# DIGITAL SIGNAGE Media Player

# Model: CMP2000N





# CMP2000N Network Signage Player Users Guide

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# I. Introduction

CMP2000N is a digital media player with networking capability. Utilizing an Ethernet connection or any other type of file transfer feature, all media content files can be downloaded from host content server to multiple networked players and stored onto a CF card. You can then playback your media files repeatedly according to playlist's file sequence and pre-defined time schedule.

#### II. Board Spec and Components

- CPU: 32 bits RISC and 64 bits DSP dual processors (ES6425)
- Network: IEEE 802.3 Ethernet single chip (SMC 9113)
- Memory: 16MB SDRam, 2MB Flash Rom, EEPROM
- Video Output: Composite Video/S-Video/VGA
- Audio Output: 2 channel stereo
- Storage Device: Compact Flash type I/II slot
- Power: 5V AC power adaptor input
- PCB: 4 layer design
- Others: RTC and battery, IR receiver

#### III. CMP2000N Kit

- CMP2000NNetwork Player
- 5V AC adaptor
- Remote control
- Audio/Video cables



# **IV. Playlist and Operation**

#### 1. Playlist:

- Playlist is a script text file including command, time schedule, download filename and content server IP address for CMP2000N client to execute line by line.
- Playlist is created by the administrator using CAT (Client Administration Tool) software.

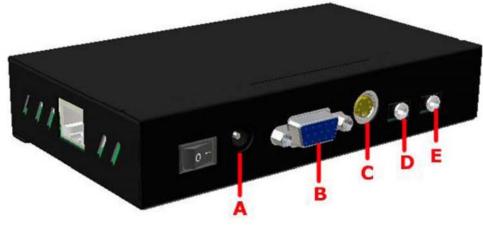
#### 2. Basic Operation without CAT (Server management software):

- Pre-configure CMP2000N's network setup and save. Network setup includes username, password, server IP, client DHCP or static IP, and HTTP or FTP server's URL address to download playlist.
- Administrator uploads playlist file into the specific URL path of HTTP or FTP server
- Connect audio/video cables to any TV display, and Ethernet cable to RJ-45 connector
- Power up CMP2000N it will load network settings from EEPROM, initialize LAN, connect to internet and download playlist from fixed URL and store into CF card automatically interpret playlist file and execute tasks including download files, playback files and time schedule. The CMP2000Nwill play media files repeatedly until a stop or reboot command is executed
- Administrator can update the old **playlist** with a new one, but keep the same filename for CMP2000N to load new playlist file during next power-up or pre-defined time period to visit this fixed URL

#### 3. Monitoring and management Tool - CAT (Client Administration Tool)

- CAT is a Windows application software to manage multiple client devices thru LAN or internet connection
- CAT has many useful commands and editor tools to monitor and control client devices

## V. Client Device Setup



A: Power connector C: S-Video B: VGA D: Composite Video

E: Stereo Jack

#### 1. CMP2000N Operating Procedure

- High speed CF (Compact Flash) memory card is required. Sandisk Ultra II CF card is recommended
- Plug in CF card into CF slot
- Plug in LAN cable that connect to your LAN or internet network
- Connect video cable (RCA or S-Video) to your TV unit or VGA to your PC monitor
- Switch to right video source input channel on TV unit
- Connect audio cable to TV unit's audio connectors
- Connect 5V AC power adapter
- Switch on CMP2000N

#### 2. Client Main Menu

 Display screen will show "<u>Initializing</u>", "<u>Initializing LAN</u>", "<u>Connecting DHCP Server..</u>", "<u>IP</u> <u>Address</u>", "<u>CF Card</u>" then main menu

Note: It will take a few moments while "Connecting to DHCP Server" depending on the IP assignment speed from network router

- Main menu will show the following items on left side
  - Client Local IP: xxx.xxx.xxx.xxx
  - Server IP: xxx.xxx.xxx or Host name
  - Time: 2007/06/01 15:30
  - MAC Address: xx-xx-xx-xx-xx-xx
  - Server Connection: ON or OFF or Error
  - Storage: xxxMB
- <u>Main Menu</u> will show the following items on the right side
  - Setup : press ENTER key to go into Client Setup screen
  - Storage : Press ENTER key to go to file folder of CF card

#### 3. Client Setup Screen

- Use remote control to navigate and make necessary changes
- Press ENTER from main menu to enter CMP2000N's setup screen
- Listed options include Network, Time, AutoStart, Return to Main menu, and Save and reboot
- Press ENTER on any item to go to its screen

#### Network Setup Screen

- a. User Name and Password: Use "<u>Select</u>" or "<u>Goto</u>" key to open virtual keyboard. Move cursor to any letter and press ENTER, or use '0' (zero) to erase letter. Once finished, press "<u>Select</u>" or "<u>Goto</u>" again to exit virtual keyboard mode. Press ENTER key on '<u>user</u> <u>name</u>' or '<u>password</u>' to go to next screen
- b. Server IP and Host Name: Move cursor to select '<u>Server static IP</u>' or '<u>Host Name</u>'. Use numeric key pad of remote to input in the static IP or use virtual keyboard to type in '<u>Host Name</u>'. Press ENTER to go to next page

**Note**: If the computer running CAT is located behind a static IP, then use '<u>Server static</u> <u>IP</u>'. If your IP is dynamic, please register your IP to be forwarded by a dynamic DNS service and type in your DDNS address into '<u>Host Name</u>'. Please see the last page for additional information

c. CMP2000N Client DHCP or Static IP: Move cursor to select 'DHCP' or 'Static IP' and press

ENTER (DHCP is recommended.)

#### **Time Setup Screen**

- a. **Time Server**: Press cursor left or right to select <u>'time.nist.gov'</u> or <u>'windows.time.com'</u>. Press cursor down to move to next item
- b. **Date**: you can ignore this because client board will obtain internet time during power up unless there is no internet connection
- c. Time: See above
- d. **Time Zone**: Press cursor left or right to select your local time zone
- e. DST(Day Saving Time): Press cursor to select On or OFF. If On, it will add one hour
- f. **Reboot Time:** Move cursor to select '<u>OFF</u>' or type in 2 digits for daily reboot time. When time is up, client will reboot itself.
- g. Press ENTER on any field to go back to Setup screen

#### Auto Start Screen

- a. OFF: After power up, client will do nothing and wait for server's command
- **b.** Local CF: After power up, client will playback according to playlist file stored in the CF card or playback A-Z order files without playlist file
- **c.** Network: Use virtual keyboard to enter network URL path. After power up, client will go to this URL path to download playlist file and execute action item listed in the playlist file. (also described on page 2 item IV)

Return to Main Menu: will return to main menu Save and Reboot: save all the changes and reboot client

**Note-1**: Client setup settings can be modified under the "<u>Client Setup Utility</u>" in CAT software. You can save as "<u>autoconfig.mia</u>" onto CF card then insert into CF slot of CMP2000N and power up. Screen will show "<u>Auto Updating</u>" message and save into EEPROM. Remove CF card and delete this file to avoid reloading again.

**Note-2**: You can save as "<u>autoconfig.mib</u>" filename and it will also update into EEPROM except this file will be deleted afterwards.

Label	Label	Remote Key Function
(ESS Remote)	(MP715 remote)	
P/N	SEARCH	Switch to main menu screen from SmartNavi screen
ZOOM	ZOOM	Switch to SmartNavi screen from main menu
ANGLE	TV MODE	Switch between S-Video/Composite Video and VGA output
GOTO SELECT		Only available in Setup screen to <b>enter or exit</b> virtual keyboard page (use
		kev0" as erase kev)
MUTE	MUTE	Mute/Un-mute sound
VOL UP	VOL +	Sound level control
VOL DN	VOL -	Sound level control
SHUFFLE	SHUFFLE	Adjust down scrolling text bar position
PROGRAM	EDIT/PROGRAM	Adjust up scrolling text bar position
KEY+	TITLE	Background color for scrolling text bar (8 colors)
KEY-	SUBTITLE	Foreground color for scrolling text bar (white and black)
ECHO+	REPEAT	Scrolling text transparent level (0%, 25%, 50%, 75%, 100%)
ECHO-	ANGLE/ROTATE	Scrolling text speed settings (fast, normal and slow)
SURROUND	A-B	Turn On/off Clock display on the scrolling text bar
Zoom	Zoom	Font size change on the scrolling text bar
>>FORWARD	>> FORWARD	Auto download/playback files in A-Z order from CF card or execute "playlist.mpl" file in the CF card

#### 4. ESS Remote Control Key Definition

#### 5. Scrolling Text Format

A (\*.txt) text file can be used to store any text data including English, Chinese or Japanese. This text file data will be scrolled like stock symbol or news ticker with any photo or video file.

On the 1<sup>st</sup> line of the text file, you can program settings for the text color and position. Refer to the following example.

osd\_settings=[B/G color], [F/G color], [Transparent], [Speed] e.g. "osd\_settings=2,1,0,0"

**1. B/G color**: a digital number from 0 to 7 (blue, grey, red, light blue, green, yellow, magenta, orange)

2. F/G color: a digital number form 0 and 1 (white and black)

3. Transparency: 0(no transparent effect), 1(75%), 2(50%), 3(25%), 4(100%)

4. Speed: 0(fast), 1 (normal), 2(slow)

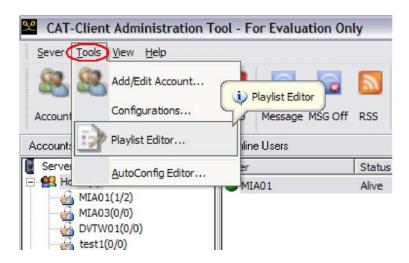
[Note]: Default setting is white text color on grey background if 'osd\_settings' line is omitted.

### VI. CAT Software

1. **CAT** (Client Administration Tool) can be executed on any Windows XP system. Click on the executable CAT.exe file and you will see the display below. Note that **Home** is the default group.

Sever Tools View	Help						
8 🖻				l al d			
Account Playlist	Start Play	Stop Messa	ge MSG Off RSS	Volume V	ideo St	atus Capacity (	CF Data Playlist
Accounts		Online Users					
Server		User	Status	IP Address	MAC Address	Login Time	Playlist
					201		
		<			m yfst		
		Log Dat	a OP De ontrol Server starts	A REAL PROPERTY AND A REAL			
		Log Dat		A REAL PROPERTY AND A REAL			
		Log Dat		A REAL PROPERTY AND A REAL			

 When click Tool tab, it will pull down 4 useful tools (see photo below). "Account and Playlist Editor" are also shown on ICON row for quick access. Note: Version 0928 CAT and firmware will show "<u>Playlist Commander</u>".



3. **Account Management** is used to create or manage group and user account names. You can create multiple groups and assign different account names. When any CMP2000N client logs into

CAT, it will go under its corresponding group if the account name is matched. Otherwise, it will be listed under default Home group.

Account Management	-	X
2	This wizzard allow you to add and edit all group and user account in ICS	
	User Group	
	O Add new group	
	O Edit Group	
	User Account	
	O Add new account	
	• Edit Account	
والما وتصدر التوصية الأرا		
	Prev Next Can	cel

4. **Server Setup** is for administrator to make changes for CAT server. Server port 5021 is used as a port forwarding function for your network router to access CAT.

Server Startup	l Server		
Startup	Control Server		
	Server Port	5021	
	Max. Users	2	
	Connection	3600 Minutes	
	Check Password	d 🗖	
	Other Local IP Address	: 192.168.1.2 Update	

- 5. **Playlist Editor** is for the administrator to create a playlist and save as a new file or open and edit any existing playlist file. A detailed description is given in next chapter.
- 6. Client Setup is an editor to create or open client"s autoconfig.mia file which is used to update their setup values. Save autoconfig.mia into CF card, then plug into client device and power up. It will show "Auto Updating" message and then auto-reboot.

erver IP IP or Hostname	miatech.blogdns.com	
Port	5021	
Foit	5021	
lient Device Setu	p	
Account Name	MP02	Password 123
lient IP Setup		Client Time Setup
DHCP		Time zone GMT-8 •
Static IP		Time zone Givi -o
address	2.168.1.33	Daylight saving (+1hr)
ubnet mask		Reboot Time
1. S	5 . 255 . 255 . 0	
ateway	2.168.1.1	Client Video Output
NS Server		⊙ S-video O VGA
19	2.168.1.1	⊙ S-video O VGA
uto Start - Playlist	File Location	
© Off URL	O Local CF/HDD	O Internet URL Address
server.dyr	nasign.us/dynasign/website	es/mia_group/tony/p.mpl
Interval time i	f new playlist file @ URL (1	0.99min)
	n new playist nie @ Onic (i	o saninj

- a) **IP or Hostname:** Type in static IP for local LAN server or hostname for remote internet server. Example: 192.168.1.100 or <u>miatech.blogdns.com</u>
- b) **Port:** Default is 5021 but if 5021 is already in use on server side, please reassign a different port. Make sure the port number is the same in CAT and your router
- c) **Client Account Name and Password**: Type in user name and password for this client device. After client powers up and logs into CAT server, it will go to its assigned group.
- d) **DHCP or Static IP:** Select Dynamic IP by router or fixed static IP for client device
- e) **Time Zone**: Select your local time zone
- f) Daylight Saving: If checked, one hour will be added
- g) Reboot time: If checked, client will reboot at set time
- h) **Video output**: Selecting S-Video will include composite video. You can use 'Angle' key from remote to switch at main menu i) **Off/Local CF/Internet URL Address**: If Internet
- URL Address is selected, type in URL address and playlist filename so client will download playlist and execute
- j) **Interval time for Network autostart**: check if any new playlist is updated based on this interval time.
- k) Update Client: This is a remote command which will send current settings to all client devices of the selected group. Client device will reboot after settings are saved into EEPROM. It will take approximately 30 seconds from reboot to re-login.

techcompany.com

#### 7. Graphics ICON:

Server Tools View H		ation T	ool						
Account Commander	Play	Stop M		G Off RSS	Volume Vid	• • •	Status Cap	🤌 🙇 🛄 pacity CF Data Playlist	
Accounts	7	Online U	sers						_
Server		User		Group	Status	3	IP Address	MAC Address	Login Time
E 😫 Home(2)		MIAO	2 -	Home	Alive		192.168.1.16	00-E0-4C-77-30	2007-09-29 22:
MP02 84 MIA02 MIA02 MIA02 MIA02 MIA02 MIA02 MIA02									

The command group is highlighted by the left rectangle and the current active group will be highlighted by the cursor. Pressing any button on the command group will result in a command being sent to ALL client devices under the active group. In this example, if we press "<u>Stop</u>", MP02 84 and MIA02 will both stop their video stream.

The rectangle highlight on the right is the client device command which will only send a command to the selected client only.

- a) Account: create group and account user name for group management
- b) **Commander**: Playlist commander to manage playback sequence and download playlist files
- c) **Play**: Send 'Playback' command manually to group of clients
- d) **Stop**: Send 'Stop' command manually to group of clients
- e) **Message**: Instant message editor will pop up. You can select any .txt file or manually type in text message, then send to group of clients. A news ticker type will scroll text from right to left on the bottom of client screen
- f) **Message Off**: Send "Message Off" command to group of clients
- g) **RSS**: Send RSS news ticker message to group of clients. Bundled 'RSS Advantage' software must be pre-installed along with Microsoft .net Framework 1.1 or 2.0

h) **Volume**: There are 15 levels of volume and MUTE i) **Video**: Select from video ON or OFF to turn On/Off client's screen j) **Options**: Commands not frequently used are found here. Chose from '<u>Send playlist</u>', '<u>Download'</u>, '<u>Playback'</u>, '<u>Format'</u>, '<u>Reboot'</u> or '<u>Shutdown'</u>

- Send Playlist: Send playlist file only
- Download: Send download command to group of clients
- Playback: Same as 'Playback' Icon
- Format: Send format CF card command to client. All files in CF card will be erased.
- Reboot: Send reboot client command to client.
- Shutdown: Send shutdown command to client. All clients will be powered OFF.
- k) Status: Client will send current status including time, current playback filename, music and instant message. Example: Playing [01:54:30] BATMANBEGINS\_1.DIVX(5/11,16) 0:0:6, Scrolling Text: IntoTheBlue.txt
- I) **Capacity**: Client will report CF card capacity and firmware version #.
- Example: Storage Total Size: 977MB, Free Space: 762MB. F/W version: 1.1.84.0528C
   m) CF Data: Client will report all the filenames on the CF card. It will display filenames on

the CF tab screen of CAT.

 n) CF Data [Delete]: Click the right mouse button on CF window and 'Delete' will pop up. Check all the files to be deleted before you click 'Delete'. CAT will send delete command to client to remove those checked files and update CF Data screen o) Playlist: Client will report current playlist file. It will display the playlist file order on the playlist tab screen of CAT

#### 8. RSS Advantage Software

t new p	ropo	osals - report [Cni	n\$]	You	Tube to test	new video ID	software	[Cnn\$] China inflation hits 27-month high [ II <	Þ
2	E	View Item							-
eyde En	9 🛄	Pause Scrolling		1					
	2	Paste New Newsfeed		-					
0		Newsfeed Management							
a state of the second se		My Display Preferences		I		Concession of the local division of the loca			
ntemet Soplater		Newsticker Position	•		Тор				
R.	0	Help	•		Bottom				
	×	Exit							
be Reader	3150	CALCULA IN CALCULATION	-						

In order for RSS to function properly, you must install RSS software (RssAdvantage-1.0.2.3-MIAticker.zip) bundled by manufacturer and not from RssAdvantage's website. This is a RSS Feed 2.0 application that allows an administrator to manage their favorite RSS links. News tickers scrolling on the admin PC screen will be mirrored to client device as long as RSS Icon button is pressed.

This basic version is however without some features. For example, there is no "Enable/Disable" on each individual RSS link. If you prefer to get full features, please click 'Help->About' to purchase upgrade version from here to get 10% discount.

[Note1]: RSS must be installed under <u>C:\Program</u> Files\RSS Advantage\Newsticker for CAT to fetch news ticker file.

[Note2]: Microsoft .net Framework 2.0 is required for RSS Advantage to work.

#### 9. Playlist Commander

ocal Directory Remote HTTP Serv	er Remote FTP Server			_	Open	Save Settings	Del Clear ↑ ↓
					Select	GroupHome	EZ-Play Playlist
- 🖃 A:	File Name	Туре	Size( *	1	Seq.	File N. Office Depot	Path
- 🖃 C:	arcldr.exe	exe	150528	1	1	DSC0(Walmart	etpub\wwwroot\images\DSC000
💷 D:	arcsetup.exe	exe	163840		2	DSC00002.JPG	C:\Inetpub\www.root\images\DSC000
E:	AUTOEXEC.BAT	BAT	0		3	DSC00003.JPG	C:\Inetpub\wwwroot\images\DSC000
	boot.ini	ini	186		4	DSC00004.JPG	C:\Inetpub\wwwroot\images\DSC000
- 🗃 I:	CONFIG.SYS	SYS	0		5	DSC00005.JPG	C:\Inetpub\wwwroot\images\DSC000
······································	filereport_00-01-9	mia	1266		6	DSC00006.JPG	C:\Inetpub\wwwroot\images\DSC000
	INSTALL.LOG	LOG	197	>	7	DSC00007.JPG	C:\Inetpub\wwwroot\images\DSC000
🚍 K:	instantmessage.txt	txt	5697		8	DSC00008.JPG	C:\Inetpub\wwwroot\images\DSC000
- 😅 L:	IO.SYS	SYS	0		9	DSC00009.JPG	C:\Inetpub\wwwroot\images\DSC000
📲 Network Neighborhood	log.txt	txt	15060		10	DSC00010.JPG	C:\Inetpub\wwwroot\images\DSC000
	MSDOS.SYS	SYS	0	>>	11	DSC00011.JPG	C:\Inetpub\wwwroot\images\DSC000
	NTDETECT.COM	COM	34724		12	DSC00012.JPG	C:\Inetpub\wwwroot\images\DSC000
	ntldr		214432		13	DSC00013.JPG	C:\Inetpub\www.root\images\DSC000
	odbcconf.log	log	2403				
	pagefile.sys	sys	3019				
	playlist_00-01-9E	mia	1130 👻				

- a) **Local Directory:** Load media files from local PC directory. Once files are moved to the right window, press '<u>EZ-Play</u>' on selected group and server will transfer files to clients
- b) Remote HTT Server: Type URL address and filename from remote HTTP server
- c) **Remote FTP Server:** Input your FTP IP, login and password to browse an off-site server via FTP connection
- d) **Open:** Open existing playlist file
- e) Save: Save new playlist file or overwrite existing one
- f) >: Move single file to playlist window
- g) »: Move all files to playlist window
- h) Select Group: user must specify which group to execute 'EZ-Play' and 'Playlist' buttons
- i) **EZ-Play:** All media files on the right playlist window will be downloaded to client and then playback will ensue j) **Playlist:** Send the playlist to the group's
- clients without playback k) **Del:** Remove single file from playlist window
- I) **Clear:** Remove all files from playlist window and reset values in <u>Setting</u> menu m)

**Up/Down arrows:** Move up or down on the highlight filename to proper position n) **Settings:** Optional settings for playlist file

Playlist Settings	X
Picture Play Time: 3 Seconds	
Picture Transition Mode: Full Screen	•
Format CF before download files	
Mute Sound	
🔽 Delete all files of playlist	
Event Schedule	
Start Time 0	
Stop Time 0	
D/L Time	
OK Cancel	

- o) Picture Play Time: control interval time between JPEG files
- p) Picture Transition Mode: 3 modes (Full Screen, Random, and Cross Fade) are available for transition settings q) Format CF before download files: Set "Format

#### CF Card" command in the playlist so

that all new files in playlist will download into an formatted CF card. r) **Mute Sound:** All playback content will be silent s) **Event Schedule:** Download time, Start Time and Stop Time can be scheduled for

updates on a daily basis. Note: Client"s video screen will shut off when stop time is activated.

#### **10. Remote HTTP Server**

Another content transfer option is by Remote Http Server which is accessible via the Playlist Commander. Just type the URL path and filename and click <u>EZ-Play</u> or save the playlist for future use.

ocal Directory Remote HTTP Server Remote FTP Server	 Open Select		Del plear         ↑         ↓           ▼         EZ-Play         Playlist
URL and Path miatech.com/MIA File Name DSC00013.jpg	Seeq. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	File Na File Na Office Depot Batma Walmart Click_Trailer1.divx DavinciCode.divx FindLove.divx Garfield_ATailofTwo IceAge2_Trailer.divx IntoTheBlue.avi MissioImpossibleIII.avi playlist.mpl RV_Trailer1.divx TheSentinel.divx Ultraviolet_Trailer.divx UnderworldEvolutio XMen3_TrailerB.divx	ath ch.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents miatech.blogdns.com/Media.Contents

#### 11. Remote FTP Server

This feature allows the user to access an FTP server and create a FTP playlist. Navigation will be similar to local directory but you need to enter your FTP access information in order to log in. You can click <u>EZ-Play</u> to execute playlist or save for future use.

Playlist Commander								_ 🗆 🗙
Local Directory Remote HTTP Server	Remote FTP Server				Open	Save Settings	[	Del Clear ↑ ↓
Property					Select	Group Home	• EZ	-Play Playlist
ICS.QA.Report	File Name	Туре	Size(		Seq.	File Name	File Path	
Instant.Messages	BatmanBegins_1.divx	divx	1150		1	BatmanBegins_1.divx	miatech.blogdns.d	:om/Media.Contents
James	Click_Trailer1.divx	divx	2737		2	Click_Trailer1.divx		:om/Media.Contents
🖻 🧰 Media.Contents	DavinciCode.divx	divx	2548		3	DavinciCode.divx		
E Divx.Video.Clips	FindLove.divx	divx	1409		4	FindLove.divx		:om/Media.Contents
download	Garfield_ATailofTw	divx	1227		5	Garfield_ATailofTwo		com/Media.Contents
Flash.swf	IceAge2_Trailer.divx	divx	1098	>	6	IceAge2_Trailer.divx		
FocusMedia	IntoTheBlue.avi	avi	1878		7	IntoTheBlue.avi		com/Media.Contents
	MissioImpossibleIII	avi	1359		8	MissioImpossibleIII.avi		com/Media.Contents
	playlist.mpl	mpl	1240		9	playlist.mpl		om/Media.Contents
MIA	RV_Trailer1.divx	divx	2192		10	RV_Trailer1.divx		com/Media.Contents
YongGe.FEG	TheSentinel.divx Ultraviolet_Trailer	divx divx	1950	>>	11 12	TheSentinel.divx		com/Media.Contents
MIA Documents			1965	S 9	12	Ultraviolet_Trailer.divx	matech.bloguns.c	and the second
TestData	Ftp Site Mana	ger						×
Tony	and the second se	<u> </u>						·
Tony.Playlist	ESST	-	D (1 N	MIA.S				Country
upload —	MIA.Server		ProfileName	JMIA.3	erver			Connect
				-				
			Host Address	miate	ch.com	1		Cancel ///
				-				
			Port	21			Use PASV Mode	
			Login	abcd	е			Anoymous
				1				
				XXXX				
			Password					
			Initial Path					
				1				
	J			4	Add	Save	Remove	
							Tremere	
•								

#### 12. Web Server Configuration

If an administrator needs to change an CMP2000Nclients network setup values, a new feature introduced on version 0928 is Web Server Configuration via Internet Explorer. This is a tool that allows the administrator to read client devices current status and re-configure server's and client's IP, username and password.

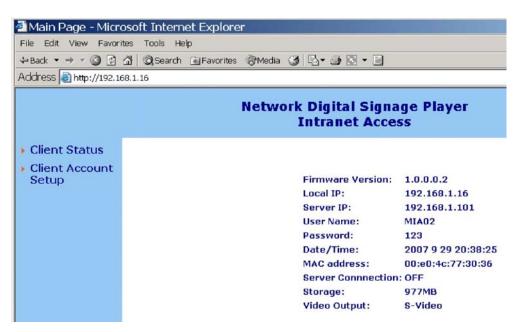
a. To use this function, open Microsoft IE and type client's IP address (for example 192.168.1.16) on the address line.

File	Edit	View	Favorites	Tools	He	lp						
🖛 Ba	ck 🔻	⇒ - (	2 🖉 🖄	<b>Q</b> Sear	rch	😹 Favorites	Media	٢	₿•	9	đ	
Addr	ess [	🕘 http:	//192.168.1	.16								

b. If the IP address is correct, IE will open a confirmation window. Enter username and password below (Username = admin Password = admin)

Site: 192.168.1.16 Realm User Name admin Password *****	
User Name admin	
Determinal Verver	
Fassword and	
Save this password in your password list	

c. Internet Explorer will display the screen below if login and password are both correct. By clicking "<u>Client Status</u>", it will refresh the screen.



d. Click "<u>Client Account Setup</u>" and it will display the setup page.

	Network Digital Intranet	
Client Status Client Account	Clier	nt Account Setup
Setup		is to modify IP addresses for both remote After modification, click "Apply and Reboot" w values and restart.
	Remote Server:	Fixed IP
	Server IP:	192 , 168 , 1 , 101
	User Name:	MIA02
	Password:	***
	Confirm Password:	+++
	Client IP:	DHCP
	LAN IP:	192.168.1.16
	IP Mask:	255.255.255.0
	Gateway:	
	Primary Dns:	
		Apply and Reboot

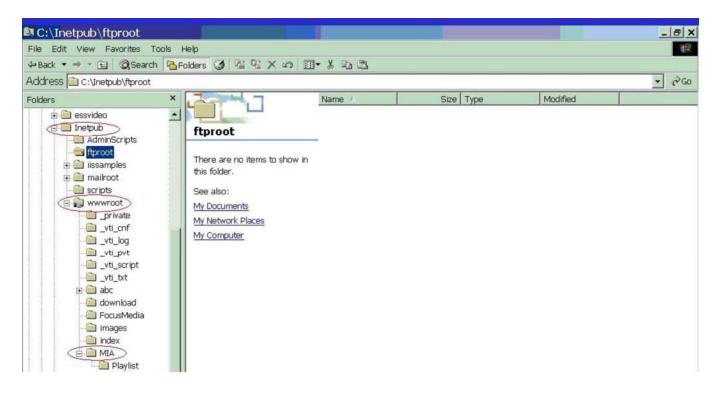
- e. The remote server pull down menu has either a Fixed IP or Host Name selection choice. You can enter a new server IP address or a new hostname. In additional, you can also change clients account name and password.
- f. Click "<u>Apply and Reboot</u>" to save new setup information. Internet Explorer will send a configuration file to CMP2000Nclient and a shut down sequence will commence. After 30-60 seconds, CMP2000Nclient should have rebooted so click on "<u>Client Status</u>" to verify changes have been saved.

#### **VII. HTTP Server Setup**

An alternative to deploy your media files is to use an HTTP server setup, which may increase transfer rates by up to 30%. In order to do this, you need to setup your PC as an HTTP server so that it can become a content server that transfers media files to client devices. Your must use Windows XP Professional due to lack of IIS (Internet Information Services) support on Home edition. (Note: You can download freeware http server software from <u>http://httpd.apache.org/</u> and use it instead of IIS)

#### 1. Microsoft IIS Installation Procedure

- a. Go to Control panel and select Add/Remove programs
- b. Select Add/Remove Windows Components on the left column
- c. Check "IIS (Internet Information Services)" and install you may be asked for your Microsoft Installation disc
- d. After installation is complete, a subfolder will be created under C:\inetpub\wwwroot
- e. Additionally, you can create a subfolder to put your media files but remember to set wwwroot as a shared folder so that all the subfolders under wwwroot can be accessed



#### Important note:

If you encounter an http download error on CAT, it's possible that the anonymous access is not checked on the IIS property.

**Procedure**: Go to Control Panel->#1.Administrative Tools->#2.IIS Shortcut-> #3. shared subfolder -> #4 property/Directory Security -> #5. Edit -> #6. Anonymous Access

Address Adminis	trative Tools #1: Go to Control Panel and select this	
Fold MIA Propert	increases and the second s	Computer Management Shortcut Shortcut
Directory De	ocuments Directory Security HTTP Headers Custom Errors ASP.NET	2 KB 2 KB
Anonymou	Enable anonymous access and edit the authentication methods for this resource.	Event Viewer Shortcut 2KB 42 1nternet Information S Shortcut 2KB
ID address	s and domain name restrictions	🕲 Internet Information Services 📃 🗔 🔀
6	Authentication Methods	File Action View Help ← → ■ □ □ □ □ □ □ □ □ □
<ul> <li>Secure d</li> <li>Secure d</li></ul>	Anonymous access     #6: Click to check No user name/password required to access this resource. Account used for anonymous access: User name: IUSR_HPTABLETPC Browse. Password:     Allow IIS to control password Authenticated access For the following authentication methods, user name and password are required when     anonymous access is disabled, or     access is restricted using NTFS access control lists Digest authentication (password is sent in clear text) Default domain:     Select Realm:     Integrated Windows authentication	Internet Information Services     HPTABLETPC (local computer)     Web Sites     Default Web Site     Printers     Printers     Photo     aspnet_client     MIA #3: click right mouse button and select     Default SMTP Vir"Property"
🕤 Print E 🌺 Scar	OK Cancel Help	

#### 2. Apache HTTP Server Installation Procedure:

- 1. Go to http://httpd.apache.org/download.cgi and download apache 2.2.4-win32-x86-no ssl.msi
- 2. Follow instructions to install
- 3. Copy content files to C:\Program Files\Apache Group\Apache\htdoc\ for download

🗿 Download - The Apa	che HTTP Server Project - Microsoft Internet Explorer		- 🗆 X
File Edit View Favorites	Tools Help		19
↔ Back ▼ → ▼ ③ 🗿 🚮	🕲 Search 🝙 Favorites 🛞 Media 🥨 💁 🖉 🔻 📄 🔯 🗸		
Address Attp://httpd.apac	he.org/download.cgi	∂ Go	Links »
Trunk (dev)     Wiki	You may also consult the <u>complete list of mirrors</u> .		-
	Apache HTTP Server 2.2.4 is the best available version		
Get Involved	The Apache HTTP Server Project is pleased to announce the release of Apache HTTP Server, version		
Mailing Lists     Bug Reports	2.2.4. This release represents ten years of innovation by the project, and is recommended over all previous releases! In particular, this release fixes an 'important' security vulnerability in mod_rewrite.		
• <u>Developer Info</u>	For details see the Official Announcement and the CHANGES 2.2 list.		
Subprojects <ul> <li>Docs</li> <li>Test</li> <li>Flood</li> </ul>	Add-in modules for Apache 1.3 or 2.0 are not compatible with Apache 2.2. If you are running third party add-in modules, you must obtain modules compilied or updated for Apache 2.2 from that third party, before you attempt to upgrade from these previous versions. Modules compiled for Apache 2.2 should continue to work for all 2.2.x releases.		
<ul> <li><u>libapreq</u></li> <li><u>Modules</u></li> </ul>	<ul> <li>Unix Source: httpd-2.2.4.tar.gz [PGP] [MD5]</li> <li>Unix Source: httpd-2.2.4.tar.bz2 [PGP] [MD5]</li> <li>Win32 Source: httpd-2.2.4-win32-src.zip [PGP] [MD5]</li> </ul>		_
• <u>Contributors</u>	Win32 Binary (MSI Installer): apache 2.2.4-win32-x86-no ssl.mst [PGP] [MD5]     Other files		
<ul> <li><u>Awards</u></li> <li>Support</li> </ul>	Apache HTTP Server 2.0.59 is also available		
Webring	Apache 2.0.59 is the current stable version of the 2.0 series, and is recommended over any previous 2.0 release. This release fixes an 'important' security flaw in mod_rewrite.		
	For details see the Official Announcement and the CHANGES 2.0 list.		
	Apache 2.0 add-in modules are not compatible with Apache 1.3 nor 2.2 modules. If you are running third party add-in modules, you will need to obtain modules compiled for or compatible with Apache 2.0 from that third party, before you attempt to use this specific release.		•
😸 http://www.apache.org/dist,	/httpd/httpd-2.2.4.tar.gz.md5	t	11.

#### VIII. Firewall and Anti-Virus program Configuration

In cases where you have connection issues with your CMP2000Nclients, check your anti-virus and firewall programs.

A. Firewall: Set Windows XP firewall to OFF

	<b>e</b>	Security Center	General Exceptions Advanced
The second s		Help protect your PC	Your PC is not protected: turn on Windows Firewall
Get the latest security and virus	ity essentials Center helps you manage your Windows security setting e the three security essentials are marked ON. If the sel dadators. To return to the Socurity Center later, open C ew in Windows to help protect my computer?	tings are not ON, follow the	Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
Windows Update     Image: Control of the security-related issues       • Get help about Security Center	Firewall Automatic Updates Virus Protection	ON S ON S OFF (8)	computer, with the exception of those selected on the Exceptions tab. Don't allow exceptions Select this when you connect to public networks in less secure locations, such as signals. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored
Norton againsi take, t	Antivirus reports that it is turned off. Antivirus softwar t viruses and other security threats. Click Recommendat tow does antivirus software help protect my computer? Windows does not detect all antivirus programs.		Off (not ecommended)      Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
<u>9</u>	ge security settings for: nternet Options Automatic Upd. Windows Firewall	ntes	What else should I know about Windows Firewall?

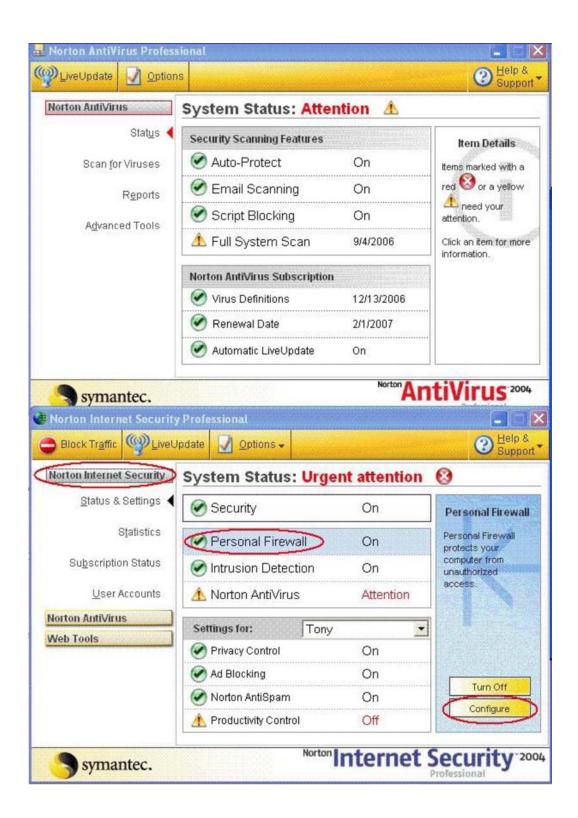
B. ZoneAlarm: If you use ZoneAlarm, add MIAICS as trusted program and IP range for clients.

		¥		All Systems A	
	Firewall		Main	Zones	Carl Hell Expert
	Use this tab to add	Name	IP Address / Site	Entry Type	Zone
Overview	computers and networks to your Trusted or	👍 New Network	192.168.1.0/255.255.255.0	Network	Trusted
	Example: Put a computer or network you want to share with into the	Loopback adapter	127.0.0.1	IP Address	Trusted
Firewall		VPN client zone	10.100.200.10 - 10.100.200.60	IP Range	Trusted
Program		MIA Client Device	192.168.1.10 - 192.168.1.19	IP Range	Trusted
E-mail Protection Privacy Identity Protection	Zone. All traffic sources not listed here are in the Internet Zone by default. Networks are automatically added to this list.				
IM Security		•			
Parental Control		Entry Detail Name MIA	Client Device		
control		Zone Trus	ted	Add >>	Remove

C. Norton Anti-Virus: If you are using Norton Anti-Virus program, make sure to add MIAICS as trusted program and also set IP ranges for client devices to go thru. Easiest way is to set Personal Firewall to OFF.

Norton AntiVirus	System Status: Atte	ntion 🔥	Supp
Status 4	-		
	Security Scanning Features	~	Item Details
Scan for Viruses	Auto-Protect	On	items marked with a red Sor a yellow
R <u>e</u> ports	Scanning	On	A need your
Advanced Tools	Script Blocking	On	attention.
	Å Full System Scan	9/4/2006	Click an item for mo
	Norton AntiVirus Subscription	ı	
	Virus Definitions	12/13/2006	
	🥙 Renewal Date	2/1/2007	
Symantec. Norton Internet Securit Block Tr <u>a</u> ffic	Automatic LiveUpdate	On	
Norton Internet Securi	Automatic LiveUpdate	On Norton	oupp
Norton Internet Securit Block Tr <u>affic</u>	Automatic LiveUpdate  Professional  Jpdate  Qptions -  System Status: Urge	On Norton	- Bupp
Norton Internet Securit Block Tr <u>affic</u>	Automatic LiveUpdate	On NortonAr ent attention	Personal Firewal
Norton Internet Securit Block Tr <u>affic</u> Live Norton Internet Security Status & Settings	Automatic LiveUpdate	On NortonAr ent attention On	Personal Firewa
Norton Internet Securit Block Traffic Dure Norton Internet Security Status & Settings	Automatic LiveUpdate  Professional  Jpdate  Qptions  System Status: Urge  Security  Personal Firewall	On Norton Ar ent attention On On	Personal Firewal protects your computer from
Norton Internet Securit Block Traffic Live Norton Internet Security Status & Settings Statistics Subscription Status User Accounts	Automatic LiveUpdate  Professional Update  Options  System Status: Urge  Security  Personal Firewall  Personal Firewall  Norton AntiVirus	On Norton Art ent attention On On On Attention	Personal Firewal protects your computer from unauthorized access
Norton Internet Securit Block Traffic Live Norton Internet Security Status & Settings Statistics Subscription Status User Accounts	Automatic LiveUpdate  Professional  Jpdate  Options  System Status: Urge  Security  Personal Firewall  Intrusion Detection	On Norton Art ent attention On On On Attention	Personal Firewal protects your computer from unauthorized access
Norton Internet Securit Block Traffic Dure Live Norton Internet Security Status & Settings Statistics Subscription Status	Automatic LiveUpdate  Professional  Jpdate  Qptions  System Status: Urge  Security  Personal Firewall  Personal Firewall  Norton AntiVirus  Settings for: Tony	On Norton Ar	Personal Firewal protects your computer from unauthorized access
Norton Internet Securit Block Traffic Live Norton Internet Security Status & Settings Statistics Subscription Status User Accounts	Automatic LiveUpdate  Professional Update  Options  System Status: Urge  Security  Personal Firewall  Personal Firewall  Norton AntiVirus  Settings for: Tony Privacy Control	On Nerton Art ent attention On On On Attention	Personal Firewal protects your computer from unauthorized access

access for ver	mon Internet programs	
access for ver	mon Internet progr	•
access for ver		
access for ver		
access for ver		
	ams. To quickly i k Program Scan.	dentify
ternet Access	Category	~
Block All	General	
Permit All	General     General     General     General     Second s	
Automatic	General     General	*
Remove	Program <u>S</u>	can
1	nternet Access Block All Permit All Automatic	Block All General Permit All General Automatic General



Firewall Program	s Networking	Locations	Advanced
Workgroup Netwo	orking		125-0.4
			More Info
Settings for: Office (Active	)	de la constitución de classico de	•
Trusted Zone computers ha files and printers with other Trusted Zone.			
Restricted Zone computers		th your computer	
Restricted Zone computers	cannot communicate wit	th your computer	
-	Restricted		
Trust <u>e</u> d	Restricted	68.1.10	
Trust <u>e</u> d Type Address Range	Address From: 192.1	68.1.10	<u> </u>
Trust <u>e</u> d Type Address Range	Address From: 192.1 To: 192.1 ent's IP address, so Norte	68.1.10	<u> </u>

#### **IX. Router Setup**

- 1. Make sure to set **DMZ** to **ON** and input the IP address to that of the PC that CAT is installed on. For example, if CAT is on an admin PC whose IP is 192.168.1.10, then turn on DMZ and set IP to 192.168.1.10. This will ensure that data and commands between Client device and CAT server can communicate with each other.
- 2. Make sure to enable "Port Forwarding" so that data files and be transferred.
- 3. The CMP2000Nuses port 80 and port 5021 so these two ports must be open.
  - Setup MIAClient to 5021 port
  - Setup FTP to 20 and 21 port
  - Setup HTTP to 80 port

SMART				<b>anager</b> Vireless Rout	er model \	WGR614 v5
Schedule	Por	For	warding / Port T	riggering		
Maintenance Router Status Attached Devices Backup Settings Set Password Router Upgrade	© P O P Servi	ort Foi ort Trij <b>ce Na</b>	ect the service type warding ggering me	Server IP	Address	
Advanced	AIM			192	168   1	. Add
Wireless Settings Port Forwarding /		#	Service Name	Start Port	End Port	Server IP Address
Port Triggering	0	1	MIAClient	5021	5021	192.168.1.101
WAN Setup	0	2	FTP	20	21	192.168.1.101
LAN IP Setup	0	3	HTTP	80	80	192.168.1.101
Dynamic DNS Static Routes Remote Management UPnP			Edit Ser	vice [	Delete Servio ervice	ce

- Turn on DMZ server and input your PC server's IP address

NETGE/ SMART	A R <sup>*</sup> WIZARD • 54 Mbps Wireless Router mode	el WGR614 v5
<ul> <li>Schedule</li> <li>E-mail</li> </ul>	WAN Setup	
Maintenance Router Status	Connect Automatically, as Required	
<ul> <li>Attached Devices</li> <li>Backup Settings</li> </ul>	Disable SPI Firewall	
<ul> <li>Set Password</li> <li>Router Upgrade</li> </ul>	Default DMZ Server	2 . 168 . 1 . 101
Advanced Wireless Settings	Respond to Ping on Internet Port	
<ul> <li>Port Forwarding / Port Triggering</li> <li>WAN Setup</li> </ul>	MTU Size (in bytes)	1500
<ul> <li>LAN IP Setup</li> <li>Dynamic DNS</li> <li>Static Routes</li> <li>Remote Management</li> <li>UPnP</li> </ul>	Apply Cancel	
Web Support Knowledge Base		

Turn on DHCP and set a range (optional)

NETGE SMART	A R wiz		<b>manager</b> s Wireless Router mod	lei WGR614 v5		
Attached Devices	LANI	P Setup				
Backup Settings						
Set Password     Deuter United a		PAP Setup	192			
Router Upgrade     Advanced	IP Addre		. 168 . 1 . 1			
Wireless Settings	IP Subn	et Mask	. 255 . 255 . 0			
Port Forwarding /	RIP Dire	ection	None			
Port Triggering	RIP Vers	sion	Disabled 💌			
• WAN Setup						
LAN IP Setup		Router as DHCP Serv				
Dynamic DNS	Starting	IP Address	192	. 168 . 1 . 10		
Static Routes	Ending I	Ending IP Address 192 168 1 103				
Remote Management	Address	s Reservation				
• UPnP	#	IP Address	Device Name	Mac Address		
Mich Support	· 1	192.168.1.11	Art	00:14:A5:0F:6D:0B		
Web Support Knowledge Base	0 2	192.168.1.12	Melody_Dell9300	00:13:CE:21:EC:82		
<ul> <li>Documentation</li> </ul>	03	192.168.1.13	IRIS_DELL2200	00:14:A5:3D:E8:BE		
bostinicitation	04	192.168.1.14	HPTABLETPC	00:08:02:D2:71:52		
Logout	0 5	192.168.1.10	RAINBOW	00:09:5B:49:EB:F9		

#### **IMPORTANT!!!**

If the admin PC (computer running CAT) is assigned an IP by either a DSL or cable modem, then it will have a dynamic IP and not a static IP. That PC will have a new IP assigned arbitrarily by your modem/internet provider so if you setup an CMP2000Nclient using Static Server IP (**see section V**, **3b**), you will have to manually change your IP every time your PC has its IP reassigned.

To combat this, you need to setup a DNS host name - please register your DNS host name at <u>www.dyndns.org.</u> Afterwards, program your user name and password in your router so that when the router powers up, it will log into dyndns.org with your host name.

The CMP2000Nclient will log into dyndns.org and obtain the router IP address of your PC server running CAT.

SMART	WIZARD router	manager s Wireless Router model WGR614 vS
Router Status     Attached Devices     Backup Settings	tached Devices       Dynamic DNS         ackup Settings       Image: Comparison of the set	
<ul> <li>Set Password</li> <li>Router Upgrade</li> </ul>		
Advanced Wireless Settings Port Forwarding / Port Triggering WAN Setup LAN IP Setup	Service Provider Host Name User Name Password	www.DynDNS.org  miatech.blogdns.com miatech *******
<ul> <li>Dynamic DNS</li> <li>Static Routes</li> <li>Remote Management</li> <li>UPnP</li> </ul>	Use Wildcards           Apply         Cancel         Show Status	
Web Support Knowledge Base Documentation Logout		

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com