_offset|
udp_null_port|icmp_type_unknown|icmp_code_unknown|
ip_zero_payload|tcp_rate_limiting|udp_rate_limiting|
icmp_rate_limiting|ip_rate_limiting|dhcp_rate_limiting}>]
```

The name of the signature.

ids signature modify

Modify ids signature configuration.

```
Syntax : modify [signature = <fragment_sweep|zero-length_fragment_size|
small_fragment_size|fragment_size_overrun|
fragment_overlap|fragment_out-of-order|
ip_protocol_scan|tcp_port_scan|tcp_syn_scan|
stealth_tcp_null_scan|stealth_tcp_fin_scan|
stealth_tcp_xmas_scan|stealth_tcp_full_xmas_scan|
stealth_tcp_vecna_scan|stealth_tcp_syn-fin_scan|
udp_port_scan|ping_sweep_scan|tcp_syn_flood|
udp_flood|ping_flood|icmp_unreachable_storm|
smurf_broadcast_attack|smurf_storm_attack|
fraggle_broadcast_attack|fraggle_storm_attack|
land_attack|spoofed_packet|tcp_null_port|
tcp_data_on_syn_segment|tcp_invalid_urgent_offset|
udp_null_port|icmp_type_unknown|icmp_code_unknown|
ip_zero_payload|tcp_rate_limiting|
udp_rate_limiting|icmp_rate_limiting|
ip_rate_limiting|dhcp_rate_limiting}>]
state = <{disabled|enabled}>
```

Parameters :

```
[signature = <fragment_sweep|zero-length_fragment_size|small_fragment_size|
fragment_size_overrun|fragment_overlap|fragment_out-of-order|
ip_protocol_scan|tcp_port_scan|tcp_syn_scan|
stealth_tcp_null_scan|stealth_tcp_fin_scan|
stealth_tcp_xmas_scan|stealth_tcp_full_xmas_scan|
stealth_tcp_vecna_scan|stealth_tcp_syn-fin_scan|udp_port_scan|
ping_sweep_scan|tcp_syn_flood|udp_flood|ping_flood|
icmp_unreachable_storm|smurf_broadcast_attack|
smurf_storm_attack|fraggle_broadcast_attack|
fraggle_storm_attack|land_attack|spoofed_packet|tcp_null_port|
tcp_data_on_syn_segment|tcp_invalid_urgent_offset|
udp_null_port|icmp_type_unknown|icmp_code_unknown|
ip_zero_payload|tcp_rate_limiting|udp_rate_limiting|
```

icmp\_rate\_limiting|ip\_rate\_limiting|dhcp\_rate\_limiting}>]

The name of the signature.

state = <{disabled|enabled}>

The state of the sign.

ids threshold

Following commands are available :

list : Display IDS thresholds.

modify : Modify IDS threshold.

clear : Reset IDS thresholds.

ids threshold clear

Reset IDS thresholds.

Syntax : clear

ids threshold list

Display IDS thresholds.

Syntax : list

ids threshold modify

Modify IDS threshold.

Syntax : modify index = <number> [window = <number>] [limit = <number>]

[scaling = <{disabled|enabled}>]

Parameters :

index = <number>

The index of the threshold.

[window = <number>]

The time window of the threshold.

[limit = <number>]

The limit of the threshold.

[scaling = <{disabled|enabled}>]

Scaling of the threshold window.

igmp

Following command groups are available :

host proxy

igmp host

Following commands are available :

config : Display/Modify global IGMP configuration.

ifconfig : Configure an IGMP interface.

iflist : Show the configuration of the IGMP interfaces.

list : Show the IGMP groups.

flush : Flush the IGMP settings.

Following command groups are available :

debug

igmp host config

Display/Modify global IGMP configuration.

Syntax : config [requirera = <{disabled|enabled}>]

Parameters :

[requirera = <{disabled|enabled}>]

Enable/Disable the router alert IP option check.

igmp host debug

Following commands are available :

stats : Print IGMP statistics.  
clear : Clear IGMP statistics.

igmp host debug clear

Clear IGMP statistics.

Syntax : clear

igmp host debug stats

Print IGMP statistics.

Syntax : stats

igmp host flush

Flush the IGMP settings.

Syntax : flush

igmp host ifconfig

Configure an IGMP interface.

Syntax : ifconfig intf = <{loop|LocalNetwork|Internet}>  
version = <{none|IGMPv1|IGMPv2|IGMPv3}>

Parameters :

intf = <{loop|LocalNetwork|Internet}>

The IP interface name.

version = <{none|IGMPv1|IGMPv2|IGMPv3}>

The IGMP version of the IP interface.

igmp host iflist

Show the configuration of the IGMP interfaces.

Syntax : iflist [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

igmp host list

Show the IGMP groups.

Syntax : list [intf = <{loop|LocalNetwork|Internet}>]  
[expand = <{disabled|enabled}>]

Parameters :

[intf = <{loop|LocalNetwork|Internet}>]

The IP interface name.

[expand = <{disabled|enabled}>]

Expanded listing.

igmp proxy

Following commands are available :

config : Configure the IGMP proxy.  
ifconfig : Configure an IGMP proxy interface.  
iflist : Show the configuration of an IGMP proxy interface.  
grouplist : Show the learned groups on an IGMP proxy interface.  
mbslist : Show the IGMP proxy membership database (merge of all learned groups).  
flush : Flush all IGMP proxy settings and learned groups



Following command groups are available :

debug

igmp proxy config

Configure the IGMP proxy.

Syntax : config [state = <{disabled|enabled}>] [qi = <number{1-86400}>]  
[qri = <number{1-3175}>] [lmqi = <number{1-3175}>]  
[rv = <number{2-7}>] [advinter = <number{4-180}>]  
[initadvinter = <number{1-4}>]  
[initadvcount = <number{1-10}>]  
[requirera = <{disabled|enabled}>]  
[localgroup = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable the IGMP proxy.

[qi = <number{1-86400}>]

The interval in seconds between general queries sent by the querier.

[qri = <number{1-3175}>]

The maximum response time in seconds for an IGMP client in reply to general queries.

[lmqi = <number{1-3175}>]

The maximum response time in seconds for an IGMP client in reply to group specific queries.

[rv = <number{2-7}>]

The robustness variable allows tuning for expected IGMP packet loss.

[advinter = <number{4-180}>]

The interval in seconds for unsolicited MRD advertisements (see rfc4286).

[initadvinter = <number{1-4}>]

The interval in seconds for initial unsolicited MRD advertisements (see rfc4286).

[initadvcount = <number{1-10}>]

The maximum number of initial unsolicited MRD advertisements (see rfc4286).

[requirera = <{disabled|enabled}>]

Enable/Disable the router alert IP option check.

[localgroup = <{disabled|enabled}>]

Enable/Disable the processing of a local multicast group in an IGMP packet.

igmp proxy debug

Following commands are available :

traceconfig : Modify IGMP proxy trace configuration

stats : Print IGMP proxy statistics

clear : Clear IGMP proxy statistics

igmp proxy debug clear

Clear IGMP proxy statistics

Syntax : clear

igmp proxy debug stats

Print IGMP proxy statistics

Syntax : stats

igmp proxy debug traceconfig

Modify IGMP proxy trace configuration

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable tracing.

igmp proxy flush

Flush all IGMP proxy settings and learned groups

Syntax : flush

igmp proxy grouplist

Show the learned groups on an IGMP proxy interface.

Syntax : grouplist [intf = <{LocalNetwork}>] [expand = <{disabled|enabled}>]

Parameters :

[intf = <{LocalNetwork}>]

The name of the IGMP proxy interface to be listed.

[expand = <{disabled|enabled}>]

Expanded listing.

igmp proxy ifconfig

Configure an IGMP proxy interface.

Syntax : ifconfig intf = <{Internet|LocalNetwork}>

[state = <{inactive|downstream|upstream}>]

[version = <{IGMPv1|IGMPv2|IGMPv3}>]

[fastleave = <{disabled|enabled}>]

[exptrack = <{disabled|enabled}>]

[mrd = <{disabled|enabled}>]

Parameters :

intf = <{Internet|LocalNetwork}>

The name of the IGMP proxy interface to be configured.

[state = <{inactive|downstream|upstream}>]

The state of the IGMP proxy interface.

[version = <{IGMPv1|IGMPv2|IGMPv3}>]

The IGMP version of the IGMP proxy interface.

[fastleave = <{disabled|enabled}>]

Enable/Disable the immediate deletion of a group when a leave is received.

[exptrack = <{disabled|enabled}>]

Enable/Disable explicit host tracking.

[mrd = <{disabled|enabled}>]

Enable/Disable sending multicast router advertisements (rfc 4286).

igmp proxy iflist

Show the configuration of an IGMP proxy interface.

Syntax : iflist [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

igmp proxy mbslist

Show the IGMP proxy membership database (merge of all learned groups).

Syntax : mbslist

interface

Following commands are available :

list : Display interfaces.

## interface list

Display interfaces.

Syntax : list [expand = <{disabled|enabled}>]  
[reverse = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

[reverse = <{disabled|enabled}>]

Reverse listing (lower layer iso. upper layer).

## ip

Following commands are available :

ifadd : Create an IP interface.  
ifdelete : Delete an IP interface.  
ifattach : Attach an IP interface.  
ifdetach : Detach an IP interface.  
ifconfig : Modify an IP interface configuration.  
iflist : Display all IP interfaces.  
ifwait : Wait for a status change of an IP interface.  
ipadd : Assign an IP address to an IP interface.  
ipdelete : Remove an IP address from an IP interface.  
ipconfig : Modify an IP address configuration.  
iplist : Display all configured IP addresses.  
rtadd : Add a route to the routing table.  
rtconfig : Modify a route of the routing table.  
rtdelete : Delete a route from the routing table.  
rtlist : Display the routing table.  
arpadd : Add an entry to the ARP cache of a broadcast IP interface.  
arpdelete : Delete an ARP entry.  
arplist : Display the ARP cache.  
config : Display/Modify global IP stack configuration.  
flush : Flush all static IP parameters. Dynamic info (e.g. from PPP links) remains.

Following command groups are available :

auto debug mcast

### ip arpadd

Add an entry to the ARP cache of a broadcast IP interface.

Syntax : arpadd intf = <{LocalNetwork|Internet}> ip = <ip-range>  
[hwaddr = <hardware-address>]

Parameters :

intf = <{LocalNetwork|Internet}>

The IP interface name.

ip = <ip-range>

The IP address [range] of the entry to add.

[hwaddr = <hardware-address>]

The hardware address (e.g. Ethernet MAC address) of the entry to add.

### ip arpdelete

Delete an ARP entry.

Syntax : arpdelete intf = <{LocalNetwork|Internet}> ip = <ip-range>  
[hwaddr = <hardware-address>]

Parameters :

intf = <{LocalNetwork|Internet}>

The IP interface name.

ip = <ip-range>

The IP address [range] of the entry to delete.

[hwaddr = <hardware-address>]

The hardware address (e.g. Ethernet MAC address) of the entry to delete.

ip arplist

Display the ARP cache.

Syntax : arplist

ip auto

Following commands are available :

ifadd : Creates a new autoIP interface.

ifdelete : Deletes an existing autoIP interface.

ifattach : Select and assign a link-local address to an autoIP interface.

ifdetach : Release the link-local address for the given autoIP interface.

ifconfig : Configures an autoIP interface.

iflist : Shows the autoIP interfaces.

flush : Flushes autoIP interfaces.

ip auto flush

Flushes autoIP interfaces.

Syntax : flush

ip auto ifadd

Creates a new autoIP interface.

Syntax : ifadd intf = <{loop|LocalNetwork|Internet}> [addr = <ip-address>]

Parameters :

intf = <{loop|LocalNetwork|Internet}>

The name of the IP interface for which a link-local address has to be allocated.

[addr = <ip-address>]

The preferred link-local IP address.

ip auto ifattach

Select and assign a link-local address to an autoIP interface.

Syntax : ifattach intf = <>

Parameters :

intf = <>

The name of the autoIP interface.

ip auto ifconfig

Configures an autoIP interface.

Syntax : ifconfig intf = <> [addr = <ip-address>] [poolstart = <ip-address>]

[poolend = <ip-address>]

[netmask = <ip-mask(dotted or cidr)>]

[claim = <number{0-65535}>] [defence = <number{0-65535}>]

[probe = <number{0-65535}>] [interval = <number{1-65535}>]

Parameters :

intf = <>

The name of the autoIP interface to configure.

[addr = <ip-address>]

The preferred link-local IP address.

[poolstart = <ip-address>]

The start IP address of the link-local address pool.

[poolend = <ip-address>]

The end IP address of the link-local address pool.

[netmask = <ip-mask(dotted or cidr)>]

The netmask of the link-local IP address pool.

[claim = <number{0-65535}>]

The number of link-local address selection retries before giving up.

[defence = <number{0-65535}>]

The number of times the link-local address is defended before releasing the address.

[probe = <number{0-65535}>]

The number of ARP probes to be sent before accepting a link-local address.

[interval = <number{1-65535}>]

The time interval between two ARP probe transmissions.

ip auto ifdelete

Deletes an existing autoIP interface.

Syntax : ifdelete intf = <>

Parameters :

intf = <>

The name of the autoIP interface.

ip auto ifdetach

Release the link-local address for the given autoIP interface.

Syntax : ifdetach intf = <>

Parameters :

intf = <>

The name of the autoIP interface.

ip auto iflist

Shows the autoIP interfaces.

Syntax : iflist [intf = <>]

Parameters :

[intf = <>]

The name of a autoIP interface.

ip config

Display/Modify global IP stack configuration.

Syntax : config [forwarding = <{disabled|enabled}>]

[redirects = <{disabled|enabled}>]

[checkoptions = <{disabled|enabled|transparent}>]

[netbroadcasts = <{disabled|enabled}>]

[ttl = <number{0-255}>] [fraglimit = <number{1-1024}>]

[defragmode = <{disabled|enabled}>]

[addrcheck = <{off|own|static|dynamic}>]

[mssclamping = <{disabled|enabled}>]

[natloopback = <{disabled|enabled}>]

[arpclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15}>]

[acceleration = <{disabled|enabled}>]

Parameters :

[forwarding = <{disabled|enabled}>]

Disable/Enable IP routing functionality.

[redirects = <{disabled|enabled}>]

Disable/Enable sending of ICMP redirect messages.

[checkoptions = <{disabled|enabled|transparent}>]

Disallow/Allow packets with IP options.

[netbroadcasts = <{disabled|enabled}>]

Disallow/Allow net directed broadcasts.

[ttl = <number{0-255}>]

Set the default time-to-live for locally generated IP packets.

[fraglimit = <number{1-1024}>]

Set the maximum number of IP fragments waiting for completion. (Avoids buffer depletion).

[defragmode = <{disabled|enabled}>]

Disallow/Allow defragmenting IP fragments.

[addrcheck = <{off|own|static|dynamic}>]

Sets the level of ip address checks.

[mssclamping = <{disabled|enabled}>]

Disable/Enable mss clamping for low mtu interfaces.

[natloopback = <{disabled|enabled}>]

Disable/Enable NAT loopback.

[arpclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15}>]

The prio class of the ARP packets.

[acceleration = <{disabled|enabled}>]

Disable/Enable IP acceleration.

ip debug

Following commands are available :

stats : Display statistics.

traceconfig : Display/Modify IP stack trace configuration.

sendto : Send UDP packets.

httpprobe : Send HTTP probe to measure the round trip time taken to connect and access data from a HTTP server

ip debug httpprobe

Send HTTP probe to measure the round trip time taken to connect and access data from a HTTP server

Syntax : httpprobe url = <string> [version = <{1.0|1.1}>]

Parameters :

url = <string>

The Uniform Resource Locator identifying the HTTP server.

[version = <{1.0|1.1}>]

The version of the HTTP server.

ip debug sendto

Send UDP packets.

Syntax : sendto addr = <ip-address> [count = <number{1-1000000}>]

[size = <number{0-20000}>] [interval = <number{1-1000000}>]

[listen = <{disabled|enabled}>]

[dffield = <{disabled|enabled}>] [srcaddr = <ip-address>]

[srcport = <number{1-65535}>] dstport = <number{1-65535}>

[dstintf = <{loop|LocalNetwork|Internet}>]

Parameters :

addr = <ip-address>

The destination IP address.

[count = <number{ 1-1000000}>]

The number of datagrams to send.

[size = <number{ 0-20000}>]

The size of the datagram.

[interval = <number{ 1-1000000}>]

The interval in milliseconds between datagrams.

[listen = <{disabled|enabled}>]

Don't send, just listen for incoming datagrams.

[df field = <{disabled|enabled}>]

Enables setting of the don't fragment flag in the IP headers of the ping packet(s).

[srcaddr = <ip-address>]

The IP source address to use.

[srcport = <number{ 1-65535}>]

The UDP source port number to use.

dstport = <number{ 1-65535}>

The UDP destination port number to send to.

[dstintf = <{loop|LocalNetwork|Internet}>]

The IP interface name.

ip debug stats

Display statistics.

Syntax : stats proto = <{ip|udp|tcp|icmp}>

Parameters :

proto = <{ip|udp|tcp|icmp}>

The protocol for which to display the statistics.

ip debug traceconfig

Display/Modify IP stack trace configuration.

Syntax : traceconfig [input = <{ none|label|-telnet|-host|-broadcast|all }>]

[forward = <{ none|label|-telnet|-host|-broadcast|all }>]

[output = <{ none|label|-telnet|-host|-broadcast|all }>]

[drop = <{ none|label|-telnet|-host|-broadcast|all }>]

[path = <{ none|label|-telnet|-host|-broadcast|all }>]

[mode = <{ line|dump }>] [arp = <{ none|all }>]

Parameters :

[input = <{ none|label|-telnet|-host|-broadcast|all }>]

Define the packets that will be traced.

[forward = <{ none|label|-telnet|-host|-broadcast|all }>]

Define the packets that will be traced.

[output = <{ none|label|-telnet|-host|-broadcast|all }>]

Define the packets that will be traced.

[drop = <{ none|label|-telnet|-host|-broadcast|all }>]

Define the packet drops that will be traced.

[path = <{ none|label|-telnet|-host|-broadcast|all }>]

Define the packet that will be path-traced.

[mode = <{ line|dump }>]

Packet dump method.

[arp = <{ none|all }>]

Define the arp packets that will be traced.

ip flush

Flush all static IP parameters. Dynamic info (e.g. from PPP links) remains.

Syntax : flush

ip ifadd

Create an IP interface.

Syntax : ifadd intf = <string> dest = <{ }>

Parameters :

intf = <string>

An IP interface name.

dest = <{ }>

An network interface name.

ip ifattach

Attach an IP interface.

Syntax : ifattach intf = <{ }>

Parameters :

intf = <{ }>

An IP interface name.

ip ifconfig

Modify an IP interface configuration.

Syntax : ifconfig intf = <{loop|LocalNetwork|Internet}>

[mtu = <number{ 68-65535 }>] [status = <{down|up}>]

[hwaddr = <hardware-address>]

[group = <{wan|local|lan|tunnel|dmz|guest} or number>]

[linksensing = <{disabled|enabled}>]

[primary = <{disabled|enabled}>]

[mcastpromisc = <{disabled|enabled}>]

[symmetric = <{disabled|enabled}>]

[arprobe = <{unicast|broadcast}>]

Parameters :

intf = <{loop|LocalNetwork|Internet}>

An IP interface name.

[mtu = <number{ 68-65535 }>]

The maximum packet size (including IP header) to use on this interface.

[status = <{down|up}>]

The administrative state of the interface.

[hwaddr = <hardware-address>]

The hardware address (e.g. Ethernet MAC address) of this interface.

[group = <{wan|local|lan|tunnel|dmz|guest} or number>]

The group this interface belongs to. Can be used by e.g. firewalling.

[linksensing = <{disabled|enabled}>]

The IP interface's awareness of link state transitions.

[primary = <{disabled|enabled}>]

Make the IP interface the primary interface.

[mcastpromisc = <{disabled|enabled}>]

Make the IP interface multicast promiscuous.

[symmetric = <{disabled|enabled}>]

The routing mode of the IP interface.

[arprobe = <{unicast|broadcast}>]

The ARP mode of the interface.

ip ifdelete

Delete an IP interface.

Syntax : ifdelete intf = <{LocalNetwork|Internet}>



Parameters :

intf = <{LocalNetwork|Internet}>  
An IP interface name.

ip ifdetach

Detach an IP interface.

Syntax : ifdetach intf = <{loop|LocalNetwork|Internet}>

Parameters :

intf = <{loop|LocalNetwork|Internet}>  
An IP interface name.

ip iflist

Display all IP interfaces.

Syntax : iflist [expand = <{disabled|enabled}>]  
[legend = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]  
Expanded listing.  
[legend = <{disabled|enabled}>]  
Expanded Legend listing.

ip ifwait

Wait for a status change of an IP interface.

Syntax : ifwait intf = <{loop|LocalNetwork|Internet}>  
[timeout = <number{ 1-600000}>] [adminstatus = <{down|up}>]  
[operstatus = <{down|up}>] [linkstatus = <{down|up}>]

Parameters :

intf = <{loop|LocalNetwork|Internet}>  
An IP interface name.  
[timeout = <number{ 1-600000}>]  
The timeout in seconds.  
[adminstatus = <{down|up}>]  
The administrative state of the interface.  
[operstatus = <{down|up}>]  
The operational state of the interface.  
[linkstatus = <{down|up}>]  
The link state of the interface.

ip ipadd

Assign an IP address to an IP interface.

Syntax : ipadd intf = <{loop|LocalNetwork|Internet}> addr = <ip-address>  
[netmask = <ip-mask(dotted or cidr)>]  
[pointopoint = <ip-address>] [addroute = <{disabled|enabled}>]

Parameters :

intf = <{loop|LocalNetwork|Internet}>  
The IP interface name.  
addr = <ip-address>  
The new IP address to add.  
[netmask = <ip-mask(dotted or cidr)>]  
The subnetmask associated with this address.  
[pointopoint = <ip-address>]  
The remote address in case of a point-to-point link.  
[addroute = <{disabled|enabled}>]

Add typical net/subnet routes automatically.

#### ip ipconfig

Modify an IP address configuration.

Syntax : ipconfig addr = <ip-address> [preferred = <{disabled|enabled}>]  
[primary = <{disabled|enabled}>]

Parameters :

addr = <ip-address>

The IP address to configure.

[preferred = <{disabled|enabled}>]

Make IP address the preferred address for that subnet.

[primary = <{disabled|enabled}>]

Make IP address the primary address for the interface.

#### ip ipdelete

Remove an IP address from an IP interface.

Syntax : ipdelete addr = <ip-address>

Parameters :

addr = <ip-address>

The IP address to delete.

#### ip iplist

Display all configured IP addresses.

Syntax : iplist

#### ip mcast

Following commands are available :

rtadd : Add a multicast route to the multicast routing table.

rtdelete : Delete a multicast route from the multicast routing table.

rtlist : Display the multicast routing table.

flush : Flush the multicast routing table.

#### ip mcast flush

Flush the multicast routing table.

Syntax : flush

#### ip mcast rtadd

Add a multicast route to the multicast routing table.

Syntax : rtadd srcintf = <{loop|LocalNetwork|Internet}> [src = <ip-address>]

grp = <ip-address> dstintf = <{loop|LocalNetwork|Internet}>

[ttl = <number{1-255}>] [ttlincr = <{disabled|enabled}>]

Parameters :

srcintf = <{loop|LocalNetwork|Internet}>

The source IP interface.

[src = <ip-address>]

The source IP address.

grp = <ip-address>

The multicast group IP address.

dstintf = <{loop|LocalNetwork|Internet}>

The destination IP interface.

[ttl = <number{1-255}>]

The time-to-live for that destination IP interface.

[ttlincr = <{disabled|enabled}>]

Increment TTL before packet is send.

ip mcast rtdelete

Delete a multicast route from the multicast routing table.

Syntax : rtdelete srcintf = <{loop|LocalNetwork|Internet}>  
[src = <ip-address>] grp = <ip-address>  
dstintf = <{loop|LocalNetwork|Internet}>

Parameters :

srcintf = <{loop|LocalNetwork|Internet}>

The source IP interface.

[src = <ip-address>]

The source IP address.

grp = <ip-address>

The multicast group IP address.

dstintf = <{loop|LocalNetwork|Internet}>

The destination IP interface.

ip mcast rtlist

Display the multicast routing table.

Syntax : rtlist [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

ip rtadd

Add a route to the routing table.

Syntax : rtadd dst = <ip-address> [dstmsk = <ip-mask(dotted or cidr)>]  
[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]  
[gateway = <ip-address>]  
[intf = <{loop|LocalNetwork|Internet}>]  
[srcintf = <{loop|LocalNetwork|Internet}>]  
[static = <{enabled|disabled}>] [status = <{up|down}>]  
[metric = <number{0-255}>]

Parameters :

dst = <ip-address>

The destination IP address(es) using this route. Supports ip/mask notation.

[dstmsk = <ip-mask(dotted or cidr)>]

The destination IP address mask.

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of a label.

[gateway = <ip-address>]

The IP address of the next hop (direct connected gateway or extended route)

[intf = <{loop|LocalNetwork|Internet}>]

Only for special interface routes : the outgoing IP interface name.

[srcintf = <{loop|LocalNetwork|Internet}>]

Use this interface for source address selection.

[static = <{enabled|disabled}>]

Route persistency: static or dynamic (note that not all routes can be changed).

[status = <{up|down}>]

The administrative state of the route.

[metric = <number{0-255}>]

The metric for this route (weight factor).

#### ip rtconfig

Modify a route of the routing table.

```
Syntax : rtconfig dst = <ip-address> [dstmsk = <ip-mask(dotted or cidr)>]
        [label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|
        VoIP-Signal|default}>]
        [gateway = <ip-address>]
        [intf = <{loop|LocalNetwork|Internet}>]
        [srcintf = <{loop|LocalNetwork|Internet|None}>]
        [static = <{disabled|enabled}>] [status = <{down|up}>]
        [metric = <number{0-255}>]
```

Parameters :

dst = <ip-address>

The destination IP address(es) using this route. Supports ip/mask notation.

[dstmsk = <ip-mask(dotted or cidr)>]

The destination IP address mask.

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of a label.

[gateway = <ip-address>]

The IP address of the next hop (direct connected gateway or extended route)

[intf = <{loop|LocalNetwork|Internet}>]

Only for special interface routes : the outgoing IP interface name.

[srcintf = <{loop|LocalNetwork|Internet|None}>]

Use this interface for source address selection.

[static = <{disabled|enabled}>]

Route persistency: static or dynamic (note that not all routes can be changed).

[status = <{down|up}>]

The administrative state of the route.

[metric = <number{0-255}>]

The metric for this route (weight factor).

#### ip rtdelete

Delete a route from the routing table.

```
Syntax : rtdelete dst = <ip-address> [dstmsk = <ip-mask(dotted or cidr)>]
        [label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|
        VoIP-Signal|default}>]
        [gateway = <ip-address>]
        [intf = <{loop|LocalNetwork|Internet}>]
```

Parameters :

dst = <ip-address>

The destination IP address specification of the route to delete. Supports ip/mask notation.

[dstmsk = <ip-mask(dotted or cidr)>]

The destination IP address mask.

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of a label.

[gateway = <ip-address>]

The IP address of the next hop.

[intf = <{loop|LocalNetwork|Internet}>]

The outgoing IP interface name. (For special interface routes only).

#### ip rtlist

Display the routing table.

Syntax : rtlist [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

#### ipqos

Following commands are available :

config : Modify the IP QoS configuration for a given destination of an interface.

list : Display the IP QoS configuration.

Following command groups are available :

ef meter queue

#### ipqos config

Modify the IP QoS configuration for a given destination of an interface.

Syntax : config dest = <{ }> [state = <{disabled|enabled}>]

[discard = <{tail|early}>] [priority = <{wfq|strict|wrr}>]

[realtime = <number{1-100}>] [burstsize = <number{1-64}>]

[weight1 = <number{1-97}>] [weight2 = <number{1-97}>]

[weight3 = <number{1-97}>] [weight4 = <number{1-97}>]

[maxpackets = <number{0-500}>] [maxbytes = <number{0-512}>]

Parameters :

dest = <{ }>

The destination of the interface. Typically, a phonebook entry.

[state = <{disabled|enabled}>]

Enable, disable IP QoS for the interface.

[discard = <{tail|early}>]

The packet discard strategy in case of congestion.

[priority = <{wfq|strict|wrr}>]

The subqueue priority algorithm.

[realtime = <number{1-100}>]

The percentage of the bandwidth.

[burstsize = <number{1-64}>]

Burstsize in kilo bytes (KB).

[weight1 = <number{1-97}>]

The weight of queue 1 used for weighted fair queueing (WFQ) or weighted round robin (WRR).

[weight2 = <number{1-97}>]

The weight of queue 2 used for weighted fair queueing (WFQ) or weighted round robin (WRR).

[weight3 = <number{1-97}>]

The weight of queue 3 used for weighted fair queueing (WFQ) or weighted round robin (WRR).

[weight4 = <number{1-97}>]

The weight of queue 4 used for weighted fair queueing (WFQ) or weighted round robin (WRR).

[maxpackets = <number{0-500}>]

The maximum number of packets in all queues.

[maxbytes = <number{0-512}>]

The maximum size in kilo bytes (KB) in all queues.

ipqos ef

Following commands are available :

config : Modify an IP QoS EF timer configuration for an interface.

list : Display the IP QoS EF timers.

stats : Display the IP QoS EF timer statistics.

ipqos ef config

Modify an IP QoS EF timer configuration for an interface.

Syntax : config intf = <{loop|LocalNetwork|Internet}>

[state = <{disabled|enabled}>]

[timeout = <number{100-10000}>] [mtu = <number{68-65535}>]

Parameters :

intf = <{loop|LocalNetwork|Internet}>

The IP interface name.

[state = <{disabled|enabled}>]

Enable, disable IP QoS EF timer for the interface.

[timeout = <number{100-10000}>]

The timeout in mili seconds.

[mtu = <number{68-65535}>]

The MTU of the IP interface in case of EF data.

ipqos ef list

Display the IP QoS EF timers.

Syntax : list

ipqos ef stats

Display the IP QoS EF timer statistics.

Syntax : stats

ipqos list

Display the IP QoS configuration.

Syntax : list

ipqos meter

Following commands are available :

add : Add an IP QoS meter.

config : Modify an IP QoS meter configuration.

delete : Delete an IP QoS meter.

list : Display the IP QoS meters.

start : Start an IP QoS meter.

stop : Stop an IP QoS meter.

flush : Flush all IP QoS meters.

stats : Display the IP QoS meter statistics.

clear : Clear the IP QoS meter statistics.

ipqos meter add

Add an IP QoS meter.

Syntax : add name = <string>

Parameters :

name = <string>

The name of the IP QoS meter.

ipqos meter clear

Clear the IP QoS meter statistics.

Syntax : clear

ipqos meter config

Modify an IP QoS meter configuration.

Syntax : config name = <{ }>

[label = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

[intf = <{loop|LocalNetwork|Internet}>]

[droprate = <number{0-102400}>]

[markrate = <number{0-102400}>] [burst = <number{0-64}>]

[dropaction = <{count|drop}>] [markaction = <{count|mark}>]

[tosmarking = <{disabled|enabled}>] [tos = <number{0-255}>]

[dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

[precedence = <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|internetwork-control|network-control} or number>]

[classification = <{decrease|overwrite|ignore|offset}>]

[class = <number{0-15}>]

Parameters :

name = <{ }>

The name of the IP QoS meter.

[label = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of the label.

[intf = <{loop|LocalNetwork|Internet}>]

The name of the interface.

[droprate = <number{0-102400}>]

The drop rate in kilo bits per second (Kbps).

[markrate = <number{0-102400}>]

The mark rate in kilo bits per second (Kbps).

[burst = <number{0-64}>]

The burst size in kilo bytes (KB).

[dropaction = <{count|drop}>]

The drop action.

[markaction = <{count|mark}>]

The mark action.

[tosmarking = <{disabled|enabled}>]

Enable tos marking for marked packets.

[tos = <number{0-255}>]

The type of service used for tos marking.

[dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

The diffserv code point (part of tos, used for tos-marking).

[precedence = <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|internetwork-control|network-control} or number>]

The precedence (part of tos, used for tos-marking).

[classification = <{decrease|overwrite|ignore|offset}>]

The type of classification for marked packets.

[class = <number{0-15}>]

The class or offset used for classification.

ipqos meter delete

Delete an IP QoS meter.

Syntax : delete name = <{ }>

Parameters :

name = <{ }>

The name of the IP QoS meter.

ipqos meter flush

Flush all IP QoS meters.

Syntax : flush

ipqos meter list

Display the IP QoS meters.

Syntax : list

ipqos meter start

Start an IP QoS meter.

Syntax : start name = <{ }>

Parameters :

name = <{ }>

The name of the stopped IP QoS meter.

ipqos meter stats

Display the IP QoS meter statistics.

Syntax : stats

ipqos meter stop

Stop an IP QoS meter.

Syntax : stop name = <{ }>

Parameters :

name = <{ }>

The name of the started IP QoS meter.

ipqos queue

Following commands are available :

config : Modify the IP QoS subqueue configuration.

list : Display the IP QoS subqueue configuration.

stats : Display the IP QoS subqueue statistics.

clear : Clear the IP QoS statistics.

ipqos queue clear

Clear the IP QoS statistics.

Syntax : clear

ipqos queue config

Modify the IP QoS subqueue configuration.

Syntax : config dest = <{ }> queue = <number{0-5}>

[propagate = <{disabled|enabled}>]

[ecnmarking = <{disabled|enabled}>]

[ackfiltering = <{disabled|enabled}>]

[maxpackets = <number{0-500}>] [maxbytes = <number{0-512}>]

[respackets = <number{0-500}>] [resbytes = <number{0-512}>]

[hold = <number>] [markprob = <number{1-1000}>]

Parameters :

dest = <{ }>

The destination of the interface. Typically, a phonebook entry.

queue = <number{0-5}>

The number of the subqueue.

[propagate = <{disabled|enabled}>]

Propagate the packets in lower priority queue iso. dropping.



[ecnmarking = <{disabled|enabled}>]

Enable Explicit Congestion Notification for IP packets in this subqueue.

[ackfiltering = <{disabled|enabled}>]

Enable filtering of TCP ACK packets.

[maxpackets = <number{0-500}>]

The maximum number of packets in the subqueue.

[maxbytes = <number{0-512}>]

The maximum subqueue size in kilo bytes (KB).

[respackets = <number{0-500}>]

The reserved number of packets in the subqueue.

[resbytes = <number{0-512}>]

The reserved subqueue size in kilo bytes (KB).

[hold = <number>]

The hold time in microseconds for early discard strategy.

[markprob = <number{1-1000}>]

The maximum packet marking probability in parts per mille for early discard strategy.

ipqos queue list

Display the IP QoS subqueue configuration.

Syntax : list [dest = <{ }>]

Parameters :

[dest = <{ }>]

The destination of the interface. Typically, a phonebook entry.

ipqos queue stats

Display the IP QoS subqueue statistics.

Syntax : stats [dest = <{ }>]

Parameters :

[dest = <{ }>]

The destination of the interface. Typically, a phonebook entry.

koa

Following commands are available :

a : Add atomic object key information

koa a

Add atomic object key information

Syntax : a d = <string> [l = <{no|yes}>]

Parameters :

d = <string>

Data blob

[l = <{no|yes}>]

Last line in koi list

koi

Following commands are available :

a : Add igd object key information

koi a

Add igd object key information

Syntax : a d = <string> [l = <{no|yes}>]

Parameters :

d = <string>

Data blob

[l = <{no|yes}>]

Last line in koi list

kta

Following commands are available :

a : Add atomic type key information

kta a

Add atomic type key information

Syntax : a d = <string> [l = <{no|yes}>]

Parameters :

d = <string>

Data blob

[l = <{no|yes}>]

Last line in koi list

kti

Following commands are available :

a : Add igd type key information

kti a

Add igd type key information

Syntax : a d = <string> [l = <{no|yes}>]

Parameters :

d = <string>

Data blob

[l = <{no|yes}>]

Last line in koi list

label

Following commands are available :

add : Add a label.

modify : Modify a label configuration.

delete : Delete a label.

list : Display the labels.

flush : Flush all label.

Following command groups are available :

chain rule

label add

Add a label.

Syntax : add name = <string>

Parameters :

name = <string>

The name of a label to add.

## label chain

Following commands are available :

add : Add a chain.  
delete : Delete a chain.  
list : Display a list of chains.  
flush : Flush all chains.

### label chain add

Add a chain.

Syntax : add chain = <string>

Parameters :

chain = <string>  
The name of the chain to add.

### label chain delete

Delete a chain.

Syntax : delete chain = <chain name>

Parameters :

chain = <chain name>  
The name of the chain to delete.

### label chain flush

Flush all chains.

Syntax : flush

### label chain list

Display a list of chains.

Syntax : list [format = <{pretty|cli}>]

Parameters :

[format = <{pretty|cli}>]  
The format of the chain list.

### label chain modify

Modify a chain.

Syntax : modify chain = <chain name>

Parameters :

chain = <chain name>  
The name of the chain to modify.

### label delete

Delete a label.

Syntax : delete name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>

Parameters :

name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>  
The name of a label.

### label flush

Flush all label.

Syntax : flush

### label list

Display the labels.

Syntax : list [name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

Parameters :

[name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of a label.

label modify

Modify a label configuration.

Syntax : modify name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>

[classification = <{ignore|overwrite|increase}>]

[defclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|dscp|default}>]

[ackclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|prioritize|defclass}>]

[bidirectional = <{disabled|enabled}>]

[inheritance = <{disabled|enabled}>]

[tosmarking = <{disabled|enabled}>] [tos = <number{0-255}>]

[dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

[precedence = <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|internetwork-control|network-control} or number>]

[trace = <{disabled|enabled}>]

Parameters :

name = <{DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>

The name of a label to modify.

[classification = <{ignore|overwrite|increase}>]

The Method of classification.

[defclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|dscp|default}>]

The default class of assigned connection.

[ackclass = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|prioritize|defclass}>]

The class of ACK segments of TCP connection.

[bidirectional = <{disabled|enabled}>]

The label is also valid for returning stream.

[inheritance = <{disabled|enabled}>]

The label is also valid for corresponding stream of child connection.

[tosmarking = <{disabled|enabled}>]

Enable/disable TOS marking.

[tos = <number{0-255}>]

The Type Of Service specification in the IP packet (used for tos-marking).

[dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>]

The diffserv code point (part of tos, used for tos-marking).

[precedence = <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|internetwork-control|network-control} or number>]

The precedence (part of tos, used for tos-marking).

[trace = <{disabled|enabled}>]

Enable/disable IP tracing for this label.

## label rule

Following commands are available :

add : Add a rule.  
delete : Delete a rule.  
modify : Modify a rule.  
list : Display a list of rules.  
flush : Flush all rules.

Following command groups are available :

## debug

### label rule add

Add a rule.

Syntax : add chain = <chain name> [index = <number>] [name = <string>]  
[clink = <chain name>]  
[srcintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]  
[srcip [!]= <{private|ssdp\_ip|mdap\_ip}>]  
[dstip [!]= <{private|ssdp\_ip|mdap\_ip}>]  
[serv [!]= <{icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP}>]  
[log = <{disabled|enabled}>] [state = <{disabled|enabled}>]  
label = <{None|link|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[srcintf [!]= <{wan|local|lan|tunnel|dmz|guest}>]

The name of the source interface expression.

[srcip [!]= <{private|ssdp\_ip|mdap\_ip}>]

The name of the source ip expression.

[dstip [!]= <{private|ssdp\_ip|mdap\_ip}>]

The name of the destination ip expression.

[serv [!]= <{icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP}>]

The name of the service expression.

[log = <{disabled|enabled}>]

Disable/Enable logging when this rule applies.

[state = <{disabled|enabled}>]

Disable/Enable this rule.

label = <{None|link|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>

None, link (when clink is used) or label name.

label rule debug

Following commands are available :

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics.

clear : Clear rule statistics.

label rule debug clear

Clear rule statistics.

Syntax : clear [chain = <chain name>] [index = <number>]

Parameters :

[chain = <chain name>]

The name of the chain.

[index = <number>]

The index of the rule in the chain.

label rule debug stats

Display rule statistics.

Syntax : stats [chain = <chain name>] [index = <number>]

Parameters :

[chain = <chain name>]

The name of the chain.

[index = <number>]

The index of the rule in the chain.

label rule debug traceconfig

Display/Modify rule trace configuration.

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Disable/Enable rule traces.

label rule delete

Delete a rule.

Syntax : delete chain = <chain name> index = <number>

Parameters :

chain = <chain name>

The name of the chain in which to delete the rule.

index = <number>

The number of the rule in the chain.

label rule flush

Flush all rules.

Syntax : flush [chain = <chain name>]

Parameters :

[chain = <chain name>]

The name of the chain to flush.

label rule list

Display a list of rules.

Syntax : list [chain = <chain name>] [format = <{pretty|cli}>]

Parameters :

[chain = <chain name>]

The name of the chain to list the rules of.

[format = <{pretty|cli}>]

The format of the rule list.

label rule modify

Modify a rule.

Syntax : modify chain = <chain name> [index = <number>] [newindex = <number>]

[name = <string>] [clink = <chain name>] [[!]srcintf]

[[!]srcip] [[!]dstip] [[!]serv] [log = <{disabled|enabled}>]

[state = <{disabled|enabled}>]

[label = <{None|link|DSCP|Interactive|Management|Video|VoIP-  
RTP|VoIP-Signal|default}>]

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[newindex = <number>]

The new index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[[!]srcintf]

The name of the source interface expression.

[[!]srcip]

The name of the source ip expression.

[[!]dstip]

The name of the destination ip expression.

[[!]serv]

The name of the service expression.

[log = <{disabled|enabled}>]

Disable/Enable logging when this rule applies.

[state = <{disabled|enabled}>]

Disable/Enable this rule.

[label = <{None|link|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|  
default}>]

None, link (when clink is used) or label name.

language

Following commands are available :

config : Select a language.

list : List available languages archives.

delete : Delete one or all language archives.

language config

Select a language.

Syntax : config [language = <string>] [complete = <{yes|no}>]

Parameters :

[language = <string>]

Language code : OSI language code (2 chars) for language (en=English)

[complete = <{yes|no}>]

Enable translation for expert pages.

language delete

Delete one or all language archives.

Syntax : delete [file = <string>] [all <{yes|no}>]

Parameters :

[file = <string>]

Filename : name of language archive to delete

[all <{yes|no}>]

Deletes all languages archives.

language exclude

Exclude a file from translation

Syntax : exclude file = <string>

Parameters :

file = <string>

Filename : name of file to exclude from translation

language flush

Flush list of files excluded from translation

Syntax : flush

language langdef

Setting language definition context

Syntax : langdef lang = <string>

Parameters :

lang = <string>

Language code : OSI language code (2 chars) for language (en=English)

language list

List available languages archives.

Syntax : list

language t

Add a translation record.

Syntax : t r = <quoted string>

Parameters :

r = <quoted string>

Translation record string "number,text"

mbus

Following commands are available :

listenums : Display the registered enumtypes  
listtypes : Display the registered objecttypes  
listobjects : Display the object instances  
listcontexts : Display the context instances  
listsubscriptions : Display the subscription instances  
pluginevent : Simulate event from plugin  
unregister : Unregister a client/plugin context  
xmldump : Dump the registered datamodel to an XML file

Following command groups are available :



client      debug

    mbus client

Following commands are available :

register      : Register cli client to mbus  
unregister    : Unregister cli client from mbus  
config        : Modify client parameters  
exec         : Execute mbus command  
authenticate  : Authenticate a session  
termssession : Terminate a session

    mbus client authenticate

Authenticate a session

Syntax : authenticate type = <{cleartext|md5|crypt|digest|defaultuser}>  
          [username = <quoted string>] [password = <password>]  
          [addr = <ip-address>]

Parameters :

type = <{cleartext|md5|crypt|digest|defaultuser}>  
Authentication type  
[username = <quoted string>]  
User name  
[password = <password>]  
password  
[addr = <ip-address>]  
IP address of peer who initiated the authentication request.

    mbus client config

Modify client parameters

Syntax : config [writelock = <{enabled|disabled}>] [wlgettimeout = <number>]  
          [wlidletimeout = <number>] [path = <quoted string>]  
          [type = <{indexpath|keystpath}>] [id = <number>]

Parameters :

[writelock = <{enabled|disabled}>]  
Get/release mbus writelock  
[wlgettimeout = <number>]  
Writelock get timeout in seconds (forever=-1, \*default=nowait=0)  
[wldletimeout = <number>]  
Writelock idle timeout in seconds (forever=-1, \*default=30)  
[path = <quoted string>]  
Fully qualified mbus path  
[type = <{indexpath|keystpath}>]  
Path type (default = indexpath)  
[id = <number>]  
sessionid to use

    mbus client exec

Execute mbus command

Syntax : exec cmd = <{getpath|getcount|getnames|getvalues|setvalue|addobject|  
          deleteobject|subscribe|unsubscribe|getaccessrights|  
          setaccessrights}>  
          [param = <quoted string>] [value = <quoted string>]  
          [gettype = <{parameter|path|object}>] [depth = <number>]  
          [processcmd = <{enabled|disabled}>]  
          [onerrorrollback = <{enabled|disabled}>]

```

[usecallback = <{enabled|disabled}>] [filter = <quoted string>]
[path = <quoted string>]
[flags = <[+/-]flag[+/-flag...]{indexpath keystackpath uncommitted
dynamic synchronize sub_addobj sub_delobj sub_update
firstnext xref_localidx xref_keypath exact_depth
noparamvalue applyonparams applyrecursive typetreepath
non_persistent}>]
[accesslist = <quoted string>]
[action = <[+/-]flag[+/-flag...]{read write attrchg}>]
[modifier = <{add|delete|allow_only|allow_except}>]
[replytype = <{getallowed|getdisallowed|getasconfigured}>]
[attribute = <{ar_archg|ar_read|ar_write|param_cached|
param_enums|param_eventable|param_key|param_min|
param_mandatory|param_max|param_readable|param_type|
param_writable|param_xrefs|objtype_cached|
objtype_max|objtype_writable|object_clean|
object_dynamic}>]

```

#### Parameters :

```

cmd = <{getpath|getcount|getnames|getvalues|setvalue|addobject|deleteobject|
subscribe|unsubscribe|getaccessrights|setaccessrights}>

```

Mbus command name

```
[param = <quoted string>]
```

Parameter name

```
[value = <quoted string>]
```

Parameter value to set

```
[gettype = <{parameter|path|object}>]
```

Get type elements (default=param)

```
[depth = <number>]
```

Number of levels to recurse, default=-1 (all)

```
[processcmd = <{enabled|disabled}>]
```

Process SET\_VALUE command flag (default=enabled)

```
[onerrorrollback = <{enabled|disabled}>]
```

on error rollback flag (default=enabled)

```
[usecallback = <{enabled|disabled}>]
```

Use result callback function (default=enabled)

```
[filter = <quoted string>]
```

The filter should be formatted as '(operator operand operand)'. Possible operators are ==, !=, <, <=, >, >=, and, or, not. The left operand is a parameter name. The right operand is a parameter value. For boolean operators the operands are filters. Example: '(== Name eth0)'.

```
[path = <quoted string>]
```

Fully qualified mbus path

```
[flags = <[+/-]flag[+/-flag...]{indexpath keystackpath uncommitted dynamic
synchronize sub_addobj sub_delobj sub_update firstnext
xref_localidx xref_keypath exact_depth noparamvalue applyonparams
applyrecursive typetreepath non_persistent}>]
```

Client command data flags

```
[accesslist = <quoted string>]
```

Comma separated names of accessrights groups

```
[action = <[+/-]flag[+/-flag...]{read write attrchg}>]
```

Type of accessright action

```
[modifier = <{add|delete|allow_only|allow_except}>]
```

Accessrights modifier

```
[replytype = <{getallowed|getdisallowed|getasconfigured}>]
```

Type of accessrights reply

```
[attribute = <{ar_archg|ar_read|ar_write|param_cached|param_enums|
param_eventable|param_key|param_min|param_mandatory|param_max|
param_readable|param_type|param_writable|param_xrefs|
objtype_cached|objtype_max|objtype_writable|object_clean|
object_dynamic}>]
```

Requested attribute-type

mbus client register

Register cli client to mbus

```
Syntax : register [dmtree = <{igd|atomic|system}>]
[type = <{indxpath|keystpath}>]
[dlink = <{local_ipc|remote_inet}>]
[mbusd_addr = <quoted string>]
[refresolv = <{disabled|enabled}>]
[state_events = <{disabled|enabled}>]
```

Parameters :

```
[dmtree = <{igd|atomic|system}>]
Select mbusd datamodel tree.
[type = <{indxpath|keystpath}>]
Path type (default = indxpath)
[dlink = <{local_ipc|remote_inet}>]
Daemon link (default = local_ipc)
[mbusd_addr = <quoted string>]
Daemon address (ip addr for inet)
[refresolv = <{disabled|enabled}>]
Use reference resolving (default=disabled)
[state_events = <{disabled|enabled}>]
Context should be notified when the MBus state changes (default=disabled)
```

mbus client termsession

Terminate a session

```
Syntax : termsession id = <number>
```

Parameters :

```
id = <number>
id of session to terminate
```

mbus client unregister

Unregister cli client from mbus

```
Syntax : unregister
```

mbus debug

Following commands are available :

```
stats          : Display mbus statistics.
clearstats     : Reset mbus statistics.
traceconfig    : Modify mbus trace settings.
loadobjects    : Load/sync object instances from plugins
unloadobjects  : Unload object instances
```

mbus debug clearstats

Reset mbus statistics.

```
Syntax : clearstats
```

mbus debug loadobjects

Load/sync object instances from plugins

```
Syntax : loadobjects [dmtree = <{igd|atomic|system}>]
[path = <quoted string>]
```

[type = <{indexpath|keystpath}>]  
[flush = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]  
Select mbusd datamodel tree.  
[path = <quoted string>]  
Fully qualified mbus path  
[type = <{indexpath|keystpath}>]  
Path type (default = indexpath  
[flush = <{disabled|enabled}>]  
Flush objects before load (default=disabled)

mbus debug stats

Display mbus statistics.

Syntax : stats

mbus debug traceconfig

Modify mbus trace settings.

Syntax : traceconfig [level = <number{0-4}>]

Parameters :

[level = <number{0-4}>]  
Select mbus trace level (0-4).

mbus debug unloadobjects

Unload object instances

Syntax : unloadobjects [dmtree = <{igd|atomic|system}>]  
[path = <quoted string>]  
[type = <{indexpath|keystpath}>]  
[flush = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]  
Select mbusd datamodel tree.  
[path = <quoted string>]  
Fully qualified mbus path  
[type = <{indexpath|keystpath}>]  
Path type  
[flush = <{disabled|enabled}>]  
Flush objects before load (default=disabled)

mbus listcontexts

Display the context instances

Syntax : listcontexts [dmtree = <{igd|atomic|system}>]  
[expand = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]  
Select mbusd datamodel tree.  
[expand = <{disabled|enabled}>]  
Details enabled/disabled

mbus listenums

Display the registered enumtypes

Syntax : listenums [dmtree = <{igd|atomic|system}>] [name = <quoted string>]  
[expand = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]

Select mbusd datamodel tree.

[name = <quoted string>]

Filter enumtypes by (part of) the name

[expand = <{disabled|enabled}>]

Details enabled/disabled

mbus listobjects

Display the object instances

Syntax : listobjects [dmtree = <{igd|atomic|system}>]

[path = <quoted string>]

[type = <{indxpath|keystpath}>]

[output = <{tree|list}>]

[showflags = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]

Select mbusd datamodel tree.

[path = <quoted string>]

Fully qualified mbus path to list.

[type = <{indxpath|keystpath}>]

Path type (default = indxpath)

[output = <{tree|list}>]

List output type

[showflags = <{disabled|enabled}>]

Display object flags (Clean or Dirty / Persistent or Volatile)

mbus listsubscriptions

Display the subscription instances

Syntax : listsubscriptions [dmtree = <{igd|atomic|system}>]

Parameters :

[dmtree = <{igd|atomic|system}>]

Select mbusd datamodel tree.

mbus listtypes

Display the registered objecttypes

Syntax : listtypes [dmtree = <{igd|atomic|system}>] [path = <quoted string>]

[expand = <{disabled|enabled}>]

Parameters :

[dmtree = <{igd|atomic|system}>]

Select mbusd datamodel tree.

[path = <quoted string>]

Fully qualified mbus path to list.

[expand = <{disabled|enabled}>]

Details enabled/disabled

mbus pluginevent

Simulate event from plugin

Syntax : pluginevent ctxid = <number> type = <{addobj|delobj|updobj}>

path = <quoted string> [name = <quoted string>]

[value = <quoted string>] [orivalue = <quoted string>]

[flags = <[+/-]flag[+/-flag...]{dynamic save}>]

Parameters :

ctxid = <number>  
Plugin context id  
type = <{addobj|delobj|updobj}>  
Event type  
path = <quoted string>  
Plugin event subpath  
[name = <quoted string>]  
Plugin event name  
[value = <quoted string>]  
Plugin event value  
[orivalue = <quoted string>]  
Plugin event orivalue  
[flags = <[+/-]flag[+/-flag...]{dynamic save}>]  
Plug-in event flags

**mbus unregister**  
Unregister a client/plugin context  
Syntax : unregister id = <number>

Parameters :  
id = <number>  
Select message-based client/plugin context id.

**mbus xmldump**  
Dump the registered datamodel to an XML file  
Syntax : xmldump filename = <string> [format = <{unix|mac|windows}>]

Parameters :  
filename = <string>  
Filename.  
[format = <{unix|mac|windows}>]  
Select output file format.

**memm**  
Following commands are available :

stats : Display memm statistics.  
listobjects : Display objects.

Following command groups are available :

**debug**

**memm debug**  
Following commands are available :

stats : Display memm time statistics.  
clearstats : Clear time statistics.  
traceconfig : Modify memm trace settings.  
tag : (Un)tag memory manager objects.

Following command groups are available :

**lock**

**memm debug clearstats**  
Clear time statistics.

Syntax : clearstats

memm debug lock

Following commands are available :

stats : Display lock statistics.

traceconfig : Modify lock trace settings.

memm debug lock stats

Display lock statistics.

Syntax : stats

memm debug lock traceconfig

Modify lock trace settings.

Syntax : traceconfig [level = <number{0-4}>] [name = <string>]

Parameters :

[level = <number{0-4}>]

Select memm trace level (0-4).

[name = <string>]

application name filter for lock traces (empty displays all lock traces)

memm debug stats

Display memm time statistics.

Syntax : stats [name = <quoted string>]

Parameters :

[name = <quoted string>]

Select typename(s) to list (supports partial typename)

memm debug tag

(Un)tag memory manager objects.

Syntax : tag [name = <quoted string>] [tag = <{enabled|disabled}>]

Parameters :

[name = <quoted string>]

Select typename(s) to list (supports partial typename)

[tag = <{enabled|disabled}>]

Set (or unset) the tag

memm debug traceconfig

Modify memm trace settings.

Syntax : traceconfig [level = <number{0-4}>]

Parameters :

[level = <number{0-4}>]

Select memm trace level (0-4).

memm listobjects

Display objects.

Syntax : listobjects [name = <quoted string>] [tagged = <{no|yes}>]

[hidedeldynstr = <{no|yes}>]

Parameters :

[name = <quoted string>]

Select typename(s) to list (supports partial typename)

[tagged = <{no|yes}>]

Show only tagged (yes) or untagged (no) objects

[hidedeldynstr = <{no|yes}>]

Hide (yes) / show (no) deleted dynstrings (default = show)

#### memm stats

Display memm statistics.

Syntax : stats [name = <quoted string>]

Parameters :

[name = <quoted string>]

Select typename(s) to list (supports partial typename)

#### mlp

Following commands are available :

import : Import all scores.

flush : Flush all mlp structures.

Following command groups are available :

debug privilege role

#### mlp debug

Following commands are available :

export : Export all scores.

stats : Display mlp statistics.

traceconfig : Modify mlp trace settings.

#### mlp debug export

Export all scores.

Syntax : export

#### mlp debug stats

Display mlp statistics.

Syntax : stats

#### mlp debug traceconfig

Modify mlp trace settings.

Syntax : traceconfig [trace = <{ disabled|enabled|full }>]

Parameters :

[trace = <{ disabled|enabled|full }>]

Select mlp trace level.

#### mlp flush

Flush all mlp structures.

Syntax : flush

#### mlp import

Import all scores.

Syntax : import [trace = <{ disabled|enabled|full }>]

Parameters :

[trace = <{ disabled|enabled|full }>]

Select import trace level.

#### mlp interaction

Following commands are available :

list : Display the interactions.

config : Display/Modify the interaction score.



**addzone** : Add the zone to the interaction score.  
**removezone** : Remove the zone from interaction score.

#### mlp interaction addzone

Add the zone to the interaction score.

Syntax : **addzone** name = <quoted string> type = <{cli|cgi|file|mdap|ftp}>  
zone = <> [scorenr = <number{1-2}>]

Parameters :

name = <quoted string>

Select the interaction name.

type = <{cli|cgi|file|mdap|ftp}>

Select the interaction type.

zone = <>

Zone to add.

[scorenr = <number{1-2}>]

Select score number to change.

#### mlp interaction config

Display/Modify the interaction score.

Syntax : **config** name = <quoted string> [type = <{cli|cgi|file|mdap|ftp}\*>]  
[score = <{hex-word}[:{hex-word}] ex: 'a12:c30f']  
[score2 = <{hex-word}[:{hex-word}] ex: 'a12:c30f']  
[verbose = <{minimal|medium|all}>]  
[recurse = <{disabled|enabled}>]

Parameters :

name = <quoted string>

Select the interaction name.

[type = <{cli|cgi|file|mdap|ftp}\*>]

Select the interaction type.

[score = <{hex-word}[:{hex-word}] ex: 'a12:c30f']

Set the score.

[score2 = <{hex-word}[:{hex-word}] ex: 'a12:c30f']

Set the score2.

[verbose = <{minimal|medium|all}>]

Limit the output list.

[recurse = <{disabled|enabled}>]

Recursive config (cli only).

#### mlp interaction list

Display the interactions.

Syntax : **list** [type = <{cli|cgi|file|mdap|ftp}>]  
[verbose = <{minimal|medium|all}>] [name = <quoted string>]

Parameters :

[type = <{cli|cgi|file|mdap|ftp}>]

Select the interaction type.

[verbose = <{minimal|medium|all}>]

Limit the output list.

[name = <quoted string>]

Select a subgroup to list.

#### mlp interaction removezone

Remove the zone from interaction score.

Syntax : **removezone** name = <quoted string> type = <{cli|cgi|file|mdap|ftp}>  
zone = <> [scorenr = <number{1-2}>]

Parameters :

name = <quoted string>

Select the interaction name.

type = <{cli|cgi|file|mdap|ftp}>

Select the interaction type.

zone = <>

Zone to add.

[scorenr = <number{1-2}>]

Select score number to change.

mlp privilege

Following commands are available :

add : Add a privilege.

delete : Delete a privilege.

addzone : Add a zone to a privilege.

removezone : Remove a zone from a privilege.

list : Display the privileges.

config : Modify the privilege.

mlp privilege add

Add a privilege.

Syntax : add name = <string> type = <{access|service}>

[descr = <quoted string>]

Parameters :

name = <string>

Privilege name.

type = <{access|service}>

Privilege type.

[descr = <quoted string>]

Privilege description.

mlp privilege addzone

Add a zone to a privilege.

Syntax : addzone name = <>

zone = <{Read/LAN/WAN/Local|Write/LAN/WAN/Local|r\_lan|r\_wan|  
r\_fs\_view|r\_fs\_retrieve|r\_rtg|r\_fwdg|r\_nat|r\_frwl|  
r\_ipsec\_norm|r\_ipsec\_adv|r\_certificates|r\_remote\_mgnt|  
r\_local|r\_qos|w\_lan|w\_wan|w\_fs\_passive|w\_rtg|w\_fwdg|  
w\_nat|w\_frwl\_norm|w\_frwl\_adv|w\_frwl\_ss|w\_ipsec|  
w\_certificates|w\_remote\_mgnt|w\_local|w\_qos|SND\_lan|  
SND\_wan|SND\_local|AND\_lan|AND\_wan|AND\_frwl|AND\_local|  
User\_Admin|MLP\_Admin|secure\_ipsec\_term|secure\_BR|CLI|  
CGI|FTP|MDAP|secure\_reset|GUI\_advanced|mbus|  
unsecure\_connection|Sensitve\_file|channel\_ftp|  
channel\_telnet|channel\_http|channel\_mdap|  
channel\_serial|origin\_lan|origin\_wan|origin\_local|  
trace}>

Parameters :

name = <>

Privilege name.

zone = <{Read/LAN/WAN/Local|Write/LAN/WAN/Local|r\_lan|r\_wan|r\_fs\_view|

r\_fs\_retrieve|r\_rtg|r\_fwdg|r\_nat|r\_frwl|r\_ipsec\_norm|r\_ipsec\_adv|

r\_certificates|r\_remote\_mgnt|r\_local|r\_qos|w\_lan|w\_wan|w\_fs\_passive|

```
w_rtg|w_fwdg|w_nat|w_frwl_norm|w_frwl_adv|w_frwl_ss|w_ipsec|
w_certificates|w_remote_mgnt|w_local|w_qos|SND_lan|SND_wan|SND_local|
AND_lan|AND_wan|AND_frwl|AND_local|User_Admin|MLP_Admin|
secure_ipsec_term|secure_BR|CLI|CGI|FTP|MDAP|secure_reset|
GUI_advanced|mbus|unsecure_connection|Sensitve_file|channel_ftp|
channel_telnet|channel_http|channel_mdap|channel_serial|origin_lan|
origin_wan|origin_local|trace}>
```

Zone name.

mlp privilege config

Modify the privilege.

Syntax : config name = <> [descr = <quoted string>]  
[score = <{hex-word}[:{hex-word}] ex: 'a12:c30f'>]

Parameters :

name = <>

Select the privilege by name.

[descr = <quoted string>]

Set the description.

[score = <{hex-word}[:{hex-word}] ex: 'a12:c30f'>]

Set the score.

mlp privilege delete

Delete a privilege.

Syntax : delete name = <>

Parameters :

name = <>

Privilege name.

mlp privilege list

Display the privileges.

Syntax : list [name = <>] [type = <{access|service}>]  
[verbose = <{minimal|medium|all}>]

Parameters :

[name = <>]

Privilege name.

[type = <{access|service}>]

Privilege type.

[verbose = <{minimal|medium|all}>]

Limit the output list.

mlp privilege removezone

Remove a zone from a privilege.

Syntax : removezone name = <>

```
zone = <{Read/LAN/WAN/Local|Write/LAN/WAN/Local|r_lan|
r_wan|r_fs_view|r_fs_retrieve|r_rtg|r_fwdg|r_nat|
r_frwl|r_ipsec_norm|r_ipsec_adv|r_certificates|
r_remote_mgnt|r_local|r_qos|w_lan|w_wan|
w_fs_passive|w_rtg|w_fwdg|w_nat|w_frwl_norm|
w_frwl_adv|w_frwl_ss|w_ipsec|w_certificates|
w_remote_mgnt|w_local|w_qos|SND_lan|SND_wan|
SND_local|AND_lan|AND_wan|AND_frwl|AND_local|
User_Admin|MLP_Admin|secure_ipsec_term|secure_BR|
CLI|CGI|FTP|MDAP|secure_reset|GUI_advanced|mbus|
unsecure_connection|Sensitve_file|channel_ftp|
```

```
channel_telnet|channel_http|channel_mdap|
channel_serial|origin_lan|origin_wan|origin_local|
trace}>
```

Parameters :

name = <>

Privilege name.

```
zone = <{Read/LAN/WAN/Local|Write/LAN/WAN/Local|r_lan|r_wan|r_fs_view|
r_fs_retrieve|r_rtg|r_fwdg|r_nat|r_frwl|r_ipsec_norm|r_ipsec_adv|
r_certificates|r_remote_mngt|r_local|r_qos|w_lan|w_wan|w_fs_passive|
w_rtg|w_fwdg|w_nat|w_frwl_norm|w_frwl_adv|w_frwl_ss|w_ipsec|
w_certificates|w_remote_mngt|w_local|w_qos|SND_lan|SND_wan|SND_local|
AND_lan|AND_wan|AND_frwl|AND_local|User_Admin|MLP_Admin|
secure_ipsec_term|secure_BR|CLI|CGI|FTP|MDAP|secure_reset|
GUI_advanced|mbus|unsecure_connection|Sensitive_file|channel_ftp|
channel_telnet|channel_http|channel_mdap|channel_serial|origin_lan|
origin_wan|origin_local|trace}>
```

Zone name.

mlp role

Following commands are available :

add : Add a role.  
delete : Delete a role.  
addpriv : Add a privilege.  
removepriv : Remove a privilege.  
list : Display the roles.  
config : Modify the role.

mlp role add

Add a role.

Syntax : add name = <string> parent = <> [descr = <quoted string>]

Parameters :

name = <string>

Role name.

parent = <>

Parent role name.

[descr = <quoted string>]

Role description.

mlp role addpriv

Add a privilege.

Syntax : addpriv name = <> access = <>

```
service = <{anyservice|SP1|SP10|SP11|SP12|SP13|SP14|SP15|SP16|
SP17|SP18|SP19|SP2|SP3|SP4|SP5|SP6|SP7|SP8|SP9}>
```

Parameters :

```
name = <{ Administrator|LAN_Admin|PowerUser|root|SuperUser|TechnicalSupport|
User|WAN_Admin}>
```

Role name.

```
access = <{anyaccess|AP1|AP2|AP3|AP4|AP5|AP6|AP7|AP8|AP9}>
```

Access privilege to add.

```
service = <{anyservice|SP1|SP10|SP11|SP12|SP13|SP14|SP15|SP16|SP17|SP18|
SP19|SP2|SP3|SP4|SP5|SP6|SP7|SP8|SP9}>
```

Privilege name to add.

mlp role config

Modify the role.

Syntax : config name = <{ Administrator|LAN\_Admin|PowerUser|root|SuperUser|  
TechnicalSupport|User|WAN\_Admin}>  
[parent = <{ Administrator|LAN\_Admin|PowerUser|root|SuperUser|  
TechnicalSupport|User|WAN\_Admin}>]  
[descr = <quoted string>]

Parameters :

name = <>

Role name.

[parent = <>]

Parent role name.

[descr = <quoted string>]

Role description.

mlp role delete

Delete a role.

Syntax : delete name = <>

Parameters :

name = <>

Role name.

mlp role list

Display the roles.

Syntax : list [name = <>] [verbose = <{ minimal|medium|all}>]

Parameters :

[name = <>]

Role name.

[verbose = <{ minimal|medium|all}>]

Limit the output list.

mlp role removepriv

Remove a privilege.

Syntax : removepriv name = <> access = <> [service = <>]

Parameters :

name = <>

Role name.

access = <>

Access privilege to delete.

[service = <>]

Privilege name to delete.

mlp zone

Following commands are available :

add : Add a zone.

delete : Delete a zone.

list : Display zones.

config : Modify a zone.

configintfgroup : Modify interfacegroup zone numbers.

configchannels : Modify channel zone numbers.

configorigin : Modify origin zone numbers.  
configseconn : Modify secure connection zone number.  
configsecfile : Modify secure files zone number.  
configtrace : Modify trace zone number.

#### mlp zone add

Add a zone.

Syntax : add zonenr = <number> name = <string> [descr = <quoted string>]

Parameters :

zonenr = <number>

Zone number

name = <string>

Zone name

[descr = <quoted string>]

Zone description

#### mlp zone config

Modify a zone.

Syntax : config zonenr = <number> [name = <string>] [descr = <quoted string>]

Parameters :

zonenr = <number>

Zone number

[name = <string>]

Zone name

[descr = <quoted string>]

Zone description

#### mlp zone configchannels

Modify channel zone numbers.

Syntax : configchannels [ftp = <number>] [telnet = <number>]  
[http = <number>] [mdap = <number>]  
[serial = <number>]

Parameters :

[ftp = <number>]

Ftp application zone number

[telnet = <number>]

Telnet application zone number

[http = <number>]

Http application zone number

[mdap = <number>]

Mdap application zone number

[serial = <number>]

Serial application zone number

#### mlp zone configintfgroup

Modify interfacegroup zone numbers.

Syntax : configintfgroup [rw = <{read|write}>] [target = <number>]  
[lan = <number>] [wan = <number>] [local = <number>]

Parameters :

[rw = <{read|write}>]

Read/write config action

[target = <number>]

Target dynamic zone number

[lan = <number>  
Lan zone number  
[wan = <number>  
Wan zone number  
[local = <number>  
Local zone number

mlp zone configorigin  
Modify origin zone numbers.  
Syntax : configorigin [lan = <number>] [wan = <number>] [local = <number>]

Parameters :  
[lan = <number>  
Lan origin zone number  
[wan = <number>  
Wan origin zone number  
[local = <number>  
Local origin zone number

mlp zone configseconn  
Modify secure connection zone number.  
Syntax : configseconn [zonenr = <number>]

Parameters :  
[zonenr = <number>  
Secure connection zone number

mlp zone configsecfile  
Modify secure files zone number.  
Syntax : configsecfile [zonenr = <number>]

Parameters :  
[zonenr = <number>  
Secure files zone number

mlp zone configtrace  
Modify trace zone number.  
Syntax : configtrace [zonenr = <number>]

Parameters :  
[zonenr = <number>  
Trace zone number

mlp zone delete  
Delete a zone.  
Syntax : delete name = <>

Parameters :  
name = <>  
Zone name

mlp zone list  
Display zones.  
Syntax : list

nat  
Following commands are available :

**ifconfig** : Modify address translation on an IP interface.  
**iflist** : Display all interfaces.  
**mapadd** : Add an address mapping to a nat enabled interface.  
**mapdelete** : Delete an address mapping from a nat enabled interface.  
**maplist** : Display address mappings.  
**tmpladd** : Add an address mapping template.  
**tmpldelete** : Delete an address mapping template.  
**tmplist** : Display address mapping templates.  
**tmplinst** : Instantiate address mapping templates for a given dynamic address.  
**config** : Modify global NAT configuration.  
**flush** : Flush current NAT configuration.

**nat config**  
Modify global NAT configuration.  
Syntax : config [trace = <{disabled|enabled}>]

Parameters :  
[trace = <{disabled|enabled}>]  
Enable/disable traces.

**nat flush**  
Flush current NAT configuration.  
Syntax : flush

**nat ifconfig**  
Modify address translation on an IP interface.  
Syntax : ifconfig intf = <{loop|LocalNetwork|Internet}>  
translation = <{disabled|enabled|transparent}>

Parameters :  
intf = <{loop|LocalNetwork|Internet}>  
The IP interface name.  
translation = <{disabled|enabled|transparent}>  
Disabled, enabled or transparent address translation.

**nat iflist**  
Display all interfaces.  
Syntax : iflist

**nat mapadd**  
Add an address mapping to a nat enabled interface.  
Syntax : mapadd intf = <{loop|LocalNetwork|Internet}> [type = <{napt|nat}>]  
[outside\_addr = <ip-range>] [inside\_addr = <ip-range>]  
[access\_list = <ip-range>] [foreign\_addr = <ip-range>]  
[protocol = <{ah|egp|esp|gpp|gre|hmp|icmp|igmp|pup|rdp|rsvp|  
tcp|udp|vines|xns-idp|6to4|ipip} or number>]  
[outside\_port = <port-range>] [inside\_port = <port-range>]  
[mode = <{auto|inbound|outbound}>] [weight = <number{0-255}>]

Parameters :  
intf = <{loop|LocalNetwork|Internet}>  
The IP interface name.  
[type = <{napt|nat}>]  
The type of mapping.  
[outside\_addr = <ip-range>]  
The outside (typically public) IP address (range for NAT).  
[inside\_addr = <ip-range>]  
The inside (typically private) IP address (range for NAT).



[access\_list = <ip-range>]

The range of inside addresses the mapping is restricted to.

[foreign\_addr = <ip-range>]

The range of destination addresses the mapping is restricted to.

[protocol = <{ah|egp|esp|ggp|gre|hmp|icmp|igmp|pup|rdp|rsvp|tcp|udp|vines|  
xns-idp|6to4|ipip} or number>]

The IP protocol.

[outside\_port = <port-range>]

The outside port number or range (only for NAT).

[inside\_port = <port-range>]

The inside port number or range (only for NAT).

[mode = <{auto|inbound|outbound}>]

The mode to create the portmap.

[weight = <number{0-255}>]

The weight for the portmap.

nat mapdelete

Delete an address mapping from a nat enabled interface.

Syntax : mapdelete intf = <{loop|LocalNetwork|Internet}> index = <number>

Parameters :

intf = <{loop|LocalNetwork|Internet}>

The IP interface name.

index = <number>

The map index as listed by ':nat maplist'.

nat maplist

Display address mappings.

Syntax : maplist [intf = <{loop|LocalNetwork|Internet}>]  
[expand = <{disabled|enabled}>]

Parameters :

[intf = <{loop|LocalNetwork|Internet}>]

The IP interface name.

[expand = <{disabled|enabled}>]

Expanded listing.

nat tmladd

Add an address mapping template.

Syntax : tmladd [intf = <{loop|LocalNetwork|Internet}>]  
[group = <{wan|local|lan|tunnel|dmz|guest} or number>]  
[timeout = <number{0-65535}>] [type = <{napt|nat}>]  
outside\_addr = <ip-range> [inside\_addr = <ip-range>]  
[access\_list = <ip-range>] [foreign\_addr = <ip-range>]  
[protocol = <{ah|egp|esp|ggp|gre|hmp|icmp|igmp|pup|rdp|rsvp|  
tcp|udp|vines|xns-idp|6to4|ipip} or number>]  
[outside\_port = <port-range>] [inside\_port = <port-range>]  
[mode = <{auto|inbound|outbound}>]  
[weight = <number{0-255}>]

Parameters :

[intf = <{loop|LocalNetwork|Internet}>]

The IP interface name scope for this template.

[group = <{wan|local|lan|tunnel|dmz|guest} or number>]

The IP interface group scope for this template.

[timeout = <number{0-65535}>]

Lifetime (seconds) for this template.

[type = <{napt|nat}>]

The type of template.

outside\_addr = <ip-range>

The outside (typically public) IP address or index (range for NAT).

[inside\_addr = <ip-range>]

The inside (typically private) IP address or index (range for NAT).

[access\_list = <ip-range>]

The range of inside addresses the template is restricted to.

[foreign\_addr = <ip-range>]

The range of destination addresses the template is restricted to.

[protocol = <{ah|egp|esp|ggp|gre|hmp|icmp|igmp|pup|rdp|rsvp|tcp|udp|vines|  
xns-idp|6to4|ipip}> or number>]

The IP protocol.

[outside\_port = <port-range>]

The outside port number or range (only for NAPT).

[inside\_port = <port-range>]

The inside port number or range (only for NAPT).

[mode = <{auto|inbound|outbound}>]

The mode to create the portmap.

[weight = <number{0-255}>]

The weight to be used for the template instance(s).

nat tmpldelete

Delete an address mapping template.

Syntax : tmpldelete index = <number>

Parameters :

index = <number>

The template index as listed by 'nat tmpllist'.

nat tmplinst

Instantiate address mapping templates for a given dynamic address.

Syntax : tmplinst intf = <{loop|LocalNetwork|Internet}>  
addr\_index = <ip-address> dynamic\_addr = <ip-address>

Parameters :

intf = <{loop|LocalNetwork|Internet}>

The IP interface name.

addr\_index = <ip-address>

The outside IP address index/key to instantiate for.

dynamic\_addr = <ip-address>

The dynamic address to substitute the index/key with.

nat tmpllist

Display address mapping templates.

Syntax : tmpllist [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Expanded listing.

ppp

Following commands are available :

ifadd : Create a new PPP interface.

ifdelete : Delete a PPP interface.

ifattach : Attach a PPP interface.

ifscan : Scan a PPP interface for available interfaces.  
ifdetach : Detach a PPP interface.  
ifconfig : Modify a PPP interface.  
iflist : Display the PPP interfaces.  
rtadd : Add a route to the routing table when PPP link comes up.  
rtdelete : Delete the route for a PPP link.  
flush : Flush all PPP interfaces.

Following command groups are available :

relay

ppp flush  
Flush all PPP interfaces.

Syntax : flush

ppp ifadd  
Create a new PPP interface.  
Syntax : ifadd intf = <string>

Parameters :

intf = <string>

The name for the new PPP interface. If not specified, the destination will double as interface name.

ppp ifattach  
Attach a PPP interface.  
Syntax : ifattach intf = <{ }>

Parameters :

intf = <{ }>

The name of the PPP interface.

ppp ifconfig  
Modify a PPP interface.

Syntax : ifconfig intf = <{ }> [dest = <{bridge|RELAY|eth\_wan}>]  
[emptyauth = <{disabled|enabled}>] [user = <string>]  
[password = <password>] [acname = <quoted string>]  
[servicename = <quoted string>]  
[class = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15}>]  
[pool = <{none}>] [pcomp = <{disabled|enabled}>]  
[accomp = <{enabled|disabled|negotiate}>]  
[trace = <{disabled|enabled}>]  
[concentrator = <{disabled|enabled}>]  
[auth = <{pap|chap|auto}>] [restart = <{disabled|enabled}>]  
[retryinterval = <number{0-65535}>]  
[passive = <{disabled|enabled}>]  
[silent = <{disabled|enabled}>]  
[echo = <{disabled|enabled}>]  
[echotolerance = <number{1-100}>]  
[mru = <number{293-8192}>] [laddr = <ip-address>]  
[raddr = <ip-address>]  
[netmask = <ip-mask(dotted or cidr)>]  
[format = <{cidr|dotted|none}>]  
[subnetfirstip = <{disabled|enabled}>]  
[savepwd = <{disabled|enabled}>]  
[demanddial = <{disabled|enabled}>]  
[doddelay = <number{0-3600}>] [primdns = <ip-address>]

[secdns = <ip-address>] [dnsmetric = <number{0-100}>]  
[idletime = <number{0-1000000}>]  
[idletrigger = <{RxTx|Rx|Tx}>]  
[unnumbered = <{disabled|enabled}>]  
[gracefulrestart = <{disabled|enabled}>]

Parameters :

[intf = <{}>

The name of the PPP interface to configure.

[dest = <{bridge|RELAY|eth\_wan}>]

The destination interface for this PPP interface.

[emptyauth = <{disabled|enabled}>]

Enable the possibility to authenticate with empty username/password.

[user = <string>]

The username for remote PAP/CHAP authentication.

[password = <password>]

The password for remote PAP/CHAP authentication.

[acname = <quoted string>]

The access concentrator name for a PPP session.

[servicename = <quoted string>]

The service name for a PPP session.

[class = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|15}>]

The prio class of the PPP packets.

[pool = <{none}>]

Acquire IP subnet and assign it to a free DHCP pool.

[pcomp = <{disabled|enabled}>]

Try to negotiate PPP protocol compression (LCP PCOMP).

[accomp = <{enabled|disabled|negotiate}>]

Try to negotiate PPP address & control field compression (LCP ACCOMP).

[trace = <{disabled|enabled}>]

Enable verbose console logging.

[concentrator = <{disabled|enabled}>]

The access concentrator is on this side of the PPP connection.

[auth = <{pap|chap|auto}>]

Authentication protocol to be used.

[restart = <{disabled|enabled}>]

Automatically restart when LCP link goes down.

[retryinterval = <number{0-65535}>]

The number of seconds between retries.

[passive = <{disabled|enabled}>]

When LCP times out, put link in a listening state.

[silent = <{disabled|enabled}>]

Do not send anything at startup, just listen for incoming LCP messages.

[echo = <{disabled|enabled}>]

Send LCP echo requests at regular intervals.

[echotolerance = <number{1-100}>]

Number of failed LCP echo requests needed to trigger a link failure.

[mru = <number{293-8192}>]

Negotiate maximum packet size we can handle.

[laddr = <ip-address>]

Negotiate this IP address at our side of the link.

[raddr = <ip-address>]

Negotiate this IP address at remote side of the link.

[netmask = <ip-mask(dotted or cidr)>]

Negotiate IP subnet mask at remote side of the link.

[format = <{cidr|dotted|none}>]

The format used to represent the IP subnet.

[subnetfirstip = <{disabled|enabled}>]

Take the first ip address out of the received IP as local address.

[savepwd = <{disabled|enabled}>]

Select whether or not password is saved.

[demanddial = <{disabled|enabled}>]

Enable dial-on-demand feature. Nothing happens until packets are sent to this PPP interface.

[doddelay = <number{0-3600}>]

During this initial interval (seconds) packets do not trigger PPP interface.

[primdns = <ip-address>]

Negotiate this IP address as primary DNS server.

[secdns = <ip-address>]

Negotiate this IP address as secondary DNS server.

[dnsmetric = <number{0-100}>]

DNS route metric to be used for the negotiated DNS servers.

[idletime = <number{0-1000000}>]

Maximum time the link may be idle (seconds).

[idletrigger = <{RxTx|Rx|Tx}>]

Consider the link being idle if no traffic is sent and/or received during the idle time.

[unnumbered = <{disabled|enabled}>]

Take local IP address from 'laddr' field and remote IP address from the pool. SVC only.

[gracefulrestart = <{disabled|enabled}>]

Send LCP termination request before establishing new PPP link

ppp ifdelete

Delete a PPP interface.

Syntax : ifdelete intf = <{}>

Parameters :

intf = <{}>

The name of the PPP interface.

ppp ifdetach

Detach a PPP interface.

Syntax : ifdetach intf = <{}>

Parameters :

intf = <{}>

The name of the PPP interface.

ppp iflist

Display the PPP interfaces.

Syntax : iflist [intf = <{}>]

Parameters :

[intf = <{}>]

The name of a PPP interface.

ppp ifscan

Scan a PPP interface for available interfaces.

Syntax : ifscan intf = <{}> [time = <number{0-36000}>]

Parameters :

intf = <{}>

The name of the PPP interface to scan.

[time = <number{0-36000}>]

The time to scan for services (in seconds).

ppp relay

Following commands are available :

**ifadd** : Add an ethernet interface to the PPP relay list.  
**ifdelete** : Delete an ethernet interface from the PPP relay agent list.  
**ifconfig** : Modify an ethernet interface from the PPP relay agent list.  
**iflist** : Display all ethernet interfaces added to the PPP relay agent list.  
**sesslist** : Display all active PPP relay sessions.  
**flush** : Remove all ethernet interfaces from the PPP relay agent list and terminate all sessions.

ppp relay flush

Remove all ethernet interfaces from the PPP relay agent list and terminate all sessions.

Syntax : flush

ppp relay ifadd

Add an ethernet interface to the PPP relay list.

Syntax : ifadd intf = <{bridge|eth\_wan}>

Parameters :

intf = <{bridge|eth\_wan}>

The ethernet intf to be added to the PPP relay agent list.

ppp relay ifconfig

Modify an ethernet interface from the PPP relay agent list.

Syntax : ifconfig intf = <{ }> hwaddr = <hardware-address>

Parameters :

intf = <{ }>

The ethernet intf to be added to the PPP relay agent list.

hwaddr = <hardware-address>

The hardware address (e.g. Ethernet MAC address) of this interface.

ppp relay ifdelete

Delete an ethernet interface from the PPP relay agent list.

Syntax : ifdelete intf = <{ }>

Parameters :

intf = <{ }>

The ethernet intf to be added to the PPP relay agent list.

ppp relay iflist

Display all ethernet interfaces added to the PPP relay agent list.

Syntax : iflist

ppp relay sesslist

Display all active PPP relay sessions.

Syntax : sesslist

ppp rtadd

Add a route to the routing table when PPP link comes up.

Syntax : rtadd intf = <{ }> dst = <ip-address>

[dstmsk = <ip-mask(dotted or cidr)>]

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-

```
Signal|default}>]
[src = <ip-address>] [srcmsk = <ip-mask(dotted or cidr)>]
[metric = <number{0-100}>]
```

Parameters :

intf = <{ }>

The name of a PPP interface.

dst = <ip-address>

The IP destination address specification for the route to be added when the link comes up.

[dstmsk = <ip-mask(dotted or cidr)>]

The IP destination mask. Special values : 1 = remote net; 32 = remote host;

[label = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

The name of the label.

[src = <ip-address>]

The IP source address specification. i.e. who can use this link.

[srcmsk = <ip-mask(dotted or cidr)>]

The IP source mask.

[metric = <number{0-100}>]

The route metric.

ppp rtdelete

Delete the route for a PPP link.

Syntax : rtdelete intf = <{ }>

Parameters :

intf = <{ }>

The PPP interface name for which to delete the route settings.

ppp simlock

Show allowed list

Syntax : simlock

Parameters :

pptp

Following commands are available :

list : Shows PPTP configuration.

profadd : Defines a new PPTP profile.

profdelete : Deletes a PPTP profile.

proflist : Lists PPTP profiles.

flush : Flushes the PPTP configuration.

ifadd : Adds a PPTP profile (backwards compatible with previous release, use profiles instead).

pptp flush

Flushes the PPTP configuration.

Syntax : flush

pptp ifadd

Adds a PPTP profile (backwards compatible with previous release, use profiles instead).

Syntax : ifadd dest = <string> [rate = <number{ 10-10000}>]

[encaps = <{vcmux|nlpid}>] [ac = <{never|always|keep}>]

Parameters :

dest = <string>

The WAN destination for this PPTP tunnel. Typically a phonebook name.

[rate = <number{ 10-10000}>]

Transmit speed in kbits/s for the WAN link.

[encaps = <{ vcmux|nlpid}>]

The WAN protocol encapsulation.

[ac = <{never|always|keep}>]

Enable/disable sending address and control field (0xFF03) on the WAN link.

pptp list

Shows PPTP configuration.

Syntax : list

pptp profadd

Defines a new PPTP profile.

Syntax : profadd name = <string> [qos = <{default}>]

[encaps = <{ vcmux|nlpid}>] [ac = <{never|always|keep}>]

Parameters :

name = <string>

The name for the new PPTP profile.

[qos = <{default}>]

The name of the qosbook entry, containing the settings for this profile.

[encaps = <{ vcmux|nlpid}>]

The WAN protocol encapsulation to be used with this profile.

[ac = <{never|always|keep}>]

Enable/disable sending address and control field (0xFF03) on the WAN link.

pptp profdelete

Deletes a PPTP profile.

Syntax : profdelete name = <>

Parameters :

name = <>

The name of the profile to delete.

pptp proflist

Lists PPTP profiles.

Syntax : proflist

printersharing

Following command groups are available :

LPD        RAW

printersharing LPD

Following commands are available :

config        : To enable/disable LPD service.

list         : To display LPD service context.

Following command groups are available :

queue

printersharing LPD config



To enable/disable LPD service.

Syntax : config [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enabled/disabled LPD printer service.

printersharing LPD list

To display LPD service context.

Syntax : list

printersharing LPD queue

Following commands are available :

add : Add an option.

delete : Delete an option.

list : List all options.

printersharing LPD queue add

Add an option.

Syntax : add name = <string> [type = <{Feed|Raw}>] [default = <{no|yes}>]

Parameters :

name = <string>

LPD queue name.

[type = <{Feed|Raw}>]

Queue Type

[default = <{no|yes}>]

Set default queue

printersharing LPD queue delete

Delete an option.

Syntax : delete name = <string>

Parameters :

name = <string>

LPD queue name.

printersharing LPD queue list

List all options.

Syntax : list

printersharing RAW

Following commands are available :

config : To enable/disable Raw service.

list : To display LPD service context.

printersharing RAW config

To enable/disable Raw service.

Syntax : config [state = <{disabled|enabled}>] [port = <number>]

Parameters :

[state = <{disabled|enabled}>]

Enabled/disabled Raw printer service.

[port = <number>]

The raw printserver port number

printersharing RAW list

To display LPD service context.

Syntax : list

script

Following commands are available :

add : Add line to script.  
delete : Delete complete script or line from script.  
list : List script.  
flush : Flush scripts.  
run : Run script.

script add

Add line to script.

Syntax : add name = <string> [index = <number>] command = <quoted string>

Parameters :

name = <string>

Name of script.

[index = <number>]

Line number (0 = add).

command = <quoted string>

Command.

script delete

Delete complete script or line from script.

Syntax : delete name = <{ autopvc\_add\_qos|autopvc\_delete\_qos|autopvc\_add\_bridge|  
autopvc\_delete\_bridge|autopvc\_add\_pppoerelay|  
autopvc\_delete\_pppoerelay|autopvc\_add\_ipoa|  
autopvc\_delete\_ipoa|autopvc\_add\_ethoa|  
autopvc\_delete\_ethoa|autopvc\_add\_pppoa|  
autopvc\_delete\_pppoa|autopvc\_add\_pppoe|  
autopvc\_delete\_pppoe|autopvc\_change\_qos|wlbrintfadd|  
wlbrintfdel }>  
[index = <number>]

Parameters :

name = <{ autopvc\_add\_qos|autopvc\_delete\_qos|autopvc\_add\_bridge|  
autopvc\_delete\_bridge|autopvc\_add\_pppoerelay|  
autopvc\_delete\_pppoerelay|autopvc\_add\_ipoa|autopvc\_delete\_ipoa|  
autopvc\_add\_ethoa|autopvc\_delete\_ethoa|autopvc\_add\_pppoa|  
autopvc\_delete\_pppoa|autopvc\_add\_pppoe|autopvc\_delete\_pppoe|  
autopvc\_change\_qos|wlbrintfadd|wlbrintfdel }>

Name of script.

[index = <number>]

Line number.

script flush

Flush scripts.

Syntax : flush

script list

List script.

Syntax : list [name = <{ autopvc\_add\_qos|autopvc\_delete\_qos|autopvc\_add\_bridge|  
autopvc\_delete\_bridge|autopvc\_add\_pppoerelay|  
autopvc\_delete\_pppoerelay|autopvc\_add\_ipoa|  
autopvc\_delete\_ipoa|autopvc\_add\_ethoa|  
autopvc\_delete\_ethoa|autopvc\_add\_pppoa|  
autopvc\_delete\_pppoa|autopvc\_add\_pppoe|

```
autopvc_delete_pppoe|autopvc_change_qos|wlbrintfadd|
wlbrintfdel}>]
```

Parameters :

```
[name = <{ autopvc_add_qos|autopvc_delete_qos|autopvc_add_bridge|
autopvc_delete_bridge|autopvc_add_pppoerelay|
autopvc_delete_pppoerelay|autopvc_add_ipoa|autopvc_delete_ipoa|
autopvc_add_ethoa|autopvc_delete_ethoa|autopvc_add_pppoa|
autopvc_delete_pppoa|autopvc_add_pppoe|autopvc_delete_pppoe|
autopvc_change_qos|wlbrintfadd|wlbrintfdel }>]
```

Name of script.

```
script run
```

Run script.

```
Syntax : run name = <{ autopvc_add_qos|autopvc_delete_qos|autopvc_add_bridge|
autopvc_delete_bridge|autopvc_add_pppoerelay|
autopvc_delete_pppoerelay|autopvc_add_ipoa|
autopvc_delete_ipoa|autopvc_add_ethoa|autopvc_delete_ethoa|
autopvc_add_pppoa|autopvc_delete_pppoa|autopvc_add_pppoe|
autopvc_delete_pppoe|autopvc_change_qos|wlbrintfadd|
wlbrintfdel }>
```

```
pars = <quoted string>
```

Parameters :

```
name = <{ autopvc_add_qos|autopvc_delete_qos|autopvc_add_bridge|
autopvc_delete_bridge|autopvc_add_pppoerelay|
autopvc_delete_pppoerelay|autopvc_add_ipoa|autopvc_delete_ipoa|
autopvc_add_ethoa|autopvc_delete_ethoa|autopvc_add_pppoa|
autopvc_delete_pppoa|autopvc_add_pppoe|autopvc_delete_pppoe|
autopvc_change_qos|wlbrintfadd|wlbrintfdel }>
```

Name of script.

```
pars = <quoted string>
```

Parameters separated with comma e.g. a,b,c .

```
script trace
```

Trace toggle.

```
Syntax : trace
```

```
service
```

Following command groups are available :

```
host      system
```

```
service host
```

Following commands are available :

```
list      : Display list of services.
add       : Add a service.
delete    : Delete a service.
assign    : Assign a service to a host.
disable   : Disable a service.
stats     : Service statistics.
triggerlist : List all triggers.
flush     : Flush all services.
```

Following command groups are available :

category      rule

service host add

Add a service.

Syntax : add name = <quoted string> [mode = <{ server|client|custom }>]  
          [category = <>]

Parameters :

name = <quoted string>

The name of the service.

[mode = <{ server|client|custom }>]

server, client or custom service ?

[category = <>]

The category to which the service belongs.

service host assign

Assign a service to a host.

Syntax : assign name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1  
VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP  
Server|Gamespy Arcade|HTTP Server (World Wide Web)|  
HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft  
Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP  
Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|  
Steam Games|Subsonic|Telnet Server|VNC|Xbox Live }>  
[host = <ip-address>] [log = <{ disabled|enabled }>]

Parameters :

name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter  
Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP  
Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|  
Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP  
Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|Steam Games|  
Subsonic|Telnet Server|VNC|Xbox Live }>

The name of the service.

[host = <ip-address>]

The IP address of the host.

[log = <{ disabled|enabled }>]

Enable/disable logging.

service host category

Following commands are available :

add           : Create/define service category.

delete        : Delete a service category.

rename        : Rename a service category.

list          : List the available service categories.

service host category add

Create/define service category.

Syntax : add name = <string>

Parameters :

name = <string>

The name of the category.

service host category delete

Delete a service category.

Syntax : delete name = <>

Parameters :

name = <>

The name of the category.

service host category list

List the available service categories.

Syntax : list

service host category rename

Rename a service category.

Syntax : rename name = <> new\_name = <string>

Parameters :

name = <>

The name of the existing category.

new\_name = <string>

The new name of the category.

service host config

Modify/Display global service configuration options.

Syntax : config [trace = <{disabled|enabled}>]

Parameters :

[trace = <{disabled|enabled}>]

Enable/disable traces.

service host delete

Delete a service.

Syntax : delete name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1  
VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP  
Server|Gamespy Arcade|HTTP Server (World Wide Web)|  
HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft  
Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP  
Server|PPTP Server|sabnbplus|Secure Shell Server (SSH)|  
Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>

Parameters :

name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter  
Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP  
Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|  
Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP  
Server|PPTP Server|sabnbplus|Secure Shell Server (SSH)|Steam Games|  
Subsonic|Telnet Server|VNC|Xbox Live}>

The name of the service.

service host disable

Disable a service.

Syntax : disable [name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint  
FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|  
FTP Server|Gamespy Arcade|HTTP Server (World Wide  
Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|  
Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone  
(DX)|NNTP Server|PPTP Server|sabnbplus|Secure Shell  
Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|  
Xbox Live}>]

Parameters :

```
[name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>]
```

The name of the service.

```
service host flush
```

Flush all services.

Syntax : flush

```
service host list
```

Display list of services.

```
Syntax : list [name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>]
```

Parameters :

```
[name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>]
```

The name of the service.

```
service host rule
```

Following commands are available :

add : Create/define service portmap.

delete : Delete a service portmap.

```
service host rule add
```

Create/define service portmap.

```
Syntax : add name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzbplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>
```

```
[protocol = <{ any|tcp|udp}>]
```

```
[baseport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|iike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
```

```
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|
syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|
utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows }
or number>]
```

portrange = <port-range>

```
[triggerport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|
dns|domain|doom|echo|exec|finger|ftp|ftp-data|
gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-
net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|
www-http|whoami|xwindows } or number>]
```

[triggerprotocol = <{ any|tcp|udp }>]

Parameters :

```
name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter
Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP
Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|
Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTTP
Server|PPTP Server|sabnzplus|Secure Shell Server (SSH)|Steam Games|
Subsonic|Telnet Server|VNC|Xbox Live }>
```

The name of the service.

```
[protocol = <{ any|tcp|udp }>]
```

Protocol type.

```
[baseport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|
nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|
xwindows } or number>]
```

Inbound base port.

portrange = <port-range>

The outbound portrange.

```
[triggerport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|
login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|
new-rwho|nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|
sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-
rlogin|who|www-http|whoami|xwindows } or number>]
```

Defines outbound trigger port.

```
[triggerprotocol = <{ any|tcp|udp }>]
```

Protocol of the trigger port.

service host rule delete

Delete a service portmap.

Syntax : delete name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>

[protocol = <{ any|tcp|udp }>]

[baseport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

portrange = <port-range>

[triggerport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[triggerprotocol = <{ any|tcp|udp }>]

Parameters :

name = <{ AIM Talk|BearShare|BitTorrent|Calibre|Checkpoint FW1 VPN|Counter Strike|DirectX 7|DirectX 8|DirectX 9|FTP Server|Gamespy Arcade|HTTP Server (World Wide Web)|HTTPS Server|iMesh|KaZaA|Mail Server (SMTP)|Microsoft Remote Desktop|MSN Game Zone|MSN Game Zone (DX)|NNTP Server|PPTP Server|sabnzplus|Secure Shell Server (SSH)|Steam Games|Subsonic|Telnet Server|VNC|Xbox Live}>

The name of the service.

[protocol = <{ any|tcp|udp }>]

Protocol type.

[baseport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|



xwindows } or number>]

Inbound base port.

portrange = <port-range>

The outbound portrange.

[triggerport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|systat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

Defines outbound trigger port.

[triggerprotocol = <{any|tcp|udp}>]

Protocol of the trigger port.

service host stats

Service statistics.

Syntax : stats

service host triggerlist

List all triggers.

Syntax : triggerlist

service system

Following commands are available :

list : Display services.

modify : Modify a service.

mapadd : Add a port map for a service.

mapdelete : Delete a port map for a service.

ifadd : Add an interface to the access list.

ifdelete : Delete an interface from the access list.

ipadd : Add an ip address (range) to the access list.

ipdelete : Delete an ip address (range) from the access list.

service system debug

Following commands are available :

stats : Display system service statistics.

service system debug stats

Display system service statistics.

Syntax : stats

service system ifadd

Add an interface to the access list.

Syntax : ifadd name = <{PPTP|HTTP|HTTPS|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>

group = <{wan|local|lan|tunnel|dmz|guest } or number>

Parameters :

name = <{PPTP|HTTP|HTTPS|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>

The name of the service for this access list.

group = <{wan|local|lan|tunnel|dmz|guest } or number>

The interface group for this access list.

### service system ifdelete

Delete an interface from the access list.

Syntax : ifdelete name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>  
group = <{wan|local|lan|tunnel|dmz|guest} or number>

Parameters :

name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>

The name of the service for this access list.

group = <{wan|local|lan|tunnel|dmz|guest} or number>

The interface group for this access list.

### service system ipadd

Add an ip address (range) to the access list.

Syntax : ipadd name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>  
ip = <ip-range>

Parameters :

name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>

The name of the service for this access list.

ip = <ip-range>

The ip address (range) for this access list.

### service system ipdelete

Delete an ip address (range) from the access list.

Syntax : ipdelete name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>  
ip = <ip-range>

Parameters :

name = <{PPTP|HTTP|HTTPs|FTP|TELNET|RIP-Query|DNS-S|MDAP|SSDP|PING\_RESPONDER}>

The name of the service for this access list.

ip = <ip-range>

The ip address (range) for this access list.

### service system list

Display services.

Syntax : list [name = <{PPTP|PPTPD|PPTPGRE|SNTP|SLA\_ICMP\_PING|SLA\_UDP\_PING|HTTP|HTTPs|RAD|SRAD|HTTPI|WEBF|TFTP-C|FTP|TELNET|RIP|RIP-Query|IGMP-Proxy|DNS-S|DNS-C|DYNAMIC\_DNS|dyndns|statdns|custom|No-IP|DtDNS|gnudip|DHCP-S|DHCP-R|MDAP|CWMP-C|CWMP-S|SSDP|VOIP\_SIP|VOIP\_SIP\_UDP|VOIP\_SIP\_TCP|IP\_COMMANDS|ICMP\_PING|SENDTO|PING\_RESPONDER|ICMP\_TRACEROUTE|UDP\_TRACEROUTE|HTTPPROBE}>]  
[expand = <{disabled|enabled}>]  
[dynamics = <{disabled|enabled}>]  
[members = <{disabled|enabled}>]

Parameters :

[name = <{PPTP|PPTPD|PPTPGRE|SNTP|SLA\_ICMP\_PING|SLA\_UDP\_PING|HTTP|HTTPs|RAD|SRAD|HTTPI|WEBF|TFTP-C|FTP|TELNET|RIP|RIP-Query|IGMP-Proxy|DNS-S|DNS-C|DYNAMIC\_DNS|dyndns|statdns|custom|No-IP|DtDNS|gnudip|DHCP-S|

DHCP-R|MDAP|CWMP-C|CWMP-S|SSDP|VOIP\_SIP|VOIP\_SIP\_UDP|VOIP\_SIP\_TCP|  
IP\_COMMANDS|ICMP\_PING|SENDTO|PING\_RESPONDER|ICMP\_TRACEROUTE|  
UDP\_TRACEROUTE|HTTPPROBE}>]

The name of the service.

[expand = <{disabled|enabled}>]

Expanded listing.

[dynamics = <{disabled|enabled}>]

Display dynamic services.

[members = <{disabled|enabled}>]

Display service group members.

service system mapadd

Add a port map for a service.

Syntax : mapadd name = <{PPTP|HTTP|HTTPs|HTTPi|FTP|TELNET|DNS-S|MDAP|SSDP}>

intf = <{loop|LocalNetwork|Internet}>

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|  
doom|echo|exec|finger|ftp|ftp-data|gopher|h323|  
httpproxy|iike|ils|imap2|imap3|ingres-net|ipserver|ipx|  
irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|  
netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|  
nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|  
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|  
sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|  
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|  
who|www-http|whoami|xwindows} or number>

Parameters :

name = <{PPTP|HTTP|HTTPs|HTTPi|FTP|TELNET|DNS-S|MDAP|SSDP}>

The name of the service for this map.

intf = <{loop|LocalNetwork|Internet}>

The interface for this map.

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|  
clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-  
data|gopher|h323|httpproxy|iike|ils|imap2|imap3|ingres-net|ipserver|  
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-  
ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-  
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|  
snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|  
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows} or number>

The port for this map.

service system mapdelete

Delete a port map for a service.

Syntax : mapdelete name = <{PPTP|HTTP|HTTPs|HTTPi|FTP|TELNET|DNS-S|MDAP|SSDP}>

intf = <{loop|LocalNetwork|Internet}>

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|  
doom|echo|exec|finger|ftp|ftp-data|gopher|h323|  
httpproxy|iike|ils|imap2|imap3|ingres-net|ipserver|  
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|  
netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|  
nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|  
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|

```
snmp|snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|
sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|
ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|
xwindows } or number>
```

Parameters :

name = <{PPTP|HTTP|HTTPs|HTTPI|FTP|TELNET|DNS-S|MDAP|SSDP}>

The name of the service for this map.

intf = <{loop|LocalNetwork|Internet}>

The interface for this map.

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>

The port for this map.

service system modify

Modify a service.

Syntax : modify name = <{PPTP|PPTPD|PPTPGRE|SNTP|SLA\_ICMP\_PING|SLA\_UDP\_PING|HTTP|HTTPs|RAD|SRAD|HTTPI|WEBF|TFTP-C|FTP|TELNET|RIP|RIP-Query|IGMP-Proxy|DNS-S|DNS-C|DHCP-S|DHCP-R|MDAP|CWMP-C|CWMP-S|SSDP|VOIP\_SIP|VOIP\_SIP\_UDP|VOIP\_SIP\_TCP|IP\_COMMANDS|PING\_RESPONDER}>

[state = <{disabled|enabled}>]

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[qoslabel = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

[routelabel = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

[srcintf <{loop|LocalNetwork|Internet}>]

[log = <{disabled|enabled}>] [forward = <{disabled|enabled}>]

[natpmweight = <number{0-255}>]

Parameters :

name = <{PPTP|PPTPD|PPTPGRE|SNTP|SLA\_ICMP\_PING|SLA\_UDP\_PING|HTTP|HTTPs|RAD|SRAD|HTTPI|WEBF|TFTP-C|FTP|TELNET|RIP|RIP-Query|IGMP-Proxy|DNS-S|DNS-C|DHCP-S|DHCP-R|MDAP|CWMP-C|CWMP-S|SSDP|VOIP\_SIP|VOIP\_SIP\_UDP|VOIP\_SIP\_TCP|IP\_COMMANDS|PING\_RESPONDER}>

The name of the service.

[state = <{disabled|enabled}>]

Disable/Enable this service.

[port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfsd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

The port of the service.

[qoslabel = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

QOS label for service data.

[routelabel = <{None|DSCP|Interactive|Management|Video|VoIP-RTP|VoIP-Signal|default}>]

Route label for service data.

[srcintf <{loop|LocalNetwork|Internet}>]

The primary ip interface for this service.

[log = <{disabled|enabled}>]

Disable/Enable service logging.

[forward = <{disabled|enabled}>]

Disable/Enable service forwarding.

[natpmweight = <number{0-255}>]

The nat portmap weight for this service.

sntp

Following commands are available :

add : Add NTP server  
list : List the NTP servers  
delete : Delete NTP server from list  
flush : Flush NTP server list and SNTP client configuration  
config : Modify/Display configuration

Following command groups are available :

debug

sntp add

Add NTP server

Syntax : add [addr = <ip-address>] [name = <string>]  
[version = <number{1-4}>]

Parameters :

[addr = <ip-address>]

IP address of NTP server to be added to list

[name = <string>]

DNS name of NTP server to be added to list. If both the IP address and the DNS name are provided, the IP address is ignored.

[version = <number{1-4}>]

SNTP version of server (1,2,3 or 4)

sntp config

Modify/Display configuration

Syntax : config [state = <{enabled|disabled}>] [poll = <number{1-10080}>]  
[pollpresync = <number{1-60}>]

Parameters :

[state = <{enabled|disabled}>]  
Enable/Disable SNTP client  
[poll = <number{ 1-10080}>]  
polling interval (1 min, ... ,10080min(=7days))  
[pollpresync = <number{ 1-60}>]  
polling interval before first sync (1 min, ... ,60min)

sntp debug

Following commands are available :

traceconfig : Modify SNTP client trace configuration

sntp debug traceconfig

Modify SNTP client trace configuration

Syntax : traceconfig [state = <{ disabled|enabled}>]

Parameters :

[state = <{ disabled|enabled}>]  
Enable/Disable tracing.

sntp delete

Delete NTP server from list

Syntax : delete [addr = <ip-address>] [name = <string>]

Parameters :

[addr = <ip-address>]  
IP address of NTP server to be removed from list  
[name = <string>]  
DNS name of NTP server to be removed from list

sntp flush

Flush NTP server list and SNTP client configuration

Syntax : flush

sntp list

List the NTP servers

Syntax : list

software

Following commands are available :

version : Displays the software version.

upgrade : Reboots the modem to initiate the SW upgrade. New software available on a remote LAN host will be uploaded to the modem.

download : Download parameters.

software download

Download parameters.

Syntax : download filetype = <{ firmware|configuration}> url = <string>  
[username = <string>] [password = <string>]  
filesize = <string> [targetfilename = <string>]

Parameters :

filetype = <{ firmware|configuration}>  
The type of the file to be downloaded.

url = <string>

Set the HTTP URL where the file is to be found including remote filename.

[username = <string>]

Set the name to be used to authenticate to the download server.

[password = <string>]

Set the password to be used to authenticate to the download server.

filesize = <string>

Set the size of the file to be downloaded.

[targetfilename = <string>]

Set the filename used to save the file on the modem.

software upgrade

Reboots the modem to initiate the SW upgrade. New software available on a remote LAN host will be uploaded to the modem.

Syntax : upgrade

software version

Displays the software version.

Syntax : version

statecheck

Following commands are available :

config : Configure checkd parameters.

groupadd : Add a group object.

groupdelete : Delete a group object.

checkadd : Add a check object.

checkdelete : Delete a check object.

statecheck checkadd

Add a check object.

Syntax : checkadd group = <string> name = <string> object = <string>

paramname = <string> paramtype = <{string|uint|bool}>

matchtype = <{equal|differ|statdelta}>

match = <quoted string>

Parameters :

group = <string>

The name of the group.

name = <string>

The name of the check.

object = <string>

The object to check.

paramname = <string>

The parameter to check.

paramtype = <{string|uint|bool}>

The parameter type.

matchtype = <{equal|differ|statdelta}>

The match type.

match = <quoted string>

The match value.

statecheck checkdelete

Delete a check object.

Syntax : checkdelete group = <string> name = <string>

Parameters :

group = <string>

The name of the group.

name = <string>

The name of the check.

statecheck config

Configure checkd parameters.

Syntax : config interval = <number> timeout = <number> [groupop = <{and|or}>]  
[dmtree = <{igd|atomic}>]

Parameters :

interval = <number>

The interval between checks.

timeout = <number>

Timeout after which checking stops.

[groupop = <{and|or}>]

Group operator type.

[dmtree = <{igd|atomic}>]

Client type.

statecheck groupadd

Add a group object.

Syntax : groupadd name = <string> [checkop = <{and|or}>]

Parameters :

name = <string>

The name of the group.

[checkop = <{and|or}>]

Check operator type.

statecheck groupdelete

Delete a group object.

Syntax : groupdelete name = <string>

Parameters :

name = <string>

The name of the group.

system

Following commands are available :

settime : Set/Get date, time, timezone, daylight savings time,  
uptime.

dst : Set daylight saving values

locale : Set/Get regional settings.

reboot : Reboot the modem.

flush : Flush system configuration.

reset : Reset to (factory or ISP) defaults: user specific settings  
will be cleared !

config : Set or change system config parameters.

timedreboot : Set or change editing mode timed reboot

Following command groups are available :

debug ra

system config

Set or change system config parameters.

Syntax : config [upnp = <{disabled|enabled}>] [tr64 = <{disabled|enabled}>]  
[mdap = <{disabled|enabled}>]  
[led = <{green|red|orange|flash|off}>]



```
[resetbutton = <{disabled|enabled}>]
[digestauth = <{disabled|enabled}>]
[defaultconnection = <{loop|LocalNetwork|Internet}>]
[autosave = <{enabled|disabled}>]
[autosavedelay = <number{0-600}>]
[WANMode = <{ADSL|VDSL|SHDSL|ETH|UMTS}>]
[WANEthPort = <{ethif1|ethif2|ethif3|ethif4|ethif5}>]
```

Parameters :

```
[upnp = <{disabled|enabled}>]
  Enable/Disable upnp discovery
[tr64 = <{disabled|enabled}>]
  Enable/Disable TR-64 discovery
[mdap = <{disabled|enabled}>]
  Enable/Disable mdap discovery
[led = <{green|red|orange|flash|off}>]
  Set system LED color
[resetbutton = <{disabled|enabled}>]
  Enable/Disable reset-to-factory-defaults pushbutton
[digestauth = <{disabled|enabled}>]
  Enable/Disable HTTP digest authentication
[defaultconnection = <{loop|LocalNetwork|Internet}>]
  The name of the default internet connection.
[autosave = <{enabled|disabled}>]
  Enable/Disable autosaves
[autosavedelay = <number{0-600}>]
  Autosave delay in seconds (0 for immediate save)
[WANMode = <{ADSL|VDSL|SHDSL|ETH|UMTS}>]
  Set autosensing wan mode
[WANEthPort = <{ethif1|ethif2|ethif3|ethif4|ethif5}>]
  Set autosensing eth wan port
```

system debug

Following commands are available :

```
cpu      : CPU usage statistics
mem      : Memory usage statistics
autosave : Autosave debugging commands
```

system debug autosave

Autosave debugging commands

Syntax : autosave [trace = <{disabled|enabled}>]

Parameters :

```
[trace = <{disabled|enabled}>]
  Enable/Disable autosave traces
```

system debug cpu

CPU usage statistics

Syntax : cpu [delay = <number{1-60}>] [iterations = <number{1-4000000}>]

Parameters :

```
[delay = <number{1-60}>]
  Delay between stats updates
[iterations = <number{1-4000000}>]
  Number of iteration before ending
```

system debug mem  
Memory usage statistics

Syntax : mem [expand = <{disabled|enabled}>]

Parameters :

[expand = <{disabled|enabled}>]

Dump of /proc/meminfo

system dst

Set daylight saving values

Syntax : dst [mode = <{Absolute|Relative}>] [startdate = <dd/mm/yyyy>]

[starttime = <hh:mm:ss>] [enddate = <dd/mm/yyyy>]

[endtime = <hh:mm:ss>]

[startweekday = <{Sunday|Monday|Tuesday|Wednesday|Thursday|Friday|  
Saturday}>]

[starthour = <number{0-23}>] [startweek = <number{1-5}>]

[startmonth = <number{1-12}>]

[endweekday = <{Sunday|Monday|Tuesday|Wednesday|Thursday|Friday|  
Saturday}>]

[endhour = <number{0-23}>] [endweek = <number{1-5}>]

[endmonth = <number{1-12}>]

Parameters :

[mode = <{Absolute|Relative}>]

Set daylight saving mode

[startdate = <dd/mm/yyyy>]

Set the start date of the daylight saving in the absolute mode

[starttime = <hh:mm:ss>]

Set the start time of the daylight saving in the absolute mode

[enddate = <dd/mm/yyyy>]

Set the end date of the daylight saving in the absolute mode

[endtime = <hh:mm:ss>]

Set the end time of the daylight saving in the absolute mode

[startweekday = <{Sunday|Monday|Tuesday|Wednesday|Thursday|Friday|  
Saturday}>]

Set the start weekday of the daylight saving in the relative mode

[starthour = <number{0-23}>]

Set the start hour of the daylight saving in the relative mode

[startweek = <number{1-5}>]

Set the start week of the daylight saving in the relative mode

[startmonth = <number{1-12}>]

Set the start month of the daylight saving in the relative mode

[endweekday = <{Sunday|Monday|Tuesday|Wednesday|Thursday|Friday|Saturday}>]

Set the end weekday of the daylight saving in the relative mode

[endhour = <number{0-23}>]

Set the end hour of the daylight saving in the relative mode

[endweek = <number{1-5}>]

Set the end week of the daylight saving in the relative mode

[endmonth = <number{1-12}>]

Set the end month of the daylight saving in the relative mode

system flush

Flush system configuration.

Syntax : flush

system locale

Set/Get regional settings.

Syntax : locale [dec\_symbol = <{.,}>] [group\_symbol = <{.,}>]  
[date\_separator = <{/|.|}>]  
[date\_format = <{iso|ddmmyyyy|ddmmyy|mmddyyyy|mmddy}>]  
[time\_format = <{iso|hmmss}>]  
[datetime\_format = <{iso|date+time|time+date}>]  
[duration\_format = <{dhmmss|hmmss}>]

Parameters :

[dec\_symbol = <{.,}>]  
Set decimal symbol  
[group\_symbol = <{.,}>]  
Set digit grouping symbol  
[date\_separator = <{/|.|}>]  
Set date separator  
[date\_format = <{iso|ddmmyyyy|ddmmyy|mmddyyyy|mmddy}>]  
Set date format  
[time\_format = <{iso|hmmss}>]  
Set time format  
[datetime\_format = <{iso|date+time|time+date}>]  
Set date-time format  
[duration\_format = <{dhmmss|hmmss}>]  
Set duration format

system qual

Following commands are available :

led : Led configuration

system qual led

Led configuration

Syntax : led [value = <{green|red|orange|flash|off|allon|alloff|allgreen|allred|unlock}>]

Parameters :

[value = <{green|red|orange|flash|off|allon|alloff|allgreen|allred|unlock}>]  
Set system LED color

system ra

Following commands are available :

config : Configure remote access parameters.

start : Starts temporary mode.

stop : Stops temporary mode.

system ra config

Configure remote access parameters.

Syntax : config [state = <{disabled|enabled}>]  
[secure = <{enabled|disabled}>] [port = <number>]  
[timeout = <number>]  
[mode = <{Permanent|Temporary|Schedule}>] [ipintf = <string>]  
[randompassword = <{enabled|disabled}>]  
[randomport = <{enabled|disabled}>] [group = <string>]  
[user = <string>] [todschedule = <string>]

Parameters :

[state = <{disabled|enabled}>]  
Enable/disable RAD.

[secure = <{enabled|disabled}>]  
Use secure mode (https).

[port = <number>]  
The port number.

[timeout = <number>]  
The timeout value.

[mode = <{Permanent|Temporary|Schedule}>]  
Mode Permanent or Temporary.

[ipintf = <string>]  
The name of the xref to the IP interface.

[randompassword = <{enabled|disabled}>]  
Create a random password.

[randomport = <{enabled|disabled}>]  
Use a random port.

[group = <string>]  
The name of the xref to the group.

[user = <string>]  
The name of the xref to the user.

[todschedule = <string>]  
The name of the xref to the ToD schedule.

system ra start  
Starts temporary mode.

Syntax : start

system ra stop  
Stops temporary mode.

Syntax : stop

system reboot  
Reboot the modem.

Syntax : reboot

system reset  
Reset to (factory or ISP) defaults: user specific settings will be cleared !  
Syntax : reset factory = <{yes|no}> proceed = <{no|yes}>

Parameters :

factory = <{yes|no}>

Option to reset to factory

proceed = <{no|yes}>

Confirmation for resetting the modem.

system settime  
Set/Get date, time, timezone, daylight savings time, uptime.

Syntax : settime [date = <dd/mm/yyyy>] [time = <hh:mm:ss>]

[timezone = <( + or -)hh:mm>]

[daylightsaving = <{disabled|enabled}>]

[geotimezonename = <{(UTC-12:00)|(UTC-11:00)|(UTC-10:00)|(UTC-09:00)|(UTC-08:00)|(UTC-07:00)|(UTC-06:00)|(UTC-05:00)|(UTC-04:00)|(UTC-03:30)|(UTC-03:00)|(UTC-02:00)|(UTC-01:00)|(UTC)|(UTC+01:00)|(UTC+02:00)|(UTC+03:00)|(UTC+03:30)|(UTC+04:00)|(UTC+04:30)|(UTC+05:00)|(UTC+05:30)|(UTC+05:45)|(UTC+06:00)|(UTC+06:30)|(UTC+07:00)|(UTC+08:00)|(UTC+09:00)|(UTC+09:30)|(UTC+10:00)|(UTC+11:00)|(UTC+12:00)|

(UTC+13:00}>]  
[rtc = <{disabled|enabled}>]

Parameters :

[date = <dd/mm/yyyy>]

Set the system date

[time = <hh:mm:ss>]

Set the system time

[timezone = <( + or -)hh:mm>]

Set the system timezone(-12:00...+13:00)

[daylightsaving = <{disabled|enabled}>]

Enable/Disable daylight saving

[geotimezonename = <{(UTC-12:00)|(UTC-11:00)|(UTC-10:00)|(UTC-09:00)|(UTC-08:00)|(UTC-07:00)|(UTC-06:00)|(UTC-05:00)|(UTC-04:00)|(UTC-03:30)|(UTC-03:00)|(UTC-02:00)|(UTC-01:00)|(UTC)|(UTC+01:00)|(UTC+02:00)|(UTC+03:00)|(UTC+03:30)|(UTC+04:00)|(UTC+04:30)|(UTC+05:00)|(UTC+05:30)|(UTC+05:45)|(UTC+06:00)|(UTC+06:30)|(UTC+07:00)|(UTC+08:00)|(UTC+09:00)|(UTC+09:30)|(UTC+10:00)|(UTC+11:00)|(UTC+12:00)|(UTC+13:00)}>]

Set the geographical timezone by name

[rtc = <{disabled|enabled}>]

Enable/Disable the real time clock

system timedreboot

Set or change editing mode timed reboot

Syntax : timedreboot [state = <{disabled|enabled}>]

[time = <number{0-983040}>] [date = <string>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable timed reboot

[time = <number{0-983040}>]

Change default countdown time (Min).

[date = <string>]

Set date/time to reboot (DD/MM/YYYY/HH:MM).

systemlog

Following commands are available :

show : Show messages in the syslog message buffer.

send : Send messages to remote syslog server.

flush : Flush all messages in syslog message buffer.

systemlog flush

Flush all messages in syslog message buffer.

Syntax : flush

systemlog send

Send messages to remote syslog server.

Syntax : send [fac = <{kern|user|mail|daemon|auth|syslog|lpr|news|uucp|cron|security|ftp|ntp|audit|logalert|clock|local0|local1|local2|local3|local4|local5|local6|local7}>]

[sev = <{emerg|alert|crit|err|warning|notice|info|debug}>]

[hist = <{disabled|enabled}>] dest = <ip-address>

Parameters :

[fac = <{kern|user|mail|daemon|auth|syslog|lpr|news|uucp|cron|security|ftp|

```
ntp|audit|logalert|clock|local0|local1|local2|local3|local4|local5|
local6|local7}>]
```

Syslog facility level.

```
[sev = <{emerg|alert|crit|err|warning|notice|info|debug}>]
```

Syslog severity level.

```
[hist = <{disabled|enabled}>]
```

Syslog display message history (over several bootups)

```
dest = <ip-address>
```

Remote syslog server destination: an ip-address.

```
systemlog show
```

Show messages in the syslog message buffer.

```
Syntax : show [fac = <{kern|user|mail|daemon|auth|syslog|lpr|news|uucp|cron|
```

```
security|ftp|ntp|audit|logalert|clock|local0|local1|
```

```
local2|local3|local4|local5|local6|local7}>]
```

```
[sev = <{emerg|alert|crit|err|warning|notice|info|debug}>]
```

```
[hist = <{disabled|enabled}>]
```

Parameters :

```
[fac = <{kern|user|mail|daemon|auth|syslog|lpr|news|uucp|cron|security|ftp|
```

```
ntp|audit|logalert|clock|local0|local1|local2|local3|local4|local5|
```

```
local6|local7}>]
```

Syslog facility level.

```
[sev = <{emerg|alert|crit|err|warning|notice|info|debug}>]
```

Syslog severity level.

```
[hist = <{disabled|enabled}>]
```

Syslog display message history (over several bootups)

```
threshold
```

Following commands are available :

**enable** : Enables a threshold definition.

**disable** : Disables a threshold definition.

**config** : Configures a threshold definition.

**reset** : Reset threshold period.

**clear** : Clears threshold statistics.

**list** : Lists all threshold definitions.

**stats** : Lists threshold resources.

```
threshold clear
```

Clears threshold statistics.

```
Syntax : clear [id = <threshold id>]
```

Parameters :

```
[id = <threshold id>]
```

Threshold identifier.

```
threshold config
```

Configures a threshold definition.

```
Syntax : config [id = <threshold id>] [type = <{limit|threshold|trigger}>]
```

```
[count = <number{ 1-10000}>] [period = <number{ 1-100000}>]
```

```
[state = <{disabled|enabled}>]
```

Parameters :

```
[id = <threshold id>]
```

Threshold identifier.

```
[type = <{limit|threshold|trigger}>]
```

Type of threshold.

[count = <number{ 1-10000}>]

Threshold event count.

[period = <number{ 1-100000}>]

Threshold period.

[state = <{ disabled|enabled}>]

Threshold state.

threshold disable

Disables a threshold definition.

Syntax : disable [id = <threshold id>]

Parameters :

[id = <threshold id>]

Threshold identifier.

threshold enable

Enables a threshold definition.

Syntax : enable [id = <threshold id>]

Parameters :

[id = <threshold id>]

Threshold identifier.

threshold list

Lists all threshold definitions.

Syntax : list

threshold reset

Reset threshold period.

Syntax : reset [id = <threshold id>]

Parameters :

[id = <threshold id>]

Threshold identifier.

threshold stats

Lists threshold resources.

Syntax : stats

tls

Following command groups are available :

acs-client https-server self

tls acs-client

Following commands are available :

config : Display/modify tls settings

Following command groups are available :

cert

tls acs-client cert

Following commands are available :

add : Add a new certificate

delete : Delete a certificate

list : List certificates

tls acs-client cert add

Add a new certificate

Syntax : add filename = <string>

Parameters :

filename = <string>

name of the certificate file

tls acs-client cert delete

Delete a certificate

Syntax : delete index = <number>

Parameters :

index = <number>

Certificate index

tls acs-client cert list

List certificates

Syntax : list [index = <number>] [expand = <{disabled|enabled}>]

Parameters :

[index = <number>]

Certificate index

[expand = <{disabled|enabled}>]

Display more information

tls acs-client config

Display/modify tls settings

Syntax : config [state = <{disabled|enabled}>]

[auth-serv = <{disabled|enabled}>]

[valid-date = <{disabled|enabled}>]

[valid-domain = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

SSL/TLS client for ACS state

[auth-serv = <{disabled|enabled}>]

Request server authentication

[valid-date = <{disabled|enabled}>]

Check certificate validity date

[valid-domain = <{disabled|enabled}>]

Check certificate domain

tls https-server

Following commands are available :

config : Display/modify tls settings

Following command groups are available :

cert

tls https-server cert

Following commands are available :



add : Add a new certificate  
delete : Delete a certificate  
list : List certificates

tls https-server cert add  
Add a new certificate  
Syntax : add filename = <string>

Parameters :  
filename = <string>  
name of the certificate file

tls https-server cert delete  
Delete a certificate  
Syntax : delete index = <number>

Parameters :  
index = <number>  
Certificate index

tls https-server cert list  
List certificates  
Syntax : list [index = <number>] [expand = <{disabled|enabled}>]

Parameters :  
[index = <number>]  
Certificate index  
[expand = <{disabled|enabled}>]  
Display more information

tls https-server config  
Display/modify tls settings  
Syntax : config [state = <{disabled|enabled}>]  
[auth-client = <{disabled|enabled}>]  
[valid-date = <{disabled|enabled}>]

Parameters :  
[state = <{disabled|enabled}>]  
SSL/TLS server for HTTPS state  
[auth-client = <{disabled|enabled}>]  
Request client authentication  
[valid-date = <{disabled|enabled}>]  
Check certificate validity date

tls self  
Following command groups are available :

cert

tls self cert  
Following commands are available :

list : List certificates

tls self cert list  
List certificates  
Syntax : list [index = <number>] [expand = <{disabled|enabled}>]

Parameters :

[index = <number>]

Certificate index

[expand = <{disabled|enabled}>]

Display more information

tod

Following commands are available :

config : Configure tod parameters.

list : List config.

Following command groups are available :

action schedule

tod action

Following commands are available :

add : Add an action object.

delete : Delete an action object.

setvaladd : Add a setvalue object.

setvaldelete : Delete a setvalue object.

paramadd : Add a setvalue parameter.

paramdelete : Delete a setvalue parameter.

list : List actions.

tod action add

Add an action object.

Syntax : add [id = <number>]

Parameters :

[id = <number>]

The id of the action.

tod action delete

Delete an action object.

Syntax : delete actionid = <number>

Parameters :

actionid = <number>

The id of the action.

tod action list

List actions.

Syntax : list

tod action paramadd

Add a setvalue parameter.

Syntax : paramadd actionid = <number> setvalueid = <number> [id = <number>]  
[object = <string>] [param = <string>] [value = <string>]

Parameters :

actionid = <number>

The id of the action.

setvalueid = <number>

The id of the setvalue action.

[id = <number>]

The id of the setvalue param.

[object = <string>]

Mbus object path.

[param = <string>]

Mbus parameter name.

[value = <string>]

Parameter value.

tod action paramdelete

Delete a setvalue parameter.

Syntax : paramdelete actionid = <number> setvalueid = <number>  
          paramid = <number>

Parameters :

actionid = <number>

The id of the action.

setvalueid = <number>

The id of the setvalue action.

paramid = <number>

The id of the setvalue param.

tod action setvaladd

Add a setvalue object.

Syntax : setvaladd actionid = <number> [id = <number>]  
          [on = <{active|inactive}>]

Parameters :

actionid = <number>

The id of the action.

[id = <number>]

The id of the setvalue action.

[on = <{active|inactive}>]

Active/inactive.

tod action setvaldelete

Delete a setvalue object.

Syntax : setvaldelete actionid = <number> setvalueid = <number>

Parameters :

actionid = <number>

The id of the action.

setvalueid = <number>

The id of the setvalue action.

tod config

Configure tod parameters.

Syntax : config [acchain = <string>] [state = <{enabled|disabled}>]

Parameters :

[acchain = <string>]

firewall chain name

[state = <{enabled|disabled}>]

enable/disable ToD

tod list

List config.

Syntax : list

tod schedule

Following commands are available :

add : Add a schedule object.  
modify : Modify schedule parameters.  
delete : Delete a schedule object.  
dayadd : Add a day object.  
daydelete : Delete a day object.  
timeadd : Add a timerange object.  
timedelete : Delete a timerange object.  
list : List schedules.

tod schedule add

Add a schedule object.

Syntax : add [id = <number>] type = <{none|accesscontrol|action}>

Parameters :

[id = <number>]

The id of the schedule.

type = <{none|accesscontrol|action}>

The schedule type.

tod schedule dayadd

Add a day object.

Syntax : dayadd scheduleid = <number> [id = <number>]  
weekday = <{mo|tu|we|th|fr|sa|su}>

Parameters :

scheduleid = <number>

The id of the schedule.

[id = <number>]

The id of the day.

weekday = <{mo|tu|we|th|fr|sa|su}>

The day of the week..

tod schedule daydelete

Delete a day object.

Syntax : daydelete scheduleid = <number> dayid = <number>

Parameters :

scheduleid = <number>

The id of the schedule.

dayid = <number>

The id of the day.

tod schedule delete

Delete a schedule object.

Syntax : delete scheduleid = <number>

Parameters :

scheduleid = <number>

The id of the schedule.

tod schedule list

List schedules.

Syntax : list

tod schedule modify

Modify schedule parameters.

Syntax : modify [expiretime = <string>] [nrofminutes = <number>]  
[count = <number>] scheduleid = <number>  
[mode = <{timerange|timeout}>] [reference = <string>]  
[name = <string>] [action = <string>]  
[state = <{enabled|disabled}>]

Parameters :

[expiretime = <string>]  
The absolute expire time.  
[nrofminutes = <number>]  
The number of minutes.  
[count = <number>]  
The timer count (0=periodical)  
scheduleid = <number>  
The id of the schedule.  
[mode = <{timerange|timeout}>]  
The mode.  
[reference = <string>]  
Access control reference.  
[name = <string>]  
Friendly name.  
[action = <string>]  
Action.  
[state = <{enabled|disabled}>]  
Enable/disable

tod schedule timeadd

Add a timerange object.

Syntax : timeadd scheduleid = <number> dayid = <number> [id = <number>]  
starthour = <number> startminute = <number>  
endhour = <number> endminute = <number> [action = <string>]

Parameters :

scheduleid = <number>  
The id of the schedule.  
dayid = <number>  
The id of the day.  
[id = <number>]  
The id of the timerange.  
starthour = <number>  
The start hour of the range.  
startminute = <number>  
The start minute of the range.  
endhour = <number>  
The end hour of the range.  
endminute = <number>  
The end minute of the range.  
[action = <string>]  
Action.

tod schedule timedetele

Delete a timerange object.

Syntax : timedetele scheduleid = <number> dayid = <number> timeid = <number>

Parameters :

scheduleid = <number>

The id of the schedule.  
dayid = <number>  
The id of the day.  
timeid = <number>  
The id of the timerange.

trigger

Following commands are available :

list : Display the triggers.

Following command groups are available :

rule

trigger chain

Following commands are available :

add : Add a chain.  
delete : Delete a chain.  
list : Display a list of chains.  
flush : Flush all chains.

trigger chain add

Add a chain.

Syntax : add chain = <string>

Parameters :

chain = <string>  
The name of the chain to add.

trigger chain delete

Delete a chain.

Syntax : delete chain = <chain name>

Parameters :

chain = <chain name>  
The name of the chain to delete.

trigger chain flush

Flush all chains.

Syntax : flush

trigger chain list

Display a list of chains.

Syntax : list [format = <{pretty|cli}>]

Parameters :

[format = <{pretty|cli}>]  
The format of the chain list.

trigger chain modify

Modify a chain.

Syntax : modify chain = <chain name>

Parameters :

chain = <chain name>  
The name of the chain to modify.

trigger list

Display the triggers.

Syntax : list [name = <{ }>]

Parameters :

[name = <{ }>]

The name of a trigger.

trigger rule

Following commands are available :

list : Display a list of rules.

Following command groups are available :

debug

trigger rule add

Add a rule.

Syntax : add chain = <chain name> [index = <number>] [name = <string>]

[clink = <chain name>]

[srcintf [!]= <{ wan|local|lan|tunnel|dmz|guest }>]

[srcip [!]= <{ private|ssdp\_ip|mdap\_ip }>]

[dstintf [!]= <{ wan|local|lan|tunnel|dmz|guest }>]

[dstip [!]= <{ private|ssdp\_ip|mdap\_ip }>]

[serv [!]= <{ icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP }>]

[log = <{ disabled|enabled }>] [state = <{ disabled|enabled }>]

trigger = <{ None|link }>

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[srcintf [!]= <{ wan|local|lan|tunnel|dmz|guest }>]

The name of the source interface expression.

[srcip [!]= <{ private|ssdp\_ip|mdap\_ip }>]

The name of the source ip expression.

[dstintf [!]= <{ wan|local|lan|tunnel|dmz|guest }>]

The name of the destination interface expression.

[dstip [!]= <{ private|ssdp\_ip|mdap\_ip }>]

The name of the destination ip expression.

[serv [!]= <{ icmp|igmp|ftp|telnet|http|httpproxy|https|RPC|NBT|SMB|imap|imap3|imap4-ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|ipsec|esp|ah|ike|DiffServ|sip|h323|dhcp|rtsp|ssdp\_serv|mdap\_serv|syslog|VoIP-Inc-SIP-UDP|VoIP-Inc-SIP-TCP|VoIP-Inc-RTP }>]

The name of the service expression.

[log = <{ disabled|enabled }>]

Disable/Enable logging when this rule applies.

[state = <{disabled|enabled}>]

Disable/Enable this rule.

trigger = <{None|link}>

None, link (when link is used) or trigger name.

trigger rule debug

Following commands are available :

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics.

clear : Clear rule statistics.

trigger rule debug clear

Clear rule statistics.

Syntax : clear [chain = <chain name>] [index = <number>]

Parameters :

[chain = <chain name>]

The name of the chain.

[index = <number>]

The index of the rule in the chain.

trigger rule debug stats

Display rule statistics.

Syntax : stats [chain = <chain name>] [index = <number>]

Parameters :

[chain = <chain name>]

The name of the chain.

[index = <number>]

The index of the rule in the chain.

trigger rule debug traceconfig

Display/Modify rule trace configuration.

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Disable/Enable rule traces.

trigger rule delete

Delete a rule.

Syntax : delete chain = <chain name> index = <number>

Parameters :

chain = <chain name>

The name of the chain in which to delete the rule.

index = <number>

The number of the rule in the chain.

trigger rule flush

Flush all rules.

Syntax : flush [chain = <chain name>]

Parameters :

[chain = <chain name>]



The name of the chain to flush.

#### trigger rule list

Display a list of rules.

Syntax : list [chain = <chain name>] [format = <{pretty|cli}>]

Parameters :

[chain = <chain name>]

The name of the chain to list the rules of.

[format = <{pretty|cli}>]

The format of the rule list.

#### trigger rule modify

Modify a rule.

Syntax : modify chain = <chain name> [index = <number>] [newindex = <number>]

[name = <string>] [clink = <chain name>] [[!]srcintf]

[[!]srcip] [[!]dstintf] [[!]dstip] [[!]serv]

[log = <{disabled|enabled}>] [state = <{disabled|enabled}>]

[trigger = <{None|link}>]

Parameters :

chain = <chain name>

The name of the chain which contains the rule.

[index = <number>]

The index of the rule in the chain.

[newindex = <number>]

The new index of the rule in the chain.

[name = <string>]

The name of the new rule.

[clink = <chain name>]

The name of the chain to be parsed when this rule applies.

[[!]srcintf]

The name of the source interface expression.

[[!]srcip]

The name of the source ip expression.

[[!]dstintf]

The name of the destination interface expression.

[[!]dstip]

The name of the destination ip expression.

[[!]serv]

The name of the service expression.

[log = <{disabled|enabled}>]

Disable/Enable logging when this rule applies.

[state = <{disabled|enabled}>]

Disable/Enable this rule.

[trigger = <{None|link}>]

None, link (when clink is used) or trigger name.

#### upgrade

Following commands are available :

config : Change the upgrade daemon configuration

start : Start a new upgrade

ifadd : Add a download interface

ifattach : Attach a download interface

ifdetach : Detach a download interface

ifdelete : Delete a download interface

ifconfig : Configure a download interface  
iflist : List download interfaces

Following command groups are available :

debug profile

upgrade config

Change the upgrade daemon configuration

Syntax : config [state = <{disabled|enabled}>]  
[protocol = <{tftp|ftp|http|https}>]

Parameters :

[state = <{disabled|enabled}>]

The upgrade daemon state

[protocol = <{tftp|ftp|http|https}>]

The transfer protocol to be used for file download

upgrade debug

Following commands are available :

traceconfig : Enable/disable upgrade daemon tracing

sesslist : Display the list of sessions

upgrade debug sesslist

Display the list of sessions

Syntax : sesslist

upgrade debug traceconfig

Enable/disable upgrade daemon tracing

Syntax : traceconfig state = <{disabled|enabled}>

Parameters :

state = <{disabled|enabled}>

The upgrade daemon trace state

upgrade ifadd

Add a download interface

Syntax : ifadd intf = <string>

Parameters :

intf = <string>

A download interface

upgrade ifattach

Attach a download interface

Syntax : ifattach intf = <>

Parameters :

intf = <>

A download interface.

upgrade ifconfig

Configure a download interface

Syntax : ifconfig intf = <> [protocol = <{tftp|ftp|http|https}>]  
[dest = <{loop|LocalNetwork|Internet}>] [server = <string>]  
[file = <string>] [time = <number>]

Parameters :

intf = <>

A download interface.

[protocol = <{tftp|ftp|http|https}>]

The transfer protocol

[dest = <{loop|LocalNetwork|Internet}>]

An network interface name.

[server = <string>]

The servername

[file = <string>]

The servername

[time = <number>]

download cycle time (in secs)

upgrade ifdelete

Delete a download interface

Syntax : ifdelete intf = <>

Parameters :

intf = <>

A download interface.

upgrade ifdetach

Detach a download interface

Syntax : ifdetach intf = <>

Parameters :

intf = <>

A download interface.

upgrade iflist

List download interfaces

Syntax : iflist

upgrade profile

Following commands are available :

add : Add a new file profile description

modify : Modify a file profile description

delete : Delete a file profile description

list : Display a list of the file profile descriptions

upgrade profile add

Add a new file profile description

Syntax : add extension = <{sts|ini|bin}> [maxsize(KBytes) = <number>]

action = <{none|config\_load|script\_load|reboot|upgrade}>

Parameters :

extension = <{sts|ini|bin}>

The extension of the new file profile

[maxsize(KBytes) = <number>]

The maximum filesize (in KBytes) allowed for files with the extension of this profile

action = <{none|config\_load|script\_load|reboot|upgrade}>

The action to be done when the file with the extension of this profile is downloaded

upgrade profile delete

Delete a file profile description

Syntax : delete extension = <{sts|ini|bin}>

Parameters :

extension = <{sts|ini|bin}>

The extension of the file profile to be deleted

upgrade profile list

Display a list of the file profile descriptions

Syntax : list

upgrade profile modify

Modify a file profile description

Syntax : modify extension = <{sts|ini|bin}> [maxsize(KBytes) = <number>]  
action = <{none|config\_load|script\_load|reboot|upgrade}>

Parameters :

extension = <{sts|ini|bin}>

The extension of the new file profile

[maxsize(KBytes) = <number>]

The maximum filesize (in KBytes) allowed for files with the extension of this profile

action = <{none|config\_load|script\_load|reboot|upgrade}>

The action to be done when the file with the extension of this profile is downloaded

upgrade start

Start a new upgrade

Syntax : start protocol = <{tftp|ftp|http|https}> [server = <string>]  
[filename = <string>]

Parameters :

protocol = <{tftp|ftp|http|https}>

The protocol to be used for the download

[server = <string>]

The server name or IP address

[filename = <string>]

The file to be downloaded

upnp

Following commands are available :

config : Config upnp parameter(s)  
flush : Flushes upnp config (i.e. to defaults)  
list : List all registered devices

upnp config

Config upnp parameter(s)

Syntax : config [maxage = <number{60-999999}>]  
[writemode = <{full|natonly|readonly}>]  
[safenat = <{disabled|enabled}>]  
[preferredaddresses = <string>]  
[onlydefault = <{disabled|enabled}>]

Parameters :

[maxage = <number{60-999999}>]

ssdp advertisements MAX-AGE (default = 1800)

[writemode = <{full|natonly|readonly}>]

Configuration access level for UPnP

[safenat = <{disabled|enabled}>]

Enable / disable check on safe nat entries (limited to own host)

[preferredaddresses = <string>]

CSV list of preferred ip addresses for UPnP (1 per lan ip-interface)

[onlydefault = <{disabled|enabled}>]

Only advertise the default WAN connection

upnp flush

Flushes upnp config (i.e. to defaults)

Syntax : flush

upnp list

List all registered devices

Syntax : list [verbose = <number{0-2}>]

Parameters :

[verbose = <number{0-2}>]

Verbose level (default = 1)

user

Following commands are available :

add : Add a user.

delete : Delete a user.

list : Display the users.

config : Modify the user.

flush : Flush the users.

rights : Display session rights.

user add

Add a user.

Syntax : add name = <string> password = <password> role = <>

[hash2 = <string>] [crypt = <string>] [lm = <password>]

[ntlm = <password>] [descr = <quoted string>]

[defuser = <{disabled|enabled}>]

[defremadmin = <{disabled|enabled}>]

[deflocadmin = <{disabled|enabled}>]

Parameters :

name = <string>

User name.

password = <password>

User password.

role = <>

Role name.

[hash2 = <string>]

The MD5 hash.

[crypt = <string>]

The crypt password.

[lm = <password>]

The cifs lm password.

[ntlm = <password>]

The cifs ntlm password.

[descr = <quoted string>]

User description.

[defuser = <{disabled|enabled}>]

Set this user as the default user.

[defremadmin = <{disabled|enabled}>]

Set this user as the default remote administrator.

[deflocadmin = <{disabled|enabled}>]

Set this user as the default local administrator.

user config

Modify the user.

Syntax : config name = <{ Administrator|su|tech|steve }>

[password = <password>] [role = <>] [descr = <quoted string>]

[defuser = <{disabled|enabled}>]

[defremadmin = <{disabled|enabled}>]

[deflocadmin = <{disabled|enabled}>]

Parameters :

name = <{ Administrator|su|tech|steve }>

User name.

[password = <password>]

User password.

[role = <>]

Role name.

[descr = <quoted string>]

User description.

[defuser = <{disabled|enabled}>]

Set this user as the default user.

[defremadmin = <{disabled|enabled}>]

Set this user as the default remote administrator.

[deflocadmin = <{disabled|enabled}>]

Set this user as the default local administrator.

user delete

Delete a user.

Syntax : delete name = <{ Administrator|su|tech|steve }>

Parameters :

name = <{ Administrator|su|tech|steve }>

User name.

user flush

Flush the users.

Syntax : flush

user list

Display the users.

Syntax : list [name = <{ Administrator|su|tech|steve }>]

[channel = <{ ftp|telnet|http|mdap|serial }>]

[origin = <{lan|wan|local}>] [secure = <{disabled|enabled}>]

Parameters :

[name = <{ Administrator|su|tech|steve }>]

User name.

[channel = <{ ftp|telnet|http|mdap|serial }>]

The selected channel.

[origin = <{lan|wan|local}>]

The selected origin.

[secure = <{disabled|enabled}>]

The selected security level.

user rights

Display session rights.

Syntax : rights

voice

Following commands are available :

state : show VOIP service states  
config : Configure the general parameters  
list : Display the general parameters

Following command groups are available :

cac	codec	country	debug	decthandset
dectport	dialplan	dns	fax	fxoport
fxsport	numbtransl	pb	profile	qos
ringing	services	sip	stats	tone

voice cac

Following commands are available :

config : Configure call admission control  
list : Show the call admission control

voice cac config

Configure call admission control

Syntax : config [max#portsperprofile = <{one|all}>]

Parameters :

[max#portsperprofile = <{one|all}>]

The maximum number of ports that can be used with a common profile

voice cac list

Show the call admission control

Syntax : list

voice codec

Following commands are available :

list : Show the CODEC capability configuration  
config : Configure a CODEC capability

Following command groups are available :

dynamic

voice codec config

Configure a CODEC capability

Syntax : config type = <{g711u|g711a|g722|g723\_1|g726\_16|g726\_24|g726\_32|g726\_40|g729}>

[ptime = <{10|30|20}>] [ptime\_g723 = <{30}>]

[vad = <{disabled|enabled}>] [priority = <number{1-10}>]

[status = <{disabled|enabled}>]

Parameters :

type = <{g711u|g711a|g722|g723\_1|g726\_16|g726\_24|g726\_32|g726\_40|g729}>

The codec type

[ptime = <{10|30|20}>]

The packet time

[ptime\_g723 = <{30}>]

The packet time

[vad = <{disabled|enabled}>]

Enable or disable Voice Activity Detection

[priority = <number{1-10}>]

The codec capability priority

[status = <{disabled|enabled}>]

Enable or disable this capability

voice codec dynamic

Following commands are available :

list : Show the dynamic CODEC capability configuration

config : Configure a dynamic CODEC capability

voice codec dynamic config

Configure a dynamic CODEC capability

Syntax : config type = <{rfc2833|g723\_1|g726\_16|g726\_24|g726\_32|g726\_40}>

payloadtype = <number{96-128}>

Parameters :

type = <{rfc2833|g723\_1|g726\_16|g726\_24|g726\_32|g726\_40}>

The codec type

payloadtype = <number{96-128}>

The payload type

voice codec dynamic list

Show the dynamic CODEC capability configuration

Syntax : list

voice codec list

Show the CODEC capability configuration

Syntax : list

voice config

Configure the general parameters

Syntax : config [autofxo = <{disabled|enabled}>]

[digitrelay = <{auto|inband|rfc2833|signalling}>]

[click2dial\_ports = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>]

[rtp\_porrange = <string>]

[sign\_internal = <{external|internal}>]

[static\_intf = <{disabled|enabled}>]

[intf = <{loop|LocalNetwork|Internet}>]

[secondintf = <{loop|LocalNetwork|Internet}>]

[endofnumber = <{#|\*|none}>] [countrycode = <number>]

[delayedisconnect = <{enabled|disabled}>]

[delayedisconnecttimer = <number>]

[ringmuteduration = <number>]

[feature-mngt = <{internal|external}>]

[nocallsetupmsg = <{never|unav-numb}>]

[syslogscope = <{none|only-stats|only-dm-events|only-msgs|all}>]

Parameters :

[autofxo = <{disabled|enabled}>]

Automatically make FXO calls when not registered

[digitrelay = <{auto|inband|rfc2833|signalling}>]

Set the digit relay mode



[click2dial\_ports = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>]  
 Set the click to dial port

[rtp\_portrange = <string>]  
 The RTP port range <[startport]-[endport]>

[sign\_internal = <{external|internal}>]  
 Signalling for local calls is kept local or external

[static\_intf = <{disabled|enabled}>]  
 Use a static (configured) interface to look for the IP address or not

[intf = <{loop|LocalNetwork|Internet}>]  
 The name of a IP interface to be used for VOIP traffic.

[secondintf = <{loop|LocalNetwork|Internet}>]  
 The name of a backup IP interface to be used for VOIP traffic.

[endofnumber = <{#|\*|none}>]  
 The end of number character for dialled number starting with a cipher

[countrycode = <number>]  
 Local countrycode

[delayedisconnect = <{enabled|disabled}>]  
 Enable or disable the delayed disconnect feature

[delayedisconnecttimer = <number>]  
 Delayed disconnect timer (seconds)

[ringmuteduration = <number>]  
 Early media mute duration (in ms)

[feature-mngt = <{internal|external}>]  
 Feature management internal or external

[nocallsetupmsg = <{never|unav-numb}>]  
 Send call setup message

[syslogscope = <{none|only-stats|only-dm-events|only-msgs|all}>]  
 Syslog Scope

voice country

Following commands are available :

config : Configure country  
 list : Show the selected country  
 countrylist : List available countries

voice country config

Configure country

Syntax : config country = <{etsi|argentina|australia|belgium|brazil|canada|chile|croatia|denmark|france1|france3|germany|greece|hungary|iceland|italy|macedonia|netherlands|newzealand|northamerica|norway|portugal1|portugal2|singapore|slovenia|spain|sweden|uk}>

Parameters :

country = <{etsi|argentina|australia|belgium|brazil|canada|chile|croatia|denmark|france1|france3|germany|greece|hungary|iceland|italy|macedonia|netherlands|newzealand|northamerica|norway|portugal1|portugal2|singapore|slovenia|spain|sweden|uk}>

Load this country's specific settings into the DSP

voice country countrylist

List available countries

Syntax : countrylist

voice country list

Show the selected country

Syntax : list  
voice debug

Following commands are available :

exec : Execute a 'Trace & Debug' command. For qualified personnel only.

voice debug exec

Execute a 'Trace & Debug' command. For qualified personnel only.

Syntax : exec cmd = <quoted string>

Parameters :

cmd = <quoted string>

The debug command (or help)

voice decthandset

Following commands are available :

list : Show information about the DECT Handsets

Following command groups are available :

upgrade

voice decthandset list

Show information about the DECT Handsets

Syntax : list

voice decthandset upgrade

Following commands are available :

config : Configure the upgrade parameters for DECT handset update

list : Show upgrade configuration for DECT handset update

Following command groups are available :

url

voice decthandset upgrade config

Configure the upgrade parameters for DECT handset update

Syntax : config [state = <{disabled|enabled}>]

[initialcheck = <{disabled|enabled}>]

[periodiccheckperiod = <number>]

[upgradeatchangedurl = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

UPDATE\_STATE

[initialcheck = <{disabled|enabled}>]

initial check

[periodiccheckperiod = <number>]

periodic upgrade check period

[upgradeatchangedurl = <{disabled|enabled}>]

upgrade at changed url

voice decthandset upgrade list

Show upgrade configuration for DECT handset update

Syntax : list

voice decthandset upgrade url  
Following commands are available :

add : Add a new entry to the DECT HandsetUpgrade URL table  
list : Show configuration for DECT HandsetUpgrade URL table  
flush : Delete all entries in the DECT HandsetUpgrade URL table  
delete : Delete an entry in the DECT HandsetUpgrade URL table

voice decthandset upgrade url add  
Add a new entry to the DECT HandsetUpgrade URL table  
Syntax : add hardwarevendor = <string> [hardwareversion = <string>]  
url = <string>

Parameters :  
hardwarevendor = <string>  
Name of the Hardware Vendor  
[hardwareversion = <string>]  
Hardware version info  
url = <string>  
Firmware download URL/path

voice decthandset upgrade url delete  
Delete an entry in the DECT HandsetUpgrade URL table  
Syntax : delete hardwarevendor = <string> [hardwareversion = <string>]

Parameters :  
hardwarevendor = <string>  
Name of the Hardware Vendor  
[hardwareversion = <string>]  
Hardware version info

voice decthandset upgrade url flush  
Delete all entries in the DECT HandsetUpgrade URL table  
Syntax : flush

voice decthandset upgrade url list  
Show configuration for DECT HandsetUpgrade URL table  
Syntax : list

voice dectport  
Following commands are available :

config : Configure the DECT Base parameters  
list : Show the DECT Base configuration

voice dectport config  
Configure the DECT Base parameters  
Syntax : config [pin = <string>] [substimeout = <number{0-600}>]  
[clearsubs = <{no|yes}>]  
[reinsert-window-trigger-pairing = <number{0-600}>]

Parameters :  
[pin = <string>]  
DECT pin code  
[substimeout = <number{0-600}>]  
DECT subscription timeout in seconds (0 is unlimited)  
[clearsubs = <{no|yes}>]  
Clear DECT subscriptions  
[reinsert-window-trigger-pairing = <number{0-600}>]

Timeout in seconds to start automatic pairing(0 is disabled)

voice dectport list

Show the DECT Base configuration

Syntax : list

voice dialplan

Following commands are available :

add : Add an entry in the dialplan  
delete : Delete an entry in the dialplan  
modify : Modify an entry in the dialplan  
list : Display the complete dialplan  
flush : Delete all user-entered dialplan entries

voice dialplan add

Add an entry in the dialplan

Syntax : add prefix = <string>

defaultport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

fallbackport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

priority = <{NA|Low|High}> fallback = <{disabled|enabled}>

minimumdigits = <number{1-31}> maximumdigits = <number{1-31}>

posofmodify = <number{0-31}> remnumdigits = <number{0-31}>

[insert = <string>] rescan = <{no|yes}> data = <{no|yes}>

action = <{none|ROUTE\_excl\_eon|ROUTE\_incl\_eon}>

Parameters :

prefix = <string>

The prefix, identifies this entry

defaultport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

The default outgoing port

fallbackport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

The fallback outgoing port

priority = <{NA|Low|High}>

The priority of the entry

fallback = <{disabled|enabled}>

The fallback mechanism status of this entry

minimumdigits = <number{1-31}>

The minimum number of digits

maximumdigits = <number{1-31}>

The maximum number of digits

posofmodify = <number{0-31}>

Startposition at which a number of digits must be removed

remnumdigits = <number{0-31}>

The number of digits that need to be removed from the complete number

[insert = <string>]

String which must be inserted at PosOfModify after removing RemNumDigits

rescan = <{no|yes}>

Rescanning of the number needed or not

data = <{no|yes}>

This entry is used for data calls or not

action = <{none|ROUTE\_excl\_eon|ROUTE\_incl\_eon}>

Action parameter

voice dialplan delete

Delete an entry in the dialplan

Syntax : delete prefix = <string>

Parameters :

prefix = <string>

The prefix, identifies this entry

voice dialplan flush

Delete all user-entered dialplan entries

Syntax : flush

voice dialplan list

Display the complete dialplan

Syntax : list

voice dialplan modify

Modify an entry in the dialplan

Syntax : modify prefix = <string> newprefix = <string>

defaultport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

fallbackport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

priority = <{NA|Low|High}> fallback = <{disabled|enabled}>

minimumdigits = <number{1-31}> maximumdigits = <number{1-31}>

posofmodify = <number{0-31}> remnumdigits = <number{0-31}>

[insert = <string>] rescan = <{no|yes}> data = <{no|yes}>

action = <{none|ROUTE\_excl\_eon|ROUTE\_incl\_eon}>

Parameters :

prefix = <string>

The prefix, identifies this entry

newprefix = <string>

The prefix, identifies this entry

defaultport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

The default outgoing port

fallbackport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|FXO|VoIP|NA}>

The fallback outgoing port

priority = <{NA|Low|High}>

The priority of the entry

fallback = <{disabled|enabled}>

The fallback mechanism status of this entry

minimumdigits = <number{1-31}>

The minimum number of digits

maximumdigits = <number{1-31}>

The maximum number of digits

posofmodify = <number{0-31}>

Startposition at which a number of digits must be removed

remnumdigits = <number{0-31}>

The number of digits that need to be removed from the complete number

[insert = <string>]

String which must be inserted at PosOfModify after removing RemNumDigits

rescan = <{no|yes}>

Rescanning of the number needed or not

data = <{no|yes}>

This entry is used for data calls or not

action = <{none|ROUTE\_excl\_eon|ROUTE\_incl\_eon}>

Action parameter

voice dns

Following commands are available :

config : Configure DNS  
list : Show the DNS configuration

voice dns config

Configure DNS

Syntax : config [startentry = <{first|random}>] [maxentries = <number{1-24}>]

Parameters :

[startentry = <{first|random}>]

Entry to start with in the registration procedure

[maxentries = <number{1-24}>]

Maximum nbr of used entries in a DNS response

voice dns list

Show the DNS configuration

Syntax : list

voice fax

Following commands are available :

config : Configure the fax parameters

list : Show the fax configuration

voice fax config

Configure the fax parameters

Syntax : config [detect\_timeout = <number{0-120}>]

[early-detect-faxmodem = <{enabled|disabled}>]

[transport = <{inband\_auto|inband\_reneg|t38}>]

[udptl\_redun = <number{0-3}>]

Parameters :

[detect\_timeout = <number{0-120}>]

The time-out in seconds used to detect FAX(0 is no time-out)

[early-detect-faxmodem = <{enabled|disabled}>]

Detect fax or modem early

[transport = <{inband\_auto|inband\_reneg|t38}>]

The type of fax transport

[udptl\_redun = <number{0-3}>]

The number of secondary IFP packets

voice fax list

Show the fax configuration

Syntax : list

voice fxoport

Following commands are available :

config : Configure the FXO port parameters

list : Show the FXO port configuration

voice fxoport config

Configure the FXO port parameters

Syntax : config [fxodisconnect = <number{500-5000}>]

[incfxodest = <{FXS|FXS1|FXS2|DECT|all|none}>]

Parameters :

[fxodisconnect = <number{500-5000}>]

The FXO disconnect timer (in ms)

[incfxodest = <{FXS|FXS1|FXS2|DECT|all|none}>]

Select destination for incoming FXO calls

voice fxoport list

Show the FXO port configuration

Syntax : list

voice fxsport

Following commands are available :

config : Configure the FXS port parameters

list : Show the FXS port configuration

voice fxsport config

Configure the FXS port parameters

Syntax : config [interdigit = <number{ 10-30000}>]

[interdigitOpen = <number{ 10-30000}>]

Parameters :

[interdigit = <number{ 10-30000}>]

The interdigit timer (in ms)

[interdigitOpen = <number{ 10-30000}>]

The closed number interdigit timer (in ms)

voice fxsport list

Show the FXS port configuration

Syntax : list

voice list

Display the general parameters

Syntax : list

voice numbtransl

Following commands are available :

config : Configure number translation

list : Show the number translation

voice numbtransl config

Configure number translation

Syntax : config [Globalnumbpostprocess = <{disabled|enabled}>]

Parameters :

[Globalnumbpostprocess = <{disabled|enabled}>]

Enables or disables the number postprocessing

voice numbtransl list

Show the number translation

Syntax : list

voice pb

Following commands are available :

add : Add phonebook entry in the phonebook

voice pb add

Add phonebook entry in the phonebook

Syntax : add Lastname = <quoted string> Firstname = <quoted string>

[Business = <quoted string>] [Home = <quoted string>]

[Mobile = <quoted string>] [Other = <quoted string>]

[E-mail = <quoted string>]

Parameters :

Lastname = <quoted string>

The lastname

Firstname = <quoted string>

The firstname

[Business = <quoted string>]

The business number

[Home = <quoted string>]

The home number

[Mobile = <quoted string>]

The mobile number

[Other = <quoted string>]

Any other number

[E-mail = <quoted string>]

E-mail address

voice profile

Following commands are available :

add : Add profile  
delete : Delete profile  
modify : Modify profile  
list : Show all profiles  
flush : Flush all profiles

voice profile add

Add profile

Syntax : add SIP\_URI = <string> [username = <string>] [password = <password>]

[displayname = <quoted string>]

voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|COMMON|  
DECT}>

[abbr = <string>] [enable = <{disabled|enabled}>]

Parameters :

SIP\_URI = <string>

The SIP URI related to this voice port

[username = <string>]

The authentication username related to this voice port

[password = <password>]

The authentication password related to this voice port

[displayname = <quoted string>]

An alias name for the SIP\_URI

voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|COMMON|DECT}>

The analogue line number

[abbr = <string>]

An abbreviated number that will be mapped to the SIP\_URI

[enable = <{disabled|enabled}>]

Enable or disable this profile

voice profile delete

Delete profile

Syntax : delete SIP\_URI = <string>

Parameters :

SIP\_URI = <string>

The SIP URI related to this voice port



voice profile flush

Flush all profiles

Syntax : flush

voice profile list

Show all profiles

Syntax : list

voice profile modify

Modify profile

Syntax : modify Index = <{0}> [SIP\_URI = <string>] [username = <string>]

[password = <password>] [displayname = <quoted string>]

[voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|COMMON|

DECT}>]

[abbr = <string>] [enable = <{disabled|enabled}>]

Parameters :

Index = <{0}>

The index of the profile you wish to modify

[SIP\_URI = <string>]

The SIP URI related to this voice port

[username = <string>]

The authentication username related to this voice port

[password = <password>]

The authentication password related to this voice port

[displayname = <quoted string>]

An alias name for the SIP\_URI

[voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|COMMON|DECT}>]

The analogue line number

[abbr = <string>]

An abbreviated number that will be mapped to the SIP\_URI

[enable = <{disabled|enabled}>]

Enable or disable this profile

voice qos

Following commands are available :

list : Show the QOS configuration

config : Configure the QOS parameters

voice qos config

Configure the QOS parameters

Syntax : config type = <{Signaling|Realtime}> qosfield = <{DSCP|precedence}>

dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|

af42|af43|cs0|cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>

precedence = <{routine|priority|immediate|flash|flash-override|

CRITIC-ECP|internetnetwork-control|network-control}

or number>

Parameters :

type = <{Signaling|Realtime}>

The type of traffic that needs qos

qosfield = <{DSCP|precedence}>

The QOS field to be used

dscp = <{ef|af11|af12|af13|af21|af22|af23|af31|af32|af33|af41|af42|af43|cs0|

cs1|cs2|cs3|cs4|cs5|cs6|cs7} or number>

The DSCP value

precedence = <{routine|priority|immediate|flash|flash-override|CRITIC-ECP|

internetwork-control|network-control} or number>  
The precedence value

voice qos list  
Show the QOS configuration  
Syntax : list

voice ringing  
Following command groups are available :

descrtable    eventtable    patterntable

voice ringing descrtable  
Following commands are available :

set            : Set a specific profile for future ringing modifications  
                  (current value = 30109825)  
add            : Add a ringing description  
delete         : Delete a ringing description  
modify         : Modify ring description  
list           : Show all ringing descriptions  
flush          : Flush all ringing descriptions

voice ringing descrtable add  
Add a ringing description  
Syntax : add ringid = <number> status = <{disabled|enabled}>  
          ringname = <quoted string> [patternentryid = <number>]  
          maxduration = <number> [alertinfo = <quoted string>]

Parameters :  
ringid = <number>  
  Ring ID  
status = <{disabled|enabled}>  
  Enable or disable this ringing  
ringname = <quoted string>  
  Name of the ringing  
[patternentryid = <number>]  
  Entry ID in pattern table  
maxduration = <number>  
  Max. duration  
[alertinfo = <quoted string>]  
  Exact content of the linked Alert-Info header

voice ringing descrtable delete  
Delete a ringing description  
Syntax : delete ringid = <number>

Parameters :  
ringid = <number>  
  Ring ID

voice ringing descrtable flush  
Flush all ringing descriptions  
Syntax : flush  
voice ringing descrtable list  
Show all ringing descriptions  
Syntax : list profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice ringing descrtable modify

Modify ring description

Syntax : modify ringid = <number> [status = <{disabled|enabled}>]  
[ringname = <quoted string>] [patternentryid = <number>]  
[maxduration = <number>] [alertinfo = <quoted string>]

Parameters :

ringid = <number>

Ring ID

[status = <{disabled|enabled}>]

Enable or disable this ringing

[ringname = <quoted string>]

Name of the ringing

[patternentryid = <number>]

Entry ID in pattern table

[maxduration = <number>]

Max. duration

[alertinfo = <quoted string>]

Exact content of the linked Alert-Info header

voice ringing descrtable set

Set a specific profile for future ringing modifications (current value = 30109825)

Syntax : set profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice ringing eventtable

Following commands are available :

set : Set a specific profile for future ringing modifications  
(current value = 30109825)

modify : Modify a ringing event

list : Show all ringing events

flush : Flush all ringing events

voice ringing eventtable flush

Flush all ringing events

Syntax : flush

Parameters :

voice ringing eventtable list

Show all ringing events

Syntax : list profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice ringing eventtable modify

Modify a ringing event

Syntax : modify eventid = <number> ringid = <number>

Parameters :

eventid = <number>

Event ID

ringid = <number>

Ring ID

voice ringing eventtable set

Set a specific profile for future ringing modifications (current value = 30109825)

Syntax : set profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice ringing pattertable

Following commands are available :

set : Set a specific profile for future ringing modifications  
(current value = 30109825)

add : Add a ringing pattern

delete : Delete a ringing pattern

modify : Modify a ringing pattern

list : Show all ringing patterns

flush : Flush all ringing patterns

voice ringing pattertable add

Add a ringing pattern

Syntax : add id = <number> ringing = <{off|on}> duration = <number>  
[nextentry = <number>]

Parameters :

id = <number>

ID of the ring pattern

ringing = <{off|on}>

Enable or disable this ring

duration = <number>

Duration (ms)

[nextentry = <number>]

Next pattern entry

voice ringing pattertable delete

Delete a ringing pattern

Syntax : delete id = <number>

Parameters :

id = <number>

ID of the ring pattern

voice ringing pattertable flush

Flush all ringing patterns

Syntax : flush

voice ringing pattertable list

Show all ringing patterns

Syntax : list profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice ringing patterntable modify

Modify a ringing pattern

Syntax : modify id = <number> [ringing = <{off|on}>] [duration = <number>]

[nextentry = <number>]

Parameters :

id = <number>

ID of the ring pattern

[ringing = <{off|on}>]

Enable or disable this ring

[duration = <number>]

Duration (ms)

[nextentry = <number>]

Next pattern entry

voice ringing patterntable set

Set a specific profile for future ringing modifications (current value = 30109825)

Syntax : set profile = <string>

Parameters :

profile = <string>

Profile on which future ringing operations must be done

voice services

Following commands are available :

list : Show the supplementary service configuration  
config : General supplementary service configuration  
servicelist : Show the supplementary service configuration  
provision : Provision a supplementary service  
withdraw : Withdraw a supplementary service  
activate : Activate a supplementary service  
deactivate : Deactivate a supplementary service  
assign : Assign a servicecode to a supplementary service in standard mode  
assign\_pxsc : Assign a servicecode to a supplementary service in non\_standard mode  
flush : Flush all supplementary services

Following command groups are available :

soc

voice services activate

Activate a supplementary service

Syntax : activate type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs}>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs}>

The supplementary service type

voice services assign

Assign a servicecode to a supplementary service in standard mode

Syntax : assign type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs}>  
servicecode = <string>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs}>

The supplementary service type

servicecode = <string>

The service activation code

voice services assign\_pxsc

Assign a servicecode to a supplementary service in non\_standard mode

Syntax : assign\_pxsc type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs|clironcall|waitingoncall}>  
action = <{activate|deactivate|interrogate}>  
action\_oncall = <{activate|deactivate}>  
action\_cf = <{activate|deactivate|register|activate\_and\_register|interrogate}>  
action\_act = <{activate}> servicecode = <string>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs|clironcall|waitingoncall}>

The supplementary service type

action = <{activate|deactivate|interrogate}>

The supplementary service action

action\_oncall = <{activate|deactivate}>

The supplementary service action

action\_cf = <{activate|deactivate|register|activate\_and\_register|interrogate}>

The supplementary service action

action\_act = <{activate}>

The supplementary service action

servicecode = <string>

The service code

voice services config

General supplementary service configuration

Syntax : config [mwi\_phone = <{immediate|deferred|both}>]  
[mwi\_network = <{solicited|unsolicited}>]  
[prefix\_servcode = <{standard|nonstandard}>]  
[servcode\_cmd = <{standard|nonstandard}>]  
[cfu\_dest = <string>] [cfnr\_timer = <number{0-600}>]  
[cfnr\_dest = <string>] [cfbs\_dest = <string>]  
[hfhf\_feature = <{disabled|enabled}>]  
[cw\_reject\_persistence = <{disabled|enabled}>]  
[cw\_timer = <number{0-120}>]  
[cw\_reject\_scope = <{specific|common}>]

Parameters :

[mwi\_phone = <{immediate|deferred|both}>]

The way the phone reacts on a message waiting indication

[mwi\_network = <{solicited|unsolicited}>]

The way the network protocol implements the message waiting indication service

[prefix\_servcode = <{standard|nonstandard}>]

The way the service codes are assigned

[servcode\_cmd = <{standard|nonstandard}>]

The way the service code command is used

[cfu\_dest = <string>]

The destination for the CFU service

[cfnr\_timer = <number{0-600}>]

The CFNR timer value

[cfnr\_dest = <string>]

The destination for the CFNR service

[cfbs\_dest = <string>]

The destination for the CFBS service

[hfhf\_feature = <{disabled|enabled}>]

Enable/disable hfhf\_feature

[cw\_reject\_persistence = <{disabled|enabled}>]

Enable/disable cw\_reject\_persistence

[cw\_timer = <number{0-120}>]

The CW timer value

[cw\_reject\_scope = <{specific|common}>]

The scope of the rejection when the huntgroup is involved

voice services deactivate

Deactivate a supplementary service

Syntax : deactivate type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs}>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs}>

The supplementary service type

voice services flush

Flush all supplementary services

Syntax : flush

Parameters :

voice services list

Show the supplementary service configuration

Syntax : list

voice services provision

Provision a supplementary service

Syntax : provision type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs}>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs}>

The supplementary service type

voice services servicelist

Show the supplementary service configuration

Syntax : servicelist

voice services soc

Following commands are available :

config : General switching order configuration

list : Show the switching order configuration

modify : Configure switching order codes

soclist : Show the switching order codes

voice services soc config

General switching order configuration

Syntax : config [Registerrecalltimer = <number{0-60}>]

Parameters :

[Registerrecalltimer = <number{0-60}>]

The Register recall timer value in seconds

voice services soc list

Show the switching order configuration

Syntax : list

voice services soc modify

Configure switching order codes

Syntax : modify function = <{HoldActiveCallAndEnableCallSetup|

NoActiveCallRetrieveHeld}>

SOC = <{HF|HF1|HF2|HFTO|HFTOorHF2}>

Parameters :

function = <{HoldActiveCallAndEnableCallSetup|NoActiveCallRetrieveHeld}>

Switching function

SOC = <{HF|HF1|HF2|HFTO|HFTOorHF2}>

Switching order code

voice services soc soclist

Show the switching order codes

Syntax : soclist

voice services withdraw

Withdraw a supplementary service

Syntax : withdraw type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|

forcedFXO|cfu|cfnr|cfbs|callreturn|ccbs}>

Parameters :

type = <{transfer|hold|waiting|mwi|clip|clir|acr|3pty|forcedFXO|cfu|cfnr|

cfbs|callreturn|ccbs}>

The supplementary service type

voice sip

Following commands are available :

config : Configure the SIP general parameters

list : Display the SIP general parameters

Following command groups are available :



responsemap sdp

voice sip config

Configure the SIP general parameters

Syntax : config [useragentdomain = <string>] [primproxyaddr = <string>]

[secproxyaddr = <string>]

[proxyport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[secproxyport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|

bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[primregaddr = <string>] [secregaddr = <string>]

[regport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|

bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[regexpire = <number{ 60-65535 }>]

[regexpire\_Tbefore = <number{ 1-60 }>]

[notifier\_addr = <string>]

[notifier\_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|

bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|

```

sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows} or number>]
[subscribe_expire = <number{ 60-65535}>]
[CWreply = <{182|180}>] [transport = <{UDP|TCP}>]
[rtpmapstaticPT = <{disabled|enabled}>]
[reinvite_stop_audio = <{disabled|enabled}>]
[PRACK = <{disabled|enabled}>]
[clirformat = <{standard|nonstandard}>]
[DTMF*#inINFO = <{*#|1011}>]
[clip_consider_displayname = <{no|yes}>]
[sdp_ptime = <{10|20|30|notsent}>]
[replace# = <{enabled|disabled}>]
[symmetriccodec = <{enabled|disabled}>]
[reinvite_at_cgfax_detect = <{enabled|disabled}>]
[SIPURI_port = <{enabled|disabled}>]
[rport = <{enabled|disabled}>] [SDP_username = <string>]
[ringtoneat183 = <{disabled|enabled}>]
[t38portincrement = <number{0-65535}>]
[ping = <number{0-86400}>] [min-se = <number{0-604800}>]
[session-expires = <number{0-604800}>]
[expires = <number{0-3600}>]
[register-backoff-timer = <number{0-86400}>]
[stickyoutbproxy = <{disabled|enabled}>]
[privacy = <{ignore|strict|loose}>]
[SDP_username_per_UA = <{disabled|enabled}>]
[stop_register_on_403 = <{disabled|enabled}>]
[transport_in_contact = <{disabled|enabled}>]
[distinct_t38_port = <{disabled|enabled}>]
[timert1 = <number{0-1048575}>]
[timert2 = <number{1-1048575}>]
[timertf = <number{1-1048575}>]

```

Parameters :

```

[useragentdomain = <string>]
    User Agent domain
[primproxyaddr = <string>]
    Primary outbound proxy address or FQDN
[secproxyaddr = <string>]
    Secondary outbound proxy address or FQDN
[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
    chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
    finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
    ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|
    netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|
    nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
    realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
    sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
    timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
    whoami|xwindows} or number>]
    Primary outbound proxy port
[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
    chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
    finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
    imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|
    login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|
    new-rwho|nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|

```

printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|  
snmptrap|snpp|snpt|sql\*net|sql-net|sqlserv|sunrpc|syslog|  
sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|  
uucp-rlogin|who|www-http|whoami|xwindows } or number>]

Secondary outbound proxy port

[primregaddr = <string>]

Primary registrar address or domain

[secregaddr = <string>]

Secondary registrar address or domain

[regport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|  
chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|  
finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|  
ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-  
dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfsd|  
nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|  
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|snpt|  
sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|  
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows } or number>]

Registrar port

[regexpire = <number{ 60-65535 }>]

The registration expire time

[regexpire\_Tbefore = <number{ 1-60 }>]

Time to send new registration request before registration expires

[notifier\_addr = <string>]

Notifier address or FQDN used for MWI

[notifier\_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|doom|  
echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|  
ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|  
kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|  
netwall|netware-ip|new-rwho|nfsd|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|  
rtsp|sip|smtp|snmp|snmptrap|snpp|snpt|sql\*net|sql-net|  
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|  
ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows } or number>]

Notifier port used for MWI

[subscribe\_expire = <number{ 60-65535 }>]

The subscription expire time

[CWreply = <{ 182|180 }>]

The reply to be sent for a waiting call (180/182)

[transport = <{ UDP|TCP }>]

The transport type

[rtpmapstaticPT = <{ disabled|enabled }>]

Enable or disable adding RTP map i.c.o. static PT

[reinvite\_stop\_audio = <{ disabled|enabled }>]

Explicitly stop audio stream in the SDP when sending a re-invite

[PRACK = <{ disabled|enabled }>]

Enable or disable Provisional ACK on provisional responses

[clirformat = <{ standard|nonstandard }>]

The clir format

[DTMF\*#inINFO = <{ \*#|1011 }>]

Format used for \*/# in INFO method

[clip\_consider\_displayname = <{ no|yes }>]

Consider the displayname for CLIP or not

[sdp\_ptime = <{ 10|20|30|notsent }>]

The packet time used in the SDP message

[replace# = <{enabled|disabled}>]  
 Enable or disable the # in INVITE to be replaced by %23

[symmetriccodec = <{enabled|disabled}>]  
 Enable or disable symmetric codecs

[reinvite\_at\_cgfax\_detect = <{enabled|disabled}>]  
 Send re\_invite when calling fax is detected

[SIPURI\_port = <{enabled|disabled}>]  
 Enable or disable the SIPURI port

[rport = <{enabled|disabled}>]  
 Enable or disable the parameter rport

[SDP\_username = <string>]  
 SDP user name

[ringtoneat183 = <{disabled|enabled}>]  
 Enable or disable local ringing when 183 SESSION PROGRESS is received

[t38portincrement = <number{0-65535}>]  
 Offset of T38 port number vs RTP port number.

[ping = <number{0-86400}>]  
 Time between two keepalive ping requests.

[min-se = <number{0-604800}>]  
 The minimum session expires timer.

[session-expires = <number{0-604800}>]  
 The session expires timer.

[expires = <number{0-3600}>]  
 The INVITE expires timer.

[register-backoff-timer = <number{0-86400}>]  
 Fixed backoff timer in registration procedure

[stickyoutbproxy = <{disabled|enabled}>]  
 Outband proxy lock over transactions

[privacy = <{ignore|strict|loose}>]  
 The privacy type can be ignore, strict or loose.

[SDP\_username\_per\_UA = <{disabled|enabled}>]  
 SDP user name per ua

[stop\_register\_on\_403 = <{disabled|enabled}>]  
 Stop register on 403

[transport\_in\_contact = <{disabled|enabled}>]  
 Transporttype in contact header

[distinct\_t38\_port = <{disabled|enabled}>]  
 Used distinct port for T38

[timert1 = <number{0-1048575}>]  
 The T1 expires timer.

[timert2 = <number{1-1048575}>]  
 The T2 expires timer.

[timertf = <number{1-1048575}>]  
 The Tf expires timer.

#### voice sip config

Configure the SIP general parameters

Syntax : config [useragentdomain = <string>] [primproxyaddr = <string>]

[secproxyaddr = <string>]

[proxypport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|

```

pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|
rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-
rlogin|who|www-http|whoami|xwindows } or number>]
[secproxyport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|
discard|dns|domain|doom|echo|exec|finger|ftp|
ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|
kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfs|
nickname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|
smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>]
[primregaddr = <string>] [secregaddr = <string>]
[regport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|dns|
domain|doom|echo|exec|finger|ftp|ftp-data|gopher|
h323|httpproxy|ike|ils|imap2|imap3|ingres-net|
ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfs|nickname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[regexpire = <number{ 60-65535 }>]
[regexpire_Tbefore = <number{ 1-60 }>]
[notifier_addr = <string>]
[notifier_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|
discard|dns|domain|doom|echo|exec|finger|ftp|
ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|
kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfs|
nickname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|
smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>]
[subscribe_expire = <number{ 60-65535 }>]
[CWreply = <{ 182|180 }>] [transport = <{ UDP|TCP }>]
[rtpmapstaticPT = <{ disabled|enabled }>]
[reinvite_stop_audio = <{ disabled|enabled }>]
[PRACK = <{ disabled|enabled }>]
[clirformat = <{ standard|nonstandard }>]
[DTMF*#inINFO = <{ *#|1011 }>]
[clip_consider_displayname = <{ no|yes }>]
[sdp_ptime = <{ 10|20|30|notsent }>]
[replace# = <{ enabled|disabled }>]

```

```

[symmetriccodec = <{enabled|disabled}>]
[reinvite_at_cgfax_detect = <{enabled|disabled}>]
[SIPURI_port = <{enabled|disabled}>]
[rport = <{enabled|disabled}>] [SDP_username = <string>]
[ringtoneat183 = <{disabled|enabled}>]
[t38portincrement = <number{0-65535}>]
[ping = <number{0-86400}>] [min-se = <number{0-604800}>]
[session-expires = <number{0-604800}>]
[expires = <number{0-3600}>]
[register-backoff-timer = <number{0-86400}>]
[stickyoutbproxy = <{disabled|enabled}>]
[privacy = <{ignore|strict|loose}>]
[SDP_username_per_UA = <{disabled|enabled}>]
[stop_register_on_403 = <{disabled|enabled}>]
[transport_in_contact = <{disabled|enabled}>]
[distinct_t38_port = <{disabled|enabled}>]
[timert1 = <number{0-1048575}>]
[timert2 = <number{1-1048575}>]
[timertf = <number{1-1048575}>]

```

Parameters :

```

[useragentdomain = <string>]
  User Agent domain
[primproxyaddr = <string>]
  Primary outbound proxy address or FQDN
[secproxyaddr = <string>]
  Secondary outbound proxy address or FQDN
[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
  ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|
  netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|
  nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
  realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
  sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
  timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
  whoami|xwindows } or number>]
  Primary outbound proxy port
[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
  imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|
  login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|
  new-rwho|nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
  printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
  snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|
  sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|
  uucp-rlogin|who|www-http|whoami|xwindows } or number>]
  Secondary outbound proxy port
[primregaddr = <string>]
  Primary registrar address or domain
[secregaddr = <string>]
  Secondary registrar address or domain
[regport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
  ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-

```

dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfd|  
nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|  
realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|  
sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|  
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows} or number>]

Registrar port

[regexpire = <number{ 60-65535 }>]

The registration expire time

[regexpire\_Tbefore = <number{ 1-60 }>]

Time to send new registration request before registration expires

[notifier\_addr = <string>]

Notifier address or FQDN used for MWI

[notifier\_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|doom|  
echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|  
ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|  
kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|  
netwall|netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|  
rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|  
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|  
ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows} or number>]

Notifier port used for MWI

[subscribe\_expire = <number{ 60-65535 }>]

The subscription expire time

[CWreply = <{ 182|180 }>]

The reply to be sent for a waiting call (180/182)

[transport = <{ UDP|TCP }>]

The transport type

[rtpmapstaticPT = <{ disabled|enabled }>]

Enable or disable adding RTP map i.c.o. static PT

[reinvite\_stop\_audio = <{ disabled|enabled }>]

Explicitly stop audio stream in the SDP when sending a re-invite

[PRACK = <{ disabled|enabled }>]

Enable or disable Provisional ACK on provisional responses

[clirformat = <{ standard|nonstandard }>]

The clir format

[DTMF\*#inINFO = <{ \*#|1011 }>]

Format used for \*/# in INFO method

[clip\_consider\_displayname = <{ no|yes }>]

Consider the displayname for CLIP or not

[sdp\_ptime = <{ 10|20|30|notsent }>]

The packet time used in the SDP message

[replace# = <{ enabled|disabled }>]

Enable or disable the # in INVITE to be replaced by %23

[symmetriccodec = <{ enabled|disabled }>]

Enable or disable symmetric codecs

[reinvite\_at\_cgfax\_detect = <{ enabled|disabled }>]

Send re\_invite when calling fax is detected

[SIPURI\_port = <{ enabled|disabled }>]

Enable or disable the SIPURI port

[rport = <{ enabled|disabled }>]

Enable or disable the parameter rport

[SDP\_username = <string>]

SDP user name

[ringtoneat183 = <{disabled|enabled}>]  
 Enable or disable local ringing when 183 SESSION PROGRESS is received

[t38portincrement = <number{0-65535}>]  
 Offset of T38 port number vs RTP port number.

[ping = <number{0-86400}>]  
 Time between two keepalive ping requests.

[min-se = <number{0-604800}>]  
 The minimum session expires timer.

[session-expires = <number{0-604800}>]  
 The session expires timer.

[expires = <number{0-3600}>]  
 The INVITE expires timer.

[register-backoff-timer = <number{0-86400}>]  
 Fixed backoff timer in registration procedure

[stickyoutbproxy = <{disabled|enabled}>]  
 Outband proxy lock over transactions

[privacy = <{ignore|strict|loose}>]  
 The privacy type can be ignore, strict or loose.

[SDP\_username\_per\_UA = <{disabled|enabled}>]  
 SDP user name per ua

[stop\_register\_on\_403 = <{disabled|enabled}>]  
 Stop register on 403

[transport\_in\_contact = <{disabled|enabled}>]  
 Transporttype in contact header

[distinct\_t38\_port = <{disabled|enabled}>]  
 Used distinct port for T38

[timert1 = <number{0-1048575}>]  
 The T1 expires timer.

[timert2 = <number{1-1048575}>]  
 The T2 expires timer.

[timertf = <number{1-1048575}>]  
 The Tf expires timer.

#### voice sip config

Configure the SIP general parameters

Syntax : config [useragentdomain = <string>] [primproxyaddr = <string>]

[secproxyaddr = <string>]

[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*|net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>]

[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|



```

printer|qotd|realaudio|rip|rtelnet|rtsp|sip|
smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>]
[primregaddr = <string>] [secregaddr = <string>]
[regport = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|discard|dns|
domain|doom|echo|exec|finger|ftp|ftp-data|gopher|
h323|httpproxy|ike|ils|imap2|imap3|ingres-net|
ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-
ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[regexpire = <number{ 60-65535 }>]
[regexpire_Tbefore = <number{ 1-60 }>]
[notifier_addr = <string>]
[notifier_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|
discard|dns|domain|doom|echo|exec|finger|ftp|
ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|
kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfs|
nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
printer|qotd|realaudio|rip|rtelnet|rtsp|sip|
smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>]
[subscribe_expire = <number{ 60-65535 }>]
[CWreply = <{ 182|180 }>] [transport = <{ UDP|TCP }>]
[rtpmapstaticPT = <{ disabled|enabled }>]
[reinvite_stop_audio = <{ disabled|enabled }>]
[PRACK = <{ disabled|enabled }>]
[clirformat = <{ standard|nonstandard }>]
[DTMF*#inINFO = <{ *#|1011 }>]
[clip_consider_displayname = <{ no|yes }>]
[sdp_ptime = <{ 10|20|30|notsent }>]
[replace# = <{ enabled|disabled }>]
[symmetriccodec = <{ enabled|disabled }>]
[reinvite_at_cgfax_detect = <{ enabled|disabled }>]
[SIPURI_port = <{ enabled|disabled }>]
[rport = <{ enabled|disabled }>] [SDP_username = <string>]
[ringtoneat183 = <{ disabled|enabled }>]
[t38portincrement = <number{ 0-65535 }>]
[ping = <number{ 0-86400 }>] [min-se = <number{ 0-604800 }>]
[session-expires = <number{ 0-604800 }>]
[expires = <number{ 0-3600 }>]
[register-backoff-timer = <number{ 0-86400 }>]
[stickyoutbproxy = <{ disabled|enabled }>]
[privacy = <{ ignore|strict|loose }>]
[SDP_username_per_UA = <{ disabled|enabled }>]

```

[stop\_register\_on\_403 = <{disabled|enabled}>]  
[transport\_in\_contact = <{disabled|enabled}>]  
[distinct\_t38\_port = <{disabled|enabled}>]  
[timert1 = <number{0-1048575}>]  
[timert2 = <number{1-1048575}>]  
[timertf = <number{1-1048575}>]

Parameters :

[useragentdomain = <string>]

User Agent domain

[primproxyaddr = <string>]

Primary outbound proxy address or FQDN

[secproxyaddr = <string>]

Secondary outbound proxy address or FQDN

[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Primary outbound proxy port

[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Secondary outbound proxy port

[primregaddr = <string>]

Primary registrar address or domain

[secregaddr = <string>]

Secondary registrar address or domain

[regport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Registrar port

[regexpire = <number{60-65535}>]

The registration expire time

[regexpire\_Tbefore = <number{1-60}>]

Time to send new registration request before registration expires

[notifier\_addr = <string>]

Notifier address or FQDN used for MWI

[notifier\_port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcsrv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

Notifier port used for MWI

[subscribe\_expire = <number{60-65535}>]

The subscription expire time

[CWreply = <{182|180}>]

The reply to be sent for a waiting call (180/182)

[transport = <{UDP|TCP}>]

The transport type

[rtpmapstaticPT = <{disabled|enabled}>]

Enable or disable adding RTP map i.c.o. static PT

[reinvite\_stop\_audio = <{disabled|enabled}>]

Explicitly stop audio stream in the SDP when sending a re-invite

[PRACK = <{disabled|enabled}>]

Enable or disable Provisional ACK on provisional responses

[clirformat = <{standard|nonstandard}>]

The clir format

[DTMF\*#inINFO = <{\*#|1011}>]

Format used for \*/# in INFO method

[clip\_consider\_displayname = <{no|yes}>]

Consider the displayname for CLIP or not

[sdp\_ptime = <{10|20|30|notsent}>]

The packet time used in the SDP message

[replace# = <{enabled|disabled}>]

Enable or disable the # in INVITE to be replaced by %23

[symmetriccodec = <{enabled|disabled}>]

Enable or disable symmetric codecs

[reinvite\_at\_cgfax\_detect = <{enabled|disabled}>]

Send re\_invite when calling fax is detected

[SIPURI\_port = <{enabled|disabled}>]

Enable or disable the SIPURI port

[rport = <{enabled|disabled}>]

Enable or disable the parameter rport

[SDP\_username = <string>]

SDP user name

[ringtoneat183 = <{disabled|enabled}>]

Enable or disable local ringing when 183 SESSION PROGRESS is received

[t38portincrement = <number{0-65535}>]

Offset of T38 port number vs RTP port number.

[ping = <number{0-86400}>]

Time between two keepalive ping requests.

[min-se = <number{0-604800}>]

The minimum session expires timer.

[session-expires = <number{0-604800}>]

The session expires timer.

[expires = <number{0-3600}>]

The INVITE expires timer.

[register-backoff-timer = <number{0-86400}>]

Fixed backoff timer in registration procedure  
 [stickyoutbproxy = <{disabled|enabled}>]  
 Outband proxy lock over transactions  
 [privacy = <{ignore|strict|loose}>]  
 The privacy type can be ignore, strict or loose.  
 [SDP\_username\_per\_UA = <{disabled|enabled}>]  
 SDP user name per ua  
 [stop\_register\_on\_403 = <{disabled|enabled}>]  
 Stop register on 403  
 [transport\_in\_contact = <{disabled|enabled}>]  
 Transporttype in contact header  
 [distinct\_t38\_port = <{disabled|enabled}>]  
 Used distinct port for T38  
 [timert1 = <number{0-1048575}>]  
 The T1 expires timer.  
 [timert2 = <number{1-1048575}>]  
 The T2 expires timer.  
 [timertf = <number{1-1048575}>]  
 The Tf expires timer.

#### voice sip config

Configure the SIP general parameters

Syntax : config [useragentdomain = <string>] [primproxyaddr = <string>]

[secproxyaddr = <string>]

[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>]

[primregaddr = <string>] [secregaddr = <string>]

[regport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|

```

pop2|pop3|printer|qotd|realaudio|rip|rtpnet|rtsp|
sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|
tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
whoami|xwindows } or number>]
[regexpire = <number{ 60-65535 }>]
[regexpire_Tbefore = <number{ 1-60 }>]
[notifier_addr = <string>]
[notifier_port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|
bootpc|bootps|chargen|clearcase|daytime|
discard|dns|domain|doom|echo|exec|finger|ftp|
ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|
kerberos|ldap|login|netbios-dgm|netbios-ns|
netbios-ssn|netwall|netware-ip|new-rwho|nfsd|
nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
printer|qotd|realaudio|rip|rtpnet|rtsp|sip|
smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
timed|tftp|ulistserv|utime|uucp|uucp-rlogin|
who|www-http|whoami|xwindows } or number>]
[subscribe_expire = <number{ 60-65535 }>]
[CWreply = <{ 182|180 }>] [transport = <{ UDP|TCP }>]
[rtpmapstaticPT = <{ disabled|enabled }>]
[reinvite_stop_audio = <{ disabled|enabled }>]
[PRACK = <{ disabled|enabled }>]
[clirformat = <{ standard|nonstandard }>]
[DTMF*#inINFO = <{ *#|1011 }>]
[clip_consider_displayname = <{ no|yes }>]
[sdp_ptime = <{ 10|20|30|notsent }>]
[replace# = <{ enabled|disabled }>]
[symmetriccodec = <{ enabled|disabled }>]
[reinvite_at_cgfax_detect = <{ enabled|disabled }>]
[SIPURI_port = <{ enabled|disabled }>]
[rport = <{ enabled|disabled }>] [SDP_username = <string>]
[ringtoneat183 = <{ disabled|enabled }>]
[t38portincrement = <number{ 0-65535 }>]
[ping = <number{ 0-86400 }>] [min-se = <number{ 0-604800 }>]
[session-expires = <number{ 0-604800 }>]
[expires = <number{ 0-3600 }>]
[register-backoff-timer = <number{ 0-86400 }>]
[stickyoutbproxy = <{ disabled|enabled }>]
[privacy = <{ ignore|strict|loose }>]
[SDP_username_per_UA = <{ disabled|enabled }>]
[stop_register_on_403 = <{ disabled|enabled }>]
[transport_in_contact = <{ disabled|enabled }>]
[distinct_t38_port = <{ disabled|enabled }>]
[timert1 = <number{ 0-1048575 }>]
[timert2 = <number{ 1-1048575 }>]
[timertf = <number{ 1-1048575 }>]

```

Parameters :

```

[useragentdomain = <string>]
  User Agent domain
[primproxyaddr = <string>]
  Primary outbound proxy address or FQDN
[secproxyaddr = <string>]

```

Secondary outbound proxy address or FQDN

```
[proxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
  ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
  netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|
  nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
  realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
  sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
  timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|
  whoami|xwindows} or number>]
```

Primary outbound proxy port

```
[secproxyport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|
  imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|
  login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|
  new-rwho|nfd|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|
  printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|
  snmptrap|snpp|sntp|sql*net|sql-net|sqlserv|sunrpc|syslog|
  sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|
  uucp-rlogin|who|www-http|whoami|xwindows} or number>]
```

Secondary outbound proxy port

```
[primregaddr = <string>]
```

Primary registrar address or domain

```
[secregaddr = <string>]
```

Secondary registrar address or domain

```
[regport = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|
  chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|
  finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|
  ingres-net|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-
  dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfd|
  nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|
  realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|
  sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|
  timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|
  xwindows} or number>]
```

Registrar port

```
[regexpire = <number{ 60-65535 }>]
```

The registration expire time

```
[regexpire_Tbefore = <number{ 1-60 }>]
```

Time to send new registration request before registration expires

```
[notifier_addr = <string>]
```

Notifier address or FQDN used for MWI

```
[notifier_port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|
  bootps|chargen|clearcase|daytime|discard|dns|domain|doom|
  echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|
  ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|
  kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|
  netwall|netware-ip|new-rwho|nfd|nicname|nntp|ntalk|ntp|
  pcamail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
  rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|sql-net|
  sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|
  ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|
  xwindows} or number>]
```

Notifier port used for MWI

```
[subscribe_expire = <number{ 60-65535 }>]
```

The subscription expire time  
[**CWreply** = <{182|180}>]  
The reply to be sent for a waiting call (180/182)

[**transport** = <{UDP|TCP}>]  
The transport type

[**rtpmapstaticPT** = <{disabled|enabled}>]  
Enable or disable adding RTP map i.c.o. static PT

[**reinvite\_stop\_audio** = <{disabled|enabled}>]  
Explicitly stop audio stream in the SDP when sending a re-invite

[**PRACK** = <{disabled|enabled}>]  
Enable or disable Provisional ACK on provisional responses

[**clirformat** = <{standard|nonstandard}>]  
The clir format

[**DTMF\*#inINFO** = <{\*#|1011}>]  
Format used for \*/# in INFO method

[**clip\_consider\_displayname** = <{no|yes}>]  
Consider the displayname for CLIP or not

[**sdp\_ptime** = <{10|20|30|notsent}>]  
The packet time used in the SDP message

[**replace#** = <{enabled|disabled}>]  
Enable or disable the # in INVITE to be replaced by %23

[**symmetriccodec** = <{enabled|disabled}>]  
Enable or disable symmetric codecs

[**reinvite\_at\_cgfax\_detect** = <{enabled|disabled}>]  
Send re\_invite when calling fax is detected

[**SIPURI\_port** = <{enabled|disabled}>]  
Enable or disable the SIPURI port

[**rport** = <{enabled|disabled}>]  
Enable or disable the parameter rport

[**SDP\_username** = <string>]  
SDP user name

[**ringtoneat183** = <{disabled|enabled}>]  
Enable or disable local ringing when 183 SESSION PROGRESS is received

[**t38portincrement** = <number{0-65535}>]  
Offset of T38 port number vs RTP port number.

[**ping** = <number{0-86400}>]  
Time between two keepalive ping requests.

[**min-se** = <number{0-604800}>]  
The minimum session expires timer.

[**session-expires** = <number{0-604800}>]  
The session expires timer.

[**expires** = <number{0-3600}>]  
The INVITE expires timer.

[**register-backoff-timer** = <number{0-86400}>]  
Fixed backoff timer in registration procedure

[**stickyoutbproxy** = <{disabled|enabled}>]  
Outband proxy lock over transactions

[**privacy** = <{ignore|strict|loose}>]  
The privacy type can be ignore, strict or loose.

[**SDP\_username\_per\_UA** = <{disabled|enabled}>]  
SDP user name per ua

[**stop\_register\_on\_403** = <{disabled|enabled}>]  
Stop register on 403

[**transport\_in\_contact** = <{disabled|enabled}>]  
Transporttype in contact header

[**distinct\_t38\_port** = <{disabled|enabled}>]  
Used distinct port for T38

[timert1 = <number{0-1048575}>]

The T1 expires timer.

[timert2 = <number{1-1048575}>]

The T2 expires timer.

[timertf = <number{1-1048575}>]

The Tf expires timer.

voice sip list

Display the SIP general parameters

Syntax : list

voice sip responsemap

Following commands are available :

add : Add a SIP response  
delete : Delete a SIP response  
modify : Modify a SIP response  
list : Show all SIP responses  
flush : Flush all SIP responses

voice sip responsemap add

Add a SIP response

Syntax : add responsecode = <string>

tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|  
callwaiting|rejection|confirmation|release|warning|  
congestion|busy|ringback|mwi|specialdial|stutterdial}>  
[textmessage = <quoted string>]

Parameters :

responsecode = <string>

SIP Response Code

tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|callwaiting|  
rejection|confirmation|release|warning|congestion|busy|ringback|mwi|  
specialdial|stutterdial}>

Tone to be played

[textmessage = <quoted string>]

Text message to display

voice sip responsemap delete

Delete a SIP response

Syntax : delete responsecode = <{1xx|180|181|182|183|2xx|3xx|4xx|486|5xx|6xx}>

Parameters :

responsecode = <{1xx|180|181|182|183|2xx|3xx|4xx|486|5xx|6xx}>

SIP Response Code

voice sip responsemap flush

Flush all SIP responses

Syntax : flush

voice sip responsemap list

Show all SIP responses

Syntax : list

voice sip responsemap modify

Modify a SIP response

Syntax : modify responsecode = <{1xx|180|181|182|183|2xx|3xx|4xx|486|5xx|6xx}>



```
[tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|
callwaiting|rejection|confirmation|release|warning|
congestion|busy|ringback|mwi|specialdial|
stutterdial}>]
[textmessage = <quoted string>]
```

Parameters :

responsecode = <{1xx|180|181|182|183|2xx|3xx|4xx|486|5xx|6xx}>

SIP Response Code

```
[tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|callwaiting|
rejection|confirmation|release|warning|congestion|busy|ringback|mwi|
specialdial|stutterdial}>]
```

Tone to be played

```
[textmessage = <quoted string>]
```

Text message to display

voice sip sdp

Following commands are available :

config : Configure the SDP general parameters

list : List the SDP general parameters

voice sip sdp config

Configure the SDP general parameters

```
Syntax : config [callholddirection = <{sendonly|inactive}>]
```

```
[versioncheck = <{no|yes}>]
```

Parameters :

```
[callholddirection = <{sendonly|inactive}>]
```

Call Hold Direction

```
[versioncheck = <{no|yes}>]
```

Version Check

voice sip sdp list

List the SDP general parameters

```
Syntax : list
```

voice state

show VOIP service states

```
Syntax : state
```

voice stats

Following commands are available :

list : Show voice statistics

reset : Reset voice statistics

voice stats list

Show voice statistics

```
Syntax : list voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>
```

```
type = <{detailed|generic|all}>
```

Parameters :

```
voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>
```

The voice port used to get/reset the statistics

```
type = <{detailed|generic|all}>
```

Type of statistics to be listed/reset

voice stats reset

## Reset voice statistics

Syntax : reset voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>  
type = <{detailed|generic|all}>

### Parameters :

voiceport = <{FXS1|FXS2|DECT1|DECT2|DECT3|DECT4|DECT5|all}>

The voice port used to get/reset the statistics

type = <{detailed|generic|all}>

Type of statistics to be listed/reset

### voice tone

Following command groups are available :

descrtable    eventtable    patterntable

### voice tone descrtable

Following commands are available :

add            : Add tone description

delete         : Delete tone description

modify         : Modify tone description

list            : Show all tone descriptions

flush          : Flush all tone descriptions

### voice tone descrtable add

Add tone description

Syntax : add tone = <string> status = <{disabled|enabled}> delay = <number>

[patternentryid = <number>] [file = <string>]

[filerepeat = <number>] text = <quoted string>

[maxduration = <number>] [nexttone = <string>]

repeatafter = <number>

### Parameters :

tone = <string>

Name of the tone

status = <{disabled|enabled}>

Enable or disable this tone

delay = <number>

Delay (in ms)

[patternentryid = <number>]

Entry ID in pattern table

[file = <string>]

Audio file name

[filerepeat = <number>]

File repetitions

text = <quoted string>

Text to display on the phone

[maxduration = <number>]

Max. duration

[nexttone = <string>]

Name of the tone

repeatafter = <number>

Time after which the tone must be repeated (in ms)

### voice tone descrtable delete

Delete tone description

Syntax : delete tone = <{}>

Parameters :

tone = <{ }>

Name of the tone

voice tone descrtable flush

Flush all tone descriptions

Syntax : flush

voice tone descrtable list

Show all tone descriptions

Syntax : list

voice tone descrtable modify

Modify tone description

Syntax : modify tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|

callwaiting|rejection|confirmation|release|warning|

congestion|busy|ringback|mwi|specialdial|stutterdial}>

[status = <{disabled|enabled}>] [delay = <number>]

[patternentryid = <number>] [file = <string>]

[filerepeat = <number>] [text = <string>]

[maxduration = <number>] [nexttone = <string>]

[repeatafter = <number>]

Parameters :

tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|callwaiting|

rejection|confirmation|release|warning|congestion|busy|ringback|mwi|

specialdial|stutterdial}>

Name of the tone

[status = <{disabled|enabled}>]

Enable or disable this tone

[delay = <number>]

Delay (in ms)

[patternentryid = <number>]

Entry ID in pattern table

[file = <string>]

Audio file name

[filerepeat = <number>]

File repetitions

[text = <string>]

Text to display on the phone

[maxduration = <number>]

Max. duration

[nexttone = <string>]

Name of the tone

[repeatafter = <number>]

Time after which the tone must be repeated (in ms)

voice tone eventtable

Following commands are available :

modify : Modify tone event

list : Show all tone events

flush : Flush all tone events

voice tone eventtable flush

Flush all tone events

Syntax : flush

voice tone eventtable list

Show all tone events

Syntax : list

voice tone eventtable modify

Modify tone event

Syntax : modify eventid = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|101|102|103|104|105|106|107|108|201|202|203|204|205|305|401|402|403|404|405|406|407|408|501|502|503|999}>

tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|callwaiting|rejection|confirmation|release|warning|congestion|busy|ringback|mwi|specialdial|stutterdial}>

Parameters :

eventid = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20|101|102|103|104|105|106|107|108|201|202|203|204|205|305|401|402|403|404|405|406|407|408|501|502|503|999}>

Event ID

tone = <{dial|none|remotecallhold|callhold|remotecallwaiting|callwaiting|rejection|confirmation|release|warning|congestion|busy|ringback|mwi|specialdial|stutterdial}>

Tone to play for this event

voice tone patterntable

Following commands are available :

add : Add tone pattern  
delete : Delete tone pattern  
modify : Modify tone pattern  
list : Show all tone patterns  
flush : Flush all tone patterns

voice tone patterntable add

Add tone pattern

Syntax : add id = <number> tone = <{off|on}> [freq1 = <number>]  
[power1 = <number>] [freq2 = <number>] [power2 = <number>]  
[freq3 = <number>] [power3 = <number>] [freq4 = <number>]  
[power4 = <number>] [duration = <number>] [nextentry = <number>]  
[maxloops = <number>] [nextentryafterloops = <number>]

Parameters :

id = <number>

ID of the tone pattern

tone = <{off|on}>

Enable or disable this tone

[freq1 = <number>]

Frequency 1

[power1 = <number>]

Power 1

[freq2 = <number>]

Frequency 2

[power2 = <number>]

Power 2

[freq3 = <number>]

Frequency 3

[power3 = <number>]

Power 3

[freq4 = <number>]

Frequency 4

[power4 = <number>]

Power 4

[duration = <number>]

Duration (ms)

[nextentry = <number>]

Next pattern entry

[maxloops = <number>]

Max loops

[nextentryafterloops = <number>]

Next entry after loops

voice tone patterntable delete

Delete tone pattern

Syntax : delete id = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>  
[endentryid = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>]

Parameters :

id = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>

ID of the tone pattern

[endentryid = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>]

ID of the tone pattern

voice tone patterntable flush

Flush all tone patterns

Syntax : flush

voice tone patterntable list

Show all tone patterns

Syntax : list

voice tone patterntable modify

Modify tone pattern

Syntax : modify id = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>  
[tone = <{off|on}>] [freq1 = <number>] [power1 = <number>]  
[freq2 = <number>] [power2 = <number>] [freq3 = <number>]  
[power3 = <number>] [freq4 = <number>] [power4 = <number>]  
[duration = <number>] [nextentry = <number>]  
[maxloops = <number>] [nextentryafterloops = <number>]

Parameters :

id = <{1|2|3|4|5|6|7|8|9|10|11|12|13|14|21|22|31|32|41|42|51|61|62|63|81|82|83|84|91|92|101|102|103|104|111|112|121|131|132|141|142|151}>

ID of the tone pattern

[tone = <{off|on}>]

Enable or disable this tone

[freq1 = <number>]

Frequency 1

[power1 = <number>]

Power 1  
[freq2 = <number>]  
Frequency 2  
[power2 = <number>]  
Power 2  
[freq3 = <number>]  
Frequency 3  
[power3 = <number>]  
Power 3  
[freq4 = <number>]  
Frequency 4  
[power4 = <number>]  
Power 4  
[duration = <number>]  
Duration (ms)  
[nextentry = <number>]  
Next pattern entry  
[maxloops = <number>]  
Max loops  
[nextentryafterloops = <number>]  
Next entry after loops

wansensing

Following commands are available :

config : Configure parameters  
flush : Clean configuration  
list : Display parameters  
requestmode : Request to enter certain mode

Following command groups are available :

debug mode

wansensing config

Configure parameters

Syntax : config [state = <{disabled|enabled}>] [errorinterval = <number>]  
[errorsript = <string>]

Parameters :

[state = <{disabled|enabled}>]

Enable/disable

[errorinterval = <number>]

Error interval value

[errorsript = <string>]

Error script name

wansensing debug

Following commands are available :

traceconfig : Tracing settings

wansensing debug traceconfig

Tracing settings

Syntax : traceconfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]  
Enable/disable

wansensing flush  
Clean configuration  
Syntax : flush

wansensing list  
Display parameters  
Syntax : list

wansensing mode  
Following commands are available :

list : List all modes  
add : Add mode  
delete : Delete mode

wansensing mode add  
Add mode  
Syntax : add name = <string> maininterval = <number> scriptname = <string>

Parameters :  
name = <string>  
Mode name  
maininterval = <number>  
Main interval value  
scriptname = <string>  
Script name

wansensing mode delete  
Delete mode  
Syntax : delete name = <string>

Parameters :  
name = <string>  
Mode name

wansensing mode list  
List all modes  
Syntax : list  
wansensing requestmode  
Request to enter certain mode  
Syntax : requestmode mode = <string>

Parameters :  
mode = <string>  
Mode to enter (its name)

wireless  
Following commands are available :

ifconfig : Configures wireless settings.  
reset : Reset Wireless interface settings to defaults

Following command groups are available :

debug macacl mssid multiuni qos  
secmode stations wds wps

wireless bcminfo

Shows the configured settings.

Syntax : bcminfo

wireless debug

Following commands are available :

stats : Transfer statistics

wireless debug bcminfo

Shows the configured settings.

Syntax : bcminfo

wireless debug btc

Bluetooth co-existence

Syntax : btc [btc = <{disabled|enabled}>]

Parameters :

[btc = <{disabled|enabled}>]

Bluetooth co-existence

wireless debug maxpower

Maxpower values for current country setting

Syntax : maxpower

wireless debug mcd

mcd

Syntax : mcd [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Multicast drop

wireless debug nasdump

NAS DEBUG COMMAND

Syntax : nasdump

wireless debug stats

Transfer statistics

Syntax : stats

wireless debug wpainclude

include wpa

Syntax : wpainclude

wireless flush

Flush all wireless dynamic contextes

Syntax : flush

wireless ifconfig

Configures wireless settings.

Syntax : ifconfig [state = <{enabled|disabled}>]

[channel = <{auto|1|2|3|4|5|6|7|8|9|10|11|12|13}>]

[ssid = <quoted string>] [any = <{enabled|disabled}>]

[interop = <{802.11b|802.11b(legacy)/g|802.11b/g|802.11g}>]

[frameburst = <{disabled|enabled}>]

Parameters :

[state = <{enabled|disabled}>]

Interface operational status of wireless access point

[channel = <{auto|1|2|3|4|5|6|7|8|9|10|11|12|13}>]

Communication channel number

[ssid = <quoted string>]

SSID



[any = <{enabled|disabled}>]

Make SSID public

[interop = <{802.11b|802.11b(legacy)/g|802.11b/g|802.11g}>]

Interoperability mode

[frameburst = <{disabled|enabled}>]

Framebursting

wireless macacl

Following commands are available :

config : Access Control List configuration  
register : Start a registration process (only for register mode)  
add : Add an ACL MAC entry  
modify : Modify an ACL entry  
delete : Delete an ACL MAC entry  
list : Shows a list of all configured ACL entries  
flush : Flushes ACL entries

wireless macacl add

Add an ACL MAC entry

Syntax : add [ssid\_id = <number{0-3}>] hwaddr = <hardware-address>  
permission = <{allow|deny}> [name = <quoted string>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

hwaddr = <hardware-address>

The Ethernet MAC address of the ACL entry

permission = <{allow|deny}>

The action to be performed on ACL entry

[name = <quoted string>]

The name of the station

wireless macacl config

Access Control List configuration

Syntax : config [ssid\_id = <number{0-3}>]  
[control = <{lock|unlock|register}>]  
[regtime = <number{15-3600}>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[control = <{lock|unlock|register}>]

Access Control List mode

[regtime = <number{15-3600}>]

Registration time

wireless macacl delete

Delete an ACL MAC entry

Syntax : delete ssid\_id = <number{0-3}> hwaddr = <hardware-address>

Parameters :

ssid\_id = <number{0-3}>

ssid id

hwaddr = <hardware-address>

hardware address of the ACL entry

wireless macacl flush

Flushes ACL entries

Syntax : flush [ssid\_id = <number{0-3}>] proceed = <{disabled|enabled}>

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

proceed = <{disabled|enabled}>

Confirmation required

wireless macacl list

Shows a list of all configured ACL entries

Syntax : list [ssid\_id = <number{0-3}>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

wireless macacl modify

Modify an ACL entry

Syntax : modify ssid\_id = <number{0-3}> hwaddr = <hardware-address>  
[permission = <{allow|deny}>] [name = <quoted string>]

Parameters :

ssid\_id = <number{0-3}>

ssid id

hwaddr = <hardware-address>

The Ethernet MAC address of the ACL entry

[permission = <{allow|deny}>]

The action to be performed on ACL entry

[name = <quoted string>]

The name of the station

wireless macacl register

Start a registration process (only for register mode)

Syntax : register [ssid\_id = <number{0-3}>] proceed = <{disabled|enabled}>

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

proceed = <{disabled|enabled}>

Confirmation required

wireless mssid

Following commands are available :

iflist : Multiple ssid configuration

ifadd : Add an extra ssid context

ifdelete : Delete a ssid context

ifconfig : Configure a ssid context

ifattach : Attach a ssid context

ifdetach : Detach a ssid context

wireless mssid ifadd

Add an extra ssid context

Syntax : ifadd ssid = <quoted string>

Parameters :

ssid = <quoted string>  
ssid

wireless mssid ifattach

Attach a ssid context

Syntax : ifattach ssid\_id = <number{1-3}>

Parameters :

ssid\_id = <number{1-3}>  
ssid

wireless mssid ifconfig

Configure a ssid context

Syntax : ifconfig ssid\_id = <number{0-3}> [ssid = <quoted string>]  
[ap isolation = <{disabled|enabled}>]  
[any = <{disabled|enabled}>]  
[secmode = <{disable|wep|wpa-psk}>]  
[WEPkey = <quoted string>] [WPAPSKkey = <quoted string>]  
[WPAPSKversion = <{WPA|WPA2|WPA+WPA2}>]  
[addscript = <quoted string>] [delscript = <quoted string>]  
[trace = <{disabled|enabled}>]

Parameters :

ssid\_id = <number{0-3}>  
ssid id  
[ssid = <quoted string>]  
ssid  
[ap isolation = <{disabled|enabled}>]  
ap isolation  
[any = <{disabled|enabled}>]  
public network  
[secmode = <{disable|wep|wpa-psk}>]  
security mode  
[WEPkey = <quoted string>]  
WEP key: expected format 5 or 13 ASCII characters, or 10 or 26 HEX digits.  
[WPAPSKkey = <quoted string>]  
WPA-PSK key: expected format 8 to 63 ASCII characters or 64 HEX digits.  
[WPAPSKversion = <{WPA|WPA2|WPA+WPA2}>]  
wpa version  
[addscript = <quoted string>]  
creation data interfaces  
[delscript = <quoted string>]  
remove data interfaces  
[trace = <{disabled|enabled}>]  
security tracing

wireless mssid ifdelete

Delete a ssid context

Syntax : ifdelete ssid\_id = <number{1-3}>

Parameters :

ssid\_id = <number{1-3}>  
ssid

wireless mssid ifdetach

Detach a ssid context

Syntax : ifdetach ssid\_id = <number{1-3}>

Parameters :

ssid\_id = <number{1-3}>  
ssid

wireless mssid iflist

Multiple ssid configuration

Syntax : iflist [ssid\_id = <number{0-3}>]

Parameters :

[ssid\_id = <number{0-3}>]  
ssid

wireless multiuni

Following commands are available :

scanresults : display detected multicast mac addresses  
add : add a multicast to unicast mapping  
delete : delete all multicast mappings  
list : show configured multicast to unicast mappings  
flush : flush all multicast to unicast mappings

wireless multiuni add

add a multicast to unicast mapping

Syntax : add multicast = <hardware-address> unicast = <hardware-address>

Parameters :

multicast = <hardware-address>  
Multicast MAC  
unicast = <hardware-address>  
Unicast MAC

wireless multiuni delete

delete all multicast mappings

Syntax : delete multicast = <hardware-address>

Parameters :

multicast = <hardware-address>  
Multicast MAC

wireless multiuni flush

flush all multicast to unicast mappings

Syntax : flush

wireless multiuni list

show configured multicast to unicast mappings

Syntax : list

wireless multiuni scanresults

display detected multicast mac addresses

Syntax : scanresults [rescan = <{no|yes}>]

Parameters :

[rescan = <{no|yes}>]  
rescan for new multicast addresses

wireless qos

Following commands are available :

config : configure QoS settings  
apacconfig : configure AP EDCA parameters  
staacconfig : configure STA EDCA parameters

wireless qos apacconfig

configure AP EDCA parameters

Syntax : apacconfig [class = <{AC\_BE|AC\_BK|AC\_VI|AC\_VO}>]  
[cwmmax = <{1|3|7|15|31|63|127|255|511|1023|2047|4095|8191|  
16383|32767}>]  
[cwmin = <{0|1|3|7|15|31|63|127|255}>]  
[aifsn = <number{1-15}>] [txop = <number>]

Parameters :

[class = <{AC\_BE|AC\_BK|AC\_VI|AC\_VO}>]  
AC class  
[cwmmax = <{1|3|7|15|31|63|127|255|511|1023|2047|4095|8191|16383|32767}>]  
CWmax configuration  
[cwmin = <{0|1|3|7|15|31|63|127|255}>]  
CWmin configuration  
[aifsn = <number{1-15}>]  
Aifsn configuration  
[txop = <number>]  
txoplimit [us] configuration

wireless qos config

configure QoS settings

Syntax : config [mode = <{disabled|wmm}>]

Parameters :

[mode = <{disabled|wmm}>]  
WMM active

wireless qos staacconfig

configure STA EDCA parameters

Syntax : staacconfig [class = <{AC\_BE|AC\_BK|AC\_VI|AC\_VO}>]  
[cwmmax = <{1|3|7|15|31|63|127|255|511|1023|2047|4095|8191|  
16383|32767}>]  
[cwmin = <{0|1|3|7|15|31|63|127|255}>]  
[aifsn = <number{1-15}>] [txop = <number>]

Parameters :

[class = <{AC\_BE|AC\_BK|AC\_VI|AC\_VO}>]  
AC class  
[cwmmax = <{1|3|7|15|31|63|127|255|511|1023|2047|4095|8191|16383|32767}>]  
CWmax configuration  
[cwmin = <{0|1|3|7|15|31|63|127|255}>]  
CWmin configuration  
[aifsn = <number{1-15}>]  
Aifsn configuration  
[txop = <number>]  
txoplimit [us] configuration

wireless qual

Following commands are available :

up : wl up  
down : wl down  
out : wl out  
renewssid : renew ssid  
txant : wl txant  
antdiv : wl antdiv  
fqacursy : wl fqacursy

wireless qual antdiv  
wl antdiv  
Syntax : antdiv [value = <{0|1|auto}>]

Parameters :  
[value = <{0|1|auto}>]  
Value

wireless qual down  
wl down  
Syntax : down  
wireless qual fqacursy  
wl fqacursy  
Syntax : fqacursy channum = <number{0-13}>

Parameters :  
channum = <number{0-13}>  
channum

wireless qual out  
wl out  
Syntax : out  
wireless qual renewssid  
renew ssid  
Syntax : renewssid  
wireless qual txant  
wl txant  
Syntax : txant [value = <{0|1|auto}>]

Parameters :  
[value = <{0|1|auto}>]  
Value

wireless qual up  
wl up  
Syntax : up  
wireless reset  
Reset Wireless interface settings to defaults  
Syntax : reset proceed = <{disabled|enabled}>

Parameters :  
proceed = <{disabled|enabled}>  
Confirmation required

wireless secmode  
Following commands are available :

config : Configure/Show the security mode.  
wep : Configure WEP settings.

wpa-psk : Configure WPA-PSK settings.

wireless secmode config

Configure/Show the security mode.

Syntax : config [mode = <{disable|wep|wpa-psk}>]

Parameters :

[mode = <{disable|wep|wpa-psk}>]  
security mode

wireless secmode wep

Configure WEP settings.

Syntax : wep [encryptionkey = <quoted string>]

Parameters :

[encryptionkey = <quoted string>]  
WEP key: expected format 5 or 13 ASCII characters, or 10 or 26 HEX digits.

wireless secmode wpa-psk

Configure WPA-PSK settings.

Syntax : wpa-psk [presharedkey = <quoted string>]  
[version = <{WPA|WPA2|WPA+WPA2}>]

Parameters :

[presharedkey = <quoted string>]  
WPA-PSK key: expected format 8 to 63 ASCII characters or 64 HEX digits.  
[version = <{WPA|WPA2|WPA+WPA2}>]  
wpa version

wireless stations

Following commands are available :

list : List of the currently associated stations

wireless stations list

List of the currently associated stations

Syntax : list [hwaddr = <hardware-address>] [ssid\_id = <number{0-3}>]

Parameters :

[hwaddr = <hardware-address>]  
The MAC address of station  
[ssid\_id = <number{0-3}>]  
Selected BSS

wireless wds

Following commands are available :

config : WDS configuration parameters

scanresults : scan all networks

add : add WDS station

delete : delete WDS station

list : list WDS stations

flush : Flush all wds stations

wireless wds add

add WDS station

Syntax : add bssid = <hardware-address> [name = <quoted string>]

Parameters :

bssid = <hardware-address>

The WDS bssid

[name = <quoted string>]

A user specified reference name

wireless wds config

WDS configuration parameters

Syntax : config [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

WDS functionality

wireless wds delete

delete WDS station

Syntax : delete bssid = <hardware-address>

Parameters :

bssid = <hardware-address>

The WDS bssid

wireless wds flush

Flush all wds stations

Syntax : flush

wireless wds list

list WDS stations

Syntax : list

wireless wds scanresults

scan all networks

Syntax : scanresults [rescan = <{disabled|enabled}>]

Parameters :

[rescan = <{disabled|enabled}>]

perform a new scan

wireless wps

Following commands are available :

config : Configure/Show the WPS settings

pin : Set the ENROLLEE pin value

ap\_pin : Set/Show the AP pin value

mode : Set/Show the configuration mode value

wireless wps ap\_pin

Set/Show the AP pin value

Syntax : ap\_pin [ssid\_id = <number{0-3}>] [value = <number>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[value = <number>]

pin number

wireless wps config



Configure/Show the WPS settings

Syntax : config [ssid\_id = <number{0-3}>] [state = <{disabled|enabled}>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[state = <{disabled|enabled}>]

WPS state

wireless wps dump

Dump WPS settings

Syntax : dump

wireless wps event

Push button event

Syntax : event [ssid\_id = <number{0-3}>] [value = <number>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[value = <number>]

event state

wireless wps mode

Set/Show the configuration mode value

Syntax : mode [ssid\_id = <number{0-3}>] [value = <number>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[value = <number>]

configuration mode

wireless wps pin

Set the ENROLLEE pin value

Syntax : pin [ssid\_id = <number{0-3}>] [value = <number>]

Parameters :

[ssid\_id = <number{0-3}>]

ssid id

[value = <number>]

pin number

wizard

Following commands are available :

config : configuration of embedded wizard

def : Profile definition.

flush : Clear active profile

view : View active profile

wizard config

configuration of embedded wizard

Syntax : config [allow\_factory\_tpl = <{no|yes}>] [trace = <{no|yes}>]

[autopopup = <{no|yes}>] [configtime = <number{15-300}>]

Parameters :

[allow\_factory\_tpl = <{no|yes}>]

Option to indicate if factory templates may be loaded

[trace = <{no|yes}>]

Trace during loading

[autopopup = <{no|yes}>]

Generate wizard popup if factory defaults are active

[configtime = <number{15-300}>]

Time in between 'please wait' page and 'complete' page(in seconds)

wizard def

Profile definition.

Syntax : def var = <string>

type = <{string|passwd|integer|combo|list|radioset|bool|ipaddr|

ipmask|passwdcheck|label|hex|grp}>

[grp = <string>] [desc = <translated string>]

[help = <translated string>] [alias = <translated string>]

[req <{no|yes}>] [default = <quoted string>]

[data = <quoted string>] [dalias = <translated string>]

[min = <number>] [max = <number>] [calc = <quoted string>]

[linkvar = <string>]

Parameters :

var = <string>

Variable name : name of variable or group

type = <{string|passwd|integer|combo|list|radioset|bool|ipaddr|ipmask|  
passwdcheck|label|hex|grp}>

type of the variable

[grp = <string>]

Group name in case variable is defined

[desc = <translated string>]

Description text, help text

[help = <translated string>]

Additional help text (only for group description)

[alias = <translated string>]

user friendly name for field or group

[req <{no|yes}>]

parameter without value: to indicate a required field

[default = <quoted string>]

a default value field for variable

[data = <quoted string>]

list of values, used in configuration file

[dalias = <translated string>]

user friendly names for data values

[min = <number>]

minimum value in case type is integer

[max = <number>]

maximum value in case type is integer

[calc = <quoted string>]

host wizard related stuff, ignored here

[linkvar = <string>]

to which variable this variable is linked to (only for passwdcheck)

wizard flush

Clear active profile

Syntax : flush

wizard load

Load a profile

Syntax : load [profile = <profile filename>]

Parameters :

[profile = <profile filename>]

Profile name to load

wizard view

View active profile

Syntax : view

xdsl

Following commands are available :

info : Displays status information about modem

config : Modify/Display dsl configuration

maxspeed : Set ATM Default Maximum Speed.

version : Display xsdl version information.

Following command groups are available :

debug

xdsl config

Modify/Display dsl configuration

Syntax : config [adslmultimode = <{adsl|adsl2|adsl2plus}>]

[detect-lop = <{disabled|enabled}>]

[syslog = <{disabled|enabled}>]

Parameters :

[adslmultimode = <{adsl|adsl2|adsl2plus}>]

Set/Show selected multimode type of the modem

[detect-lop = <{disabled|enabled}>]

Detect Loss Of Power

[syslog = <{disabled|enabled}>]

Log in syslog during showtime

xdsl debug

Following commands are available :

bitloadinginfo : Displays # bits per tone

deltconfig : Dual Ended Line Testing interface

deltinfo : Dual Ended Line Test result display

modemoptioninfo : The modem options bitmap display

multimode : Config custom multimode

traceconfig : Config the adsl tracelevel

xdsl debug bitloadinginfo

Displays # bits per tone

Syntax : bitloadinginfo

xdsl debug deltcnfig

Dual Ended Line Testing interface

Syntax : deltcnfig [state = <{disabled|enabled}>]

Parameters :

[state = <{disabled|enabled}>]

Enable/Disable dual ended line testing

xdsl debug deltinfor

Dual Ended Line Test result display

Syntax : deltinfor

xdsl debug modemoptioninfo  
The modem options bitmap display

Syntax : modemoptioninfo

xdsl debug multimode

Config custom multimode

Syntax : multimode [config = <[+/-]flag[+/-flag...]{default t1.413issue2  
g992.1\_annex\_a g992.2 g992.3\_annex\_a  
g992.3\_annex\_1 g992.3\_annex\_m g992.5\_annex\_a  
g992.5\_annex\_m}>]

Parameters :

[config = <[+/-]flag[+/-flag...]{default t1.413issue2 g992.1\_annex\_a g992.2  
g992.3\_annex\_a g992.3\_annex\_1 g992.3\_annex\_m g992.5\_annex\_a  
g992.5\_annex\_m}>]

The custom multimode bitmap

xdsl debug traceconfig

Config the adsl tracelevel

Syntax : traceconfig level = <{0|1|2|3|4}>

Parameters :

level = <{0|1|2|3|4}>

Trace Level (0=disable tracing; 1=enable dsl manager tracing; 2=enable  
dsl driver tracing)

xdsl info

Displays status information about modem

Syntax : info [expand = <{disabled|enabled}>]

[g.997.1 = <{disabled|enabled}>]

[counter\_period\_filter = <{current|15\_minutes|24\_hours}>]

[counters\_reset = <{no|yes}>]

Parameters :

[expand = <{disabled|enabled}>]

Condensed / Expanded listing link information

[g.997.1 = <{disabled|enabled}>]

Condensed / Expanded listing link information

[counter\_period\_filter = <{current|15\_minutes|24\_hours}>]

Specify the statistics period

[counters\_reset = <{no|yes}>]

Reset all counters

xdsl maxspeed

Set ATM Default Maximum Speed.

Syntax : maxspeed [tx = <number>] [rx = <number>]

Parameters :

[tx = <number>]

A predefined Maximum ADSL Speed in Upstream direction

[rx = <number>]

A predefined Maximum ADSL Speed in Downstream direction

xdsl qual

Following commands are available :

alb : Analog front end LoopBack Test Mode

lov : Longitudinal Balance (LOV) Test Mode -continuously sending-  
lcl : Longitudinal Balance (LCL) Test Mode -online quiet-  
qln : Quiet Line Noise Test Mode  
aisf : Set modem's ATU Impedance State Force

xdsl qual aisf

Set modem's ATU Impedance State Force

Syntax : aisf state = <{disable|inactive|active}>

Parameters :

state = <{disable|inactive|active}>

aisf state

xdsl qual alb

Analog front end LoopBack Test Mode

Syntax : alb type = <{adsl}> address = <string>

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|  
bootps|chargen|clearcase|daytime|discard|dns|domain|doom|  
echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|  
ils|imap2|imap3|ingres-net|ipcserv|ipx|irc-o|irc-u|  
kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|  
netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|  
pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|  
rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|  
sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|  
ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|  
xwindows} or number>

Parameters :

type = <{adsl}>

Type of Test Mode

address = <string>

remote IP Address or string "modem" to store on the board

port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|  
clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-  
data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserv|  
ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-  
ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-  
srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|  
snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|  
telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|  
whoami|xwindows} or number>

Remote IP Port

xdsl qual lcl

Longitudinal Balance (LCL) Test Mode -online quiet-

Syntax : lcl

xdsl qual lov

Longitudinal Balance (LOV) Test Mode -continuously sending-

Syntax : lov type = <{adsl\_annex\_a|adsl\_annex\_l\_wide|adsl\_annex\_l\_narrow|  
adsl\_annex\_m\_eu-32|adsl\_annex\_m\_eu-36|adsl\_annex\_m\_eu-40|  
adsl\_annex\_m\_eu-44|adsl\_annex\_m\_eu-48|adsl\_annex\_m\_eu-52|  
adsl\_annex\_m\_eu-56|adsl\_annex\_m\_eu-60|adsl\_annex\_m\_eu-64}>

Parameters :

```
type = <{adsl_annex_a|adsl_annex_l_wide|adsl_annex_l_narrow|adsl_annex_m_eu-32|adsl_annex_m_eu-36|adsl_annex_m_eu-40|adsl_annex_m_eu-44|adsl_annex_m_eu-48|adsl_annex_m_eu-52|adsl_annex_m_eu-56|adsl_annex_m_eu-60|adsl_annex_m_eu-64}>  
Type of (LOV) Test Mode
```

xdsl qual mib

Retrieve extra adsl info Test Mode

Syntax : mib type = <{adsl}> address = <string>

```
port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|snpp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>
```

Parameters :

```
type = <{adsl}>
```

Type of Test Mode

```
address = <string>
```

remote IP Address or string "modem" to store on the board

```
port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|snpp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>
```

Remote IP Port

xdsl qual qln

Quiet Line Noise Test Mode

Syntax : qln type = <{adsl}> address = <string>

```
port = <{at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|snpp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows } or number>
```

Parameters :

```
type = <{adsl}>
```

## Type of Test Mode

address = <string>

remote IP Address or string "modem" to store on the board

port = <{ at-echo|at-nbp|at-rtmp|at-zis|auth|bgp|biff|bootpc|bootps|chargen|clearcase|daytime|discard|dns|domain|doom|echo|exec|finger|ftp|ftp-data|gopher|h323|httpproxy|ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|nicname|nntp|ntalk|ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql\*net|sql-net|sqlserv|sunrpc|syslog|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

Remote IP Port

xdsl version

Display xdsl version information.

Syntax : version