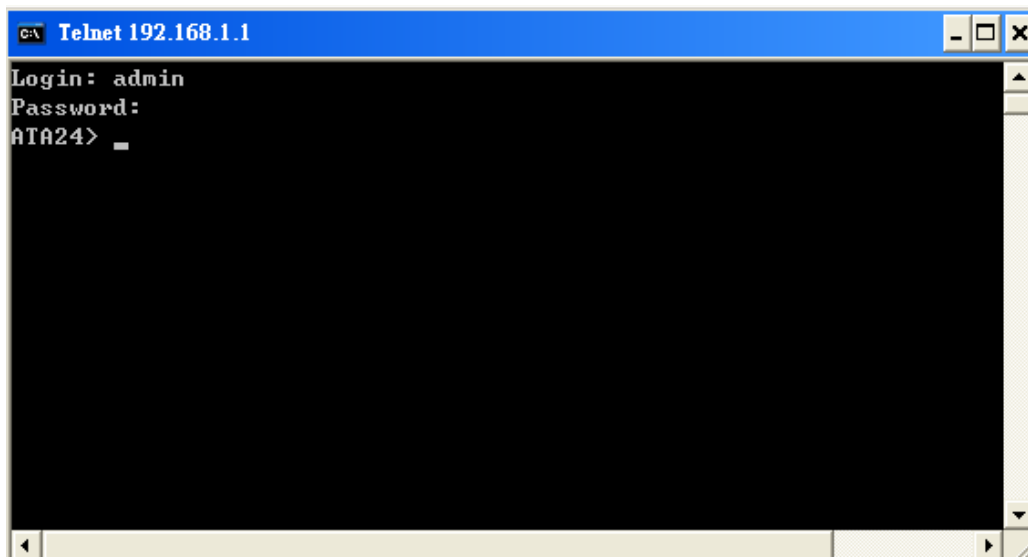# ATA-24 CLI Manual

A.1 Introduction

In addition to the SNMP management, users can use commands to configure the ATA-24 VoIP Board. Users can do telnet on the ATA-24 VoIP Board and use the following two ways. One is console interface; another is telnet by management port.

The ATA-24 console interface will connect to PC console port. Users can use terminal emulation software configured by the following parameters.

> VT100 terminal emulation

> 115200 bps

> No parity, 8 data bits, 1 stop bit

> No hardware flow control

Users can type '**?**' for help. Another tools for command interface is telnet via management port. The PC should be the same subnet as ATA-24 VoIP Board. The default IP address is **192.168.1.1**. The default login name is "**admin**", password is "**1234**".

A.2 Root Commands

A.2.1 Enter Function Commands

- Enter advanced configuration function
    ATA24> advance

- Enter system diagnostics function
    ATA24> diag

- Enter firewall configuration function
    ATA24> firewall

- Enter network configuration function
    ATA24> network

- Enter system configuration function
    ATA24> system

- Enter voip configuration function
    ATA24> voip

A.2.2 Other Commands

- Help
    ATA24> ?

- Logout the CLI or the Telnet connection
    ATA24> exit
        or
    ATA24> logout
        or
    ATA24> quit

A.3 Advance Commands

A.3.1 General Commands

- Enter advance configuration function
    ATA24> advance

- Help in advance configuration function
    ATA24/ advance > ?

- Back to the root commands
    ATA24/ advance > ..

A.3.2 Port Block Commands

- Display the status for port block setting
    ATA24/advance> block –s

- Enable port block setting
    ATA24/advance> <Index> <Enable> <Port number>

- Disable port block setting
    ATA24/advance> <Index> <Disable>

<Index>	Item number(1~10)
<Disable/Enable>	0: Disable 1: Enable
<Port Number>	Available number 1 ~ 65535

A.3.3 Portmirror Commands

- Help
    ATA24/advance> portmirror ?

- Display port mirror settings
    ATA24/advance> portmirror -s

- Edit port mirror settings
    ATA24/advance> <Enable> <Moirroring> <Mirror CPU> <Mirror LAN><Mirror WAN1> <Mirror WAN2> <Mirror WAN3>

<Enable>	0: Disable 1: Enable
<Moirroring>	Moirroring Port 1: WAN1 2: WAN2

	3: WAN3
\<Mirror CPU\> **\<Mirror LAN\>** **\<Mirror WAN1\>** **\<Mirror WAN2\>** **\<Mirror WAN3\>**	0: Do not mirror, 1: Mirror

A.3.4 Staticroute Commands

- Help

    ATA24/advance> staticroute ?

- Display static route settings
    ATA24/advance> staticroute –s \<Index\>

- Edit static route settings
    ATA24/advance> \<Index\> \<Network Interface\> \<Destination IP\> \<Gateway IP\> \<Subnet Mask\>

- Delete static route settings
    staticroute -d \<Index\>

\<Index\>	Item number(1~10)
\<Network Interface\>	0 : LAN 1 : WAN1 2 : WAN2 3 : WAN3
\<Destination IP\>	IP address of the destination
\<Gateway IP\>	IP address of the gateway
\<Subnet Mask\>	Available settings include: /24 ; /25 ; /26 ; /27 ; /28 ; /29 ; /30 ; /31 ; /32 ; /8 ; /9 ; /10 ; /11 ; /12 ; /13 ; /14 ; /15 ; /16 ; /17 ; /18 ; /19 ; /20 ; /21 ; /22 ; /23 ; /0

A.4 Diagnostics Commands

A.4.1 General Commands

- Enter system diagnostics function
    ATA24> diag

- Help in the system diagnostics function
    ATA24/diag> ?

- Back to the root commands
    ATA24/diag> ..

A.4.2 Learning_table Commands

- Help

    ATA24/diag> learning_table ?

- Learning_table commands usage
    ATA24/diag> Learning_table

A.4.3 Netstat Commands

- Help
> **ATA24/diag> netstat ?**

- Netstat commands usage
> **ATA24/diag> netstat -h**

- Netstat diagnostics utility
> **ATA24/diag> netstat <cmd>**

A.4.4 Nslookup Commands

- Help
> **ATA24/diag> nslookup ?**

-Nslookup diagnostics utility
> **ATA24/diag> nslookup <IPorDomainName>**

A.4.5 Ping Commands

- Help
> **ATA24/diag> ping ?**

- Ping commands usage
> **ATA24/diag> ping**

- Ping diagnostics utility
> **ATA24/diag> ping <Source Interface> <Destination Address>**

<Source Interface>	0 : LAN 1 : WAN1 2 : WAN2 3 : WAN3
<Destination Address>	Domain name or IP Address of destination

A.4.6 Traceroute Commands

- Help
> **ATA24/diag> traceroute ?**

- Display usage message
> **ATA24/diag> traceroute**

- Traceroute diagnostics utility
> **ATA24/diag> traceroute <cmd>**

<cmd>	Octet string

A.5 Firewall Commands

A.5.1 General Commands

- Enter firewall configuration function
> **ATA24>firewall**

- Help in the firewall function
> **ATA24/ firewall > ?**

- Back to the root commands

ATA24/ firewall > ..

A.5.2 DoS Commands

- Help
  ATA24/network>dos ?
- Set the icmpflood detection function
  ATA24/network>dos /icmpflood
- Set the packet block detection function
  ATA24/network>dos/packetblock
- Set the port scan detection function
  ATA24/network>dos/ portscan
- Set the synflood detection function
  ATA24/network>dos/ synflood
- Set the udpflood detection function
  ATA24/network>dos/ udpflood
- Enable Dos Command
  ATA24/network>dos/enable

A.5.2.1 Icmpflood Command

- Help
  ATA24/network>dos >icmpflood ?

- Icmpflood commands usage
  ATA24/firewall/dos/icmpflood> enable <Option>

  ATA24/firewall/dos/icmpflood>threshold<Value> <Timeout>

<Option>	0: disable ICMPFlood detection function 1: enable ICMPFlood detection function
<Value>	0-65535, default=300 packets/sec
<Timeout>	The value of time out

A.5.2.2 Packetblock Command

- Help
  ATA24/network>dos >packetblock ?

- Packetblock commands usage
  ATA24/firewall/dos/packetblock > option <Value>

<Value>	1: Enable block ip option 2: Enable block TCP option 4: Enable block land 8: Enable tear drop 16:Enable block smurf 32:Enable block ping of death 64:Enable block trace route 128:Enable block icmp fragement 256:Enable SYN fragement 512:Enable Unknow protocol 1024:Enable Fraggle attrack

A.5.2.3 Portscan Command

- Help
>   **ATA24/network>dos >portscan ?**

- Portscan commands usage
>   **ATA24/firewall/dos/portscan > enable <Option>**
>
>   **ATA24/firewall/dos/portscan > threshold <Value>**

<Option>	0: disable port scan detection function 1: enable port scan detection function
<Value>	0-65535, default=300 packets/sec

A.5.2.4 Synflood Command

- Help
>   **ATA24/network>dos >synflood ?**

- Portscan commands usage
>   **ATA24/firewall/dos/synflood >enable <Option>**
>
>   **ATA24/firewall/dos/synflood >threshold <Value>**

<Option>	0: disable SynFlood detection function 1: enable SynFlood detection function
<Value>	0-65535, default=300 packets/sec
<Timeout>	The value of time out

A.5.2.5 Udpflood Command

- Help
>   **ATA24/network>dos >udpflood ?**

- Portscan commands usage
>   **ATA24/firewall/dos/udpflood >enable <Option>**
>
>   **ATA24/firewall/dos/udpflood >threshold <Value>**

<Option>	0: disable UDPFlood detection function 1: enable UDPFlood detection function
<Value>	0-65535, default=300 packets/sec
<Timeout>	The value of time out

A.5.2.6 Enable Command

- Help
>   **ATA24/network>dos >enable ?**

- Portscan commands usage
>   **ATA24/firewall/dos >enable <Option>**

<Option>	0: disable DoS Function 1: enable DoS Function

A.6 Network Commands

A.5.1 General Commands

- Enter network configuration function
    ATA24> network

- Help in the network diagnostics function
    ATA24/network> ?

- Back to the root commands
    ATA24/network> ..

A.5.2 LAN Commands

- Help
    ATA24/network>lan ?
- Set the dhcp server
    ATA24/network/lan> dhcp
- Set the IP NAT function
    ATA24/network/lan> ip_nat
- Set the IP route function
    ATA24/network/lan> ip_route

A.5.2.1 DHCP Command

- Help
    ATA24/network/lan>dhcp ?

- Display DHCP setting
    ATA24/network/lan>dhcp -s

- Enable/disable LAN setting
    dhcp -mode <Index> <Mode>

- Specify range for LAN IP address
    dhcp -range <Index> <Start IP> <End IP>

- Specify DNS server
    dhcp -dns <Index> <Primary DNS> <Secondary DNS>

    dhcp -dns <Index> <Primary DNS>

- Specify gateway
    dhcp -gateway <Index> <Gateway IP>

- Specify lease time
    dhcp -lease <Index> <Lease Time>

- Specify DHCP server
    dhcp -relay <WAN IF> <DHCP Server IP>

<Index>	1: LAN1
	2: LAN2
	3: LAN3
<Mode>	0: Disable
	1: Enable
	2: Relay Agent

\<Start IP>	IP address as starting point.
\<End IP>	IP address as ending point.
\<Primary DNS>	IP address as primary DNS.
\<Secondary DNS>	IP address as secondary DNS.
\<Gateway IP>	IP address as gateway.
\<Lease Time>	Unit is minute.
\<WAN IF>	1: WAN1 2: WAN2 3: WAN3
\<DHCP Server IP>	IP address as DHCP server.

A.5.2.2 IP_Nat Command

- Help

ATA24/network/lan>ip_nat ?

- Display nat setting

ATA24/network/lan>ip_nat –s \<Index>

- Edit IP_NAT setting

ATA24/network/lan>ip_nat \<Index> \<Address> \<Netmask>

\<Index>	1: LAN1 2: LAN2 3: LAN3
\<Address>	IP address for NAT.
\<Netmask>	Subnet mask for NAT.

A.5.2.3 IP_Route Command

- Help

ATA24/network/lan>ip_route ?

- Display IP route setting

ATA24/network/lan>ip_route –s \<WAN Interface>

- Edit IP_Route setting

ATA24/network/lan> ip_route -disable \<WAN Interface>

ATA24/network/lan> ip_route -enable \<WAN Interface> \<Address> \<Netmask> \<LAN Interface>

\<WAN Interface>	1: WAN1 2: WAN2 3: WAN3
\<Address>	IP address for IP route.
\<Netmask>	Subnet mask for IP route.
\<LAN Interface>	1: LAN1 2: LAN2 3: LAN3

A.5.3 WAN Commands

- Help

ATA24/network/wan ?

A.5.3.1 Load Balance for WAN Command

- Help

    ATA24/network/wan>advance> loadbalance ?

- Display the setting

    ATA24/network/wan>advance> loadbalance –s

- Eidt the setting

    ATA24/network/wan>advance> loadbalance <status> <autoweight>

<status>	0: Disable 1: Enable
<autoweight>	0: Disable 1: Enable

A.5.3.2 Backup Configuration Command

- Help

    ATA24/network/wan>advance> backup?

- Display the setting

    ATA24/network/wan>advance> backup –s

- Eidt the setting

    ATA24/network/wan>advance> backup <status>

<status>	0: Disable 1: Enable

A.5.3.3 Weight Configuration Command

- Help

    ATA24/network/wan>advance> weight?

- Display the setting

    ATA24/network/wan>advance> weight –s

- Edit weight setting

    ATA24/network/wan>advance> weight <WAN1> <WAN2> <WAN3>

<WAN1> **<WAN2>** **<WAN3>**	1: 10% 2: 20% 3: 30% 4: 40% 5: 50% 6: 60% 7: 70% 8: 80% 9: 90%

A.5.3.4 Set WAN to Active Command

- Help
    ATA24/network/wan>active ?

- Edit WAN setting
    ATA24/network/wan>active <index> <status> <default route>
    ATA24/network/wan>active <index> <status> <default route>
    <loadbalance><backupmaster> <backupslave>

<index>	1: WAN1 2: WAN2 3: WAN3
<status>	0: not active 1: active
<default route>	0: not default 1: default
<loadbalance>	0: not join loadbalance 1: join loadbalance
<backupmaster>	0: not backupmaster 1: backupmaster
<backupslave>	0: not backupslave 1: backupslave

A.5.3.5 Set WAN to DHCP Mode Command

- Help
    ATA24/network/wan>dhcp ?

- Display current setting
    ATA24/network/wan>dhcp -s <index>

- Edit WAN setting

    ATA24/network/wan>dhcp <index>
    ATA24/network/wan>dhcp <index> <hostname> <domainname>

<index>	1: WAN1 2: WAN2 3: WAN3
< hostname >	Name of the host.
< domainname >	Name of the domain

A.5.3.6 Configure MAC Address Command

- Help
    ATA24/network/wan>mac ?

- Display current setting
    ATA24/network/wan>mac -s <index>

- Edit WAN setting
    ATA24/network/wan>mac <index> <Use Default>

    ATA24/network/wan>mac <index> <User Define> <Mac Address

<index>	1: WAN1
	2: WAN2
	3: WAN3
<Use Default>	0: use default setting
<User Define>	1: user defined setting
<Mac Address>	MAC address for user defined configuration

A.5.3.7 PPPoE/PPTP Connection Detection Command

- Help

ATA24/network/wan>ppp_detect ?

- Display current setting

ATA24/network/wan> ppp_detect -s <index>

- Set condition for detection

ATA24/network/wan> ppp_detect <index> <detect interval> <No-Reply Count>

<index>	1: WAN1
	2: WAN2
	3: WAN3
<detect interval>	Assign a number as interval time for detecting.
<No-Reply Count>	Assign a number (times) to ensure the connection of the WAN is on. After passing the times you set in this field and no reply received by the adapter, the connection of WAN interface will be regarded as breaking down.

A.5.3.8 Set WAN to PPPoE Mode Command

- Help

ATA24/network/wan>pppoe ?

- Display current setting

ATA24/network/wan> pppoe -s <index>

- Edit WAN setting

ATA24/network/wan> pppoe <index> <Username> <Password> <Authentication Mode> <Service Name>

<index>	1: WAN1
	2: WAN2
	3: WAN3
<Username>	Name (user account) assigned by ISP.
<Password>	Password assigned by ISP.
<Authentication Mode>	0:PAP
	1:CHAP
<Service Name>	Name (service) assigned by ISP.

A.5.3.9 Set WAN to PPTP Mode Command

- Help
     ATA24/network/wan>pptp ?

- Display current setting
     ATA24/network/wan> pptp -s \<index\>

- Edit WAN setting
     ATA24/network/wan> pptp \<index\> \<Username\> \<Password\>
     \<Authenticate Mode\> \<Local IP\>\<Local Netmask\> \<Server IP\>

\<index\>	1: WAN1 2: WAN2 3: WAN3
\<Username\>	Name (user account) assigned by ISP.
\<Password\>	Password assigned by ISP.
\<Authentication Mode\>	0:PAP 1:CHAP
\<Local IP\>	IP address for local host.
\<Local Netmask\>	Netmask address for local host.
\<Server IP\>	IP address for the PPTP server.

A.5.3.10 Configure UP/Downstream Rate Command

- Help
     ATA24/network/wan>rate ?

- Display current setting
     ATA24/network/wan> rate -s \<index\>

- Edit WAN setting
     ATA24/network/wan> rate \<index\> \<Downstream\> \<Upstream\>

\<index\>	1: WAN1 2: WAN2 3: WAN3
\<Downstream\>	0: using default setting (102400) Type any number to set downstream rate.
\<Upstream\>	0: using default setting(102400) Type any number to set upstream rate.

A.5.3.11 Show WAN Configuration Command

- Help
     ATA24/network/wan>show ?

- Display all WAN interfaces settings
     ATA24/network/wan> show

- Display specified WAN interface settings
     ATA24/network/wan>show \<index\>

\<index\>	1: WAN1 2: WAN2 3: WAN3
\<index\>	1: WAN1

	2: WAN2
	3: WAN3

A.5.3.12 Configure WAN Speed Command

- Help

  ATA24/network/wan>speed ?

- Display current setting
  ATA24/network/wan> speed -s <index>

- Edit WAN setting
  ATA24/network/wan>speed <index> <Speed & Duplex>

<index>	1: WAN1
	2: WAN2
	3: WAN3
<Speed & Duplex>	1:Auto Negotiation
	2:100M / Full Duplex
	3:100M / Half Duplex
	4:10M / Full Duplex
	5:10M / Half Duplex

A.5.3.13 Set WAN to Static Mode Command

- Help

  ATA24/network/wan>static ?

- Display current setting
  ATA24/network/wan> static -s <index>

- Edit WAN setting
  ATA24/network/wan> static <index> <IP> <Netmask> <Gateway>
  <Primary DNS> <Secondary DNS>

<index>	1: WAN1
	2: WAN2
	3: WAN3
<IP>	Private IP address for WAN.
<Netmask>	Subnet mask for WAN.
<Gateway>	Private IP address for gateway.
<Primary DNS>	Pprivate IP address as primary DNS.
<Secondary DNS>	Private IP address as secondary DNS.

A.5.3.14 Static Connection Detection Command

- Help

  ATA24/network/wan>static_detect ?

- Display current setting
  ATA24/network/wan> static_detect -s <index>

- Set condition for detection, sending ARP to Gateway
  ATA24/network/wan> static_detect <index> 0 <detect interval>
  <No-Reply Count>

- Set condition for detection, sending PING
    ATA24/network/wan> static_detect <index> 1 <detect interval>
    <No-Reply Count> <detect destination>

- Set condition for detection, sending HTTP
    ATA24/network/wan> static_detect <index> 2 <detect interval>
    <No-Reply Count> <detect destination>

<index>	1: WAN1 2: WAN2 3: WAN3
<detect interval>	Assign a number as interval time for detecting.
<No-Reply Count>	Assign a number (times) to ensure the connection of the WAN is on. After passing the times you set in this field and no reply received by the adapter, the connection of WAN interface will be regarded as breaking down.
<detect destination>	Private IP address or domain name

A.6 System Commands

A.6.1 General Commands

- Enter system configuration function
    ATA24> system

- Help in the system configuration function
    ATA24/system> ?

- Back to the root commands
    ATA24/system> ..

A.6.2 View ARP Cache Table Command

- Help
    ATA24/system/DiagnosticTools>arpcachetable ?

- Display the setting
    ATA24/system/DiagnosticTools> arp cache table

A.6.3 View DHCP Assignment Command

- Help
    ATA24/system/DiagnosticTools> dhcpassignmenttable ?

- Display the setting
    ATA24/system/DiagnosticTools> dhcp assignment table

A.6.4 View Routing Table Command

- Help
    ATA24/system/DiagnosticTools> routingtable ?

- Display the setting
    ATA24/system/DiagnosticTools> routing table

A.6.5 Administrator Control Commands

- Help
    ATA24/system> administrator ?

- Edit password for administrator
    **ATA24/system>administrator<old password> <new password>
    <verify password>**

<old password>	Type old password.
<new password>	Type new password.
<verify password>	Retype the password for verification.

A.6.6 Auto Logout Commands

- Help
    ATA24/system > auto_logout ?

- Display the setting
    ATA24/system > auto_logout -s

- Edit the max-cli-session number
    ATA24/system > auto_logout -n <MaxSess>

- Kill the #'s log-session
    ATA24/system > auto_logout -d <SessNum>

- Edit the maximum idle time of auto logout
    ATA24/system > auto_logout -m <MaxIdleTime>

- Enable/Disable the auto logout
    ATA24/system > auto_logout <Active>

<MaxSess>	Integer(1 to15)
<SessNum>	Integer(1 to MaxSess)
<MaxIdleTime>	Seconds, Integer(10 to 86400)
<Active>	0: Disable 1: Enable

A.6.7 Config Commands

- Help
    ATA24/system> config ?

- Display the setting
    ATA24/system> config –s

- Execute the backup action
    ATA24/system> config backup <fname> <servIP>

- Execute the restore action
    ATA24/system> config restore <fname> <servIP>

<fname>	Octets string maximum length is 64.
<servIP>	IP address for the IVD

A.6.8 Manage Port Commands

- Help

ATA24/system> manage_port ?

- Display the setting
  ATA24/system> manage_port -s

- Manage port from WAN interface
  ATA24/system> manage_port -m <Use Default Port or Not><Manage from WAN>

- Reboot the system to apply the changes
  ATA24/system> manage_port -r

- Enable HTTP/Telnet function
  ATA24/system> manage_port -e <HTTP Enable> <TELNET Enable>

- Change port number for HTTP/Telnet function
  ATA24/system> manage_port -p <Http> <Telnet>

- Set IP address for the connection through WAN interface
  ATA24/system> manage_port -i <index> <IP Start> <IP End>

<Use Default Port or Not>	0 : Default 1 : User Define
<Http>	default: 80
<Telnet>	default: 23
<Manage from WAN>	0 : Disable all from Wan; 1 : Enable all from Wan; 2 : Enable only defined Wan IP;
<IP Start>	Starting point
<IP End>	Ending point.

A.6.9 Reboot Commands

- Help
  ATA24/system> reboot ?

- Reboot the system
  ATA24/system> reboot

- Reboot the system with keeping some important configuration
  ATA24/system> reboot keep

- Reboot the system with factory default configuration
  ATA24/system> reboot default

- Reboot the IVD VoIP board only
  ATA24/system> reboot voip
  ATA24/system> reboot dsl

A.6.10 Show Status Command

- Help
  ATA24/system> status ?

- Display the system status
  ATA24/system> status

A.6.11 Syslogd Commands

- Help
   ATA24/system> syslogd ?

- Display the syslog setting
   ATA24/system> syslogd -s

- Set IP address and port number for Syslog server
   ATA24/system>syslogd <Active> <RIP> <RPort> <Facility>
   <Severity>

<Active>	0: Disable 1: Enable
<RIP>	Type IP address for LAN
<RPort>	Integer(1 to 65535)
<Facility>	0: local use 0 (local0)(default) 1: local use 1 (local1) 2: local use 2 (local2) 3: local use 3 (local3) 4: local use 4 (local4) 5: local use 5 (local5) 6: local use 6 (local6) 7: local use 7 (local7)
<Severity>	0: Emergency(default settting) 1: Alert 2: Critical 3: Error 4: Warning 5: Notice (including SIP) 6: Informational 7: Debug

A.6.13 Upgrade Commands

- Help
   ATA24/system> upgrade ?

- Display the setting
   ATA24/system> upgrade -s

- Execute the firmware upgrade
   ATA24/system> upgrade <File Name> <Server IP>

<File Name>	Octets string maximum length is 64.
<Server IP>	Type IP address for the IVD.

A.7 Voip Commands

A.7.1 General Commands

- Enter voip configuration function
    ATA24> voip

- Help in the voip diagnostics function
    ATA24/voip> ?

- Back to the root commands
    ATA24/voip> ..

A.7.2 H248 Commands

- Help

    ATA24/voip>h248 ?

- Display H248 call agent setting
    ATA24/voip/h248 > callagent -s

- Edit the H248 call agent setting
    ATA24/voip/h248>callagent <IPAddress> <Port>

- Display digit map default short/long timer setting
    ATA24/voip/h248 >dmTimer -s

- Edit the digit map timer setting
    ATA24/voip/h248>dmTimer <Termination> <Timer> <Sec>

- Display local listening port number for H248
    ATA24/voip/h248 >localport -s

- Edit the local listening port setting
    ATA24/voip/h248>localport <Port>

- Display message ID
    ATA24/voip/h248 >mid -s

- Edit message ID
    ATA24/voip/h248>mid -m <Mode>
    ATA24/voip/h248>mid -i <IP Mode>
    ATA24/voip/h248>mid <IPAddress>
    ATA24/voip/h248>mid <IPAddress> <Port>

- Display termination ID
    ATA24/voip/h248 >termid -s

- Edit termination ID
    ATA24/voip/h248>termId -a <Prefix> <StartNum>
    ATA24/voip/h248>termId <Termination> <ID>

<IPAddress>	Domain name or IP Address
<Port>	1 to 65535
<Termination>	1 to 24
<Timer>	0: short timer
	1: long timer
<Sec>	1 to 99 (sec)
<Mode>	0: [IPAddress]:Port

	1: [IPAddress]
\<IP Mode\>	0: WAN IPAddress 1: Manual IPAddress
\<Prefix\>	ID Name prefix
\<StartNum\>	Beginning of ID Name Number
\<Termination\>	1 to 24
\<ID\>	Identification name

A.7.3 Linetest Commands

- Help

      ATA24/voip>linetest ?

- Execute voip line card test

      ATA24/voip/linetest > line_card_test \<Line\> \<TestItem\>

- Execute voip metallic loop test

      ATA24/voip/linetest > metallic_loop_test \<Line\>

- Execute voip user phone test

      ATA24/voip/linetest >user_phone_test \<Line\> \<TestItem\>

\<Line\>	Available number: 1 to 24
\<TestItem\> (for voip line card test)	A: Normal Battery B: Loop Current C: Dial Tone Test D: Dial Digit Test E: Ring Voltage Test
\<TestItem\> (for voip user phone test)	A: DTMF Tone Testing B: Dial Pulse Testing C: Howler Tone D: Ringing

A.7.4 MGCP Commands

- Help

      ATA24/voip/mgcp> callagent ?

- Display the call agent setting

      ATA24/voip/mgcp> callagent –s
      ATA24/voip/mgcp> callagent2 -s

- Edit the IP address and port number for call agent

      ATA24/voip/mgcp> callagent \<IPAddress\> \<Port\>

      ATA24/voip/mgcp> callagent2 \<IPAddress\> \<Port\>

- Display the setting of End Point Name ID Style

      ATA24/voip/mgcp> epidstyle -s

- Edit the style mode for end point

      ATA24/voip/mgcp> epidstyle -m\<Mode\>

- Edit the logic ID for end point

ATA24/voip/mgcp> epidstyle -l <LogicID>

- Edit the domain name for end point
    ATA24/voip/mgcp> epidstyle -d <DomainName>

- Display the MGCP heartbeat setting
    ATA24/voip/mgcp> heartbeat -s

- Edit the dual_homing action
    ATA24/voip/mgcp> heartbeat <Active>

- Edit the period of heartbeat for dual_homing
    ATA24/voip/mgcp> heartbeat –t <Sec>

- Edit the retry times of dual_homing
    ATA24/voip/mgcp> heartbeat –r <Times>

- Display local port setting
    ATA24/voip/mgcp> localport -s

- Edit the local port number for MGCP protocol
    ATA24/voip/mgcp> localport <Port>

- Display the port lock setting
    ATA24/voip/mgcp> portlock –s

    ATA24/voip/mgcp> portlock –s <Port>

- Edit the port lock/unlock
    ATA24/voip/mgcp> portlock <Port> <lock>

- Display the setting
    ATA24/voip/mgcp> rsip -s

- Set the RSIP action
    ATA24/voip/mgcp> rsip <Active>

- Display the setting pf sending RSIP with wildcarded endpoint ID
    ATA24/voip/mgcp> rsip -s

- Edit the RSIP action
    ATA24/voip/mgcp> wildrsip <wildcard> <range>

<IPAddress>	Assign an IP address of Call Agent server in MGCP (Default is 192.168.100.100)
<Port>	Assign a UDP port number to Call Agent server. 1 to 65535 (Default is 2727)

<Mode>	There are four options for users to select. (Default is 0)
	0. aaln/#@[ip_addr]
	   ex: aaln/1@[1.1.1.1]
	1. mac_addr/#@[ip_addr]
	   ex: 000504030201/1@[1.1.1.1]
	2. aaln/#@mac_addr

	ex: aaln/1@000504030201
	3. aaln/#@domain_name
	ex: aaln/1@callagent.com
\<LogicID\>	Starting number for logic ID.
\<DomainName\>	Name of the domain
\<Active\>	0: Disable 1: Enable (default=0)
	There are two options for users to select.
	Each endpoint sends its own RSIP
	Send only one wild-carded RSIP
	"**Enable**" to activate this function.
	"**Disable**" to close this function. (Default is
	Disable)
\<Sec\>	Integer(1 to 65535 default=60)
\<Times\>	Integer(1 to 300 default=1)
\<Port\>	1 to 24
(for port lock/unlock)	
\<lock\>	0: unlocked (default)
	1: locked
\<wildcard\>	1: Enable wildcard(*) RSIP(Default)
	0: Disable wildcard(*) RSIP
\<range\>	1: Enable range([1-24]) wildcards(Default)
	0: Disable range([1-24]) wildcards

A.7.5 Miscellaneous Commands

- Help in the misc diagnostics function
   ATA24/voip>misc ?

- Display the dialing completion timeout
   ATA24/voip/misc> dialing_timeout -s

- Set the dialing completion timeout
   ATA24/voip/misc> dialing_timeout \<value\>

- Display echo cancellation configuration
   ATA24/voip/misc> echo_cancellation –s

- Enable echo cancellation configuration
   ATA24/voip/misc> echo_cancellation \<enable\>

   ATA24/voip/misc> echo_cancellation \<enable\> \<tailLength\>

- Display VoIP failover configuration
   ATA24/voip/misc> failover –s

- Enable/disable VoIP failover configuration when it failed from network to gateway
   ATA24/voip/misc> failover –n \<Mode\>

- Enable/disable VoIP failover configuration to use POTS system forcefully
   ATA24/voip/misc> failover –f \<Mode\>

- Display gain control setting
    ATA24/voip/misc>gain –s

- Set gain control setting
    ATA24/voip/misc>gain \<Device port\> \<Speaker Gain\>
    \<Microphone Gain\>

- Display line impedance parameter
    ATA24/voip/misc\> lineimpedance –s

- Set same value for each line
    ATA24/voip/misc\> lineimpedance \<Country\>

    ATA24/voip/misc\>lineImpedance \<line\> \<Country\>

- Display line PCM codec
    ATA24/voip/misc\> linepcmcodec –s

- Set same value for each line
    ATA24/voip/misc\> linepcmcodec \<codec\>

    ATA24/voip/misc\> linepcmcodec \<line\> c

- Display metering parameter
    ATA24/voip/misc\> metering –s

- Set metering parameter
    ATA24/voip/misc\> metering

    ATA24/voip/misc\> metering -r \<Reversal as Callee off-hook\>
    \<Reversal as Callee on-hook\>

- Display NAT traversal setting
    ATA24/voip/misc\> nat –s

- Set NAT traversal setting
    ATA24/voip/misc\>nat \<Disable Mode\>

    ATA24/voip/misc\>nat \<Manual Mode\> \<NatIpAddr\>

    ATA24/voip/misc\>nat \<Auto Mode\> \<Type\> \<LocalPort\>
    \<ServerIP\> \<ServerPort\>

    ATA24/voip/misc\>nat -sym \<sym_rtp_t38\>

- Display Line offhook detect current value
    ATA24/voip/misc\>offhookdetect -s

- Set Line offhook detection
    ATA24/voip/misc\> offhookdetect \<Current\>

    ATA24/voip/misc\> offhookdetect \<line\> \<Current\>

- Display pulse timing configuration
    ATA24/voip/misc\> pulsetime -s

- Set pulse timing
    ATA24/voip/misc\> pulsetime \<breakMin\> \<breakMax\>

<center>**<flashMin> <flashMax> <makeMin> <makeMax> <interdigitmin>**</center>

- Display ring cadence and frequency setting
ATA24/voip/misc> ring -s

- Set ring cadence and frequency (same value for each line)
ATA24/voip/misc> ring -f <Frequency>

- Set ring frequency
ATA24/voip/misc>ring -f <line> <Frequency>

- Set ring cadence
**ATA24/voip/misc>ring -c <Index> <Ton1> <Toff1> <Ton2>
<Toff2>   <Ton3> <Toff3> <Ton4> <Toff4>**

- Display the port number for sending/receiving RTP packet**s**
ATA24/voip/misc> rtp_port -s

- Set the port number for sending/receiving RTP packet**s**
ATA24/voip/misc> rtp_port <Port number>

- Display T.38 Fax Relay Configuration
ATA24/voip/misc> t38 -s

- Set T.38 Fax Relay
ATA24/voip/misc> t38 <Mode>

ATA24/voip/misc t38 <Mode> <Port> <Redundancy>

- Display Voice Band Data (VBD) Configuration
ATA24/voip/misc> vbd -s

- Set Voice Band Data (VBD) (same value for each line)
ATA24/voip/misc> vbd <VBD>

- Set Voice Band Data (VBD)
ATA24/voip/misc> vbd <port><VBD>

<value>	Range: 1~60 (second)
<enable>	0: disable 1: enable
<tailLength>	Network Echo Canceller Tail Length (ms) Range: 8 ~ 128, should be multiple of 8
<Mode>	0: disable 1: enable
<Device port>	Device port number
<Speaker Gain>	Assign the gain value while receiving voice, default value is 0. The range is from -14 to 6.
<Microphone Gain>	Assign the gain value while transmitting voice, default value is 0. The range is from -14 to 6. (Default is 0)
<line>	Device line number (from 1 to 24)
<Country>	0: 600 Ohm (default)

	1: 900 Ohm
	2: China
\<Codec\>	0: Mu-LAW (default)
	1: A-LAW
\<Reversal as Callee off-hook\>	0: Disable (default)
	1: Enable
\<Reversal as Callee on-hook\>	0: Disable (default)
	1: Enable
\<Disable Mode\>	0 : Disable NAT traversal (DEFAULT)
\<Manual Mode\>	1 : Manually input NAT IP address
\<Auto Mode\>	2 : Auto discover NAT IP address
\<NatIpAddr\>	Type IP address for manual mode.
\<Type\>	0 : Semi-auto, need to configure NAT
	1 : Full-auto, no need to configure NAT
\<LocalPort\>	Local listening port number for STUN client
\<ServerIP\>	The IP address of STUN server
\<ServerPort\>	The port number of STUN server
\<sym_rtp_t38\>	0 : Disable symmetric RTP and T.38
	1 : Enable symmetric RTP and T.38
\<Current\>	8: 8 mA (default)
	10: 10 mA
	12: 12 mA
	15: 15 mA
\<breakMin\>	Minimum pulse break time (ms)
\<breakMax\>	Maximum pulse break time (ms)
\<flashMin\>	Minimum flash break time (ms)
\<flashMax\>	Maximum flash break time (ms)
\<makeMin\>	Minimum pulse make time (ms)
\<makeMax\>	Maximum pulse make time (ms)
\<interDigitMin\>	Minimum pulse inter digit time (ms)
\<Freqnency\>	Ring frequency
	20: 20 HZ (default)
	25: 25 HZ
\<Index\>	Pattern Index, Index Value: 1-8
\<Ton1\>	Ton1 of cadence, unit: (ms)
\<Toff1\>	Toff1 of cadence, unit: (ms)
\<Ton2\>	Ton2 of cadence, unit: (ms)
\<Toff2\>	Toff2 of cadence, unit: (ms)
\<Ton3\>	Ton3 of cadence, unit: (ms)
\<Toff3\>	Toff3 of cadence, unit: (ms)
\<Ton4\>	Ton4 of cadence, unit: (ms)
\<Toff4\>	Toff4 of cadence, unit: (ms)
\<Port number\>	1 to 65535
\<Mode\>	0: Disable
	1: Enable
\<Port\>	T.38 Starting Port, 1 to 65535 (default:13456)
\<Redundancy\>	T.38 Redundancy Number, 0 to 4 (default:1)
\<port\>	device port number
\<VBD\>	0: Auto Detection
	1: Modem
	2: Fax

> **Note:** "Auto Discovery NAT IP Address" option is used when IVD is behind a NAT adapter, NAT uses dynamic WAN IP address like as DHCP or PPPoE client. There must be having a STUN server in Internet. IVD needs to negotiate with STUN server for this function.
>
> **Note:** The "STUN"(Simple Traversal of UDP through NATs) server is an implementation of the STUN protocol that enables STUN functionality in SIP-based systems. STUN is an application-layer protocol that can determine the public IP and nature of a NAT device that sits between the STUN client and STUN server.

A.7.6 SIP Commands

- Help in the sip configuration function
    ATA24/voip/sip> ?

- Enter incallbarring configuration function
    ATA24/voip/sip> incallbarring

- Display allow list of incoming calls (for SIP)
    ATA24/voip/misc> allow –s

    ATA24/voip/misc>allow -s <Index>

- Edit allow list of incoming calls (for SIP)
    ATA24/voip/sip> allow -e <Index> <Name> <IP/Domain>

- Delete allow list of incoming calls (for SIP)
    ATA24/voip/sip> allow -d <Index>

    ATA24/voip/sip> allow –d

- Display deny list of incoming calls (for SIP)
    ATA24/voip/misc> deny –s

    ATA24/voip/misc> deny -s <Index>

- Edit deny list of incoming calls (for SIP)
    ATA24/voip/sip> deny -e <Index> <Name> <IP/Domain>

- Delete deny list of incoming calls (for SIP)
    ATA24/voip/sip> deny -d <Index>

    ATA24/voip/sip> deny –d

- Display current settings for incoming call barring (for SIP)
    ATA24/voip/misc> set –s

- Edit deny list of incoming calls (for SIP)
    ATA24/voip/sip> set <Class> <MatchName> <MatchIP>
    <SpeeddialFrom> <SpeeddialTo>

- Display call waiting setting
    ATA24/voip/misc> callwait –s

- Edit call waiting setting
        ATA24/voip/sip>callwait <Port> <Mode>

- Display the codec setting
        ATA24/voip/sip> codec -s

- Edit prefect codec, codec rate and VAD for the port#
        **ATA24/voip/sip> codec <Port> <PreferCodec> <CodecRate>
        <VAD>**

- Edit single codec for the port#
        ATA24/voip/sip> codec –single <Port> <Active>

- Display VoIP setting
        ATA24/voip/sip>default_account -s

- Edit default SIP account
        ATA24/voip/sip>default_account <Port> <SIP Account>

- Display dialplan setting
        ATA24/voip/sip>dialplan -s

- Display dialplan setting with detail description
        ATA24/voip/sip>dialplan -h

- Edit dialplan setting (adding new entry)
        **ATA24/voip/sip>dialplan -a <MatchString> <MinLength>
        <MaxLength> <PrefixStrip>   <PrefixAdd> <SipIpAddr>
        <InterDigitTimeOut> <Memo>**

- Edit dialplan setting (modifying an entry)
        **ATA24/voip/sip>dialplan -e <EntryIdx> <MatchString>
        <MinLength> <MaxLength><PrefixStrip> <PrefixAdd>
        <SipIpAddr> <InterDigitTimeOut> <Memo>**

- Delete dialplan setting
        ATA24/voip/sip>dialplan -d <EntryIdx>
        ATA24/voip/sip>dialplan -D

- Display DTMF Relay setting
        ATA24/voip/sip>dtmf_relay -s

- Edit DTMF relay mode for the port#
        ATA24/voip/sip>dtmf_relay <Port> <Mode>

- Edit DTMF relay mode and SIP INFO mode for the port#
        ATA24/voip/sip>dtmf_relay <Port> <Mode> <SipInfoMode>

        ATA24/voip/sip>dtmf_relay -gain <port> <Gain Value>

- Display fax transporting setting
        ATA24/voip/sip> fax -s

- Edit fax mode for the port#
        ATA24/voip/sip> fax <Port> <Mode>

- Display hotline setting
        ATA24/voip/sip> hotline -s

- Enable/Disable the hotline function
        ATA24/voip/sip> hotline <Port> <Active>

- Edit the hotline number
        ATA24/voip/sip> hotline <Port> <Active> <<Digits>

- Display local listening port number for SIP
        ATA24/voip/sip> localport –s

- Edit SIP local port number
        ATA24/voip/sip> localport <Port>

- Display port activation setting
        ATA24/voip/sip> port_active -s

- Choose proxy for the port
        ATA24/voip/sip> port_active <Port> <Active>

- Display proxy server setting
        ATA24/voip/sip> server -s

- Enable/Disable the proxy server
        ATA24/voip/sip> server <Proxy#> <Active>

- Enable/Disable the proxy server and outbound proxy
        ATA24/voip/sip> server <Proxy#> <Active> <Outbound>

- Edit the proxy server parameters
        ATA24/voip/sip> server <Proxy#> <Active> <Outbound>
        <ProxyName> <ProxyIP> <ProxyPort> <RegistrarIP>
        <RegistrarPort> <Expires> <Domain>

- Display SIP message (for SIP)
        ATA24/voip/sip> siplog <Mode>
        ATA24/voip/sip> siplog <Mode><Line>

- Display SIP user agent setting
        ATA24/voip/sip>sipua –s <Index>

- Display ring port setting
        ATA24/voip/sip>sipua –r

- Edit SIP user agent setting
        ATA24/voip/sip>sipua -e <Index> <Active> <UserName>
        <Password> <DisplayName> <AuthId><CallForwardMode>
        <CallForwardUrl> <CallForwardRing><Proxy> <CallNoRegister>
        <RingType> <IpBind>

- Edit ring port setting
        ATA24/voip/sip> sipua –r <Index> <RingPort> <Mode>

- Delete SIP user agent setting
        ATA24/voip/sip> sipua -e

ATA24/voip/sip>dialplan -D

- Display speed dial setting
     ATA24/voip/sip> speeddial –s
     ATA24/voip/sip> speeddial -s <start> <end>

- Add speed dial number and destination for the entry
     ATA24/voip/sip> speeddial –a <Number> <Destination> <Memo>

- Edit speed dial number, destination and memo for the entry
     ATA24/voip/sip> speeddial –e <Index> <Number> <Destination>
     <Memo>

- Delete the entry of speed dial
     ATA24/voip/sip> speeddial –d <Index>

- Delete all entries of speed dial
     ATA24/voip/sip> speeddial –D

- Display ports that unlocked
     ATA24/voip/sip> unlock –s
     ATA24/voip/sip> unlock –s <Port>

- Execute port unlock
     ATA24/voip/sip> unlock <Port>

<Index>	1 to 30
	1 to 32 for SIP user agent
<Name>	Name of the incoming calls
<IP/Domain>	IP address or domain name
<Class>	0 : Allow all incoming calls
	1 : Allow only calls from allow list
	2 : Allow only calls from speed dial entries
	3 : Deny only calls from deny list
	4 : Deny all incoming calls
<MatchName>	0 : Disable ; 1 : Enable
<MatchIP>	0 : Disable ; 1 : Enable
<SpeeddialFrom>	1 to 150
<SpeeddialTo>	1 to 150
<Port> <	Port number of the device.
	From 1 to 24
<Mode> for ring port setting/RTP threshold setting	0 : Disable ; 1 : Enable
<PreferCodec>	Select one Codec to be applied on this port.
	IVD supports five Codecs.
	0: G.711U(PCMU) -64kbps
	1: G.711A(PCMA) -64kbps
	2: G.729A -8kbps (Default is 2)
	3: G.723.1 -6.3kbps
	4: G.726-32kbps
<CodecRate>	Select one rate value to be applied on this
	port.

	20/40 - for PCMU or PCMA (Default is 20) 20/40/60/80 - for G.729A (Default is 20) 30/60 - for G.723.1 (Default is 30) 20/40 - for G.726 (Default is 20)
\<VAD\>	"Enable" to activate VAD(Voice Activity Detection, also known as Silence Suppression) function. "Disable" to stop using VAD. (Default is Disable)
\<Active\>	"Enable" to activate this port. "Disable" to close this port. (Default is Disable)
\<SIP Account\>	1 to 32
\<EntryIdx\>	1 to 60
\<MatchString\>	Matched string, ex: 9011x.T, maximum 63 characters.
\<MinLength\>	Min. length of digits, range: 0~63, default: 0 (only use for x.T (unfixed length))
\<MaxLength\>	Max. length of digits, range: 0~63, default:32
\<PrefixStrip\>	Number of prefix digits to strip, range: 0~63
\<PrefixAdd\>	Prefix string to be add, -1: none maximum 63 char.
\<SipIpAddr\>	SIP IP address or domain name, ex: iptel.org 0 for no specific address
\<InterDigitTimeOut\>	Override the inter-digits timeout, range: 1~60(sec) default: 4 (sec)
\<Memo\>	User-specified name for comment, maximum 63 characters. Users can add some descriptions for each number. (Default is none)
\<Mode\>	0: Disable 1: RFC2833 (Default is 1) 2: SIP INFO
\<SipInfoMode\>	Click one option to be applied in DTMF function. There are three options to be supported as below – Disable(Inband) RFC2833 SIP INFO 0: CISCO 1: NORTEL (If Mode is 1, default is none) (If Mode is 2, default is 0)
\<Gain Value\>	0 to 31
\< Mode \>	Select a mode to be applied on FAX function. There are two options to be supported as below – Transparent: FAX will be transmitted via voice channel, no fax relay nor Codec change will be involved. T.38 Relay: Using T.38 Fax Relay. It is the

	default value. 0: Transparent 1: T.38 Relay (Default is 1)
\<Active \>	0: Disable, 1: Enable Or 0: off, 1: on
\<Digits \>	Default is none
\< Proxy#\>	Proxy # is from 1 to 3.
\< Outbound \>	0: Disable (Default is 0) 1: Enable (It means that each SIP protocol packet will be sent to SIP proxy server always.)
\< ProxyName \>	Assign a name of SIP proxy server. (Default is none)
\< ProxyIP \>	Assign an IP address of SIP proxy server. (Default is 0)
\< ProxyPort \>	Assign a port number of SIP proxy server. 1…65535 (Default is 5060)
\< RegistrarIP \>	Assign an IP address or domain name of SIP register server. (Default is 0)
\< RegistrarPort \>	Assign a port number of SIP register server. 1…65535 (Default is 5060)
\< Expires \>	Assign a timeout value for SIP protocol, the default value is 300. (minimum 60 seconds)
\<Domain\>	Assign an IP address or domain name of SIP Domain/Realm. (Default is 0)
\<Mode\> for SIP Message	0: Output last 50 lines 1: Output last N lines
\<Line\> for SIP Message	Print last N lines for mode 1
\<UserName\>	SIP username
\<Password\>	SIP password
\<DisplayName\>	SIP display name
\<AuthId\>	SIP authentication ID
\<CallForwardMode\>	0: Disable 1: Call forwarding all calls 2: Call forwarding busy 3: Call forwarding no answer
\<CallForwardUrl\>	SIP url format, ex: 101@iptel.org
\<CallForwardRing\>	1~10 (rings)
\<Proxy\>	0: Don't use proxy server 1: use Proxy 1 2: use Proxy 2 3: use Proxy 3
\<CallNoRegister\>	0: Call with Registration 1: Call without Registration
\<RingType\>	0: Rings all ports in the group 1: Rings the first available port 2: Rings by round robin
\<IpBind\>	0: WAN

	1: VPN/LAN1
	2: VPN/LAN2
	3: VPN/LAN3
	4: VPN/LAN4
<RingPort>	1~24 port
<Index> for speed dial setting	1~150
<Number>	Assign a dialing phone number.Ex: 101
<Destination>	Assign an address of dialing destination. Ex: 101@iptel.org

A.7.7 Statistics Commands

- Help in the Statistics function
> **ATA24/voip/Statistics > ?**

- Display call statistics setting
> **ATA24/voip/statistics> callstat**

- Display the setting by port
> **ATA24/voip/statistics> callstat <Port>**

- Edit the range for callstat port
> **ATA24/voip/statistics> callstat <Port> <Range>**

- Display RTP statistics setting
> **ATA24/voip/statistics> rtpstat**

- Display the setting by port
> **ATA24/voip/statistics> rtpstat <Port>**

- Edit the range for rtpstat port
> **ATA24/voip/statistics> rtpstat <Port> <Range>**

- Display RTP threshold setting
> **ATA24/voip/statistics> rtpthreshold -s**

- Edit the value for rtpthreshold
> **ATA24/voip/statistics> rtpthreshold <mode> <delayLow>**
> **<delayHigh> <jitterLow> <jitterHigh> <lostLow> <lostHigi>**
> **<timeout>**

- Display VoIP RTP alert setting
> **ATA24/voip/statistics> showalert**

- Display the setting by port
> **ATA24/voip/statistics> showalert <Port>**

<Port>	Port number of the device. From 1 to 24
<Range> for VoIP call statistics	0: 15 minutes 1: 24 hour
<delayLow>	Round Trip Delay Low Threshold (ms)

\<delayHigh>	Round Trip Delay High Threshold (ms)
\<jitterLow>	Jitter Low Threshold (ms)
\<jitterHigh>	Jitter High Threshold (ms)
\<lostLow>	Packet Loss Ratio Low Threshold (0..100%)
\<lostHigh>	Packet Loss Ratio High Threshold (0..100%)
\<timeout>	RTCP timeout (in seconds)
\<Lowfreq>	Assign a low frequency number in Hertz unit. (unit is HZ) (Default is 350)
\<Highfreq>	Assign a high frequency number in Hertz unit. (unit is HZ) (Default is 440)
\<Ton1>	The duration of the first ringing. (10msec per unit) (Default is 0)
\<Toff1>	The silence duration after the first ringing. (10msec per unit) (Default is 0)
\<Ton2>	The duration of the next continuous ringing. (10msec per unit) (Default is 0)
\<Toff2>	The silence duration after the next continuous ringing. (10msec per unit) (Default is 0)
\<Type> for call ID setting	0: North America 1: JAPAN 2: ETSI (Default is 2) 3: DTMF

A.7.8 VoIP Status Commands

- Help in the Statistics function
    ATA24/voip/status> ?

- Display VoIP faults
    ATA24/voip/status>faultstatus

- Display VoIP FXS port hook state (onhook or offhook)
    ATA24/voip/status>hookstate
    ATA24/voip/status>hookstate\<Port>

- Display VoIP connection Status
    ATA24/voip/status>portstatus
    ATA24/voip/status>portstatus \<Port>

- Display VoIP SIP User Agent Registration Status
    ATA24/voip/status>sipuastatus
    ATA24/voip/status>sipuastatus \<Port>

- Display VoIP Status
    ATA24/voip/status>voipstatus
    ATA24/voip/status>voipstatus \<Mode>

\<Port>	Port number of the device. From 1 to 24
\<Mode>	0: disable 1: enable

A.7.9 Tone User Defined Commands

- Help in the Statistics function
  ATA24/voip/tone/user_defined> ?

- Display user defined tone setting
  ATA24/voip/tone/user_defined> busy -s

- Edit frequency and cadence for busy tone
  **ATA24/voip/tone/user_defined> busy <Lowfreq> <Highfreq>
  <Ton1> <Toff1> <Ton2> <Toff2>**

- Display caller ID setting
  ATA24/voip/tone/user_defined> callerid -s

- Edit caller id type
  ATA24/voip/tone/user_defined> callerid <Type>

- Display the setting
  ATA24/voip/tone/user_defined> congestion -s

- Edit frequency and cadence for congestion tone
  **ATA24/voip/tone/user_defined> congestion <Lowfreq> <Highfreq>
  <Ton1> <Toff1> <Ton2> <Toff2>**

- Display user defined dial tone setting
  ATA24/voip/tone/user_defined> dial -s

- Edit frequency and cadence for dial tone
  **ATA24/voip/tone/user_defined> dial <Lowfreq> <Highfreq>
  <Ton1> <Toff1> <Ton2> <Toff2>**

- Display user defined ringing tone setting
  ATA24/voip/tone/user_defined> ringing -s

- Edit frequency and cadence for ringing tone
  **ATA24/voip/tone/user_defined> ringing <Lowfreq> <Highfreq>
  <Ton1> <Toff1> <Ton2> <Toff2>**

- Display the country of the tone setting
  ATA24/voip/tone> region -s

- Choose the region for CPT setting
  ATA24/voip/tone> region <Region Number>

- Display CPT tone timer setting
  ATA24/voip/tone/ timer -s

- Edit CPT tone timer
  ATA24/voip/tone/timer <Tone> <Timer>

<Lowfreq>	(unit is HZ) (Default is 440)
<Highfreq>	(units is HZ) (Default is 480)
<Ton1>	(10msec per unit) (Default is 0)
<Toff1>	(10msec per unit) (Default is 0)
<Ton2>	(10msec per unit) (Default is 200)
<Toff2>	(10msec per unit) (Default is 400)
for user defined ring tone	
<Region Number>	Select one country area for using VoIP feature. There is one option User Defined for proprietary setting.

	0 : User Defined
	1 : Australia
	2 : British (Default is 2)
	3 : Canada
	4 : China
	5 : Denmark
	6 : Finland
	7 : France
	8 : Germany
	9 : Hong Kong
	10 : India
	11 : Japan
	12 : Netherlands
	13 : Norway
	14 : Singapore
	15 : Taiwan
	16 : USA
\<Tone\> for CPT tone timer setting	1: Dial Tone 2: Busy Tone 3: Howler Tone 4: Ringing Tone 5: Special Dial Tone 6: Call waiting Tone 7: Congestion Tone 8: Reorder Tone
\<Timer\>	Range: 0~300 \<sec\>

A.7.10 Config Commands

- Help
> **ATA24/voip\>protocol ?**

- Execute/activate VoIP setting
> **ATA24/voip\>config**

A.7.11 List Commands

- Help
> **ATA24/voip\>listcmds ?**

- Display all VoIP CLI commands
> **ATA24/voip\>listcmds**

A.7.12 Protocol Commands

- Help
> **ATA24/voip\>protocol ?**

- Display the setting
> **ATA24/voip\>protocol -s**

- Set the voip protocol
> **ATA24/voip\>protocol \<Protocol\>**

\<Protocol\>	0: MGCP,

	1: SIP, 2:H.248