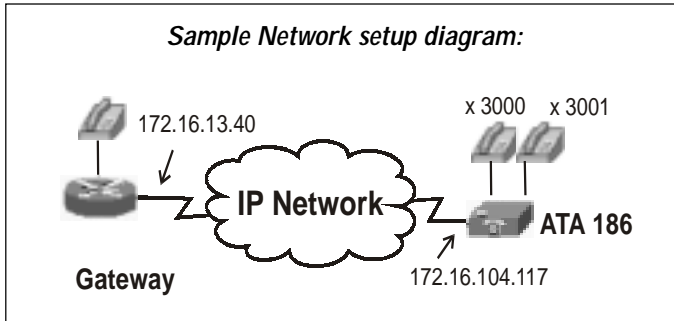


## Cisco ATA 186 configuration



The Cisco ATA 186 Analog Telephone Adaptor is a handset to Ethernet adaptor that interfaces regular analog phones with IP-based telephony networks. The ATA 186 has two voice ports which will support analog telephones.

Cisco ATA 186 has one Ethernet port, and two telephone ports (Phone1 and Phone2).

### Setting up the ATA

- Connect the ATA to the Ethernet port – connect one end of the Ethernet cable to the Ethernet port on the device and the other end to the LAN/Broadband/DSL port.
- Connect the analog phone to the ATA – You can attach up to two analog phones from the ATA.
- Connect the ATA to AC mains power outlet – On switching the power on, the button on top of the device blinks red immediately.

### Configuring IP address on the device & bringing the ATA online on network

#### (a) DHCP configuration

If your network utilizes a DHCP server to assign IP addresses to network devices, or if you are connecting the ATA 186 to a home router such as a Linksys router, follow the steps below:

1. Connect the telephone to "Phone-1" port of ATA & power on it. Pick up the telephone handset, and press the button on top of the ATA 186. You will hear a voice prompt that says, "Configuration Menu. Enter menu number followed by the # key..."
2. To access the DHCP menu, press **20#** on your telephone keypad.
3. Enable DHCP by pressing **1#**.
4. Save the setting by pressing **3**.
5. When the red light on the ATA 186 stops flashing, hang up the phone.
6. To find out the IP address assigned to the device, pick up the telephone handset, and press the button on top of the ATA 186. You will hear a voice prompt that says, "Configuration Menu. Enter menu number followed by the # key..."
7. Press **80#** on your telephone keypad.  
The system will now read back the IP address of your ATA 186. Please write it down.
8. Hang up the telephone handset, and proceed to the Configuring Account and Network Settings section to configure your ATA 186 for use with the Total Internet Net Telephony network.

#### (b) Static IP configuration

If your ATA has a static IP, please **disable** DHCP.  
Access the DHCP menu by pressing **20#** on your telephone keypad.  
Disable DHCP by pressing **0#**.  
Save the setting by pressing **3**.

The following details need to be entered into the ATA:

IP Address  
Default Gateway  
Subnet Mask

Please follow the process mentioned below to enter these values into the ATA:

1. Lift the handset and press the button on top of the ATA  
*You will hear a voice prompt that says, "Configuration Menu. Enter menu number followed by the # key..."*

2. To enter the IP address, press 1 followed by # and then follow the instructions given by IVR. Similarly, enter the default gateway and the subnet mask. The following table lists the menu options that you will need in order to configure basic IP connectivity to the ATA.

IVR Configuration Menu Number	Feature
1	IP Address (StaticIP)
2	Default Gateway (StaticRoute)
10	Subnet Mask (StaticNetMask)

Press the \* key to indicate a delimiter (dot). For example, to enter IP address 203.197.24.154 in "IP address menu" press the following keys on the phone keypad : 1#203\*197\*24\*154# . To save the setting press "3".

Pressing the # key after you have entered the value is very important. If you do not press #, the system will automatically timeout after 10 seconds. The normal sequence is " code # value # 3 ".

Once the IP address, default gateway and subnet mask are entered into the ATA, use the menu mentioned alongside to check the parameters you have entered.

IVR parameter check code	Parameter
80#	IP Address
23#	Subnet Mask
22#	Gate Way IP address

### ***Finding out the IMAGE your ATA is loaded with :***

Once the ATA is configured and you receive the IP address, go to the following site: <http://xxx.xxx.xxx.xxx/dev>, where "xxx.xxx.xxx.xxx" represents the IP address assigned to ATA (either static or through DHCP).

If you have assigned a private IP address to your ATA then you can only view the configuration from the PC which has to be on the same LAN subnet. If the IP address of ATA is a public one then the configuration can be viewed from any PC which is on internet.

After you are able to view the configuration page of the ATA, check out the image your ATA is loaded with & then proceed to the respective chapter to configure the other parameters as per the image.

The image can be viewed at the bottom of the configuration page. The ATA may be loaded mainly with one of the following images :

1. SIP image with which the ATA will support only SIP protocol :

**ata000d6508e9ab**  
 Version: v3.1.0 **atasip** (Build 040211A)  
 MAC: 0.13.101.8.233.171  
 SerialNumber: INM072861V6  
 ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

Go to the chapter " ***configuring account , network & Codec settings of ATA for SIP*** "

2. H323 image with which the ATA will support only H.323 Protocol :

**ata000e8349dd31**  
 Version: v3.1.1 **atah323** (Build 040629A)  
 MAC: 0.14.131.73.221.49  
 SerialNumber: INM074715XA  
 ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

Go to the chapter " ***configuring account, network & Codec settings of ATA for H.323*** "

3. Image with support for both SIP & H.323 protocol :

**ata000d6508d994**  
 Version: v2.16 **ata18x** (Build 030401a)  
 MAC: 0.13.101.8.217.148  
 SerialNumber: INM07276617  
 ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

If your ATA is loaded with the above image which supports both SIP & H.323, it is recommended that the ATA should be configured for H.323.

Go to the chapter " ***configuring account, network & Codec settings of ATA for H.323*** "

### ***Configuring Account, Network & Codec Settings for H.323 :***

Once you get the ATA configuration page on the browser, please enter/check the following values:

- 1) **UIPassword** is to be set to access password which will be known only to the user – recommended to have for security reasons so that others cant make changes to the configuration.
- 2) **UseTftp** is to be set to **0**.
- 3) Set **Dhcp** to **0 (Disabled)** if you want to assign static IP address to ATA. If you want the ATA to get the IP address dynamically assigned then set this to **1 (enabled)**. In the most common scenario it is 0.
- 4) **StaticIP** is to be set to the IP allotted by the ATA
- 5) **StaticRoute** to be set to the default gateway entered earlier into the ATA.
- 6) **StaticNetMask** to be set to the mask entered earlier into the ATA.

*(N.B.: you have already configured 3,4,5 parameters through IVR else you won't be able to view the ATA configuration on your browser.)*

- 7) **UID0, UID1** to be set to user's **PIN**. Don't use same PIN for both fields.
- 8) Keep **PWD0, PWD1** blank. You will see a black dot if this field is made blank.
- 9) **GkOrProxy** to be set to **202.54.117.212**.
- 10) Set **UseLoginID** to **1**.
- 11) Make **LoginID0, LoginID1** same as **UID0** and **UID1** respectively.
- 12) **GkId** is to be specified: in our case it is **NexgeGK**.
- 13) **UseSIP** is set to **0** if your ATA is having image **V2.16** or **2.15** which supports both SIP & H.323. If your ATA is having image **V3.1.x** which supports only H.323 then you don't need to bother about this parameter as it won't be there.
- 14) **DNS1IP & DNS2IP** to be set to **202.54.1.30 & 202.54.1.18** respectively if it is on public IP, else you can use the customer's own DNS server IP for the same.
- 15) Make sure that **LBRCCodec, RxCodec, TxCodec** are set to **0**.
- 16) Make sure **ConnectMode** is set to **0x00060401**.
- 17) Set "Polarity" to "0x00000001" (this is required if you are connecting a billing machine to the ATA for billing like the way it is done in PCO/STD/ISD booth)
- 18) **Leave all other fields to their default value.**

After entering these values, click on the "Apply" button at the bottom and then "Click here to reload" button at the top to update the website with these settings.

A sample of how the website looks is given below (please note that you have to enter data specific to your device for correct configuration):

### Cisco ATA with image V3.1.x(H323)

Cisco ATA 186 (H323) Configuration

UIPassword:	****	UseTftp:	0
TftpURL:	0	CfgInterval:	3600
EncryptKey:		EncryptKeyEx:	0000000000
Dhcp:	0	StaticIP:	202.56.193.16
StaticRoute:	202.56.193.16	StaticNetMask:	255.255.255.2
UID0:	99199916615	PWD0:	.
UID1:	99199916667	PWD1:	.
GkOrProxy:	202.54.117.21	Gateway:	0
UseLoginID:	1	LoginID0:	99199916615
LoginID1:	99199916667	AltGk:	0
AltGkTimeOut:	0	GkTimeToLive:	300
GkId:	NexgeGK	NATIP:	0.0.0.0
MediaPort:	16384	LBRCCodec:	0
AudioMode:	0x00150015	RxCodec:	0
TxCodec:	0	NumTxFrames:	2
CallFeatures:	0x00000000	PaidFeatures:	0x00000000
CallerIdMethod:	0x00019e00	FeatureTimer:	0x00000000
FeatureTimer2:	0x0000001e	Polarity:	0x00000000

ConnectMode:	0x00060401	AutMethod:	0x00000000
TimeZone:	17	NTPIP:	0.0.0.0
AltNTPIP:	0.0.0.0	DNS1IP:	202.54.1.30
DNS2IP:	202.54.1.18	TOS:	0x00005008
SigTimer:	0x01418564	OpFlags:	0x00000002
VLANSetting:	0x0000002b	FXSInputLevel:	-1
FXSOutputLevel:	-4	NPrintf:	0.0.0.0
TraceFlags:	0x00000000	SyslogIP:	0.0.0.0514
SyslogCtrl:	0x00000000	RingOnOffTime:	2,4,25
IPDialPlan:	1	DialPlan:	*STN-#STN-01
DialPlanEx:	0	DialTone:	2,31538,3083
BusyTone:	2,30467,2895	ReorderTone:	2,30467,2895
RingBackTone:	2,30831,3046	CallWaitTone:	1,30831,0,549
AlertTone:	1,30467,0,597	CallCmd:	Af,AH,BS,NA
CFGID:	0x00000000		

apply

ata000e8349dd31

Version: v3.1.1 atah323 (Build 040629A)

MAC: 0.14.131.73.221.49

SerialNumber: INM074715XA

ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

**Cisco ATA with V2.15 or 2.16 image(H323)**

**1. Cisco ATA 186 Configuration**

UIPassword:	*****	ToConfig:	1
UseTftp:	0	TftpURL:	0
CfgInterval:	3600	EncryptKey:	*
Dhcp:	0	StaticIP:	61.11.111.141
StaticRoute:	61.11.111.1	StaticNetMask:	255.255.255.0
UID0:	99919426655	PWD0:	*
UID1:	99919709076	PWD1:	*
GkOrProxy:	202.54.117.21	Gateway:	0
GateWay2:	0.0.0.0	UseLoginID:	1
LoginID0:	99919426655	LoginID1:	99919709076
AltGk:	0	AltGkTimeOut:	0
GkTimeToLive:	300	GkId:	NoneGK
UseSIP:	0	SIPRegInterval:	3600
MaxRedirect:	5	SIPRegOn:	0
NATIP:	0.0.0.0	SIPPort:	5060
MediaPort:	16384	OutBoundProxy:	0
NatServer:	0	NatTimer:	0x00000000
LBRCCodec:	0	AudioMode:	0x00150015

RxCodec:	0	TxCodec:	0
NumTxFrames:	2	CallFeatures:	0xffffffff
PaidFeatures:	0xffffffff	CallerIdMethod:	0x00019e60
FeatureTimer:	0x00000000	Polarity:	0x00000000
ConnectMode:	0x00060401	AuthMethod:	0x00000000
Time Zone:	17	NTPIP:	0.0.0.0
AltNTPIP:	0.0.0.0	DNS1IP:	202.54.1.30
DNS2IP:	202.54.1.18	TCS:	0x000088b8
SigTimer:	0x01418564	OpFlags:	0x00000002
VLANSetting:	0x0000002b	NPrintf:	0.0.0.0
TraceFlags:	0x00000000	RingOnOffTime:	2,4,25
IPDialPlan:	1	DialPlan:	*SN-#St4-01
DialTone:	2,31538,3083	BusyTone:	2,30467,2896
ReorderTone:	2,30467,2896	RingBackTone:	2,30831,3046
CallWaitTone:	1,30831,0,549	AlertTone:	1,30467,0,597
CallCmd:	AT;A;H;BS;NA		

apply

ata000d6508d994  
 Version: v2.16 ata18x (Build 030401a)  
 MAC: 0.13.101.8.217.148  
 SerialNumber: INM07276617  
 ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

**Configuring Account, Network & Codec Settings for SIP :**

Once you get the ATA configuration page on the browser, please enter/check the following values:

- 1) **UIPassword** is to be set to access password which will be known only to the user – recommended to have for security reasons so that others can't make changes to the configuration.
- 2) **UseTftp** is to be set to **0**.
- 3) Set **Dhcp** to **0 (Disabled)** if you want to assign static IP address to ATA. If you want the ATA to get the IP address dynamically assigned then set this to **1 (enabled)**. In most common scenario it is 0.
- 4) **StaticIP** is to be set to the IP allotted by the ATA
- 5) **StaticRoute** to be set to the default gateway entered earlier into the ATA.
- 6) **StaticNetMask** to be set to the mask entered earlier into the ATA.

*(N.B. : you have already configured 3,4,5 parameters through IVR else you won't be able to view the ATA configuration on your browser.)*



- 7) **UID0, UID1** to be set to user's **PIN**. Don't use same PIN for both.
- 8) Keep **PWD0, PWD1** blank. You will see a black dot in this field if it is set blank.
- 9) **GkOrProxy** to be set to **202.54.117.212**.
- 10) Set **UseLoginID** to **1**. (for 3.1.x SIP image In case you face a problem in getting registered/dial tone & making a call, try with value "0" in place of "1")
- 11) Make **LoginID0, LoginID1** same as **UID0** and **UID1** respectively.
- 12) **GkId** is to be specified: in our case it is **NexgeGK**. (in case you are using a 3.1.x SIP image , this field won't be there & hence ignore it)
- 13) **UseSIP** is set to **1** if your ATA is having image **V2.16** or **2.15** which supports both SIP & H.323. If your ATA is having image **V3.1.x** which supports only SIP then you don't need to bother about this parameter as it won't be there.
- 14) **SIPRegOn** is to be made **1**.
- 15) **DNS1IP & DNS2IP** to be set to **202.54.1.30 & 202.54.1.18** respectively if it is on public IP, else you can use the customer's own DNS server IP for the same.
- 16) Make sure that **LBRCcodec, RxCodec, TxCodec** are set to **0**.
- 17) Make sure **ConnectMode** is set to **0x00060401**.
- 18) Set "Polarity" to "0x00000001" (this is required if you are connecting a billing machine to the ATA for billing like the way it is done in PCO/STD/ISD booth)
- 19) Leave all other fields to their default value.

After entering these values, click on the "Apply" button at the bottom and then "Click here to reload" button at the top to update the website with these settings.

A sample of how the website looks is given below (please note that you have to enter data specific to your device for correct configuration):

### Cisco ATA with image V3.1.x(SIP)

#### Cisco ATA 186 (SIP) Configuration

UIPassword:		UseTftp:	1
TftpURL:	0	CfgInterval:	3600
EncryptKey:		EncryptKeyEx:	00000000
Dhcp:	0	StaticIP:	210.211.249.1
StaticRoute:	210.211.249.1	StaticNetMask:	255.255.255.1
UID0:	91999256896	PWD0:	
UID1:	0	PWD1:	
GkOrProxy:	202.54.117.212	UseLoginID:	1
LoginID0:	91999256896	LoginID1:	0
AltGk:	0	AltGkTimeOut:	300
SIPRegInterval:	3600	MaxRedirect:	5
SIPRegOn:	1	NATIP:	0.0.0.0
SIPPort:	5060	MediaPort:	16384
OutBoundProxy:	202.54.117.21	NatServer:	0
NatTimer:	0x0004001e	MsgRetryLimits:	0x00000000
SessionTimer:	0x00000000	SessionInterval:	1800
MinSessionInterval:	1800	DisplayName0:	91999256896
DisplayName1:	0	LBRCcodec:	0
AudioMode:	0x00150015	RxCodec:	0
TxCodec:	0	NumTxFrames:	2
CallFeatures:	0x00000000	PaidFeatures:	0x00000000

CallerIdMethod:	0x00019e60	FeatureTimer:	0x00000000
FeatureTimer2:	0x0000001e	Polarity:	0x00000000
ConnectMode:	0x00060401	TimeZone:	17
NTPIP:	0.0.0.0	AltNTPIP:	0.0.0.0
DNS1IP:	0.0.0.0	DNS2IP:	0.0.0.0
TCS:	0x000068b8	SigTimer:	0x01418564
OpFlags:	0x00000002	VLANSetting:	0x0000002b
FXSInputLevel:	-1	FXSOutputLevel:	-1
NPrintf:	0.0.0.0	TraceFlags:	0x00000000
SyslogIP:	0.0.0.0.514	SyslogCtrl:	0x00000000
RingOnOffTime:	0.4,25	IPDialPlan:	1
DialPlan:	*St4-#St4-11>	DialPlanEx:	0
DialTone:	2,31538,3083	BusyTone:	2,30467,2895
RecorderTone:	2,30467,2895	RingBackTone:	2,30831,3046
CallWaitTone:	1,30831,0,549	AlertTone:	1,30467,0,597
SITone:	0,0,0,0,0,0,0	CallCmd:	Af,AH,BS,NA
CFGID:	0x00000000		

apply

ata000d6508e9ab  
 Version: v3.1.0 atasip (Build 040211A)  
 MAC: 0.13.101.8.233.171  
 SerialNumber: INM072861V6  
 ProductId: ATA18611

Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

Cisco ATA with V2.15 or 2.16 image(SIP)

2. Cisco ATA 186 Configuration

UIPassword:	****	ToConfig:	1
Use Tftp:	0	TftpURL:	0
CfgInterval:	3600	EncryptKey:	
Dhcp:	0	StaticIP:	203.11.124.23
StaticRoute:	203.11.124.1	StaticNetMask:	255.255.255.0
UID0:	99919426655	PWD0:	*
UID1:	99919709076	PWD1:	*
GkOrProxy:	202.54.117.21	Gateway:	0
GateWay2:	0.0.0.0	UseLoginID:	1
LoginID0:	99919426655	LoginID1:	99919709076
AltGk:	0	AltGkTimeOut:	0
GkTimeToLive:	300	GkId:	NeXgeGK
UseSIP:	1	SIPRegInterval:	3600
MaxRedirect:	5	SIPRegOn:	1
NATIP:	0.0.0.0	SIPPort:	5060
MediaPort:	16384	OutBoundProxy:	202.54.117.212
NatServer:	0	NatTimer:	0x00000000
LBRCodec:	3	AudioMode:	0x00150015

RxCodec:	3	TxCodec:	3
NumTxFrames:	2	CallFeatures:	0xffffffff
PaidFeatures:	0xffffffff	CallerIdMethod:	0x0019e60
FeatureTimer:	0x00000000	Polarity:	0x00000000
ConnectMode:	0x00060401	AuthMethod:	0x00000000
TimeZone:	17	NTPIP:	0.0.0.0
AltNTPIP:	0.0.0.0	DNS1IP:	202.54.1.30
DNS2IP:	202.54.1.18	TOS:	0x00063b8
SigTimer:	0x01418564	OpFlags:	0x00000002
WLANSetting:	0x000002b	NPrintf:	0.0.0.0
TraceFlags:	0x00000000	RingOnOffTime:	2,425
IPDialPlan:	1	DialPlan:	*St4-#St4-01
DialTone:	2,31538,3083	BusyTone:	2,30467,2895
ReorderTone:	2,30467,2895	RingBackTone:	2,30831,3046
CallWaitTone:	1,30831,0,549	AlertTone:	1,30467,0,597
CallCmd:	At+HBS;NA		

apply

ata000d6508d994  
 Version: v2.16 ata18x (Build 030401a)  
 MAC: 0.13.101.8.217.148  
 SerialNumber: INM07276617  
 ProductId: ATA18611  
 Features: 0x00000000  
 HardwareVersion: 0x0006 0x0000

*Note : If you are facing some voice quality problem with codec setting 0 then you can try making the codec (LBR, Tx,Rx)setting 3. But with this codec setting you won't be able to make simultaneous calls from both lines(even though dial tone will be there on both lines but at a time you can make one call ).*

*In some instances changing this codec value to 3 may result in improvement in voice quality*

*Change the codec value to 0 in case you want both the lines to make simultaneous calls.*

**Making a call**

To make a call, just pick up the phone, dial the destination number (ex: a call to the US would be 001-<area code>-<destination number>), and start talking.

To end the call, just hang up the phone.

**Future Use**

The device (Cisco ATA 186) needs to be configured only once. For every new pack registered, you shall be assigned a PIN corresponding to the user ID chosen. You will have to simply enter this new PIN into the website (UID0/LoginID0 or UID1/LoginID1)to start making calls on this account.