

Telnet et LiveBOX SAGEM



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1. Introduction

Dans ce document, nous allons essayer de comprendre les différentes fonctions internes d'une liveBOX Sagem.

Ce document a juste la prétention de lister les différentes fonctions de la box ; il devra être complété :

- par des exemples paramétrés des fonctions pouvant être utile à la bonne configuration de la box,
- par des explications du fonctionnement de chaque fonction ou groupe de fonctions (les fonctions de **visiophonie** regroupées sous le répertoire **h323**),
- par une indication différenciant les fonctions actives et les fonctions de status,
- en indiquant les fonctions qui n'indiquent pas de warning avant de s'exécuter, telles les fonctions « **delete** » ou « **flush** »,
- par des warnings indiquant que telle ou telle fonction est dangereuse, sachant que l'on peut toujours faire un reset conf-usine complet de la box.

2. Connexion à la box en Telnet

Pour ce faire, nous allons nous rendre avec putty (un client Telnet/SSH disponible ici : <http://www.chiark.greenend.org.uk/~sgtatham/putty/>) à l'adresse de notre box, soit 192.168.1.1, en cochant le port 23 (telnet).

Une fois connecté, après avoir mis son loggin et mot de passe (root et 1234 par défaut), nous tapons « ls » et nous voyons défiler les commandes suivantes :

```
[root @ home]$ ls
```

```
(sur un firmware 3202-220108)
```

```
A <CMD> reboot
O <CMD> date
O <CMD> version
A <LIST> ipqos
O <CMD> list
O <CMD> stats
A <CMD> ifconfig
O <CMD> route
A <CMD> bitmap
O <LIST> sndcp
A <CMD> save
A <CMD> erase
O <LIST> bridge
O <LIST> bt
A <LIST> ethernet
A <LIST> rarpd
O <LIST> arp
A <LIST> auth
A <LIST> logger
A <LIST> snmp
A <LIST> atm
O <LIST> adsl
A <CMD> dhcp
O <LIST> sntp
O <LIST> dhcpserver
A <CMD> dhcpr
A <LIST> dns
A <LIST> igmp
O <LIST> wlan
O <LIST> relayvoice
O <LIST> pstnclass
O <LIST> http
O <LIST> rip
O <LIST> h323
O <LIST> vlan
O <LIST> acf
O <CMD> mread
O <CMD> mwrite
O <CMD> memshow
O <CMD> aread
O <CMD> awrite
O <CMD> apregdump
O <LIST> wpost
A <LIST> rtp
```

```
[root @ home]$
```

Nous voyons aisément que cette liste est composée de 18 commandes directes (en rouge) et disons de 26 répertoires (en noir) contenant des commandes, mais aussi des sous répertoires. Les commandes marquées '**A**' sont permises aux utilisateurs 'administrateur' seulement, celles marquées '**O**' sont permises aux utilisateurs 'ordinaires' et 'administrateurs'. (cf la commande 'listuser' dans le répertoire 'auth' pour voir les rôles des utilisateurs).

Pour se déplacer dans un répertoire, il faut juste taper le nom de celui-ci :

```
[root @ home]$ adsl                adsl va nous mettre dans le répertoire adsl
[root @ adsl]$ ls                   on a bien root @adsl, ls va nous lister le répertoire
```

```
O <CMD>  setmode                chaque commande est alors exécutable
O <CMD>  cmvhex
O <CMD>  readcmv
O <CMD>  writecmv
O <CMD>  mon
O <CMD>  adslup
O <CMD>  adslldown
O <CMD>  addusercmv
O <CMD>  delusercmv
O <CMD>  listusercmv
```

```
[root @ adsl]$ ..                pour retourner au niveau inférieur
                                        /home, il faut faire « .. » ou
                                        « exit »
```

```
[root @ home]$                   Voilà on est bien dans le bon
                                        répertoire
```

Nous pouvons maintenant explorer les différentes fonctions.

Remarque : dans la suite, le terme 'interface réseau' correspond au nom logique des différentes connexions possibles, c'est à dire :

- ppp0 prise ligne adsl adresse IP publique
- eth0 LiveBox elle même 192.168.1.1
- usb0 prise USB 192.168.2.x
- wlan0 réseau sans fil WiFi 192.168.3.x
- tth0 réseau sans fil Bluetooth 192.168.4.x
- vif0 prise ethernet rouge 192.168.5.x
- vif1 prise ethernet jaune 192.168.6.x

3. Commandes du noyau

1) help

Aide sur les commandes du noyau

```
help -o <command>
```

Displays help and usage text for the specified command. If nothing is specified, it displays help text for all general commands.

2) build

Donne la version du noyau

```
[root @ home]$ build
```

```
AD6489 Security Gateway Software: 200410281738
```

3) clear

Efface l'écran

4) exit

Reviens au répertoire de niveau immédiatement supérieur, ou met fin à la session telnet

5) home

Revient au répertoire 'home', c-à-d [root@home](#) pour le user root

6) ls

Liste le contenu du répertoire en cours

7) pwd

Liste du répertoire en cours

8) ..

Reviens au répertoire de niveau immédiatement supérieur (idem exit)

9) ping

Outil de test de liaison TCP/IP

Exemple :

```
[root @ home]$ ping www.wanadoo.fr
```

```
Pinging www.wanadoo.fr (193.252.122.103) with 56 bytes of data
```

```
64 bytes from 193.252.122.103: icmp_seq= 0 ttl=246 time= 70 ms
```

```
64 bytes from 193.252.122.103: icmp_seq= 1 ttl=246 time=102 ms
```

```
64 bytes from 193.252.122.103: icmp_seq= 2 ttl=246 time= 69 ms
```

```
64 bytes from 193.252.122.103: icmp_seq= 3 ttl=246 time= 71 ms
```

```
--- www.wanadoo.fr ping statistics ---
```

```
4 packets transmitted, 4 packets received, 0% packet loss
```

```
round-trip min/avg/max = 69/ 78/102 ms
```

```
[root @ home]$
```

10) telnet

Démarre une session telnet client

```
[root @ home]$ telnet
```

```
telnet address
```

```
[root @ home]$
```

```
[root @ home]$ telnet
```

```
Command not found.
```

```
[root @ home]$ telnet
```

```
telnet address
```

```
[root @ home]$ telnet www.ammoniac.net
```

```
Trying 83.113.88.91
```

```
Connected to 83.113.88.91
```

```
Escape character is '^['.
```

```
login: superadmin
```

```
Password:
```

```
[root@one31 root]#
```

11) ftp

Démarre une session ftp client

12) tftp

Démarre une session tftp client

13) ps

Liste des processus en cours

14) regs

Liste des registres du processus spécifié

4. Listing des commandes 'ADMIN'

Nota : en rouge-gras => les commandes,
en noir-gras => les répertoires.

Remarque : La liste est dans l'ordre alphabétique.

1) A <CMD> bitmap

Syntaxe : bitmap

Description : Donne un état d'occupation des différents éléments de la mémoire (tables, subpools,...):

```
sabitmap          : Used = 14 Max = 256
radixMaskBitmap   : Used = 3 Max = 10
radixHeadBitmap   : Used = 2 Max = 10
rnkeyBitmap        : Used = 17 Max = 300
Route Entries     : Used = 17 Max = 300
UDP connections   : Used = 14 Max = 128
rtInfoBitmap      : Used = 0 Max = 10
RAW connections   : Used = 0 Max = 10
TCP Connections   : Used = 6 Max = 128
Sockets           : Used = 14 Max = 128
Arp entries       : Used = 2 Max = 256
cluBit512         : Used = 0      Max = 15      Failed = 0
cluBit1024        : Used = 0      Max = 15      Failed = 0
cluBit1536        : Used = 0      Max = 40      Failed = 0
cluBit2048        : Used = 53     Max = 993    Failed = 0
mbufBit           : Used = 35     Max = 800    Failed = 0
```

2) A <CMD> dhcp

Syntaxe : dhcp start | stop | restart | status <interface>

Description : gère le serveur DHCP d'attribution d'adresses IP dynamiques

Configures an interface to fetch its IP address from a DHCP server. The **start** option enables the interface to get the IP address from the DHCP server. The **stop** option disables this feature.

The **restart** option will stop and then start again negotiation with the DHCP server for an IP address. Restart is useful to reacquire an IP address.

Exemple:

```
dhcp start eth0
```

3) A <CMD> dhcpr

Syntaxe : dhcpr [start/stop/status] -o [remote_server]

Description : gère le serveur DHCP Relay
l'option -o [remote_server] sert à spécifier l'adresse du serveur relais.

4) A <CMD> erase

Syntaxe : erase

Description : efface la configuration courante, et revient à la config. Usine.

5) A <CMD> ifconfig

Syntaxe : ifconfig -o <interface-name> inet <address> [parameters]
ifconfig -o -a
ifconfig -o -l
parameters - mtu <n 72-1500>, broadcast <address>, netmask <mask>, up, down

Description : gère les différentes interfaces réseaux de la LiveBox :
ifconfig -o eth0 liste la config de l'interface eth0 (LiveBox)
ifconfig -o -a liste la config de toutes les interfaces

The ifconfig command contains several forms to obtain information or configure an IP address for an interface. The first form configures the IP address and other parameters for the specified interface. The remaining forms display information about the interface(s).

```
ifconfig -o <interface_name> inet <address> [netmask <mask>] [broadcast <addr>]
```

```
[up|down] [mtu <n>]
```

```
ifconfig -o <interface_name>
```

```
ifconfig -o -a
```

```
ifconfig -o -l
```

<interface_name> The name of the interface. Possible values are “eth0”, “eth1”, “mer0”, “usb0”, “lo0”, “atm0”, “atm1”, “atm2”, “atm3”, “atm4”, “atm5”, “atm6”, “atm7”, “ppp0”, “ppp1”, “ppp2,” “ppp3”, “ppp4”, “ppp5”, “ppp6”, “ppp7”.

<address>

The IP address to be assigned to the interface. Dot-notation is used to enter the IP address (for example 192.168.2.1).

netmask <mask>

The netmask is used to extract the network part from the IP address. It also specifies how much of the address is to be reserved for subdividing the network into sub-networks that are taken from the host field of the address. Netmask is ‘AND’ed with the interface IP address to get the network ID that is used in routing, indicating that this network is reachable through these interfaces. The mask can be specified as a single hexadecimal number with a leading 0x, for example 0xfffff00, or with a dot-notation Internet address of 255.255.255.00

broadcast <addr>

Broadcasting is used when it makes sense to send the same message to multiple recipients on the LAN. This option is used to specify the broadcast address to be used in the network. The default broadcast address is the address with a host part as all 1's in the IP address. For example, 192.168.2.255 is a broadcast address for network 192.168.2.0

down

Mark an interface “down”. When an interface is marked “down”, the system will not attempt to transmit messages through that interface.

up

Mark an interface “up”. This may be used to enable an interface after an interface was marked as “down”. By enabling the interface, messages can be transmitted through that interface.

mtu <n>

Sets the maximum transmission unit of the interface to n, the default is interface specific. The MTU is used to limit the size of packets that are transmitted on an interface. Not all interfaces support setting the MTU, and some interfaces, like ethernet, have range restrictions (72 – 1500).

-a

Displays detailed information about all the interfaces.

-l

Lists the current interfaces.

Examples:

```
[root @ home] ifconfig -o -a
```

```
eth0: flags=ffff8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST>
```

```
mtu 1500 inet 192.168.2.185 netmask 0xfffff00 broadcast 192.168.2.255
```

```
ether 08:00:20:c0:c9:74
```

```
lo0: flags=ffff8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
```

```
inet 127.0.0.1 netmask 0xff000000
```

The above command lists all the interfaces.

```
ifconfig -o -l
```

Displays a list of interfaces. It will result in a listing such as "eth0 atm0."

```
ifconfig -o eth0
```

```
eth0: flags=ffff8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST>
```

```
mtu 1500 inet 192.168.2.185 netmask 0xfffff00 broadcast 192.168.2.255
```

```
ether 08:00:20:c0:c9:74
```

The configuration of eth0 is listed.

```
ifconfig -o eth0 inet 192.168.2.242
```


Set the IP address on eth0 to 192.168.2.242

```
ifconfig -o eth0 inet 192.168.2.185 mtu 900
```

Changes the MTU for the eth0 interface.

```
ifconfig -o eth0 inet 192.168.2.185 broadcast 192.168.255.255
```

Changes the broadcast address

```
ifconfig -o eth0 inet 192.168.2.185 netmask 255.255.00.00
```

Changes the netmask.

```
ifconfig -o eth0 inet 192.168.2.185 down
```

Marks the interface as down.

```
ifconfig -o eth0 inet 192.168.2.185 up
```

Marks the interface as up.

```
ifconfig -o eth0 inet 192.168.2.185 alias 192.168.2.242
```

```
ifconfig -o eth0 inet 192.168.2.185 broadcast 192.168.255.255 netmask  
255.255.00.00 mtu 900
```

Sets the broadcast address, netmask and mtu for the eth0 interface.

6) **A <CMD> reboot**

Syntaxe : reboot

Description : redémarre la LiveBOX, de façon moins violente qu'en éteignant/rallumant !

7) **A <CMD> save**

Syntaxe : save

Description : enregistre la configuration en cours dans la mémoire flash.

8) **A <LIST> atm**

O <CMD> showatmconn

Syntaxe :

ATM INTERFACE CONFIGURATION INFORMATION

VPI	VCI	ID	SERVICE	ENCAPS	PEAK (Cells/s)	AVG/ MIN	BURST (Cells)	CDVT (usec)
8	35	0	UBR	AAL5	377	377	45	500000
8	38	1	NRTVBR	AAL5	302	302	75	500000
8	39	2	CBR	AAL5	75	0	0	500000
8	40	3	RTVBR	AAL5	1	1	45	500000
8	41	4	RTVBR	AAL5	1	1	45	500000

ACTIVE VCC CONNECTIONS AT THIS INTERFACE : 5

O <CMD> vcadd

Syntaxe :

```
vcadd <vpi> <vci> <service> <encaps> -o [-peak <val>]
                                         [-avg <val>] [-mbs <val>] [-cdvt <val>]

vpi          - vpi number
vci          - vci number
service      - cbr / rtvbr / nrtvbr / ubr
encaps       - aal2 / aal5
-peak val    - peak cell rate (in cells per sec)
-avg val     - average/minimum (SCR) cell rate (in cells per sec)
-mbs val     - burst size (in cells)
-cdvt val    - cell delay variation tolerance (in micro secs)
```

O <CMD> deletevc

Syntaxe :

```
deletevc <vpi> <vci>
vpi - vpi value
vci - vci value
```

O <CMD> atmstats

Syntaxe :

```
Transmitted Cells      : 0
Transmitted Frames     : 0
Received Cells         : 0
Received Frames        : 0
CRC Errors              : 0
Over sized Frames      : 0
```

O <CMD> f5lb

Syntaxe :

```
f5lb <vpi> <vci> <flow type> -o <LLID>
    vpi - vpi value
    vci - vci value
    flow type - seg / ete
    LLID - loopback location ID (32 hex digits)
           (default (hex): FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF)
```

9) A <LIST> auth

A <CMD> listusers

1	admin	HTTP FTP	- ADMIN
2	root	CLI FTP	- ADMIN

Description :

A <CMD> adduser

Syntaxe :

```
adduser username -o -services [services] -permissions [permissions]
  services : [cli/ftp/http]
  permissions : [admin/ordin]
```

Description :

Ajoute un nouvel utilisateur pour accéder au système. Cette commande nécessite qu'un mot de passe soit entré. Vous devez être loggé en tant qu'administrateur pour utiliser cette commande..

Exemple 1 :

```
[root @ auth]$ adduser toto -o -services cli
Enter password:
```

User Name Succesfully Added.

```
[root @ auth]$ listusers
1      admin          HTTP FTP      - ADMIN
2      root           CLI FTP      - ADMIN
3      toto           CLI          - ORDIN
[root @ auth]$
```

Exemple2 :

```
[root @ auth]$ adduser toto -o -services http,cli -permissions admin
Enter password:
```

User Name Succesfully Added.

```
[root @ auth]$ listusers
1      admin          HTTP FTP      - ADMIN
2      root           CLI FTP      - ADMIN
3      toto           HTTP CLI     - ADMIN
[root @ auth]$
```

A <CMD> deluser**Syntaxe :**

```
deluser username
```

Exemple :

```
[root @ auth]$ deluser toto
User successfully deleted
[root @ auth]$
```

A <CMD> changepasswd**Syntaxe :**

```
changepasswd username
Enter old password:
Enter New password:
Confirm New password:
```

Description :

Change le mot de passé d'un utilisateur.

Exemple :

```
[root @ auth]$ changepasswd toto
Enter old password:
Enter New password:
Confirm New password:
Passwords Changed Successfully
[root @ auth]$
```

A <CMD> modifyuser

Syntaxe :

```
modifyuser username -o -services [services] -permissions [permissions]
  services      : [cli/ftp/http]
  permissions   : [admin/ordin]
```

Description :

Modifie les paramètres d'un utilisateur. Cette commande nécessite qu'un mot de passe soit entré. Vous devez être loggé en tant qu'administrateur pour utiliser cette commande..

Exemple :

```
[root @ auth]$ modifyuser toto -o -permissions ordin
Succesfully modified
[root @ auth]$ listusers
1      admin                HTTP FTP    - ADMIN
2      root                 CLI FTP    - ADMIN
3      toto                 HTTP CLI   - ORDIN
[root @ auth]$
[root @ auth]$ modifyuser toto -o -permissions admin
Succesfully modified
[root @ auth]$ listusers
1      admin                HTTP FTP    - ADMIN
2      root                 CLI FTP    - ADMIN
3      toto                 HTTP CLI   - ADMIN
[root @ auth]$
```

A <CMD> resetuser

10) A <LIST> dns

A <CMD> list

Syntaxe :

```
Name Server1: 80.10.246.130
Name Server2: 80.10.246.3
Domain Name:
```

A <CMD> help

Syntaxe :

```
Help for list and set commands
  list - It will display the current configuration
  set [-d] <default domain name> - will set the default domain name
  set [-n1 / -n2] < domain name server's ip address > - will set
the dns servers
```

A <CMD> set

A <CMD> delete

Syntaxe :

```
delete primary/secondary
where primary - Primary DNS Server.
```

secondary - Secondary DNS Server.

A <CMD> dnsr

Syntaxe : dnsr [start/stop] -o [Server1] {Server2}

11) A <LIST> ethernet

A <CMD> elink

Syntaxe :

elink <interface> -o [[auto] | [10 | 100 | auto_speed] | [half | full | auto_duplex]]

A <CMD> emac

Syntaxe :

emac <interface> half/full/show

A <CMD> linkstats

Syntaxe :

rmon <interface>

A <CMD> setemac

Syntaxe :

setemac xx:xx:xx:xx:xx:xx

A <CMD> stat

Syntaxe :

stat <dev>

12) A <LIST> igmp

A <CMD> igmp

Syntaxe :

igmp -proxyif <interface> : To set proxy interface

igmp -routerif <interface> : To set router interface

igmp -deleteif <interface> : To delete either proxy or router interface

A <CMD> list

Syntaxe :

IGMP Proxy Status: Disable

Igmp proxy interface not configured

A <CMD> proxy

Syntaxe :

proxy [enable/disable]

13) **A <LIST> ipqos**

A <CMD> attach

Syntaxe :

```
attach <interface_name> -o linkspeed <kbps> admission <yes/no> borrow
<yes/no> ackpriority <enable/disable>
```

Default Link Speed : Baud rate of the interface

Default admission: no

Default Borrow: yes

Default AckPriority : Disable

A <CMD> firewall

Syntaxe :

More or less arguments

A <CMD> links

Syntaxe :

LOCAL-ADDR/PORT	ALIAS-ADDR/PORT	REMOT-ADDR/PORT	LINK/EX.TIME	IN/OUT-PKTS
80.13.11.201 1720	80.13.11.201 1720	0.0.0.0 0	TCP 55	0 1
80.13.11.201 3719	80.13.11.201 3719	193.252.20.5 1719	UDP 55	652 659
192.168.3.11 3500	0.0.0.0 0	192.168.1.1 23	TCP 172800	273 478

A <CMD> listwfq

Syntaxe :

1.

Interface Information:

Name	Link Speed	Admission	Borrow	Ack Priority
ppp0	152	no	yes	disable

Weights:

Default	Low	Medium	High	critical	real-time	premium	urgent
20	0	0	0	0	80	0	0

A <CMD> listwt

Syntaxe :

WFQ Weights

=====

Traffic Name	Weight (%)
Default	20
Low	0

Medium	0
High	0
Critical	0
Real Time	80
Premium	0
Urgent	0

A <CMD> nat

Syntaxe :

```

nat <interface> [-alias_address <addr>]
                [-unregistered_only yes|no]
                [-same_ports yes|no]
                [-status]
                [-disable]
                [-enable]

```

Options:

```

-alias_address a.b.c.d  Address to use for aliasing
-unregistered_only [yes|no]  Alias only unregistered addresses
-same_ports [yes|no]  Try to keep original port numbers for
                        connections
-status  Display currently configured NAT options
-disable  Disable NAT
-enable  Enable NAT

```

A <CMD> nataction

Syntaxe :

```

nataction add static/rdaddr/rdport <addr1 [addr2]> [-tp port1 [port2]]
nataction delete/list/enable/disable <action-id>

```

A <CMD> policy

Syntaxe :

```

policy set      <RxIfName> <TxIfName> <Sequence> {Allow|Deny}
                [srcip <a.b.c.d> [<e.f.g.h>]]
                [dstip <a.b.c.d> [<e.f.g.h>]]
                [sport <p1> [<p2>]]
                [dport <p1> [<p2>]]
                [proto <Protocol>]
                [tc <TC-Action-ID>]
                [nat <NAT-Action-ID>]

policy delete  <QoS-Policy-ID>

policy modify  <Policy-ID> <RxIfName> <TxIfName> <Sequence>{Allow|Deny}
                [srcip <a.b.c.d> [<e.f.g.h>]]
                [dstip <a.b.c.d> [<e.f.g.h>]]
                [sport <p1> [<p2>]]
                [dport <p1> [<p2>]]
                [proto <Protocol>]
                [tc <TC-Action-ID>]
                [nat <NAT-Action-ID>]

```

```
policy enable <QoS-Policy-ID>
policy disable <QoS-Policy-ID>
policy list [default] [<IfName1>] [<IfName2>]
```

A <CMD> publicip

Syntaxe :

```
publicip add/delete <public address>
publicip list
```

A <CMD> qstat

Syntaxe :

```
qstat $interface_name
```

A <CMD> remove

Syntaxe :

```
remove $interface_name
```

A <CMD> rft

Quitte Telnet !

A <CMD> setwt

Syntaxe :

```
setwt <default_wt> <low_wt> <high_wt> <medium_wt>
      <critical_wt> <real-time_wt> <premium_wt> <urgent_wt>
      Weight Zero queues traffic will use default queue bandwidth
```

A <CMD> spoof

Syntaxe :

```
spoof [ list | enable | disable | <If name> [ trusted | untrusted ] ]
```

spoof list : list the all the trusted and untrusted interfaces along with status

spoof enable : Enable spoof protection

spoof disable : Disable spoof protection

spoof eth1 trusted : Set eth1 as trusted interface

spoof eth1 untrusted : Set eth1 as untrusted interface

O <CMD> attack

Syntaxe :

```
attack set/enable/disable <attack_type> [<threshold> <timeout>]
```

```
attack enable/disable <attack_type>
```

```
attack listInsufficient number of arguments
```


O <CMD> createtc

Syntaxe :

```
createtc <dfmark/dfnomark> <priority_class> -o assuredbw <value> maxbw <value>
```

O <CMD> debug

(répète l'action précédente)

O <CMD> deletetc

Syntaxe :

```
deletetc <action_id/all( which are not attached to any policy)
```

O <CMD> listtc

Syntaxe :

```
listtc <action_id/all>
```

O <CMD> tcstat

```
listtc <action_id>
```

14) A <LIST> logger

A <CMD> logger

Syntaxe :

```
logger list
```

```
logger add <facility-name> <severity-name> <destination-id>
```

```
logger delete <facility-name> <severity-name>
```

facility-name ->

```
kernel/user/mail/daemon/auth/syslog/lpr/new/uucp/clock/secauth  
ftpdaemon/ntp/logaduit/logalert/cron/local0/local1/local2/local3  
local4/local5/local6/local7/ip/tcp/udp/sockets/rawip/icmp/arp  
igmp/app/cdcli/if/telnet/dns/snmp/http/ping/ftp/ftpd/tftp/bootp  
dhcpc/dhcps/qosbw/ipsec/ike/nat/firewall/diffserv/logger/queuing  
ipoa/pppoa/ethoa/httpproxy/ftp proxy/misc/cbq/mgcp/rtp/dhcpr
```

severity-name ->

```
emergency/alert/critical/error/warning/notice/info/debug  
trace/accounting
```

A <CMD> loggerdest

Syntaxe :

```
loggerdest add syslog <syslog-server-addr> [syslog-server-port]
```

```
loggerdest add local
```

```
loggerdest add user <user-name>
```

```
loggerdest add adminalert <sender-mail-id> <admin-mail-id> <smtp-server-addr>
```

```
loggerdest list [<destination-id>]
```

```
loggerdest delete <destination-id>
```

A <CMD> logmsg

Syntaxe :

```
logmsg list
logmsg delete
```

15) A <LIST> rarpd

A <CMD> list

Syntaxe :

```
H/W ADDR          IP ADDRESS
```

A <CMD> add

Syntaxe :

```
add {0xH/Waddress} {IPAddress}
```

A <CMD> delete

Syntaxe :

```
delete {0xH/Waddress}
```

A <CMD> rarpd

Syntaxe :

```
rarpd {-a | interface}
```

16) A <LIST> snmp

A <CMD> list

Syntaxe :

```
SNMP Agent
```

```
=====
STATUS                : Running
TRANSPORT              : 192.168.1.1/161
System Version Description : F@st3202
System Contact         : SAGEM SA Phone: 33 1 40 70 63 63
System Location        : Le Ponant de Paris,27, rue Leblanc 75512 PARIS
CEDEX 15
System ID              : 4242
=====
```

Trap Server Configurations

```
=====
-----
Index  Version  IP-Address  Community  Status
-----
1      SNMP-V1   0.0.0.0    public     disable
2      SNMP-V2   0.0.0.0    public     disable
-----
```

Communities

```
=====
-----
Index  IP-Address  Community  Access
```

A <CMD> agconfig

Syntaxe :

```
agconfig $interface -o $port
    $interface - interface on which agent will run
    $port: Port Number ( DEFAULT Port No : 161
```

A <CMD> comconf

Syntaxe :

```
comconf $ipaddress $community_name -o $access
    $ipaddress: IP Address of accessing station
    $community_name: community string to access MIB
    $access: 1 - ReadOnly[default]/ 2 - ReadWrite
comconf @ip-de-ta-machine nom-de-ta-communauté -o readonly (c'est suffisant pour récupérer des graphes type MRTG ou PRTG)
```

et ensuite start

```
[root @ snmp]$ start
SNMP Agent Is Already Running[root @ snmp]$
```

A <CMD> delcomm

Syntaxe :

```
delcomm $index
    index: Community index in list
```

A <CMD> shutdown

Syntaxe :

(Arrête le serveur snmp)
Si le serveur est arrêté, => SNMP Agent Is Already Stopped

A <CMD> start

Syntaxe :

(Démarré le serveur snmp)
Si le serveur est démarré, => SNMP Agent Is Already Running

A <CMD> sysconf

Syntaxe :

```
sysconf [-d] [-c] [-l] [-i] value
    -d      : System Version Description
    -c      : System Contact
    -l      : System Location
    -i      : Assigned Enterprise Number
```

A <CMD> trap

```
trap [1][2] enable/disable
1 - SNMP Version-1,
```

2 - SNMP Version-2

A <CMD> trapconf

Syntax :

```
trapconf [1][2] $IPADDRESS $community
```

1 - SNMP Version-1, 2 - SNMP Version-2

IPADDRESS - IP Address of Trap Server

community: community string to authenticate at manager side

5. Listing des commandes 'ORDIN'

1) O <CMD> apregdump

Syntaxe :

```
*apregdump <ap_id>  
ap_id - 1 - ETH1, 2 - ETH2, 3 - ETH3(ATM), 4 - SEC, 5 - BM
```

2) O <CMD> aread

Syntaxe :

```
aread <ap_id> <offset> <size> <type>  
ap_id - 1 - ETH1, 2 - ETH2, 3 - ETH3, 4 - SEC, 5 - BM, 6 - ATM  
offset = 0x0 - 0x7ff  
size = 1 - 256 (decimal)  
type = b - byte, w - word, l - long
```

3) O <CMD> awrite

Syntaxe :

```
awrite <ap_id> <offset> <value> <type>  
ap_id - 1 - ETH1, 2 - ETH2, 3 - ETH3, 4 - SEC, 5 - BM, 6 - ATM  
offset = 0x0 - 0x7ff  
value = 0 - ff for byte, 0 - ffff for word, 0 - ffffffff for long  
type = b - byte, w - word, l - long
```

4) O <CMD> date

Syntaxe :

```
DATE (MM:DD:YYYY) 10:28:2004 TIME (H:M:S) 20:50:55
```

5) O <CMD> list

Syntaxe :

```
list <udp/tcp/routes>
```

6) O <CMD> memshow

Syntaxe :

```
(pas de message ? ? ?)
```

7) O <CMD> mread

Syntaxe :

```
mread <offset> <size>  
offset = 0xa0000000 - 0xbfffffff  
size = 1 - 100 (decimal)
```

8) O <CMD> mwrite

Syntaxe :

```
mwrite <offset> <value>  
offset = 0xa0000000 - 0xbfffffff  
value = 0 - ffffffff (hexadecimal)
```

9) O <CMD> route

Syntaxe :

```
route add -o -dest {dest ip addr} -gateway {gateway ip addr} [{-option value}*]
```

```
route add -o -dest {dest ip addr} -interface {interface name}  [{-option value }*]  
route delete -o -dest {dest ip addr}  
route change -o -dest {dest ip addr} -gateway {new ip addr}  
route flush  
options : mtu & hopcount &netmask
```

10) O <CMD> stats

Syntaxe :

```
statistic parameter  
parameters - IP|TCP|UDP|ICMP.
```

11) O <CMD> version

Syntaxe :

```
AD6843 Security Router Software3202_220108
```

12) O <LIST> acf

O <CMD> intf

Syntaxe :

```
intf is ppp0
```

O <CMD> loadint

Syntaxe :

```
loadint = 240 hours 0 minutes
```

O <CMD> media

Syntaxe :

```
Invalid number of arguments
```

O <CMD> server

Syntaxe :

```
Invalid number of arguments
```

O <CMD> setmacs

Syntaxe :

```
(pas de message)
```

O <CMD> trace

Syntaxe :

```
ACF TRACE LEVEL is 0
```

13) O <LIST> adsl

O <CMD> adslup

Syntaxe :

```
(rien ne s'affiche)
```

O <CMD> adslidown

Syntaxe :
(rien ne s'affiche)

O <CMD> setmode

Syntaxe :
mode = ansi/gdmt/glite/multi

O <CMD> mon

Syntaxe :
ADSL Monitoring is Successful.
The values are:

```
adslLineStatus : OPERATIONNEL
adslMode      : G992_1_A
Upstream = 160 Kb ( Intlv[LP0] )
Downstream = 2432 Kb ( Intlv[LP0] )
=====
DIAG Info      :
=====
Attenuation ( dB ) :          15.5          11.0 (FE)
SNR margin  ( dB ) :             33          31 (FE)
HEC counter   :              0
CRC counter   :              1

RTFirmwareVer : 0x170f060f
```

O <CMD> cmvhex

Syntaxe :
cmvhex <command id> <hex1> .. <hex16>

O <CMD> readcmv

Syntaxe :
readcmv <cmv name> <address> <index>
cmv index = CNTL/ STAT/ INFO/ TEST /OPTN /RATE /PLAM /CNFG/
address = 0 - 65535 (decimal)
index = 0 - 65535 (decimal)

O <CMD> writecmv

Syntaxe :
writecmv <cmv name> <address> <index> <value>
cmv index = CNTL/ STAT/ INFO/ TEST /OPTN /RATE /PLAM /CNFG/
address = 0 - 65535 (decimal)
index = 0 - 65535 (decimal)
value = value is expected in hexadecimal format

O <CMD> addusercmv

Syntaxe :

```
addusercmv <cmv name> <address> <index> <value>
cmv index = CNTL/ STAT/ INFO/ TEST /OPTN /RATE /PLAM /CNFG/
address = 0 - 65535 (decimal)
index = 0 - 65535 (decimal)
value = value is expected in hexadecimal format
```

O <CMD> delusercmv

Syntaxe :

```
delusercmv <cmv index>
cmv index = Index of CMV as displayed in the "list".
```

O <CMD> listusercmv

Syntaxe :

USER CMVs:

```
=====
Index   CMV Name   Address   Index   Value
=====
```

14) O <LIST> arp

O <CMD> list

Syntaxe :

IP Address	MAC Address
192.168.1.1	0:60:4c:55:aa:ba
192.168.3.10	0:60:b3:a8:72:a1
192.168.5.10	0:50:ba:21:be:8b

O <CMD> delete

Syntaxe :

```
delete <ipaddr>
```

O <CMD> flush

Syntaxe :

Après un flush, voici le list précédent obtenu :

IP Address	MAC Address
192.168.3.10	0:60:b3:a8:72:a1
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.3.10	0: 0: 0: 0: 0: 0
192.168.5.10	0:50:ba:21:be:8b

(reboot pour revenir à l'état initial)

15) **O <LIST> bridge**

O <CMD> bridge

Syntaxe :

bridge action

where action - enable\disable\Delete

O <CMD> cachetimer

Syntaxe :

cachetimer timeout

where timeout - Host cache timeout in (1-1200) seconds.

O <CMD> group

Syntaxe :

group if if -o [-if]

where if - Interface name e.g. eth0\eth1\((atm0..atm7)\wlan0

O <CMD> igmpsnoop

Syntaxe :

igmpsnoop enable/disable/flush

O <CMD> list

Syntaxe :

Name	State	MacAddr	Priority	LinkCost	Vci/Vpi/Encap	VpnOUI	VpnId
eth0	Transitaire	00:60:4c:55:aa:ba	128	100	0/0/LLC (VPN)	0	0
atm1	Transitaire	00:00:00:00:00:00	128	250	8/38/LLC (VPN)	0	0
atm2	Transitaire	00:00:00:00:00:00	128	250	8/39/LLC (VPN)	0	0
atm3	Transitaire	00:00:00:00:00:00	128	250	8/40/LLC (VPN)	0	0
atm4	Transitaire	00:00:00:00:00:00	128	250	8/41/LLC (VPN)	0	0

Station Cache Timeout : 300

O <CMD> listAll

Syntaxe :

Bridge status = Active

Spanning Tree status = InActive

VLAN status = Active

Maximum bridge filters allowed = 1024

Maximum layer2 filters allowed per port = 100

Maximum classify rules allowed per port = 100

Maximum VLANs allowed = 8

Maximum VLANs allowed per port = 8

No of ports in bridge group = 5

bridge timeout (secs) = 600

bridge management Ip Address = 192.168.1.1

igmpsnoop status (V1/V2) = disable

O <CMD> listmcast

Syntaxe :

No Entries present in the filter list

O <CMD> pvc

Syntaxe :

```
pvc add/delete port vpi vci encapsulation -o <-vpn OUI vpnId>
where port          - (atm0-atm7)
      vpi           - (0-255)
      vci           - (0-65535)
      encapsulation - llc\vc
      -vpn OUI vpnId - Enable VPN Encapsulation on this interface.
                        OUI   : Organizationally Unique Identifier.
                        vpnId  : VPN Index
```

O <CMD> setmultiport

Syntaxe :

```
setmultiport <enable/disable>
```

setmultiport enable allows flooding between ATM pvcs.

O <CMD> stats

Syntaxe :

Statistics Summary

```
-----
RxTotal: 9128   TxTotal: 15   FloodTotal: 3423   DropTotal: 0   FwdTotal: 3423
```

Name	Rxcount	Txcount	RxFail	TxFail	SenttoIP
eth0	9128	3	0	0	3420
atm1	0	3	0	0	0
atm2	0	3	0	0	0
atm3	0	3	0	0	0
atm4	0	3	0	0	0

O <CMD> tableflush

Syntaxe :

O <CMD> tablelist

Syntaxe :

Name	PortNo/Vid	MacAddr	Age	Action
_	0:-1	0:60:4c:55:aa:ba	S	Fwd
eth0	1:2	0:50:ba:21:be:8b	D	Fwd
_	0:-1	ff:ff:ff:ff:ff:ff	S	Fwd

```
Maximum Filter Entries : 1024
```

```
Total Filter Entries  : 3
```

```
Total Static Entries   : 2
```

```
Total Dynamic Entries  : 1
```

O <LIST> l2filter

O <CMD> list

Syntaxe :

```
list <filter_id/all>
where filter_id      - filter id to be listed
or all              - keyword all to list all l2 filters
```

O <CMD> add

Syntaxe :

```
add <port_name> <drop/allow> <priority> -o [ -smac <mac_value> | -dmac <mac_value> | -
bilateralbmac <mac_value> | -ethertype <type_value> | -ethertype <type_name> | -vlan
<vlan_name>]
  where port_name          - name of a particular port (32 characters)
        -smac <mac_value> - if souce mac needs to be dropped or allowed
        <drop/allow>      - drop - to drop and allow - to allow
        <priority>        - priority of the filter rule. It can have values in
the range 0-7.
  or -dmac <mac_value>    - if souce mac needs to be dropped or allowed
  or -bilateralbmac <mac_value> - if souce mac needs to be dropped or allowed
  or -ether_type <protocol_value> - if ether type is needs to be dropped or allowed
  or -ether_type <protocole_name> - if ether type is needs to be dropped or allowed.
                                  For valid names, please use ethertypes command
  --vlan <vlan_name>      - vlan name from the existing vlans if VLAN is
enabled
```

The mac addresses should be of the format xx:xx:xx:xx:xx:xx.

The list of valid protocol names can be found using the 'ethertypes' command.

The protocol value should be of the format 0xAAAA or 0XAAAA.

This command will return a unique Filter Id which can be used in delete and list commands.

O <CMD> delete

Syntaxe :

```
delete <filer_id>
where filter_id      - filter id returned while adding
```

O <CMD> deleteall

Syntaxe :

```
deleteall <port_name>
where port_name      - name of a particular port (32 characters)
```

O <CMD> ethertypes

Syntaxe :

```
Protocol Names      Protocol vlaue      Explanation
```

arp	0x806	Address Resolution Protocol
rarp	0x8035	Reverse Address Resolution Protocol
ip	0x800	Internet Protocol
btn	0x1000	Berkeley Trailer Negotiation
lan_test	0x708	LAN test
x25	0x805	X.25 level 3
banyan	0xbad	BANYAN
cdp	0x2000	CDP
xns	0x6000	Dec XNS
mop_dl	0x6001	Dec MOP Dump/Load
mop	0x6002	Dec MOP
lat	0x6004	Dec LAT
ethertalk	0x809b	Ethertalk
aarp	0x80f3	appletalk arp

```

ipx_o          0x8137  Novell IPX (old)
ipx_n          0x8138  Novell IPX (new)
eapol_o       0x8180  EAPOL (old)
eapol_n       0x888e  EAPOL (new)
txp           0x8729  Telxon TXP
ddp           0x872d  Aironet DDP
ect           0x9000  Enet Config Test
netbui        0xf0f0  NETBUI
pppoe_disc    0x8863  PPPOE discovery stage
pppoe_sess    0x8864  PPPOE session stage

```

O <LIST> stp

O <CMD> list

Syntaxe :

```

Stp           : DISABLED           ActivePorts:5
BridgeId      : 00:00:00:00:00:00   RootId :00:00:00:00:00:00
HelloTime     : 2                   RootPathCost :0
Max Age       : 20                   RootPort      :0
FwdDelay      : 15                   HoldTime      :1

```

Port	State	PortId	LinkCost	TxCBpdu	RxCBpdu	TxTBpdu	RxTBpdu	Timers
eth0	F	32769	100	0	0	0	0	._._ _ MeFwHo
atm1	F	32770	250	0	0	0	0	._._ _ MeFwHo
atm2	F	32771	250	0	0	0	0	._._ _ MeFwHo
atm3	F	32772	250	0	0	0	0	._._ _ MeFwHo
atm4	F	32773	250	0	0	0	0	._._ _ MeFwHo

O <CMD> config

Syntaxe :

Aucun effet apparent

O <CMD> port

Syntaxe :

```

port portname -o [-priority] [-linkcost]
where portname - eth0\eth1\ (atm0-atm7)
priority      - (0-255)
linkcost      - (0-65535)

```

O <CMD> span

span enable\disable

Enable stops all network connections for about ~30sec
to rebuild the new bridge table based on spanning Tree

16) O <LIST> bt

O <CMD> version

Syntaxe :

O <CMD> mac

Syntaxe :

00:03:C9:4E:43:75

O <CMD> rdevclass

Syntaxe :
(rien)

O <CMD> rname

Syntaxe :
(rien)

O <CMD> rsetvoice

Syntaxe :
(rien)

O <CMD> testmode

Syntaxe :
(rien)

O <CMD> total_debug

Syntaxe :
(m'a bloqué Telnet => reboot de la box pour reprendre la main)

O <CMD> vendor

Syntaxe :
(rien)

O <CMD> wname

Syntaxe :
(rien)

O <CMD> wsetvoice

(rien)

17) O <LIST> dhcpserver

O <CMD> host

Syntaxe :
host add -o -macaddr <mac-address> -ipaddr <ipaddr>
 -leasetime <lease time> -broadcast <broadcast-address>
 -dns <name-server> -gateway <gateway> -server <server-name>
 -file <filename>
host delete -o -macaddr <mac-address>
host list

O <CMD> lease

Syntaxe :
lease list

O <CMD> start

Syntaxe :
DHCP Server started !!! si démarré => DHCP Server already running.

O <CMD> stop

Syntaxe :
DHCP Server stopped !!! si stoppé => Command not found.

O <CMD> subnet

Syntaxe :
subnet <if> add -o -subnet <subnet> -netmask <mask> -startip <startip>
-endip <endip> -leasetime <lease time in days>
-broadcast <broadcast-address> -dns <name-server>
-secondarydns <name-server> -gateway <gateway>
-server <serverip> -file <filename>

subnet <if> delete

subnet <if> list

18) O <LIST> h323

A <CMD> announce

Syntaxe :
announce <on/off> -o <wrongnum|nwfail|busy>

A <CMD> clearstat

Syntaxe :
(pas d'affichage)

A <CMD> configdest

Syntaxe :
configdest <destip> <destE164alias>
destip - Destination IP address.
destalias - Destination E.164 alias address.
This address is used in case of direct call.

A <CMD> configdtmf

Syntaxe :
configdtmf <phone_portno> <inband/outband/2833>
phone_portno - RJ11 port number. 1 to maximum no of RJ11 ports on RG.

A <CMD> configep

Syntaxe :

```
configep <phone_portno> <e164_addr> -o -id <h323id> -c <codecs>:<pack_period>..
MAX_NUM_SUPPORTED codecs
  phone_portno - RJ11 port number. 1 to maximum no of RJ11 ports on RG.
  e164_addr    - Phone number that has to be registered with GK/known to peer end.
  h323id      - h323ID that has to be registered with GK.
  codecs      - Specifies the codec type to be used in negotiation with peer.
Codecs can be PCMU/PCMA/G723/G729A/G729AB. G729A is with AneexA and G729AB is G729
with Aneex A&B.
  pack_periof - Specifies the packetization period.
```

A <CMD> configprefix

Syntaxe :

```
configprefix <in/out> <add/delete> <prefix> -o <length>
  in      - Indicates prefix for inbound calls.
  out     - Indicates prefix for outbound calls.
  add     - Indicates prefix to be added.
  delete  - Indicates prefix to be deleted.
  prefix  - String to be used as prefix for inbound/outbound calls.
            Incase of delete configuration 'any' only is allowed. In this
            case user has to configure the length of prefix to be
            deleted as optional parameter
  length  - Length of prefix to be deleted.
```

A <CMD> configretry

Syntaxe :

(pas de message)

A <CMD> configrg

Syntaxe :

```
configrg <ifname>
  ifname      - interface name
```

A <CMD> configtimer

Syntaxe :

(pas de message)

A <CMD> configttl

Syntaxe :

```
configttl <ttlValue>
```

A <CMD> configVDN

Syntaxe :

```
configVDN <portno> <yes/no> -o <number>
  portno      - RJ11 port on RG.
  yes/no     - yes - enable no- disable. Optional parameter is
mandatory to enable VDN.
```

number - VirtualDialNumber(VDN) used for this port.

A <CMD> debugport

Syntaxe :

```
debugport <port>
port - RG Port (1--2)
```

A <CMD> deletedest

Syntaxe :

Do you want to delete all the entries? (Y/N)
(et la suite)

A <CMD> dellock

Syntaxe :

```
dellock {area|phone}.
```

Example :

Pour supprimer un verrou, il suffit d'utiliser la commande dellock suivit du numéro.
[root @ h323]\$ dellock 0620

A <CMD> displayci

Syntaxe :

```
displayci <yes/no> -o <portno>
yes - Displayss calling party number if presentation is allowed
no - Doesn't display the calling party number even if presentation
is allowed
portno - RJ11 port on which gateway receives
```

A <CMD> dsptimer

Syntaxe :

```
dsptimer <interdigtimervalue(in secs)
```

A <CMD> faststart

Syntaxe :

```
faststart <on/off> faststart - Enable fast connect procedures.
OFF/off indicates disable faststart.
ON/on indicates enable faststart.
```

A <CMD> fasttunnel

Syntaxe :

```
fasttunnel <on/off> fasttunnel - Enables h.245 tunneling in parallel with
fast connect..
off disables h.245 tunneling in parallel with fast connect.
on enables h.245 tunneling in parallel with fast connect.
```

A <CMD> faxpassthru

Syntaxe :

```
faxpassthru <port> <enable/disable>
```


port - FXS Number (1 or 2).
enable - Enables fax passthrough on given port.

disable - Disables fax passthrough on given port.

A <CMD> framenege

Syntaxe :

framenege <auto/manual>
auto - Number of frames will be auto negotiated.
manual - Number of frames will be set according to
configured value of number frames with codec.

A <CMD> useport

Syntaxe :

useport <port> <yes/no>
portno - Activates/deactivates port to register to gatekeeper.
(1 to maximum number of ports).
yes - Activates port number.This port (alias address) will be .
registered to gatekeeper if the user executes 'usegk' command
with appropriate parameters
no - Deactivates port number.This port(alias address) will not be
registered to gatekeeper

O <CMD> listepinfo

Syntaxe :

***** RG Endpoint Information *****

+-----+

PortNo : 1
PhoneNo : 20000133871229449
H323Id :
VDN : None
CallerID : Enabled
Prefix : 831
Codecs : G729:4 G729A:4 PCMU:2
DTMF Sinaling: out-of-band
Pass Through : Disabled

+-----+

PortNo : 2
PhoneNo :
H323Id :
VDN : None
CallerID : Disabled
Prefix :
Codecs :
DTMF Sinaling: in-band

Pass Through : Disabled

<<< PRESS q TO QUIT >>>

```
+-----+
PortNo      : 3
PhoneNo     :
H323Id      :
VDN         : None
CallerID    : Disabled
Prefix      :
Codecs      :
DTMF Signaling: in-band
Pass Through : Disabled
```

O <CMD> listdest

Syntaxe :

```
Destination Configurations:
=====
-----
SINo | DestIP      | DestE164Alias
-----
No Entry Found
```

O <CMD> listlock

Syntaxe :

```
Restricted calls:
=====
-----
number      | TypeOfNumber
-----
No Entry Found
```

Example :

Pour visualiser les restrictions d'appel mises en place, il faut utiliser la commande listlock

```
[root @ h323]$ listlock
Restricted calls:
=====
-----
number | TypeOfNumber
-----
06 | area
0620 | area
0492156436 | phone
```

O <CMD> listrginfo

Syntaxe :

```
RG Configuration
*****
Interface      : ppp0
FastStart      : disabled
```

```
Tunnel          : disabled
FastTunnel      : disabled
VDN             :
```

***** Announcement Status *****

```
WrongNo        : disabled
NetWorkFail    : disabled
LineBusy       : disabled
```

***** Outbound Prefix *****

```
Add Prefix     : disabled
Delete Prefix   : disabled
Length         : 0
```

***** Inbound Prefix *****

```
Add Prefix     : disabled
Delete Prefix   : disabled
Length         : 0
```

<<< PRESS q TO QUIT >>>

A <CMD> lock

Syntaxe :

```
lock {area|phone} < areacode|phoneno>
area|phone - whether you need to lock areacode or specific phone number
areacode|phoneno Area code or phone number which has to be locked.
```

Example :

```
[root @ h323]$ lock area 06
Il devient impossible d'appeler les portables depuis la LiveBox.
```

```
[root @ h323]$ lock area 0620
Il devient impossible d'appeler certains portables SFR depuis la LiveBox.
```

Plages de numéros des principaux opérateurs
SFR 0603 0609 0610 0611 0612 0613 0614 0615 0616 0617 0618 0619 0620 0621 0622 0623
0624 0625 0626 0627

Bouygues Télécom 0660 0661 0662 0663 0664 0665 0666 0667 0668 0698 0699

Orange 0607 0608 0630 0632 0633 0634 0670 0671 0672 0673 0674 0675 0676 0677 0678
0679 0680 0681 0682 0683 0684 0685 0686 0687 0688 0689

Tous les numéros appartenant à chaque plage ne pourront être appelés

```
[root @ h323]$ lock phone 0492156436
Il devient impossible d'appeler le numéro 0492156436 depuis la LiveBox
```

Pour visualiser les restrictions mises en place, il faut utiliser la commande listlock

```
[root @ h323]$ listlock
Restricted calls:
=====
-----
number | TypeOfNumber
-----
```

```
06 | area
0620 | area
0492156436 | phone
```

Pour supprimer un verrou, il suffit d'utiliser la commande dellock suivit du numéro, comme pour lock

```
[root @ h323]$ dellock 0620
Vérification :
[root @ h323]$ listlock
Restricted calls:
=====
-----
number | TypeOfNumber
-----
06 | area
0492156436 | phone
```

A <CMD> maxdigits

Syntaxe :

maxdigits <1-17>. Default value is 4.
if Less than maxdigits, then use '#' at the end of digit string

A <CMD> memalloc

Syntaxe :

```
pcibitmap      : Used = 0 Max = 9
pcbbitmap      : Used = 0 Max = 10
q931msgs       : Used = 0 Max = 20
rtpsess        : Used = 0 Max = 9
H245CtlBlks    : Used = 0 Max = 20
H245BigBufs    : Used = 1 Max = 2
H245Reqs       : Used = 0 Max = 20
Cap2CM         : Used = 0 Max = 20
Lcs2CM         : Used = 0 Max = 20
RlcPams        : Used = 0 Max = 20
LcsAck2CM      : Used = 0 Max = 20
H245Respses    : Used = 0 Max = 20
CMD MODE       : Used = 0 Max = 2
TunPDU         : Used = 0 Max = 10
ReqMode        : Used = 0 Max = 5
AudioMode      : Used = 0 Max = 25
VoiceBufs      : Used = 0 Max = 100
Timers         : Used = 19 Max = 100
```

A <CMD> prefix

Syntaxe :

```
prefix <in/out> <add/delete> <on/off>
in      - Indicates prefix for inbound calls.
out     - Indicates prefix for outbound calls.
add     - Indicates prefix to be added.
delete  - Indicates prefix to be deleted.
on      - Indicates configuration is active.
off     - Indicates configuration is inactive.
```

A <CMD> presentci

Syntaxe :

presentci <yes/no> -o <port> <prefix>
yes - Gives the authority to Called Party to display Calling Number
no - Restricts the Called Party from displaying Calling Number
portno - RJ11 port on which calling party number display has to be
enabled/disabled

A <CMD> sendGRQ

Syntaxe :

sendGRQ yes/no

A <CMD> tracecall

Syntaxe :

tracecall <on/off>

A <CMD> tracemsg

Syntaxe :

tracemsg <ras/q931/h245> <on/off>

A <CMD> tunnel

Syntaxe :

tunnel <on/off> tunnel - Enable encapsulation procedures.
NO/no indicates disable tunnel mode.
YES/yes indicates enable tunnel mode.

A <CMD> usegk

Syntaxe :

usegk <flag> -o primary <GKADDR> port <portno1> secondary
<GKADDR1><port><portno2>
flag - flag specifies if the specific RG has to be
registered or unregistered with GateKeeper.
- NO/no indicates unregister with GateKeeper.
- YES/yes indicates register with GateKeeper.
GKADDR - Primary Gatekeeper IPV4 Address.
portno1 - Primary Gatekeeper's port no.If not specified it will
assume default port number.
GKADDR1 - Secondary Gatekeeper IPV4 Address.
portno2 - Secondary Gatekeeper's Port no.If not specified it will
assume default port number.

A <CMD> h323id

Syntaxe :

h323id <h323-id>

A <LIST> h450

A <CMD> activate

Syntaxe :

activate \$port \$destination -o \$forwarding_type
forwarding_type:

- 1 - Forward UnConditional
- 2 - Forward On Busy
- 3 - Forward on No Answer

A <CMD> CFNR

Syntaxe :

CFNR \$port \$no_of_rings

A <CMD> deactivate

Syntaxe :

deactivate \$port

A <CMD> history

Syntaxe :

Diversion Table Empty

A <CMD> listCFNR

Syntaxe :

```

=====
Port Number                CFNR Value
=====
1                          3
2                          3
3                          3
=====

```

A <CMD> listdvr

Syntaxe :

No Entry

A <LIST> voice

A <CMD> countryopt

Syntaxe :

Country : FRANCE

A <CMD> portdiag

Syntaxe :

Make sure that port considered for diagnosis should be in on-hook state.

Enter the port number<1-3>

1

Enter one of the options.

- 1. Dial Tone.
- 2. Busy Tone.
- 3. Ringback Tone.
- 4. Dial Number.
- 5 or 6. Apply Ring.
- 7 Apply ROC Ring.
- 8. ROC Busy TOne.
- 9. Spl. Dial Tone.
- 10. Mesg Waiting Indicator Tone.
- 11.Spl.Information Tone.
- 12.VOIP Dial Tone.
- 13 or 14.On-HOOK Caller ID Display.

15.OFF-HOOK Caller ID Display.

0. Quit from 1-15 actions .

q Quit from port diagnosis .

To perform actions from 1-4 & 8-12,15 the phone should be in off-hook.

To perform actions from 5-7 and 13 the phone should be in on-hook.

O <CMD> 1si3216

Syntaxe :

(pas de message)

O <CMD> 2si3050

Syntaxe :

(pas de message)

O <CMD> 3si3216

Syntaxe :

(pas de message)

O <CMD> codecdownload

Syntaxe :

(pas de message)

O <CMD> DetectTone

Syntaxe :

DetectTone <portNum> -o [-t <Tone_type>

-t <Tone_type> - Tone type to be detected

O <CMD> DSPConnect

Syntaxe :

(pas de message)

O <CMD> dspdownload

Syntaxe :

(pas de message)

O <CMD> DSPQuit

Syntaxe :

(pas de message)

O <CMD> Dtmfenable

Syntaxe :

Dtmfenable <portNum> -o [-t <enable/disable>

O <CMD> eparams

Syntaxe :

eparams <port> -o -nlp <value> -hreg <value> -conv <value> -beta<value>
-dthr <value>

port - RJ11 port

nlp - NLP Enable(1) or Disable(0)

hreg - H-registers Reset (1-reset)

conv - Convergence(1) Enable/Disable(0) .

Beta - Beta Factor(Value 5 to 64).

dthr - Config Doubletalk Fact[Value:3 to 15].

O <CMD> gc

Syntaxe :

```
gc <port> -o -gtx <value> -grx <value> -gec <value>
  port      -      RJ11 port(1 or 2)
  gtx       -      Transmission Gain
  grx       -      Receiver Gain.
  gec       -      Ec Bulk Delay Fact .
```

O <CMD> jitter

Syntaxe :

```
JITTER PARAMETERS
=====
```

```
JITTER BUFFER SCHEME : ADAPTIVE
```

O <CMD> listgc

Syntaxe :

```
-----
Port      Gtx      Grx      Gec
-----
  1         0         0         0
  2         0         0         0
  3         0         0         0
-----
```

O <CMD> QuitTone

Syntaxe :

(pas de message)

O <CMD> TestTone

Syntaxe :

```
TestTone <frequence> <amplitude>
```

O <CMD> voiceopt

Syntaxe :

```
VOICE PARAMETERS
=====
```

```
VAD          : OFF
PLC          : ON
ECHO CANCELLER : ON
TAIL LENGTH  : 22 msec
```

O <CMD> callstat

Syntaxe :

```
Call Statistics:
=====
Total Calls Orinated: 0
Total Calls Received: 0
Total Calls Completed: 0
Total Calls Dropped: 0
```


O <CMD> listdest

Syntaxe :

Destination Configurations:

```
=====
-----
SlNo | DestIP                | DestE164Alias
-----
          No Entry Found
-----
```

O <CMD> listepinfo

Syntaxe :

***** RG Endpoint Information *****

```
+-----+
PortNo      : 1
PhoneNo     : 20000133871229449
H323Id      :
VDN         : None
CallerID    : Enabled
Prefix      : 831
Codecs      : G729:4 G729A:4 PCMU:2
DTMF Sinaling: out-of-band
Pass Through : Disabled
```

```
+-----+
PortNo      : 2
PhoneNo     :
H323Id      :
VDN         : None
CallerID    : Disabled
Prefix      :
Codecs      :
DTMF Sinaling: in-band
Pass Through : Disabled
```

<<< PRESS q TO QUIT >>>

```
+-----+
PortNo      : 3
PhoneNo     :
H323Id      :
VDN         : None
CallerID    : Disabled
Prefix      :
Codecs      :
DTMF Sinaling: in-band
```

Pass Through : Disabled

O <CMD> listlock

Syntaxe :

Restricted calls:

=====

number | TypeOfNumber

No Entry Found

O <CMD> listrginfo

Syntaxe :

RG Configuration

Interface : ppp0
FastStart : disabled
Tunnel : disabled
FastTunnel : disabled
VDN :

***** Announcement Status *****

WrongNo : disabled
NetWorkFail : disabled
LineBusy : disabled

***** Outbound Prefix *****

Add Prefix : disabled
Delete Prefix : disabled
Length : 0

***** Inbound Prefix *****

Add Prefix : disabled
Delete Prefix : disabled
Length : 0

<<< PRESS q TO QUIT >>>

O <LIST> h235

A <CMD> security

Syntaxe :

security <enable/disable>

A <CMD> subscrip

Syntaxe :

subscrip <subscription id> <password> <gatekeeper id>

A <CMD> list

Syntaxe :

***** Security Configuration *****

Security : enabled

```
-----  
-----  
Subscription Id          Password          Gatekeeper          Id  
-----  
-----  
00:60:4C:55:AA:BA  6091d4236197bc6b  woof_gkrasgrp  04  
-----  
-----
```

19) O <LIST> http

O <CMD> language

Syntaxe :

language [FR EN NL]

O <CMD> url

Syntaxe :

url on / off

20) O <LIST> pstnclass

O <CMD> clear

Syntaxe :

clear <all/default/prefix>

O <CMD> clip

Syntaxe :

clip <on/off>

O <CMD> default

Syntaxe :

Default <FRANCE/HOLLANDE> -o -local <local area code>

O <CMD> incall

Syntaxe :

incall <on/off>

O <CMD> info

Syntaxe :

info <debug/pstn>

O <CMD> list

Syntaxe :
(pas d'affichage)

O <CMD> localcode

Syntaxe :
localcode <6 digits max/clear>

O <CMD> set

Syntaxe :
set <prefix (6 digits max)/default, -o
-d delete number (0 to 6),
-a add digits (6 digits max)>
-l nb length (0 to 16)>
-out <voip/pstn>

O <CMD> test

Syntaxe :
test <Call Number>

O <CMD> timer

Syntaxe :
timer <on/off>

O <CMD> trace

Syntaxe :
trace <on/off>

21) O <LIST> relayvoice

O <CMD> force

Syntaxe :
force <onV/onP/none>

O <CMD> icall

Syntaxe :
icall <on/off>

O <CMD> status

Syntaxe :
(pas de message)

O <CMD> trace

Syntaxe :

trace <on/off>

22) O <LIST> rip

O <CMD> list

Syntaxe :

Destination Metric	Gateway	Netmask	Interface
-----------------------	---------	---------	-----------

-			
0.0.0.0	80.13.5.129	0.0.0.0	ppp0
80.10.246.130	80.13.5.129	0.2.0.0	ppp0
80.13.5.147	127.0.0.1	255.255.255.255	lo0
80.13.11.53	127.0.0.1	255.255.255.255	lo0
80.13.11.164	127.0.0.1	255.255.255.255	lo0
80.13.40.32	127.0.0.1	255.255.255.255	lo0
80.13.40.161	127.0.0.1	255.255.255.255	lo0
193.252.19.123	80.13.5.129	0.2.0.0	ppp0

O <CMD> rip

Syntaxe :

RIP is OFF RIP is ON

O <CMD> ver

Syntaxe :

RIP version 1

23) O <LIST> sndcp

O <CMD> ipoa

Syntaxe :

ipoa <interface> <disable> <vpi> <vci> -o <default> <-nhp ipaddress>

ipoa <interface> <enable> <vpi> <vci> -o <-enc encapsulation>

<default>

<-nhp ipaddress>

<-vpn OUI vpnId>

interface

- interface number

enable/disable

- enables or disable the bridge module

vpi

- vpi

vci

- vci

-enc encapsulation

- encapsulation type LLC/VC

default

- use default PVC

-nhp ipaddress

- next hop ip address

-vpn <OUI> <vpnId>

- Enable VPN encapsulation

OUI : Organizationally Unique

Identifier.

vpnId : VPN Index.

O <CMD> list

Syntaxe :

```
list <param>
           param - routedbridge (diplays Routed Bridge
parameters)
Routed Bridge is not configured
           - ipoa (diplays IPoA parameters)
```

O <CMD> liststat

Syntaxe :

```
param - routedbridge (diplays Routed Bridge parameters)
       - ipoa      (diplays IPoA parameters)
       - pppoa    (diplays PPPoA parameters)
       - pppoe    (diplays PPPoE parameters)
```

O <CMD> pppoa

Syntaxe :

```
pppoa <profile> -o <-if Interface> <-encap Encapsulation> <-restarttime
Timeout>
  <-auth Auth> <-myaddr IPAddr> <-peer PeerIPAddr> <-mtu MTU> <-mru MRU>
<-user Username> <-pass Password> <-vpi Vpi> <-vci Vci>
  <-nat [enable/disable]> <-netmask mask> <-vpn OUI vpnId>
  Interface      - interface name with unit number (eg ppp0 or ppp1)
  Encapsulation  - encapsulation type (LLC or VC)
  Timeout        - timeout (in milliseconds)
  Auth           - authentication (PAP, CHAP, MSCHAPV1, MSCHAPV2)
  IPAddr         - Desired self IP address (in dotted decimal)
  PeerIPAddr     - Peer IP Address (in dotted decimal)
  MTU            - Maximum Transmission Unit
  MRU            - Maximum Receive Unit, negotiated in LCP
  Username       - Username
  Password       - Password
  Vpi            - Vpi
  Vci            - Vci
  nat            - enable/disable(default- disable)
  netmask        - netmask for IP address received from Server
  vpn            - Enable VPN encapsulation
                  OUI   : Organizationally Unique Identifier.
                  vpnId : VPN Index.
```

O <CMD> pppoadefault

Syntaxe :

```
pppoadefault <Profile>
  Profile - Profile to be set as default.
           It should be already configured profile with AUTO mode.
```

O <CMD> pppoadel

Syntaxe :

```
pppoadel [profile_number/all]
```

O <CMD> pppoalist

Syntaxe :

Available free PPPOA Profiles :
0 1 2 3 4 5 6 7
No Default Profile Available
No PPPoA Configured Profile Available

O <CMD> pppoastart

Syntaxe :

pppoastart <Profile>
Profile - Profile number to be started.
It should be already configured and all mandatory parameters should be present.

O <CMD> pppoastop

Syntaxe :

pppoastop <Profile>
Profile - Profile number to be stopped.
It should be already running.

O <CMD> pppoe

Syntaxe :

pppoe <profile> -o <-if Interface> <-encap Encapsulation> <-restarttime Timeout>
<-auth Auth> <-myaddr IPAddr> <-peer PeerIPAddr> <-mtu MTU> <-mru MRU>
<-hwaddr Ethaddr> <-service ServiceName> <-acname ACName> <-tag HostTag>
<-user Username> <-pass Password> <-vpi Vpi> <-vci Vci> <-mode Mode>
<-idletime idleTimeout> <-nat [enable/disable]> <-netmask mask> <-vpn OUI vpnId>

Interface	- interface name with unit number (eg ppp0 or ppp1)
Encapsulation	- encapsulation type (LLC or VC)
Timeout	- timeout (in milliseconds)
Auth	- authentication (PAP, CHAP, MSCHAPV1, MSCHAPV2)
IPAddr	- Desired self IP address (in dotted decimal)
PeerIPAddr	- Peer IP Address (in dotted decimal)
MTU	- Maximum Transmission Unit
MRU	- Maximum Receive Unit, negotiated in LCP
Ethaddr	- Ethernet hw addr (specify bytes in decimal and use ':' as delimiter, eg 10:11:12:13:14:15)
ServiceName	- Service Name
ACName	- Access Concentrator name
HostTag	- Use Host unique tag
Username	- Username
Password	- Password
Vpi	- Vpi
Vci	- Vci
Mode	- Mode in which PPP will run (AUTO, DIRECT)
idleTimeout	- The idle timeout value (in minutes)
nat	- enable/disable(default- disable)
netmask	- netmask for IP address received from Server
vpn	- Enable VPN encapsulation OUI : Organizationally Unique Identifier. vpnId : VPN Index.

O <CMD> pppoedefault

Syntaxe :

```
pppoedefault <Profile>
    Profile - Profile to be set as default.
    It should be already configured profile with AUTO mode.
```

O <CMD> pppoedel

Syntaxe :

```
pppoedel [profile_number/all]
```

O <CMD> pppoelist

Syntaxe :

```
Available free PPPOE Profiles :
1 2 3 4 5 6 7
```

```
No Default Profile Available
```

```
Configured PPPOE Profiles :
```

```
Profile# 0 [ACTIVE]:
```

```
INTERFACE: ppp0 MRU: 1492 MTU: 1492 ENCAPSULATION: LLC
```

```
IPADDR: 0.0.0.0 PEERIPADDR: 0.0.0.0 NETMASK: 255.255.255.0
```

```
RESTARTTIME: 3000 HWADDR: 0:96:76:85:170:186 ACNAME:
```

```
SERVICE: HOSTTAG: 0 IDLETIMEOUT: 1
```

```
MODE: DIRECT USER: fti/fvwpgy4 PASSWORD: ***** VPI: 8 VCI: 35
```

```
AUTHENTICATION: CHAP NAT: enable
```

```
VPN ENCAPSULATION: disable
```

```
VPN OUI: 0 VPN Index: 0
```

O <CMD> pppoestart

Syntaxe :

```
pppoestart <Profile>
```

```
Profile - Profile number to be started.
```

```
It should be already configured and all mandatory parameters should be present.
```

O <CMD> pppoestop

Syntaxe :

```
pppoestop <Profile>
```

```
Profile - Profile number to be stopped.
```

```
It should be already running.
```

O <CMD> ppptrace

Syntaxe :

```
ppptrace [on | off]
```

```
Enables or Disables PPP console messages.
```


O <CMD> routedbridge

Syntaxe :

```
routedbridge <interface> <disable> <vpi> <vci>
routedbridge <interface> <enable> <vpi> <vci> -o <-enc encapsulation> <-vpn OUI vpnId>
    interface          - interface number
    enable/disable     - enables or disable the bridge module
    vpi                - vpi
    vci                - vci
    -enc encapsulation - encapsulation type LLC/VC
    -vpn <OUI> <vpnId> - Enable VPN encapsulation
                        OUI   : Organizationally Unique Identifier.
                        vpnId : VPN Index.
```

O <LIST> pppreset

O <CMD> add

Syntaxe :

```
add $actionNumber $delay $bip
    $actionNumber: 0 ... 9
    $delay:        waiting minutes before perform the action
    $bip:          yes/no
```

O <CMD> del

Syntaxe :

```
del $actionNumber
    $actionNumber: 0 ... 9
```

O <CMD> list

Syntaxe :

```
Action num: 0 Delay: 1320 min Bip: no
Action num: 1 Delay: 105 min  Bip: yes
Action num: 2 Delay: 14 min   Bip: yes
Action num: 3 Delay: 1 min    Bip: no
```

O <CMD> trace

Syntaxe :

```
trace <on|off>
```

O <LIST> pppresettest

O <CMD> list

Syntaxe :

```
Test      state: off.
PPP       state: off.
PPP unreg state: off.
Hook      state: off.
VoIP     state: off.
```

O <CMD> state

Syntaxe :

```
state $type $value
    $type: test/ppp/voip/hook/unreg
    $value: on/off
```

O <CMD> coef

Syntaxe :

```
coef $value
$value: 1 .. 1000
```

O <LIST> relay

O <CMD> list

Syntaxe :

```
Relay Status : DISABLE
Maximum Supported Sessions : 256
Active Sessions : 0
Session Idle Time(In Seconds): 600
```

No interfaces are configured.

O <CMD> relay

Syntaxe :

```
relay client -o <-if Interface>
relay server -o [<-if Interface>] [<-pvc vpi vci> <-encap
encapsulationtype>]
```

```
relay delete -o [<-if Interface>] [<-pvc vpi vci>]
relay [<enable>] <disable>]
```

O <CMD> relayparams

Syntaxe :

```
relayparams -o -max maximum supported sessions -idletime idletime
```

O <CMD> adsl2link adsl2link UP[DOWN]

Syntaxe :

```
list <param>
```

```
param - routedbridge (diplays Routed Bridge parameters)
- ipoa (diplays IPoA parameters)
```

24) O <LIST> sntp

O <CMD> sntp

Syntaxe :

```
sntp delete -o -index <index value>
config -o -ip <Server IP Address>
config -o -name <Server Domain Name>
list
start
stop
```

O <CMD> timezone_set

Syntaxe :

```
timezoneset <index> -- sets the timezone
```

O <CMD> timezone_help

Syntaxe :

TimeZone Index	Explanation
1	(GMT-12:00) Eniwetok, Kwajalein
2	(GMT-11:00) Midway Island, Samoa
3	(GMT-10:00) Hawaii
4	(GMT-09:00) Alaska
5	(GMT-08:00) Alaska Daylight Time
6	(GMT-08:00) Pacific Time (US& Canada); Tijuana
7	(GMT-07:00) Pacific Daylight Time (US& Canada); Tijuana
8	(GMT-07:00) Arizona
9	(GMT-07:00) Mountain Time (US & Canada)
10	(GMT-06:00) Mountain Daytime Time (US & Canada)
11	(GMT-06:00) Central America
12	(GMT-06:00) Central Time (US & Canada)
13	(GMT-05:00) Central Daylight Time (US & Canada)
14	(GMT-06:00) Mexico City
15	(GMT-05:00) Mexico City Daylight Time
16	(GMT-06:00) Saskatchewan
17	(GMT-05:00) Bogota, Lima, Quito
18	(GMT-05:00) Eastern Time (US & Canada)
18	(GMT-04:00) Eastern Daylight Time (US & Canada)
20	(GMT-05:00) Indiana (East)
21	(GMT-04:00) Atlantic Time (Canada)
22	(GMT-03:00) Atlantic Daylight Time (Canada)
23	(GMT-04:00) Caracas, La PazSantiago
24	(GMT-04:00) Santiago
25	(GMT-03:00) Santiago Daylight Time
26	(GMT-03:30) Newfoundland
27	(GMT-02:30) Newfoundland Daylight Time
28	(GMT-03:00) Brasilia
29	(GMT-02:00) Brasilia Daylight Time
30	(GMT-03:00) Buenos Aires, Georgetown
31	(GMT-03:00) Greenland
32	(GMT-02:00) Greenland Daylight Time
33	(GMT-02:00) Mid-Atlantic
34	(GMT-01:00) Mid-Atlantic Daylight Time
35	(GMT-01:00) Azores
36	(GMT-00) Azores Daylight Time
37	(GMT-01:00) Cape Verde Is
38	(GMT-00) Casablanca, Monrovia
39	(GMT-00) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
40	(GMT+01:00) Dublin, Edinburgh, Lisbon, London : Daylight Time
41	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
42	(GMT+02:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna:
Daylight Time	
43	(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
44	(GMT+02:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague :
Daylight Time	
45	(GMT+01:00) Brussels, Copenhagen, Madrid, Paris
46	(GMT+02:00) Brussels, Copenhagen, Madrid, Paris : Daylight Time
47	(GMT+01:00) Sarajevo, Skopie, Sofija, Vilnius, Warsaw, Zagreb
48	(GMT+02:00) Sarajevo, Skopie, Sofija, Vilnius, Warsaw, Zagreb :
Daylight Time	
49	(GMT+01:00) West Central Asia
50	(GMT+02:00) Adthens, Istanbul, Minsk
51	(GMT+03:00) Adthens, Istanbul, Minsk: Daylight Time
52	(GMT+02:00) Bucharest
53	(GMT+03:00) Bucharest Daylight Time
54	(GMT+02:00) Cairo
55	(GMT+03:00) Cairo Daylight Time

```

56          (GMT+02:00) Harare, Pretoria
57          (GMT+02:00) Helsinki, Ringa, Talinn
58          (GMT+03:00) Helsinki, Ringa, Talinn :Daylight Time
59          (GMT+02:00) Jeruslam
60          (GMT+03:00) Baghdad
61          (GMT+04:00) Baghdad Daylight Time
62          (GMT+03:00) Kuwait, Riyadh
63          (GMT+03:00) Moscow, St.Peterburg, Volgograd
64          (GMT+04:00) Moscow, St.Peterburg, Volgograd :Daylight Time
65          (GMT+03:00) Nairobi
66          (GMT+03.00) Tehran
67          (GMT+04.00) Tehran Daylight Time
68          (GMT+04:00) Abu Dhabi,Muscat
69          (GMT+04:00) Baku, Tbilisi, Yerevan
70          (GMT+05:00) Baku, Tbilisi, Yerevan :Daylight Time
71          (GMT+04:30) Kabul
72          (GMT+05:00) Ekaterinburg
73          (GMT+06:00) Ekaterinburg Daylight Time
74          (GMT+05:00) Islamabad, Karachi, Tashkent
75          (GMT+05:30) Calcutta, Chennai, Mumbai, New Delhi
76          (GMT+05:45) Kathmandu
77          (GMT+06:00) Almaty, Novosibirsk
78          (GMT+07:00) Almaty, Novosibirsk Daylight Time
79          (GMT+06:00) Astana, Dhaka
80          (GMT+06:00) Sri Jayawardenepura
81          (GMT+06:30) Rangoon
82          (GMT+07:00) Babgkok, Hanoi, Jakarta
83          (GMT+07:00) Krasnoyarsk
84          (GMT+08:00) Krasnoyarsk Daylight Time
85          (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi
86          (GMT+08:00) Irkutsk, Ulaan Bataar
87          (GMT+09:00) Irkutsk, Ulaan Bataar Daylight Time
88          (GMT+08:00) Kuala Lumpur, Singapore
89          (GMT+08:00) perth
90          (GMT+08:00) Taipei
91          (GMT+09:00) Asaka, Sapporo, Tokyo
92          (GMT+09:00) Seoul
93          (GMT+09:00) Yakutsk
94          (GMT+10:00) Yakutsk Daylight Time
95          (GMT+09:30) Adelaide
96          (GMT+10:30) Adelaide Daylight Time
97          (GMT+09:30) Darwin
98          (GMT+10:00) Brisbane
99          (GMT+10:00) Canberra, Melbourne, Sidney
100         (GMT+11:00) Canberra, Melbourne, Sidney: Daylight Time
101         (GMT+10:00) Guam, Port Moresby
102         (GMT+10:00) Hobart
103         (GMT+11:00) Hobart Daylight Time
104         (GMT+10:00) Vladivostok
105         (GMT+11:00) Vladivostok Daylight Time
106         (GMT+11:00) Magadan, Solomon Is., New Caledonia
107         (GMT+12:00) Auckland, Wellington
108         (GMT+13:00) Auckland, Wellington :Daylight Time
109         (GMT+12:00) Fiji, Kamchatka, Marshall Is.
110         (GMT+13:00) Nuku'alofa

```

O <CMD> timezone_disp

Syntaxe :

TimeZone Index Explaination

25) **O <LIST> vlan**

O <CMD> create

Syntaxe :

```
create <vlan_name> <vlan_id> <vlan mode>
  where vlan_name          - name of the vlan (32 characters)
        vlan_id            - id of the vlan (2 - 4094)
        vlan_mode         - either bridge or router
```

O <CMD> delete

Syntaxe :

```
delete <vlan_name>
  where vlan_name          - name of the vlan (32 characters)
```

O <CMD> delete8021q

Syntaxe :

???

O <CMD> disable

Syntaxe :

```
disable <vlan_name>
  where vlan_name          - name of a particular vlan (32 characters)
  or    all                - for all vlans
```

O <CMD> disable8021q

Syntaxe :

...

O <CMD> enable

Syntaxe :

```
enable <vlan_name>
  where vlan_name          - name of a particular vlan (32 characters)
  or    all                - for all vlans
```

O <CMD> enable8021q

Syntaxe :

8021q has already enabled

O <CMD> listport

Syntaxe :

```
listport <port_name/all>
  where port_name          - name of a particular port (32 characters)
```


The valid list of protocol names can be found using the 'ethertypes' command in 'l2filter'

O <CMD> delete

Syntax :

```
delete <filter_id>
  where filter_id          - unique id returned while adding
```

O <CMD> deleteall

Syntax :

```
deleteall <vlan_name>
  where vlan_name         - name of a particular vlan (32 characters)
```

O <CMD> list

Syntax :

```
list <vlan_name/all>
  where vlan_name        - name of a particular vlan (32 characters)
     or all              - for all ports
```

exemple :

```
list all
filter id          vlan name          port name          type          value
```

O <LIST> egress

O <CMD> addport

Syntax :

```
addport <port_name> <vlan_name> [-adctrl <forbidden/fixed/normal>] [-txtagctrl
<untagged/tagged>]
  where port_name        - name of a particular port (32 characters)
     vlan_name          - name of a particular vlan (32 characters)
-adctrl <forbidden/fixed/normal> - administration control parameter. Default value is
forbidden
-txtagctrl <untagged/tagged>    - the forwarded packets should be tagged or untagged.
Default value is untagged
```

O <CMD> deleteport

Syntax :

```
deleteport <port_name> <vlan_name>
  where port_name        - name of the port, to be deleted (32 characters)
     vlan_name          - name of the vlan, to be deleted from (32 characters)
```

O <CMD> list

Syntax :

```
list <vlan_name/all>
  where vlan_name        - name of a particular vlan (32 characters)
     or all              - for all ports
```

exemple :

```
list all
vlan name          port name          tx tag ctrl          tx admin ctrl
default           eth0             untagged             Fixed
default           atm1            untagged             Fixed
default           atm2            untagged             Fixed
default           atm3            untagged             Fixed
default           atm4            untagged             Fixed
stb1              eth0             tagged               Fixed
stb1              atm1            untagged             Fixed
stb1              atm2            untagged             Fixed
```

stb1	atm3	untagged	Fixed
stb1	atm4	untagged	Fixed
visio	eth0	tagged	Fixed

26) **O <LIST> wlan**

O <CMD> accesslist

Syntaxe :
(pas de message)

O <CMD> addstation

Syntaxe :
addstation <macaddr>
Mac address should be specified as xx:xx:xx:xx:xx:xx

O <CMD> apname

Syntaxe :
apname <name>

O <CMD> assocclients

Syntaxe :
(pas de message)

O <CMD> authentication

Syntaxe :
authentication open|shared

O <CMD> beacint

Syntaxe :
number should be between 0 and 4095

O <CMD> channel

Syntaxe :
channel <number>

O <CMD> defwepkey

Syntaxe :
defaultwepkey <number>
number should be between 1 and 4, inclusive

O <CMD> delstation

Syntaxe :
delstation <macaddr>

Mac address should be specified as `xx:xx:xx:xx:xx:xx`

O <CMD> dtim

Syntaxe :

`<value>` can be between 1-65535

O <CMD> flushlist

Syntaxe :

(Détruit la liste)

O <CMD> fragthresh

Syntaxe :

Values should be even numbers In the range of 256 to 2346

O <CMD> macaccesstype

Syntaxe :

`macaccesstype permit/deny`

O <CMD> macfiltering

Syntaxe :

`macfiltering enable/disable`

O <CMD> mode

Syntaxe :

`mode G_ONLY|MIXED`

O <CMD> preamble

Syntaxe :

`preamble auto|short|long`

O <CMD> radio

Syntaxe :

`radio [<on/off>]`

O <CMD> rate

Syntaxe :

`rate <rate>`

Sets the Trasnmit rate. `<rate>` can be:

`auto|1|2|5|11|6|9|12|18|24|36|48|54`

O <CMD> restdef

Syntaxe :

(rien à l'affichage)

O <CMD> rtsthresh

Syntaxe :

number should be between 0 and 3000

O <CMD> ssid

Syntaxe :

ssid -o -n <name> -h <yes or no>

O <CMD> statistics

Syntaxe :

(rien à l'affichage)

O <CMD> status

Syntaxe :

```
Mode is MIXED
SSID is Wanadoo_xxxx
SSID Hide disabled
Channel is 10
Fragmentation Threshold is 2346
RTS Threshold is 2347
Beacon Interval is 100
Current Transmit Rate: AUTO
Authentication type is open
WEP Enabled
WEP key is 128 bit type.
WEP key 1: xx xx xx xx xx xx xx xx xx xx xx xx
WEP key 2: 64 65 66 61 75 6c 74 5f 6b 65 79 5f 32
WEP key 3: 64 65 66 61 75 6c 74 5f 6b 65 79 5f 33
WEP key 4: 64 65 66 61 75 6c 74 5f 6b 65 79 5f 34
Default WEP key number is 1
WPA is Disabled
Preamble is Auto
DTIM is 3
Mac Filtering is Enabled
Mac Access type is Permit
```

O <CMD> wepkey128_1

```
wepkey128_1 <byte0> <byte1> <byte2> <byte3> <byte4> <byte5> <byte6>
<byte7> <byte8> <byte9> <byte10> <byte11> <byte12>
```

Sets the key 1 for 128bit encryption.

O <CMD> wepkey128_2

Syntaxe :

```
wepkey128_2 <byte0> <byte1> <byte2> <byte3> <byte4> <byte5> <byte6>  
<byte7> <byte8> <byte9> <byte10> <byte11> <byte12>  
    Sets the key 2 for 128bit encryption
```

O <CMD> wepkey128_3

Syntaxe :

```
wepkey128_3 <byte0> <byte1> <byte2> <byte3> <byte4> <byte5> <byte6>  
<byte7> <byte8> <byte9> <byte10> <byte11> <byte12>  
    Sets the key 3 for 128bit encryption
```

O <CMD> wepkey128_4

Syntaxe :

```
wepkey128_4 <byte0> <byte1> <byte2> <byte3> <byte4> <byte5> <byte6>  
<byte7> <byte8> <byte9> <byte10> <byte11> <byte12>  
    Sets the key 4 for 128bit encryption
```

O <CMD> wepkey64_1

Syntaxe :

```
wepkey64_1 <byte0> <byte1> <byte2> <byte3> <byte4>  
    Sets the key1 for 64bit encryption
```

O <CMD> wepkey64_2

Syntaxe :

```
wepkey64_2 <byte0> <byte1> <byte2> <byte3> <byte4>  
    Sets the key2 for 64bit encryption
```

O <CMD> wepkey64_3

Syntaxe :

```
wepkey64_3 <byte0> <byte1> <byte2> <byte3> <byte4>  
    Sets the key3 for 64bit encryption
```

O <CMD> wepkey64_4

Syntaxe :

```
wepkey64_4 <byte0> <byte1> <byte2> <byte3> <byte4>  
    Sets the key4 for 64bit encryption
```

O <CMD> wepmode

Syntaxe :

```
wepmode <mode>  
    Sets the WEP mode to Disable (0) or 64 Key length or 128 key length
```

O <CMD> wl

Syntaxe :

wl -o command [args ...]

O <LIST> wpa

A <CMD> status

Syntaxe :

WPA is Disabled

A <CMD> wpa_enable

Syntaxe :

(active wpa)

A <CMD> wpa_disable

Syntaxe :

(désactive wpa)

27) O <LIST> wpost

O <CMD> off

Syntaxe :

wpost is OFF

O <CMD> on

Syntaxe :

wpost is ON

O <CMD> post

Syntaxe :

HTTP return code 204

O <CMD> trace

Syntaxe :

Trace level is 0000

O <CMD> url

Syntaxe :

URL is http://maj.wanadoo.fr:80/servlets/maj

6. Ls sur un firmware 220142

[root @ home]\$ ls

A <CMD> reboot

O <CMD> date

O <CMD> version

O <CMD> showver
A <LIST> ipqos
O <CMD> list
O <CMD> stats
A <CMD> ifconfig
O <CMD> route
A <CMD> bitmap
O <LIST> sndcp
A <CMD> save
A <CMD> erase
O <LIST> bridge
O <LIST> bt
A <LIST> ethernet
A <LIST> rarpd
O <LIST> arp
A <LIST> auth
A <LIST> logger
A <LIST> snmp
A <LIST> atm
O <LIST> adsl
A <CMD> dhcp
O <LIST> sntp
O <LIST> dhcpserver
A <CMD> dhcpr
A <LIST> dns
A <LIST> igmp
O <LIST> wlan
O <LIST> relayvoice
O <LIST> pstnclass
O <LIST> http
O <LIST> rip
O <LIST> h323
A <LIST> rtp
O <LIST> vlan
O <LIST> acf
O <LIST> wpost
O <CMD> mread
O <CMD> mwrite
O <CMD> memshow
O <CMD> aread
O <CMD> awrite
O <CMD> apregdump
[root @ home]\$

nouveau !

nouveau !

1) A <LIST> rtp

A <CMD> config

Syntaxe :

config MinPort MaxPort.

O <CMD> listports

Syntaxe :

MinPort : [44000]

MaxPort : [49000]

O <CMD> rrstats

Syntaxe :

SessId FromIP CumLost Jitter PktsRcvd OctetsRcvd

O <CMD> srstats

Syntaxe :

SessId IPAddr RTPPort PktsSent OctetsSent LastSRTime

2) O <CMD> shower

Syntaxe :

shower [options]

options can be one or more option (for instance: shower -boot -app1)

option =

-h : prints this message (used lonely)

-all : shows infos of all parts

-fsn : shows factory serial number

-boot : shows boot version

-app1 : shows application 1 version

-app2 : shows application 2 version

-apps <=> -app1 -app2

-run : shows running application (app1 or app2)

-dsl1 : checks L1 code 1 integrity

-dsl2 : checks L1 code 2 integrity

-dsls <=> -dsl1 -dsl2

-cmv1 : lists cmv1

-cmv2 : lists cmv2

-cmvs <=> -cmv1 -cmv2

-deflist : lists deflist1

-deflist2 : lists deflist2

-deflists <=> -deflist -deflist2

Exemple :

[root @ home]\$ **shower -all**

Factory Serial Number

FSN : 441129857
Flash dump
0xbfc00000 : 0x01b90512 0x0039ffff

Boot version #####
ERROR : used boot seems to be an old one!!!
It does not supply informations to application.

Running Appli #####
Running appli : App 2

App1 version #####
App1 checksum : OK
App1 description : AD6843 application (Sagem3202_220108)
App1 version : 0
App1 revision : 7
App1 spare[0] : 0
App1 spare[1] : 0
App1 spare[2] : 0
App1 spare[3] : 0

Dsl1 #####
Dsl1 checksum : OK
Dsl1 description : STRATIPHY ANEXA

CMV1 #####
Cmv1 checksum : OK
CMV Set : 3
Group: 5, Address: 13, offset: 0, data: 0x00000001
Group: 5, Address: 0, offset: 0, data: 0x00000004
Group: 1, Address: 0, offset: 0, data: 0x00000002

App2 version #####
App2 checksum : OK
App2 description : AD6843 application (Sagem3202_220142)
App2 version : 0
App2 revision : 8
App2 spare[0] : 0
App2 spare[1] : 0
App2 spare[2] : 0
App2 spare[3] : 0

Dsl2 #####
Dsl2 checksum : OK
Dsl2 description : STRATIPHY ANEXA

CMV2 #####
Cmv2 checksum : OK
CMV Set : 3
Group: 5, Address: 13, offset: 0, data: 0x00000001
Group: 5, Address: 0, offset: 0, data: 0x00000004
Group: 1, Address: 0, offset: 0, data: 0x00000002

DEFLIST #####
Deflist1 checksum : OK

```
"home", "auth", "modifyuser admin -o -services ftp,http -permissions admin", "modifyuser root -o -
services ftp,cli -permissions admin", "home", "wlan", "channel 10", "wepmode
128", "home", "atm", "vcadd 8 35 ubr aal5 -o -peak 377", "vcadd 8 38 nrtvbr aal5 -o -peak 302 -avg
302 -mbs 75", "vcadd 8 39 cbr aal5 -o -peak 75", "vcadd 8 40 rtvbr aal5 -o -peak 1", "vcadd 8 41
rtvbr aal5 -o -peak 1", "home", "sndcp", "pppoe 0", "pppoe 0 -o -encap llc -auth CHAP -vpi 8 -vci
35 -mode direct -nat enable", "home", "bridge", "group eth0 atm1 -o -if atm2 -if atm3 -if atm4", "pvc
add atm1 8 38 llc", "pvc add atm2 8 39 llc", "pvc add atm3 8 40 llc", "pvc add atm4 8 41 llc", "bridge
enable", "home", "vlan", "enable8021q", "create stb1 3 bridge", "egress", "addport eth0 stb1 -adctrl
fixed -txtagctrl tagged", "addport atm1 stb1 -adctrl fixed -txtagctrl untagged", "addport atm2 stb1 -
adctrl fixed -txtagctrl untagged", "addport atm3 stb1 -adctrl fixed -txtagctrl untagged", "addport atm4
stb1 -adctrl fixed -txtagctrl untagged", "exit", "enable stb1", "portconfig atm1 -o -pvid 3", "portconfig
atm2 -o -pvid 3", "portconfig atm3 -o -pvid 3", "portconfig atm4 -o -pvid
3", "exit", "vlan", "enable8021q", "create visio 2 router", "egress", "addport eth0 visio -adctrl fixed -
txtagctrl tagged", "exit", "enable visio", "home", "acf", "intf ppp0", "server -m SYSF", "loadint 240
0", "server -d urlc 193.252.20.34", "server -d urls gw.ftp.sagem.com", "home", "h323", "tunnel
off", "sendGRQ yes", "dsptimer 5", "voice", "countryopt -o -c FRANCE", "voiceopt -o -vad off -plc on -
ec on -t 22", "home", "ifconfig -o lo0 inet 127.0.0.1 netmask 255.0.0.0", "ifconfig -o eth0 inet
192.168.1.1 netmask 255.255.255.0", "ifconfig -o usb0 inet 192.168.2.1 netmask
255.255.255.0", "ifconfig -o wlan0 inet 192.168.3.1 netmask 255.255.255.0", "ifconfig -o bth0 inet
192.168.4.1 netmask 255.255.255.0", "ifconfig -o vif0 inet 192.168.5.1 netmask
255.255.255.0", "ifconfig -o vif1 inet 192.168.6.1 netmask
255.255.255.0", "home", "dhcpserver", "stop", "subnet usb0 add -o -subnet 192.168.2.0 -netmask
255.255.255.0 -startip 192.168.2.10 -endip 192.168.2.10", "subnet wlan0 add -o -subnet
192.168.3.0 -netmask 255.255.255.0 -startip 192.168.3.10 -endip 192.168.3.20", "subnet bth0
add -o -subnet 192.168.4.0 -netmask 255.255.255.0 -startip 192.168.4.10 -endip
192.168.4.20", "subnet vif0 add -o -subnet 192.168.5.0 -netmask 255.255.255.0 -startip
192.168.5.10 -endip 192.168.5.20", "start", "home", "ipqos", "policy set usb0 ppp0 0 allow", "policy
set wlan0 ppp0 0 allow", "policy set bth0 ppp0 0 allow", "policy set vif0 ppp0 0 allow", "policy set
vif1 ppp0 0 allow", "setwt 20 0 0 0 80 0 0", "attach ppp0 -o linkspeed 155 admission no borrow
yes ackpriority disable", "createtc dfmark 5", "policy set ph0 ppp0 0 allow tc 1", "policy set ppp0
ppp0 0 allow dport 1720 tc 1", "spoof usb0 trusted", "spoof wlan0 trusted", "spoof bth0
trusted", "spoof vif0 trusted", "spoof vif1 trusted", "home"
```

7. Ls sur un firmware 220160

```
[root @ home]$ ls
```

```
A <CMD> reboot
O <CMD> date
O <CMD> version
O <CMD> show                               modifié
A <LIST> ipqos
O <CMD> list
O <CMD> stats
A <CMD> ifconfig
O <CMD> route
A <CMD> bitmap
O <LIST> sndcp
A <CMD> save
A <CMD> erase
O <LIST> bridge
O <LIST> bt
```



```
A <LIST> ethernet
A <LIST> rarpd
O <LIST> arp
A <LIST> auth
A <LIST> logger
A <LIST> snmp
A <LIST> atm
O <LIST> adsl
O <LIST> usbhost          nouveau
O <CMD> usb              nouveau
O <CMD> rndis            nouveau
A <CMD> dhcp
O <LIST> sntp
O <LIST> dhcpserver
A <CMD> dhcpr
A <LIST> dns
A <LIST> igmp
O <LIST> wlan
O <LIST> relayvoice
O <LIST> pstnclass
O <LIST> http
O <LIST> rip
O <LIST> h323
A <LIST> rtp
O <LIST> vlan
O <LIST> acf
O <LIST> wpost
O <CMD> mread
O <CMD> mwrite
O <CMD> memshow
O <CMD> aread
O <CMD> awrite
O <CMD> apregdump
[root @ home]$
```

3) LIST> usbhost

O <CMD> rdsr

Syntaxe :

rdsr

HPI STATUS REGISTER = 0x30

O <CMD> wraddr

Syntaxe :

wraddr <addr>

addr = 0 - ffff (hexadecimal)

O <CMD> wreldata

Syntaxe :

wreldata <data>

ata = 0 - ffff (hexadecimal)

O <CMD> rdeldata

Syntaxe :

rdeldata

Data = 0x0

O <CMD> wrdata

Syntaxe :

wrdata <addr> <data>

addr = 0 - ffff (hexadecimal)

data = 0 - ffff (hexadecimal)

O <CMD> memget

Syntaxe :

memget <addr> <nb>

addr = 0 - ffff (hexadecimal)

nb = 0 - 65535 (decimal)

O <CMD> wrmlbx

Syntaxe :

wrmlbx <data>

data = 0 - ffff (hexadecimal)

O <CMD> rdmlbx

Syntaxe :

rdmlbx

Mailbox Data = 0x0

O <CMD> rdint

Syntaxe :

rdint

USBH Interrupt = 0x1 (0x1:off 0x0:on)

O <CMD> wrctrlreg

Syntaxe :

wrctrlreg <ctrl_reg_addr> <ctrl_reg_value> <ctrl_reg_logic>

ctrl_reg_addr = 0 - ffff (hexadecimal)

ctrl_reg_value = 0 - ffff (hexadecimal)

ctrl_reg_logic = 0,1,2 {0:direct write, 1:AND the register value, 2:OR the register value}

O <CMD> rdctrlreg

Syntaxe :

rdctrlreg <ctrl_reg_addr>

ctrl_reg_addr = 0 - ffff (hexadecimal)

O <CMD> memset

Syntaxe :

memset <mem_addr> <length> <mem_value>

mem_addr = 0 - ffff (hexadecimal)

length : size of buffer in byte (decimal)

mem_value : a 4 bytes word (hexadecimal)

O <CMD> rsthub

Syntaxe :

rsthub <port_nb> <time_reset>

port_nb : 0, 1, 2 or 3 (decimal)

time_reset : time interval in ms (decimal) must be >= 10ms

O <CMD> dwiw

Syntaxe :

dwiw <chip_addr> <addr> <length> <endpoint>

Do What I Want : is used to try something defined at debug moment

chip_addr, addr : (hexadecimal)

length, endpoint : (decimal)

O <CMD> exe_td

Syntaxe :

exe_td <TD_addr>

TD_addr : addr of TD (hexadecimal)

O <CMD> prep_td

Syntaxe :

prep_td <TD_addr>

TD_addr : addr (in controller memory) where TD is stored (hexadecimal)

O <CMD> sendb

Syntaxe :

sendb <buff_addr> <buff_length> <sending_state>

buff_addr : addr (in controller memory) of buffer (hexadecimal)

buff_length : buffer length <= 0x3ff (hexadecimal)

sending_state : 1 (send buffer) or 0 (don't send buffer) (decimal)

O <CMD> rst

Syntaxe :

rst

hard resets the host controller

4) O <CMD> usb

Syntaxe :

usb <number>

5) O <CMD> rndis

Syntaxe :

rndis <number>

[root @ home]\$rndis -help

Retourne : rndiscmd stub